9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM

“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”
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Distinguished Speaker for Transoral Inside-Out Anatomy

MODERATOR
Vinidh Paleri, Royal Marsden Hospital, UK

Transoral Anatomy in the Context of TORS
Niels C. Kokot, University of Southern California, USA
Vinidh Paleri, MS, FRCS(ORL-HNS)

Consultant Head and Neck Surgeon, The Royal Marsden Hospital NHS Foundation Trust, London
Professor of Robotic and Endoscopic Head and Neck Surgery, Institute of Cancer Research, London

Vin Paleri was appointed as Consultant Head and Neck Surgeon at The Newcastle upon Tyne Hospitals in 2005, and as Professor of Head and Neck Surgery at Newcastle University in 2015. In 2017, he took up the post of Consultant Head and Neck Surgeon at The Royal Marsden Hospital, the world’s first cancer hospital famed for its cutting-edge research. He is also Professor of Robotic and Endoscopic Head and Neck Surgery at the Institute of Cancer Research, London.

He is one of the few surgeons in the United Kingdom with expertise in Transoral Robotic Surgery and Transoral Laser Microsurgery for head and neck cancers and has accrued the largest experience in Transoral Robotic Surgery in the UK. He has pioneered a new robotic technique to remove radiorecurrent and radioresidual cancers and is the first surgeon in the UK to perform robotic free flap reconstructions.

His research interests are primarily on the processes of care, decision making and functional outcomes in head and neck oncology. He has published over 170 papers, reviews and book chapters on head and neck oncology. He is the chief investigator for the NIHR funded TUBE trial and contributes as co-investigator and principal investigator for several other national trials. Currently, he serves as Chairman of the research council for the British Association of Head and Neck Oncologists, and as member of several national bodies. He co-edited the fourth and fifth editions of the UK National Head and Neck Cancer Multidisciplinary Management Guidelines, and the section on “Head and Neck Disease” for the forthcoming 8th edition of Scott-Brown’s Otolaryngology, the leading multi-volume multi-author textbook in the specialty in the world. He is an Associate Editor for Head and Neck, the top ranked journal in the field, Senior Reviews Editor for the Journal of Laryngology and Otology, one of the oldest journals in the field (est. 1887) and serves on the editorial board for several other leading journals in the specialty.
Niels Christopher Tyson Kokot, MD

EDUCATION
1991 High School Diploma, Montgomery High School, Santa Rosa, CA
1995 B.S., Microbiology and Molecular Genetics, University of California, Los Angeles, CA
2002 M.D., Medicine, University of Washington, Seattle, WA

POST-GRADUATE TRAINING
2002-2003 Internship, Preliminary General Surgery, Department of General Surgery, LAC+USC Medical Center, Los Angeles, CA
2003-2007 Residency, Otolaryngology-Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, LAC+USC Medical Center, Los Angeles, CA
2007-2008 Fellowship, Head and Neck Surgical Oncology, Microvascular Reconstructive Surgery, Transoral Robotic Surgery, Department of Otorhinolaryngology-Head and Neck Surgery, University of Pennsylvania, Philadelphia, PA

HONORS, AWARDS
1991-1995 U.C. Regents Scholarship University of California, Los Angeles, CA
1995 Cum laude University of California, Los Angeles, CA
1995 College Honors College of Letters and Sciences, University of California, Los Angeles, CA
1995 Departmental Honors Department of Microbiology and Molecular Genetics, University of California, Los Angeles, CA
2000 Subspecialty Award, Immunology and Rheumatology University of California, Los Angeles, CA
2001 Alpha Omega Alpha University of Washington, Seattle, WA
2002 Merck Manual Award University of Washington, Seattle, WA
2010 Teaching Award Department of Otorhinolaryngology-Head and Neck Surgery, University of Southern California, Los Angeles, CA
2011-2015 Top Doctors Pasadena Magazine, Pasadena, CA
2017 Top Doctors Los Angeles Magazine, Los Angeles, CA
2018 Teaching Award Caruso Department of Otorhinolaryngology-Head and Neck Surgery, University of Southern California, Los Angeles, CA

ACADEMIC APPOINTMENTS
2007-2008 Clinical Instructor Department of Otorhinolaryngology-Head and Neck Surgery, University of Pennsylvania, Philadelphia, PA
2008-present Assistant Professor, Clinical Track Caruso Department of Otorhinolaryngology-Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA
2017-present Associate Professor, Clinical Track Caruso Department of Otorhinolaryngology-Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA

ADMINISTRATIVE APPOINTMENTS
2013-present Residency Program Director Caruso Department of Otorhinolaryngology-Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA
2016-2017 Interim Vice Chair Caruso Department of Otorhinolaryngology-Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA
Inside Out Anatomy of TORS

Niels Kokot
USC Caruso Department of Otolaryngology-Head and Neck Surgery

Transoral Robotic Surgery (TORS) is one of the standard treatments for oropharyngeal and laryngeal squamous cell carcinoma. Common operations include TORS radical tonsillectomy, base of tongue resection, and supraglottic laryngectomy. Traditionally, head and neck surgeons are training in open surgery, which allows direct visualization and control of the great vessels. TORS approaches the vascular anatomy “inside-out” in a way that may be unfamiliar to surgeons as they learn TORS techniques. This talk will outline the vascular anatomy of the tonsillar fossa, base of tongue, and supraglottic laryngectomy. It will detail the landmarks, both anatomic and radiographic, that will alert the TORS surgeon to the vasculature. In the tonsil, the styloglossus and stylopharyngeus provide landmarks for encountering the carotid system. In the tongue base, the lingual artery is relatively deep and lateral. In the supraglottic larynx, the pharyngoepiglottic fold provides the key to the superior laryngeal vessels. Finally, imaging anomalies occur and can be identified with pre-operative contrast imaging. A thorough knowledge of the anatomy allows for safe TORS procedures.
9th INTERNATIONAL
ROBOTIC SURGERY
SYMPOSIUM

“New Era of Robotic Head and Neck Surgery
Using a Flexible Single Port System”

Keynote lecture 1

MODERATOR
Chae-Seo Rhee, Seoul National University, Korea

Transoral Robotic Treatment of Lingual Tonsil:
An Overview in a Modern Perspective
Claudio Vicini, GB Morgagni-L Pierantoni Hospital, Italy
Chae-Seo Rhee, MD

PRESENT ACADEMIC APPOINTMENTS
Professor and Chair of Dept. of Otorhinolaryngology-Head and Neck Surgery, Seoul National University Hospital, Seoul National University College of Medicine,

EDUCATION
1986 M.D. degree from Seoul Nat’l Univ. College of Medicine, Korea
1997 Ph.D degree from Seoul Nat’l Univ. Graduate School of Medicine, Korea

CAREER
1987-1990 Served in Korean Army as an Army Physician
1990-1994 Residency of ORL at Seoul National University Hospital (SNUH)
1994-1998 Faculty at Seoul City Boramae Hospital Affiliated SNUH
1998-present Faculty of ORL-HNS at SNUH
1996.12 -1997.02 Visiting scholar at Mie University, Department of Otorhinolaryngology, Japan
2000. 3 - 2002.2 Visiting scholar at Dennis A Carson’s Immunology lab, and Eyal Raz’s Allergy Lab, Department of Internal Medicine, UCSD, CA, USA
2008.4 - present Tenured Professor at SNU College of Medicine
2010.09 - 2014.03 Chair, Department of ORL-HNS at Seoul National University Bundng Hospital
2018. 07.16 - present Chair, Department of Otorhinolaryngology at SNUH and Seoul National University College of Medicine

INTERNATIONAL MEMBERSHIP
Member of CORLAS (Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum)
European Academy of Allergy and Clinical Immunology
International Rhinologic Society
Asian Society of Facial Plastic and Reconstructive Surgery

ACADEMIC ACTIVITIES
Chairman (President), Board of Directors, Korean Society of ORL-HNS
2011.11 ~ Member of Councilors, Korean Society of Allergy, Asthma and Clinical Immunology
2011.11 ~ Member of board of directors, Korean Society of Allergy, Asthma and Clinical Immunology
2009. 06 ~ Member of Councilors, Asian Facial Plastic Surgery Society
2012-2013 President, Korean Society of Sleep Medicine

PUBLISHED ARTICLES
190 International Articles and 80 Domestic articles
7 Book Chapter contribution and 1 Book translation
Vicini Claudio, MD

WORK EXPERIENCE

DATES
1980-90 Former Staff Member Divisione ORL, Ospedale Morgagni-Pierantoni di Forlì
June-Sept 87 Former vice Chairman Servizio di Neurofisiopatologia Ospedale Bufalini di Cesena
1990-1996 Former vice Chairman Divisione ORL, Ospedale Maggiore, Bologna
Dec 1st 1993-1996 Former Director Modulo Audiovestibologia Ospedale Maggiore, Bologna

OCCUPATION OR POSITION HELD

2005-2015 Former Director, Special Surgery Department, AUSL Forlì
Dec 2015 Director, Department of Head & Neck Surgery, ASL Romagna
Sept 1990 Chief, Otolaryngology - Head & Neck Surgery Unit - Forlì Hospital
August 2015 Chief, Otolaryngology - Head & Neck Surgery Unit - Faenza Hospital
AUSL della Romagna (formerly ASL of Forli) ITALY

MAIN ACTIVITIES AND RESPONSIBILITIES

April 1st 2017 Associate Professor of Otorhinolaryngology, University of Ferrara, Dipartimento di Scienze biomediche e chirurgie specialistiche

Feb 1st 2019 Associate Professor of Otorhinolaryngology University of Bologna, Dipartimento di Medicina Specialistica, Diagnostica e Sperimentale
Former Extraordinary Professor of Otorhinolaryngology University of Insubria- Varese, may 1st 2016
Former Adjunct Professor University of Parma, Maxillo-Facial Clinic(SDB Surgery), since 1998
Former Adjunct Professor University of Pavia (Ronchopaty Surgery), since 1998
Former Consultant Clinica Neurologica di Bologna, Sleep Surgery
Former Board of Associazione Italiana Medicina del Sonno (AIMS)
Probo Viro AIMS
AIMS Expert of Sleep Medicine
Past President Società Italiana di ORL Geriatria
Past Vice President Collegio di Direzione ASL di Forlì
Past President Associazione Italiana Otorinolaringologi Ospedalieri (AOOI)
Past President Società Italiana di Otorinolaringoiatria (SIO) -2018/2019
Florida Hospital Nicholson Center FHNC Global Faculty Board
Ituitive Europe Proctor for TORS
BOARD EOS Disturbi Respiratori in Sonno DRS) since 2010
SIO Sleep Surgtery Comettee Coordinator since 2017
Clinical Resarch Scientific Board AIMS since 2019
TRANSORAL ROBOTIC TREATMENT OF LINGUAL TONSIL: AN OVERVIEW IN A MODERN PERSPECTIVE

C.Vicini, G. Meccariello, G.N. Iannella, M. De Luca
Department of H&N Surgery, ENT Unit of Forlì-Faenza, AUSL Romagna - University of Ferrara and Bologna in Forlì - ITALY

Trans Oral Robotic Surgery was originally devised for the minimally invasive removal of resectable SSC of the upper airways. More recently an increasing number of interesting applications was described in the area of benign pathology of Head and Neck, including the lingual tonsil. Since 2008 our Group introduced a specifically developed TOR approach for the treatment of moderate to severe obstructive sleep apnea related to tongue base obstruction. Up to June 24th 2019 604 cases of TORS were registered. 323 Base of the Tongue Reduction+Supraglottoplasty are included in the series. 105 patients suffering of Symptomatic Lingual Tonsil Hyperplasia were operated on of TOR Lingual Tonsillectomy. The aim of our contribution is to give an answer to 3 basic questions:

• Is Trans Oral Robotic Surgery in Lingual Tonsil area an effective procedure?
• Is it safe?
• Does Lymphatic Tissue Regrow along the time?

The review presents the experience of the robotic center that developed the technique with regards to patient selection, surgical method, and post-operative care. In addition, the review provides results of a systematic review and meta-analysis of the complications and clinical outcomes of TORS when applied in the management of OSAHS. The rate of success, defined as 50% reduction of pre-operative AHI and an overall AHI <20 events/h, is achieved in up to 76.6% of patients with a range between 53.8% and 83.3%. The safety of this approach is reasonable as the main complication (bleeding) affected 4.2% of patients (range 4.2%-5.3%). However, transient dysphagia (7.2%; range 5%-14%) does compromise the quality of life and must be discussed with patients preoperatively. TORS for the treatment of OSAHS appears to be a promising and safe procedure for patients seeking an alternative to traditional therapy. Appropriate patient selection remains an important consideration for successful implementation of this novel surgical approach requiring further research.

We also introduce a preliminary study in eighty-four patients who underwent TORS for recurrent lingual tonsillitis from January 2009 to December 2018 were recruited. Lingual tonsillitis episodes and drug-use/year in pre- and post-surgical times after long-term follow-up were compared to investigate TORS efficacy. A cohort of patients, among those enrolled, were subjected telematically to questionnaires to assessed post-surgery quality of life by Glasgow Benefit Inventory (GBI) and swallowing outcomes determined by MD Anderson Dysphagia Inventory (MDADI). Mean TORS surgical time was 31.9 ±9.3 min, mean tissue removed was 11.7 ± 6.2 cm3. No major intra-operative complication, postoperative complications were in 2/84 patients (2.3%). After 49.6 ± 27.1 months of follow-up, a statistical significance was obtained comparing as acute lingual tonsillitis episodes in preoperative and postoperative stages as drugs use/year (P value 0.0001); during fiberoptic endoscopic evaluation 50 patients (59.5%) had a grade O according to Friedman, other 34 patients (40.5%) had a I° LTH grade (P value < 0.0001). Eighty-four patients had a persistent complaint at lingual tonsillitis onset: postsurgical marked reduction was registered (P value < 0.3). A satisfying QoL with GBI in three individual subscales (general 49,5±21,5, social 28,8 ± 20,3, physical 65.8 ± 32.1) were reported. Minimal long-term impact on swallowing function (85,9 ± 7,5 composite MDADI score) was noted. Our showed an improving state of health for patients treated by TORS for recurrent LT. Patients who underwent TORS tongue base reduction for LT proved to have a reasonable QoL and swallowing outcomes with no long-term sequelae. The data are very encouraging.

About Lingual tonsil lymphatic tissue regrowth in patients undergoing transoral robotic surgery Sixty-eight patients (41 male and 27 female; mean age = 51.3 years) were considered suitable for the study analysis. Clinical regrowth was observed in six (8.8%) patients: four (5.9%) and two (2.9%) patients with grade 2 and 3 lymphatic hypertrophy, respectively. No correlation between the grade of regrowth, the time interval from surgery, and the volume of lymphatic tissue removed was found. The lymphatic tissue regrowth after TORS resection appears to be very low.
In conclusion:

- TORS is becoming a common approach to benign diseases
- Tongue Base and Lingual Tonsil seems to be a perfect target for TORS
- TORS for Benign Lingual Tonsil Reduction/Removal proved to be safe and effective
- Long Term Efficacy for OSA and Recurrent Tonsillitis was demonstrated
- Long Term Lymphatic Tissue Regrowth is fairly low and clinically not significant
Grand Debate 1: Surgery for Obstructive Sleep Apnea: Robotic versus Non-Robotic

CHAIRMAN
Kyung-su Kim, Yonsei University, Korea

MODERATOR
Hsin-Ching Lin, Kaohsiung Chang Gung Memorial Hospital, Taiwan
Claudio Vicini, GB Morgagni-L Pierantoni Hospital, Italy

PANELLIST
J. Scott Magnuson, University of South Florida, USA
Hin Ngan Tay, Mount Elizabeth Medical Centre, Singapore
Hyung-Ju Cho, Yonsei University, Korea
Jeong-Whun Kim, Seoul National University, Korea
Hyun Jik Kim, Seoul National University, Korea
GRAND DEBATE 1: SURGERY FOR OBSTRUCTIVE SLEEP APNEA: ROBOTIC VERSUS NON-ROBOTIC

Kyung-su Kim

EDUCATION
1982. 3-1986. 2 Graduated from Yonsei University, College of Medicine, Received the Academic Degree of M.D.
1993. 9-1997. 2 Graduate School, Yonsei University, Received the Ph.D. Degree

ACADEMIC APPOINTMENT
2008. 3-now Professor, Dept. of Otorhinolaryngology, Division of Rhinology in Gangnam Severance Hospital, Yonsei University College of Medicine
2008-2016 Chairman, Dept. of Otorhinolaryngology, Gangnam Severance Hospital

ABROAD TRAINING
1995. 5. 8.-1995. 5. 22 Third school of Anatomy (Histology), Niigata University, Niigata, Japan, As a Special Researcher
1999. 10. 19.-2001. 10. 13 Lab. of Molecular Carcinogenesis, NIEHS, NIH, NC, USA, As a Research Fellow

AWARDS
2006. 11 Excellent Scientific Achievement Award, Korean Rhinologic Society
2008. 3 Excellent Article Award, Korean Rhinologic Society
2016. 12 Presidential Award Certificate from Korea Consumer Agency
Hsin-Ching Lin, MD, FACS, FICS

Hsin-Ching Lin MD, FACS, FICS is a professor of the Department of Otolaryngology, Sleep Center and Robotic Surgery Center, Chang Gung University, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan. Dr. Lin is Chairman of the Department of Otolaryngology, Kaohsiung Chang Gung Memorial Hospital. He completed a fellowship in Chicago, IL under the guidance of Professor Michael Friedman, one of the world’s leading and most prolific ENT surgeons, especially in sleep surgery.

He is an active member of many societies, such as American Academy of Otolaryngology - Head & Neck Surgery (AAO-HNSF), American Academy of Sleep Medicine, Taiwan Otolaryngological Society, Taiwan Society of Sleep Medicine and Asian Sleep Research Society…etc. He is a fellow of the American College of Surgeons. He was appointed as a consultant/member for the Sleep Disorders Committee, and serves on both the General Otolaryngology Education Committee and Geriatric Otolaryngology Committee of the AAO-HNSF. Currently, he is the associate editor of the Journal of Taiwan Otolaryngology-Head and Neck Surgery. He is also pointed as the member of the International Editorial Board of the Otolaryngology-Head and Neck Surgery (official journal of the AAO-HNSF) and the Auris Nasus Larynx (official journal of the Oto-Rhino-Laryngological Society of Japan). Additionally, he has received many awards from the Taiwan Otolaryngological Society, Taiwan Society of Sleep Medicine, including the 2009 AAO-HNSF Honor Award, the 2012 International Guest Scholarship Award of the American College of Surgeons, the 2017 Best in Sleep Medicine (Gold Ribbon Award) of the AAO-HNSF and 2018 Best Poster Award in Sleep Medicine of the AAO-HNSF.

Dr. Lin has a special interest in the surgical and non-surgical treatment of sleep-related breathing disorders with extensive experience in a variety of advanced sleep surgeries. He has been involved many aspects of clinical researches and published many papers in the prestigious peer-review journals in the fields of the otorhinolaryngology and sleep medicine. He has authored many book chapters and was the editor-in-chief of the Karger book, entitled “Advances in Sleep-related Breathing Disorders”. Dr. Lin has also presented numerous papers at local, international society meetings and has been an invited speaker at many international conferences on sleep medicine and otorhinolaryngology.
GRAND DEBATE 1: SURGERY FOR OBSTRUCTIVE SLEEP APNEA: ROBOTIC VERSUS NON-ROBOTIC

Vicini Claudio, MD

WORK EXPERIENCE

DATES
1980-90 Former Staff Member Divisione ORL, Ospedale Morgagni-Pierantoni di Forl
June-Sept 87 Former vice Chairman Servizio di Neurofisiopatologia Ospedale Bufalini di Cesena
1990-1996 Former vice Chairman Divisione ORL, Ospedale Maggiore, Bologna
Dec 1st 1993-1996 Former Director Modulo Audiovestibologia Ospedale Maggiore, Bologna

OCCUPATION OR POSITION HELD

2005-2015 Former Director, Special Surgery Department, AUSL Forl
Dec 2015 Director, Department of Head & Neck Surgery, ASL Romagna
Sept 1990 Chief, Otolaryngology - Head & Neck Surgery Unit - Forl- Hospital
August 2015 Chief, Otolaryngology - Head & Neck Surgery Unit - Faenza Hospital

AUSL della Romagna (formerly ASL of Forli) ITALY

MAIN ACTIVITIES AND RESPONSIBILITIES

April 1st 2017 Associate Professor of Otorhinolaryngology, University of Ferrara, Dipartimento di Scienze biomediche e chirurgico specialistiche
Feb 1st 2019 Associate Professor of Otorhinolaryngology University of Bologna, Dipartimento di Medicina Specialistica, Diagnostica e Sperimentale

Former Extraordinary Professor of Otorhinolaryngology University of Insubria- Varese, may Ist 2016
Former Adjunct Professor University of Parma, Maxillo-Facial Clinic(SDB Surgery), since 1998
Former Adjunct Professor University of Pavia (Ronchopaty Surgery), since 1998
Former Consultant Clinica Neurologica di Bologna, Sleep Surgery
Former Board of Associazione Italiana Medicina del Sonno (AIMS)
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AIMS Expert of Sleep Medicine
Past President Società Italiana di ORL Geriatria
Past Vice President Collegio di Direzione ASL di Forl
Past President Associazione Italiana Otorinolaringologi Ospedalieri (AOOI)
Past President Società Italiana di Otorinolaringoiatria (SIO) -2018/2019
Florida Hospital Nicholson Center FHNC Global Faculty Board
Intuitive Europe Proctor for TORS
BOARD EOS Disturbi Respiratori in Sonno DRS) since 2010
SIO Sleep Surgery Cometee Coordinator since 2017
Clinical Resarch Scientific Board AIMS since 2019
GRAND DEBATE 1: SURGERY FOR OBSTRUCTIVE SLEEP APNEA: ROBOTIC VERSUS NON-ROBOTIC

Jeffery Scott Magnuson, MD

HOSPITAL APPOINTMENTS
September 1, 2012 - present AdventHealth Orlando, Celebration, Florida
July 1, 1999 - July 31, 2012 University of Alabama Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012 Cooper Green Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012 Children's Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012 Veteran's Administration Medical Center, Birmingham, Alabama
February 5, 2004 - February 4, 2008 UAB Medical West, Bessemer, Alabama
September 12, 2005 - July 31, 2012 UAB Highlands, Birmingham, Alabama
November 27, 2006 - November 26, 2008 Medical West Surgery Center, Bessemer, Alabama

EDUCATION
09/1986 - 06/1988 BA, University of Texas, Austin, Texas
09/1990 - 05/1994 MD, University of Texas Medical School, Houston, Texas

LICENSURE
June 21, 2012 State of Florida, ME 113411
September 27, 1995 State of Alabama, 19372

BOARD CERTIFICATION
April 24, 2000 American Board of Otolaryngology-Head and Neck Surgery, 16059

POSTDOCTORAL TRAINING
1994 - 1995 Internship, University of Alabama at Birmingham, General Surgery, Birmingham, Alabama
1995 - 1999 Residency, University of Alabama at Birmingham, Otolaryngology, Birmingham, Alabama

ACADEMIC APPOINTMENTS
2018-Present Professor of Otolaryngology-HNS University of South Florida, College of Medicine, Tampa, FL
2012-Present Professor of Otolaryngology-HNS University of Central Florida, College of Medicine, Orlando, FL
2013-Present Fellowship Director Head and Neck Surgery Fellowship, Florida Hospital Celebration Health, Celebration, Florida
2008 - 2012 Associate Professor of Surgery University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
2007 - 2008 Medical Director Cooper Green Hospital, Otolaryngology -Head and Neck Surgery, Birmingham, Alabama
2007 - 2012 Associate Scientist University of Alabama at Birmingham, Comprehensive Cancer Center Experimental Therapeutics Program, Birmingham, Alabama
2004 - 2012 Associate Scientist University of Alabama at Birmingham, Minority Health and Research Center, Birmingham, Alabama
2002 - 2012 Residency Program Director University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
1999 - 2008 Assistant Professor of Surgery University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
GRAND DEBATE 1: SURGERY FOR OBSTRUCTIVE SLEEP APNEA: ROBOTIC VERSUS NON-ROBOTIC

Hin Ngan Tay

CURRENT APPOINTMENT
Director, HN TAY ENT | Head&Neck | Thyroid | Sleep ROBOTIC SURGERY
Adjunct Assistant Professor, Duke-NUS Graduate Medical School
Visiting Consultant, Department of Otolaryngology, Singapore General Hospital
Visiting Consultant, Department of Otolaryngology, Changi General Hospital
Visiting Consultant, Department of Otolaryngology, Tan Tock Seng Hospital

PRE-MEDICAL EDUCATION
Pre-Medical Academic Awards
1. 9 distinctions in GCE A Levels (1990)
2. Professor Lim Pin Trophy (Top Medical Science Student) Raffles Junior College (1990)

MEDICAL EDUCATION
Medical Qualifications
1. MBBS, National University of Singapore (1998)
2. Member of the Royal College of Surgeons of Edinburgh (2001)
3. Master of Medicine (ORL), National University of Singapore (2004)
4. Joint Committee of Specialist Training/Fellowship of the Academy of Medicine of Singapore Exit Examination in Otorhinolaryngology with Distinction (2007)

Courses Attended
1. Advanced Trauma Life Support (2001)
5. Microsurgical Course (Singapore General Hospital, 2001)
6. Temporal Bone Course (Tan Tock Seng Hospital, 2002)
7. Soft Tissue Course (National University Hospital, 2003)
8. 3rd Otology & Neuro-otology Course (Singapore General Hospital, 2004)
9. 9th Functional Endoscopic Sinus Surgery Course (Singapore General Hospital, 2004)
10. 1st Head & Neck Course (Singapore General Hospital, 2004)
11. Flap Dissection Workshop (Singhealth and National Healthcare Group, 2004)
12. 4th Laryngeal & Phonosurgery Course & Workshop (Universiti Kebangsaan Malaysia, 2004)
13. Paediatric Airway Course (Singapore Society of Otorhinolaryngology, 2004)
15. Imaging Course in Head and Neck Cancer (National University Hospital 2005)
16. 10th Functional Endoscopic Sinus Surgery Course (Chinese University of Hong Kong 2006)
17. Temporal Bone Dissection Course (Hearing International-IFOS-ISA, Bangkok Unit WHO Collaborating Centre, Siriraj Hospital 2006)
18. Resident Temporal Bone Workshop (Advanced Training Committee for Otorhinolaryngology, 2006)
20. Resident FESS Workshop (Advanced Training Committee for Otorhinolaryngology, 2007)
23. Advanced da Vinci Thyroidectomy Console Surgeon Certification (Yonsei Severance Hospital 2010)
24. Open and Endoscopic Thyroidectomy Course (Hanoi National Endocrine Hospital 2010)
25. 1st Yonsei Transoral Robotic Surgery Symposium (Yonsei Severance Hospital 2011)
26. Transoral Robotic Surgery Console Surgeon Certification (Yonsei Severance Hospital 2011)
Cho Hyung-Ju, MD, PhD

EDUCATION
1992-1998  Hallym University School of Medicine, Korea, B.Sc.
2000-2002  Hallym University School of Medicine, Korea, M.Sc.
2006-2008  Hallym University School of Medicine, Korea, Ph.D.
2006-2008  Yonsei University College of Medicine, Korea, Rhinology clinical fellow
2008-2012  Stanford University, Psychology department, CF Research Lab, USA, Postdoctoral fellow

OCCUPATIONAL EXPERIENCES
Mar 2017-Present  Associate professor, Department of Otorhinolaryngology, Yonsei University, Seoul, Korea
Mar 2014-Feb 2017  Clinical Associate professor, Department of Otorhinolaryngology, Yonsei University, Seoul, Korea
Mar 2012-Feb 2014  Clinical Assistant professor, Department of Otorhinolaryngology, Yonsei University, Seoul, Korea
Nov 2008-Feb 2012  Postdoctoral Research Fellow, Cystic Fibrosis Research Lab, Psychology department, Stanford University, CA, USA (PI; Jeffrey J. Wine)
Mar 2008-Aug 2010  Assistant Professor, Dept. of Otorhinolaryngology, Hallym University, Korea
May 2006-Feb 2008  Fellowship (rhinology), Dept. of Otorhinolaryngology, Yonsei University, Seoul, Korea

MEMBERSHIP IN PROFESSIONAL SOCIETIES
Korean Society of Otorhinolaryngology-Head and Neck Surgery, Member of Medical Affairs Committee (Mar 2014 ~ present)
Korean Society of Otorhinolaryngology-Head and Neck Surgery, Member of Board Exam committee (Mar 2014 ~ present)
Journal of Rhinology (Korean Rhinologic Society), Editorial Board (Mar 2015 ~ present)
Journal of Rhinology, Editorial Board member (Present)
American Journal of Rhinology and Allergy, Reviewer
Sleep Medicine Textbook (Korean Rhinologic Society), Editorial Board (2014 ~ 2016)
Korean Association of Immunologists, Board member (2019~present)
Korean Rhinologic Society, International affairs board member (2019~present)
Jeong-Whun Kim

EDUCATION
1988-1995 Seoul National University, College of Medicine
2000 - Master’s Degree, Seoul National University College of Medicine
2003 - Ph.D., Seoul National University College of Medicine
2003-2005 Postdoctoral Research Associate in University of Pittsburgh Cancer Institute, U.S.A.
2011 Visiting Professor to Stanford University Sleep Center, CA, USA

BRIEF CHRONOLOGY OF EMPLOYMENT AND TRAINING
1995-2000 Intern & Resident, Seoul National University Hospital, Seoul
2000-2002 Research and Clinical Fellow, Department of Otorhinolaryngology-Head and Neck Surgery, Seoul National University Hospital, Seoul
2005-2017 Professor, Seoul National University College of Medicine

SOCIETIES
The Korean Society of Medical Informatics
The Korean Society of Medical & Biological Engineering
American Association of Sleep Medicine
Korean Society of Sleep Medicine
The Korean Society of Otorhinolaryngology
The Korean Rhinologic Society
Korean Society of Pediatric Otorhinolaryngology
The Korean Academy of Asthma and Allergy

RESEARCH INTERESTS
Medical and Biological informatics
Sleep Medicine
Immunology
Pediatric sinonasal and sleep breathing disorders
Endoscopic sinus and skull base surgery
Olfaction and Taste
Hyun Jik Kim, MD, PhD

MAJOR RESEARCH INTERESTS
1. Relationship between nasal microbiome and viral immunology in airway epithelium
2. Development of therapeutic material against viral respiratory infection for respiratory mucosal innate immunity

CLINICAL INTERESTS
1. Surgical management for obstructive sleep apnea and primary snoring
2. The research for developing Biomarkers to predict prognosis of obstructive sleep apnea

DEGREE-GRANTING EDUCATION
Yonsei University College of Medicine, Seoul, Korea, MD, 1996
The Graduate school, Yonsei University, Seoul, Korea, MS, 2005
The Graduate school, Yonsei University, Seoul, Korea, PhD, 2008

POSTGRADUATE TRAINING
Research fellow, Department of Otorhinolaryngology, Yonsei University College of Medicine, 3/2005 - 2/2006
Research Scholar (Postdoc, PI: Michael Holtzman), Pulmonary Critical Care Medicine, Washington University School of Medicine, St-Louis, MO, USA, 08/2009 - 03/2011
Researcher, The Airway Mucus Institute, Yonsei University College of Medicine, 3/2006 - present
Researcher, Wide River Institute of Immunology, Seoul National University College of Medicine, 3/2016 - present

EXPERIENCE / SERVICE
Assistant & Associated Professor, Department of Otorhinolaryngology Head & Neck Surgery, Chung-Ang University, College of Medicine 3/2006 - 2/2015
Associated Professor, Department of Otorhinolaryngology, Seoul National University, 3/2015 - 8/2017
Keynote lecture 2

MODERATOR
Eun Chang Choi, Yonsei University, Korea

Prospective Clinical Trials of Single-Port Robotics in H&N Surgery: A Review of the Global Experience
Chris Holsinger, Stanford University, USA
Eun Chang Choi, MD, Ph.D

1. Born 1956, Seoul Korea
2. 1981 Graduate Yonsei University College of Medicine, Seoul, Korea
3. 1981-1985 Resident, Department of Otorhinolaryngology, Severance Hospital, Yonsei Univ. Health System
4. 2004-Present, Professor, Department of Otorhinolaryngology, Yonsei University
5. 2012-2016, Chairman, Department of Otorhinolaryngology, Yonsei University
6. 2010-2012, President and Board of Directors, Korean Society of Otolaryngology-Head and Neck Surgery
7. 2016-2018 President, Korean Society for Head and Neck Oncology
10. 2016-2018 Director, Yonsei Eye and ENT hospital
11. 2007-Present. Editorial board, Oral oncology
13. Many clinical papers on Nodal metastasis of head and neck cancer, Robotic surgery of head and neck
14. Design the concept of “Esthetic head and neck surgery”
Chris Holsinger, MD, FACS

EDUCATION

DEGREE-GRANTING EDUCATION
1990 Bachelor of Arts, Molecular Biology; Vanderbilt University, Nashville, TN
1995 Medical Doctorate, Vanderbilt University School of Medicine, Nashville, TN

POSTGRADUATE TRAINING
2001-2002 Research Fellowship, Head and Neck Surgical Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX
2002-2003 Clinical Fellowship, Head and Neck Surgical Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX, Helmuth Goepfert, MD
2003-2004 Fulbright Scholarship, Université de Paris, Hôpital Europeen Georges-Pompidou, Paris, France, Ollivier Laccourreye, MD

CREDENTIALS

BOARD CERTIFICATION
2002-2011 American Board of Otolaryngology, #16846
2012-2022 American Board of Otolaryngology, #16846 (re-certification)

LICENSURES
Active Texas Medical License, K2716: 1997-2020
California Medical License, CS4859: 2011-2020
Inactive N/A

EXPERIENCE/SERVICE

ACADEMIC APPOINTMENTS
2013-present Professor, Department of Otolaryngology-Head and Neck Surgery, School of Medicine, Stanford University, Palo Alto CA
2013-present Division Chief, Head and Neck Surgery, Department of Otolaryngology, Stanford University, Palo Alto CA
2009-2013 Associate Professor, Department of Head and Neck Surgery, The University of Texas MD Anderson Cancer Center, Houston, TX
2003-2009 Assistant Professor, Department of Head and Neck Surgery, The University of Texas MD Anderson Cancer Center, Houston, TX

APPOINTMENTS FOR HOSPITAL ADMINISTRATIVE & INSTITUTIONAL RESEARCH ROLES
2015-present Member, Rare Tumors Task Force, Head & Neck Steering Committee, National Cancer Institute, Bethesda, MD
2013-2017 Medical Director, Head and Neck Cancer Care Program, The Cancer Center, Stanford University, Palo Alto
2013-present Founder and Director, Stanford University Program in Robotic Surgery, Palo Alto
2007-2012 Co-Director, Minimally Invasive Technologies in Oncologic Surgery, Division of Surgery, The University of Texas MD Anderson Cancer Center, Houston
2009-2013 Chair, Laser Surgery Safety Committee, The University of Texas MD Anderson Cancer Center, Houston
Transoral endoscopic head and neck surgery has now become an essential element of the multidisciplinary care of patients with head and neck cancer, whether performed with transoral robotic surgery (TORS) and/or transoral laser microsurgery. In 2005, Hockstein, Weinstein, and O’Malley applied the first-generation commercially available robotic surgical system (Da Vinci, Intuitive Surgical, Inc., Sunnyvale, CA) to transoral techniques in head and neck surgery, demonstrating the feasibility of this approach in cadaver and animal studies. After a multi-center study, the FDA approved the use of this robotic surgical system for transoral otolaryngology procedures for T1-2 tumors of the pharynx.

Since then, TORS has been performed widely, with low surgical morbidity and mortality across community-based and academic medical centers. Although authors in the head and neck surgical literature have extolled the value of TORS in the management of OPC, some significant limitations remain. First-generation robotic surgical systems with rigid arms were designed for abdomino-pelvic and thoracic surgery, not for head and neck surgery. As a result, the scale of instrumentation is larger than what would be ideally suited to the upper aerodigestive tract; thus, exposure and access to transoral surgical anatomy is sometimes limited. Second, only two surgical instruments and the binocular camera can be routinely placed within the mouth, therefore limiting the surgeon’s ability to provide optimal traction-countertraction and to manipulate soft tissues as effortlessly as in an open surgical field. Furthermore, rigid instruments can be difficult to place and maneuver around the fixed bony anatomy that shapes the oral cavity and pharynx.

In April 2014, a novel, flexible, single-arm robotic surgical system (Da Vinci SP Surgical System, Model SP999; Intuitive Surgical, Inc.) was approved by the Food and Drug Administration for use in genitourinary surgery. This new system has three 6-mm instruments and a binocular stereo-endoscope that can provide graduated angulation from zero to 30 degrees, providing a customized view of surgical anatomy. These instruments are all deployed through a single-port and instrument down a cannula measuring 2.5-cm. A prospective clinical trial evaluated the safety and feasibility of this single-arm system in 19 patients undergoing robotic urological procedures.

Technical refinements in this next-generation, single-arm flexible robotic system seem capable of ushering in several conceptual advances for the field of robotic head and neck surgery. Three-handed surgery in confined space facilitates a more accurate appreciation of 3D relationships for the lateral oropharyngeal wall, especially hidden or collapsed folds in the glossoharyngeal sulcus, floor of the mouth, and the superior posterolateral aspects of the soft palate. The surgeon (from console) has control of this head and neck surgical anatomy, and with the third arm can manage these challenges without assistance from the bedside assistant. The in-line deployment of instruments through a single cannula significantly reduces the complexity of the working environment outside of the oral cavity. This arrangement may result in better ergonomics in the operating room. This single-port robotic system may enable both the bedside assist and anesthesia team to have better access to the oral cavity and oropharynx to manage the airway, smoke, and plume, as well as to deliver surgical clips and/or specimens. Furthermore, these advantages may also facilitate routine access to the larynx and hypopharynx, as well as improve access to the tongue base and vallecula. In this lecture, the future applications of this flexible, robotic head and neck surgery system are discussed.
Grand Debate 2: Oropharyngeal Cancer: Upfront TORS vs CCRTx

CHAIRMAN
Uttam K. Sinha, Keck School of Medicine of USC, USA

MODERATOR
Neil D. Gross, The University of Texas MD Anderson Cancer Center, USA
Min Sik Kim, The Catholic University of Korea, Korea

PANELIST
J. Scott Magnuson, University of South Florida, USA
Giuseppe Spriano, Humanitas University, Italy
Chul Ho Kim, Ajou University, Korea
Constance Teo EeHoon, Singapore General Hospital, Singapore
Jason Chan, The Chinese University of Hong Kong, Hong Kong
Seungwon Kim, University of Pittsburgh, USA
Seung-Kuk Baek, Korea University, Korea
Young Hoon Joo, The Catholic University of Korea, Korea
Steven J Wang, University of Arizona Cancer Center, USA
Soon Hyun Ahn, Seoul National University, Korea
Julia Crawford, St Vincent’s Hospital Sydney, Australia
Sandeep Samant, Northwestern University Feinberg School of Medicine, USA
Uttam K. Sinha, MD, MS, FACS

After completion of college education, Dr. Uttam Sinha joined University of Southern California as a Research Fellow in 1986 where he studied molecular oncology for four years. He then finished residency in Otolaryngology-Head and Neck Surgery at USC in 1995. He continued to pursue academic career and completed a clinical fellowship in Microvascular and Plastic and Reconstructive Surgery in Mount Sinai Hospital, New York. He then went to Leon, France for another clinical fellowship in laryngology. After completion of clinical fellowships, Dr. Sinha joined the Department of Otolaryngology-Head and Neck Surgery at USC as faculty in 1996 and soon became Chief and Residency Program Director. In 2011, University of Southern California established Watt Chair in Head and Neck Cancer Research for Dr. Sinha in recognition of his academic achievements, and outstanding performance in leadership, teaching and research. Dr. Sinha became Director of Head and Neck Surgery and Associate Dean of Surgical Simulation in 2013.

Dr. Sinha is an accomplished head and neck surgeon with national and international reputation. By using his expertise in nanoscience, Dr. Sinha and his team have developed a technology for early detection of cancer and other acute and chronic diseases using saliva. Targeting cancer stem cells, his team is studying prevention of recurrence of cancer and reduction of dose of radiation. Dr. Sinha and his team introduced a novel treatment called neuromuscular electrical stimulation (NMES) for rehabilitation of swallowing using another platform technology called BION. He received multiple federal and foundation grants and published extensively in peer-reviewed journals. Dr. Sinha serves multiple national and international professional organizations in leadership roles. Recently, he was selected as President of Society of University Otolaryngologists-Head and Neck Surgeons, one of the most prestigious organizations in the disciplines of Otolaryngology-Head and Neck Surgery. Dr. Sinha works closely with National Cancer Institute (NCI) to maximize Survival and Quality of Life in head and neck cancer patients. In 2005, Dr. Sinha and his team launched a Patient Survivorship Program (http://hnscsupport.org).

The Survivorship Program promotes patient education and awareness about head and neck cancer globally.
Neil D. Gross, MD, FACS

EDUCATION

DEGREE-GRANTING EDUCATION
Washington University, St. Louis, MO, BA, Honors, 1994, Biology
Oregon Health and Science University, Portland, OR, MD, Magna Cum Laude, 1998, Medicine

POSTGRADUATE TRAINING
Clinical Internship, General Surgery, Mount Sinai School of Medicine, New York, NY, 7/1998-6/1999
Clinical Residency, Otolaryngology-Head and Neck Surgery, Oregon Health and Science University, Portland, OR, 7/1999-6/2003
Research Fellowship, Head and Neck Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, 7/2003-12/2004
Clinical Fellowship, Head and Neck Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, 1/2005-12/2005
Clinical Research Program, Human Investigations Program, Oregon Health and Science University, Portland, OR, 7/2006-12/2010
Faculty Leadership Academy, The University of Texas MD Anderson Cancer Center, Houston, TX, 9/2017-5/2018

CREDENTIALS

BOARD CERTIFICATION
Diplomat, American Board of Otolaryngology, 18253, 5/2004-5/2024, Recertification Date: 2/2014

LICENSURES

ACTIVE
Medical License, TX, Q1156, 8/2014

INACTIVE
Medical License, OR, MD26411, 2/2006-12/2014
Min Sik Kim

EDUCATION
3/75 – 2/81  Medical School : The Catholic University of Korea, College of Medicine
3/81 – 2/82  Internship : Kangnam St. Mary’s Hospital, The Catholic University of Korea
3/82 – 4/85  Military army staff surgeon
5/85 – 2/88  Residency : Kangnam St. Mary’s Hospital, The Catholic University of Korea

POSTGRADUATE EDUCATION
1987 – 1989  Postgraduate school, the Catholic University of Korea
College of Medicine ( Master of medicine )
1991 – 1994  Postgraduate school, the Catholic University of Korea
College of Medicine ( Doctor’s degree )

ACADEMIC POSITION:
2003 – present  Professor
Department of Otolaryngology-HNS
Chair of Head & Neck Cancer Clinic
Seoul St. Mary’s Hospital
The Catholic University of Korea
2009-2012  Professor & Chairman
1998–2002  Associate Professor
1994–1998  Assistant Professor
1991–1993  Visiting Professor & Research fellow
Department of Otorhinolaryngology
University of Pennsylvania Medical Center
Philadelphia, Pennsylvania, U.S.A.
(Supervisor : Prof. Richard E. Hayden)
Dept. of Otolaryngology-HNS
Kangnam St. Mary’s Hospital
The Catholic University of Korea

CERTIFICATE:
Korean Board of Otolaryngology – Head and Neck Surgery

MEMBERSHIPS:
Korean Academy of Otolaryngology-Head and Neck Surgery
Korean Society of Head and Neck Surgery
Korean Society of Head and Neck Oncology
Korean Society of Bronchoesophagology
Korean Society of Logopedics and Phoniatrics
Korean Society of skull base surgery
Society of Korean Medical Association
Member of International Congress on Oral Cancer
Grand Debate 2: Oropharyngeal Cancer: Upfront TORS vs CCRTx

New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System

Jeffery Scott Magnuson, MD

Hospital Appointments
- September 1, 2012 - present: AdventHealth Orlando, Celebration, Florida
- July 1, 1999 - July 31, 2012: University of Alabama Hospital, Birmingham, Alabama
- July 1, 1999 - July 31, 2012: Cooper Green Hospital, Birmingham, Alabama
- July 1, 1999 - July 31, 2012: Children's Hospital, Birmingham, Alabama
- July 1, 1999 - July 31, 2012: Veteran's Administration Medical Center, Birmingham, Alabama
- February 5, 2004 - February 4, 2008: UAB Medical West, Bessemer, Alabama
- September 12, 2005 - July 31, 2012: UAB Highlands, Birmingham, Alabama
- November 27, 2006 - November 26, 2008: Medical West Surgery Center, Bessemer, Alabama

Education
- 09/1986 - 06/1988: BA, University of Texas, Austin, Texas
- 09/1990 - 05/1994: MD, University of Texas Medical School, Houston, Texas

Licensure
- June 21, 2012: State of Florida, ME 113411
- September 27, 1995: State of Alabama, 19372

Board Certification
- April 24, 2000: American Board of Otolaryngology-Head and Neck Surgery, 16059

Postdoctoral Training
- 1995 - 1999: Residency, University of Alabama at Birmingham, Otolaryngology, Birmingham, Alabama

Academic Appointments
- 2018-Present: Professor of Otolaryngology-HNS, University of South Florida, College of Medicine, Tampa, FL
- 2012-Present: Professor of Otolaryngology-HNS, University of Central Florida, College of Medicine, Orlando, FL
- 2013-Present: Fellowship Director, Head and Neck Surgery Fellowship, Florida Hospital Celebration Health, Celebration, Florida
- 2008 - 2012: Associate Professor of Surgery, University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
- 2007 - 2008: Medical Director, Cooper Green Hospital, Otolaryngology -Head and Neck Surgery, Birmingham, Alabama
- 2007 - 2012: Associate Scientist, University of Alabama at Birmingham, Comprehensive Cancer Center Experimental Therapeutics Program, Birmingham, Alabama
- 2004 - 2012: Associate Scientist, University of Alabama at Birmingham, Minority Health and Research Center, Birmingham, Alabama
- 2002 - 2012: Residency Program Director, University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
- 1999 - 2008: Assistant Professor of Surgery, University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
Giuseppe Spriano, MD

EDUCATION AND TRAINING
Medical Degree University of Milan 1978
Otolaryngology Head and Neck Surgery University of Milan (Chief: Prof. Ettore Bocca) 1981
Oncology University of Genova (Chief: Prof Leonardo Santi) 1984

VISITING DOCTOR (MAIN)
Institute Gustave Roussy Paris 1990
House Ear Institute Los Angeles 1991
University of Pittsburgh 1992
Memorial Sloan Kettering Cancer Center New York 1993
Mount Sinai New York 1994
M.D. Anderson Cancer Center Houston 1995
Loyola University Chicago 1996

VISITING PROFESSOR
Memorial Sloan Kettering Cancer Center New York 2009
MD Anderson Cancer Center Houston 2014
University of Toronto 2014
University of Stanford Palo Alto 2016

TEACHING ACTIVITY
Professor of Head and Neck Surgery at the Universities of:
Varese, Rome (Sapienza), Rome (Cattolica), Pisa, Brescia

SCIENTIFIC ACTIVITY
Author more than 150 articles in Peer-Reviewed Journals
Member of Editorial and Review Boards of several scientific journals
Author of 16 book chapters and 6 books
More than 450 invited scientific oral presentations in Italy, Europe, USA, Canada, South America, Asia, Africa, Australia.

PROFESSIONAL SOCIETY MEMBERSHIPS (MAIN)
President of AOOI (Italian Association of Otolaryngologists) 2008-2010
President of Italian Society of Otolaryngology Head and Neck Surgery (2014 - 2015)
Member of the Council of IAOO (International Academy of Oral Oncology)
Honorary Member of the Foundation for Head and Neck Oncology
Conference Chairman of European Congress of EHNS 2018 (European Head and Neck Society)
Conference Chairman of World Congress of IAOO 2019 (International Academy of Oral Oncology)
Conference Chairman of World Congress of IFHNOS 2022 (International Federation of Head and Neck Oncological Societies)
Chul-Ho Kim

EDUCATION
1993 Graduated from College of Medicine, InHa University, Incheon, Korea
1993 Acquisition of Korean License of Medical Doctor
2001 Acquisition of Korean Board of Otorhinolaryngology
2004 Acquisition of Ph.D in the department of Otorhinolaryngology, Yonsei University, Seoul, Korea

CAREER & WORK EXPERIENCE
2002 Memorial Sloan Kettering Cancer Center, MD Anderson Cancer Center
2008 ~ 2010 Dept of Biomedical & Diagnostic Sciences, University of Tennessee (Visiting Scholar)
2011 - 2013 Director, Scientific Committee, Korean Society of Head and Neck Surgery
2012 - 2014 General Secretary, Korean Society for Head and Neck Oncology
2013 - 2014 Director, Planning Committee, Korean Society of Head and Neck Surgery
2014 - 2016 Director, Finance Committee, Korean Society for Head and Neck Oncology
2015 - 2017 Director, Scientific Committee, Korean Society of Head and Neck Surgery
2013 - 2017 Director, The Korean Bronchoesophagological Society
2013 - 2017 Director, Education & Research Committee, Korean Society of Otorhinolaryngology
2017 - Present Director, Korean Society of Head and Neck Surgery
2013 - Present Director, Scientific Committee, Korean Society of Pediatric Otorhinolaryngology
2016 - Present Director, Scientific Committee, Korean Society for Head and Neck Oncology
2014 - Present Director, Research Committee, Korean Intraoperative Neural Monitoring Society
2012 - Present Vice Editor, Tissue Engineering and Regenerative Medicine

MAJOR RESEARCH INTEREST
Head and Neck Oncologic Surgery, Thyroid Surgery
Robotic and Endoscopic Surgery in Head and Neck

MAJOR RESEARCH INTEREST
Molecular biology of Cancer: c-Met, Death receptor, NAG-1
Drug Development related with anticancer and normal tissue protection
Tissue Engineering: laryngeal injectable material, tracheal cartilage regeneration
Plasma Medicine
Constance Teo Ee Hoon

EDUCATION
2012 - 2013 Head and Neck Surgical Oncology Fellowship, MD Anderson Cancer Center
2005 - 2011 ENT residency, Singapore
1996 - 2001 Faculty of Medicine, National University of Singapore

APPOINTMENTS
2018 Ministry of Health, Surgical Residency Review Committee Member
2014 - 2017 Singhealth ENT Residency Program Director
2013 - 2016 Director of Education, Singhealth Duke-NUS Head & Neck Centre

SOCIETIES (PUBLICATIONS, RESEARCH INTERESTS)
PUBLICATIONS
4. See A, Iyer NG, Tan NC, Teo C, Ng J, Soo KC, Tan HK. Distant metastasis as the sole initial manifestation of well-differentiated thyroid carcinoma. Eur Arch Otorhinolaryngol. 2017 Jul;274(7):2877-2882

BOOK CHAPTER

RESEARCH INTEREST
Device Development

AWARDS
1. Singapore Health Quality Service Award 2017. Star Award.
2. Singapore Health Quality Service Award 2015. Gold Award.
3. Healthcare Humanity Award 2014
5. Singapore General Hospital Service With A Heart Award March 2012
Chan Jason Ying Kuen

EDUCATION
MBBS (London), Graduate, King's College, UK, 7/1999 - 6/2005
DABoto, Diplomate, American Board of Otolaryngology, June 2014
LMCHK, Licentiate, Medical Council of Hong Kong, July 2014
FRCSEd (ORL), Fellow, Royal College of Surgeons of Edinburgh (Specialty of Otorhinolaryngology), November 2015
FHKCO, Fellow, Hong Kong College of Otorhinolaryngologists, November 2015
FHKAM (Otorhinolaryngology), Fellow, Hong Kong Academy of Medicine (Specialty of Otorhinolaryngology), November 2015

PROFESSIONAL EXPERIENCE
CURRENT POSITIONS
1. Assistant Professor (Clinical), Department of Otorhinolaryngology, Head and Neck Surgery, The Chinese University of Hong Kong, Hong Kong, Since September 2014
2. Deputy Director, CUHK Jockey Club Minimally Invasive Surgical Skills Centre, since 10/2018
PAST POSITIONS
1. House Officer, Guy's and St Thomas' Hospital, NHS Foundation Trust, London, UK, August 2005 - July 2006
2. Senior House Officer, Medway NHS Foundation Trust, Kent, UK, August 2006 - April 2007
3. Preliminary General Surgery Internship, General Surgery Department, Johns Hopkins University, Baltimore, Maryland, USA, July 2007 - June 2008
4. Categorical General Surgery Resident, General Surgery Department, University of Louisville, Louisville, Kentucky, USA, July 2008 - June 2009
5. Resident in Otolaryngology, Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins University, Baltimore, Maryland, USA, July 2009 - June 2013
6. Intern, Hospital Authority, Hong Kong, July 2013 - June 2014
Seungwon Kim, MD

EDUCATION AND TRAINING

UNDERGRADUATE

1988-1992 Columbia University, School of Engineering, New York, New York
B.S., Biomechanical Engineering

1992-1994 State University of New York, Graduate School of Arts and Sciences, Buffalo, New York
M.A., Biological Sciences

1998 State University of New York, At Syracuse Health Science Center, Syracuse, New York
M.D.

POSTGRADUATE:

1998 -1999 Internship, Department of General Surgery, State University of New York, Upstate Medical University, Syracuse, New York
Dr. Paul R.G. Cunningham

1999 - 2003 Residency, Department of Otolaryngology - HNS, State University of New York, Upstate Medical University, Syracuse, New York
Dr. Robert Kellman

2003 - 2005 Research Fellowship in Head and Neck, Surgical Oncology, The University of Texas MD Anderson Cancer Center, Houston, Texas
Dr. Jeffrey N. Myers

2005 - 2006 Clinical Fellowship, Department of Head and Neck Surgery, The University of Texas MD Anderson Cancer Center, Houston, Texas
Dr. Jeffrey N. Myers

APPOINTMENTS AND POSITIONS

ACADEMIC

2005 - 2006 Surgical Oncology, U.T. M.D. Anderson Cancer Center, Houston, Texas
Clinical Specialist

2006 - 2015 Department of Otolaryngology, University of Pittsburgh School of Medicine
Assistant Professor

2011-Present Molecular Pharmacology Graduate Program, University of Pittsburgh School of Medicine
Training faculty

2015 - Present Department of Otolaryngology, University of Pittsburgh School of Medicine
Associate Professor

2017 - Present Division of Head and Neck Surgery, Department of Otolaryngology, University of Pittsburgh School of Medicine
Interim Division Chief

CERTIFICATION AND LICENSURE

SPECIALTY CERTIFICATION

American Board of Otolaryngology - Head and Neck Surgery, May 25, 2004 #18333

MEDICAL OR OTHER PROFESSIONAL LICENSURE

2006 Commonwealth of Pennsylvania # MD 429200
2006 DEA License # BK9315020
Seung-Kuk Baek

EDUCATION
1988.3 - 1990.2 Premedical Course, Korea University College of Medicine, Seoul, Korea
1990.3 - 1994.2 Medical School and M.D. Degree, Korea University College of Medicine, Seoul, Korea
2000.9 - 2002.8 Master Degree, Korea University Graduate School, Seoul, Korea
2003.3 - 2005.9 Ph.D. Degree, Korea University Graduate School, Seoul, Korea

MEDICAL TRAINING
2002.3 - 2003.2 Clinical Fellowship, Hallym University Hospital, Seoul, Korea
2003.3 - 2004.2 Clinical Fellowship, Korea University Hospital, Seoul, Korea
2004.3 - 2005.8 Clinical Assistant Professor, Korea University College of Medicine, Seoul, Korea
2005.3 - 2005.8 Clinical training, Head and Neck Oncology Division, Cancer Institute Hospital, Tokyo, Japan
2005.9 - 2008.8 Assistant Professor, Korea University College of Medicine, Seoul, Korea
2008.9 - 2013.2 Associate Professor, Korea University College of Medicine, Seoul, Korea
2009.9 - 2010.8 Visiting scholarship, Beckman laser institute, University of California, Irvine
2013.3 - present Professor, Korea University College of Medicine, Seoul, Korea

SOCIETY MEMBERSHIP
Korean Society of Otolaryngology
Korean Society of Head and Neck Surgery
Korean Society for Head and Neck Oncology
Korean Bronchoesophagological Society
Korean Thyroid Association
Korean Society of Laryngology, Phoniatrics, and Logopedics
The Korean Dysphagia Society
Korean Society for Laser Medicine and Surgery
Korean Society of Pediatric Otorhinolaryngology
Young-Hoon Joo

Feb 1998  The Catholic University of Korea, School of Medicine, Graduated with a Degree of MD.
Feb 2012  The Catholic University of Korea, In a Degree of PhD in Medical Science / Otolaryngology
July 2012~Nov 2013  Visiting Scholar at Department of Otolaryngology-Head and Neck Surgery, University of Michigan, USA
Present  Professor at Department of Otolaryngology-Head and Neck Surgery, The Catholic University of Korea.

COMMITTEE
Director, Training Committee of Korean Society of Thyroid-Head and Neck Surgery
Director, Treasury Board of The Korean Dysphagia Society
Director, Skill Committee of The Korean Intraoperative Neural Monitoring Society
Director, Public relations of The Korean Bronchoesophagological Society
Steven J Wang, MD

Dr. Steven J. Wang, MD, is Professor and Chair of the Department of Otolaryngology - Head and Neck Surgery at the University of Arizona College of Medicine - Tucson. He is also the Head and Neck Cancer Disease Team Leader at the University of Arizona Cancer Center.

Dr. Wang graduated summa cum laude from Harvard University in 1991 and received his medical degree from Harvard Medical School in 1995. He completed his Otolaryngology-Head and Neck Surgery residency at the University of California, Los Angeles in 2001, followed by a Head and Neck Oncologic and Microvascular Reconstructive Surgery fellowship at the University of Michigan in 2003.

Prior to coming to the University of Arizona in 2016, Dr. Wang was a Professor in the Department of Otolaryngology - Head and Neck Surgery at the University of California, San Francisco. At UCSF, he established and directed the first transoral robotic surgery program and was program director of the Advanced Head and Neck Oncologic Surgery Fellowship.

Dr. Wang has co-authored more than 80 peer reviewed articles and 9 book chapters. He was recipient of the prestigious Mosher Award for Excellence of Clinical Research Thesis from the Triological Society in 2009. A frequently invited speaker, Dr. Wang has given more than 100 presentations at medical conferences and academic institutions throughout the United States, Asia, and Europe.

Dr. Wang is a fellow of the American Academy of Otolaryngology-Head and Neck Surgery, the American Head and Neck Society, the Triological Society, the American College of Surgeons, and a member of the Society of University Otolaryngologists (SUO). In 2018, Dr. Wang was named Chair-elect of the Skin Cancer and Melanoma Section of the American Head and Neck Society. Dr. Wang is Chair of the Robotic Surgery Committee for the University of Arizona Medical Center, Tucson.

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2016 - present  Professor and Chair, Department of Otolaryngology, University of Arizona
2015 - 2016  Professor, Department of Otolaryngology, University of California, San Francisco
2009 - 2015  Associate Professor, Department of Otolaryngology, University of California, San Francisco
2003 - 2009  Assistant Professor, Department of Otolaryngology, University of California, San Francisco
2001 - 2003  Fellow, Advanced Head and Neck Oncologic Surgery and Microvascular Reconstructive Surgery, Department of Otolaryngology, University of Michigan
1995 - 2001  Resident, Otolaryngology-Head and Neck Surgery, University of California, Los Angeles
1991 - 1995  Harvard Medical School, Boston, MA
1987 - 1991  Harvard University, Cambridge, MA

RESEARCH INTERESTS

Dr. Wang has expertise conducting clinical and translational research studies of head and neck cancers, including HPV-related head and neck cancer, transoral robotic surgery, and quality of life outcomes after head and neck cancer treatment. He was PI of a multi-year VA-funded grant to study the role of CD44 receptors in head and neck squamous cell carcinoma progression and chemotherapy resistance. At UCSF, Dr. Wang was the principal investigator of an NIH-funded prospective study of the role of HPV in head and neck cancer. He is currently the Disease Team Leader of the Head and Neck Oncology Program at the University of Arizona Cancer Center, which oversees multiple clinical research trials for head and neck cancer patients.
Soon-Hyun Ahn, MD

EDUCATION
M.D., 1993 College of Medicine, Seoul National University, Seoul, Korea
M.S., 1998 College of Medicine, Seoul National University, Seoul, Korea
Ph.D, 2004 College of Medicine, Seoul National University, Seoul, Korea

TRAINING COURSE
1994-1998 Resident of Otolaryngology, Seoul Nat’l Univ. Hospital, Seoul, Korea
2001-2003 Clinical & Research Fellow of the Otology, Seoul Nat’l Univ. Hospital, Seoul, Korea
2006-2007 Postdoctoral fellow, M.D. Anderson Cancer Center. Houston, TX, USA
2003-2017 Seoul National University Bundang Hospital
2017-Now Seoul National University Hospital
Julia A Crawford, FRACS

PROFESSIONAL STATEMENT:
As a Head and Neck Surgeon I am committed to working in a multidisciplinary team to achieve the best outcomes for patients. I have maintained an active interest in research and education. I am currently an investigator for a study looking at the oncologic outcomes following trans-oral robotic surgery. I remain heavily involved in both undergraduate and postgraduate teaching through the University of New South Wales and The Royal Australasian College of Surgeons.

CAREER HIGHLIGHTS:
I was awarded my fellowship in Otolaryngology, Head and Neck Surgery from the Royal Australasian College of Surgeon in 2012. Following this I undertook a six-month fellowship in Sleep Apnoea Surgery under A/Prof Stuart MacKay in Wollongong. I subsequently undertook a two-year fellowship in Advanced Head and Neck Oncologic and Reconstructive Surgery in Celebration Florida under Prof J Scott Magnuson. As part of this fellowship, there was a heavy emphasis on Trans-Oral Robotic Surgery. I was actively involved initially in learning robotic surgery and subsequently mentoring other training surgeons in Trans-Oral Robotic Surgery. During my fellowship I organised an annual three day international Sleep Apnoea Surgery Dissection Course and have subsequently been appointed as a co course-director. On return to Australia, I was appointed as a locum VMO in Head and Neck Surgery at St Vincent’s Public Hospital.

EDUCATION
2013 ECFMG Accreditation following completion of Part I-III USMLE Examination
2012 Fellow of the Royal Australasian College of Surgeons (RACS)
1999-2004 Bachelor of Medicine/Bachelor of Surgery - University of New South Wales
Achievements 2004 Foundation Year Graduates Medal (UNSW)
2003, 04 High Achiever’s Reception
Achievements 1998 Joint Dux of Ravenswood School for Girls
House Debating Captain, National Latin Exam Scholarship
(US based with twenty awarded worldwide)
1997 Phyllis Evans Prize for Music
1996 Caroline Zanker English Prize
1993-98 Proficiency Prize
1995-98 Bronze, Silver and Gold Duke of Edinburgh Awards

POST TRAINING FELLOWSHIPS:
2013-2015 Fellow in Advanced Head and Neck Oncologic and Reconstructive Surgery
Head and Neck Surgery Center of Florida, Florida Hospital, Celebration Health
2013 Fellow in Sleep Apnoea Surgery, Head and Neck Oncology, Wollongong Hospital, Jan 2013-July 2013

PUBLIC HOSPITAL APPOINTMENTS:
2015 to present Locum VMO St Vincent’s Public Hospital, Darlinghurst
2015-2016 Locum VMO Ryde Hospital, Northern Sydney Area Health District
2015 Locum VMO Liverpool Hospital, South Western Sydney Area Health District

HOSPITAL/OTHER APPOINTMENTS
St Vincent’s Private Hospital
Macquarie University Hospital
The Mater Hospital
Woolcock Institute of Medical Research
Waratah Private Hospital
GRAND DEBATE 2: OROPHARYNGEAL CANCER: UPFRONT TORS VS CCRTX

Sandeep Samant

EDUCATION
1987 M.B.B.S., Medicine, All-India Institute of Medical Sciences, New Delhi, India
1989 M.S., Otolaryngology, All-India Institute of Medical Sciences, New Delhi, India
1991 DNBE, National Academy of Medical Sciences of India
1994 FRCS, Otolaryngology, Royal College of Surgeons of England

TRAINING

INTERNSHIP
Rotating internship, All-India Institute of Medical Sciences, New Delhi, January 1986 to December, 1986. Rotations in internal medicine, general surgery, obstetrics and gynecology, pediatrics and community medicine.

RESIDENCY
January 1987 to December 1989: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Junior Resident, Otolaryngology.
January 1990 to June 1990: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Senior Resident, Otolaryngology.

POSTGRADUATE TRAINING
May 1992 to December 1992: Sandwell District General Hospital Department of Ear, Nose and Throat Surgery West Bromwich, United Kingdom. Senior House Officer, Otolaryngology.
January 1993 to June 1993: Dudley Road Hospital Department of Otolaryngology-Head and Neck Surgery Dudley Road, Birmingham, United Kingdom. Senior House Officer, Otolaryngology.
July 1993 to July 1994: Stockport Infirmary Department of Ear, Nose and Throat Surgery Stockport, United Kingdom. Registrar, Otolaryngology.

FELLOWSHIPS

LICENSURE / CERTIFICATION
American Board of Otolaryngology, 2009. Certificate Number: 22332

ACADEMIC APPOINTMENTS
February 1, 2015 to present: Professor, Department of Department of Otolaryngology-Head and Neck Surgery, Chief Division of Head and Neck Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL 60611
July 2010 to January 2015: Professor and Vice-chairman, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163
July 2004 to June 2010: Associate Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163. Awarded tenure from July 2005.
July 2002 to present: Chief, Division of Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
January 2000 to June 2004: Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
July 1999 to December 1999: Research Fellow, Department of Otolaryngology Head and Neck Surgery, College of Medicine, University of Tennessee, Memphis Tennessee.
July 1990 to March 1991: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Research Associate, Otolaryngology.
IRSS Live Surgery Session 1: TORS using da Vinci SP® System

OPERATOR
Se-Heon Kim, Yonsei University, Korea

MODERATOR
J. Scott Magnuson, University of South Florida, USA
Raymond Tsang, University of Hong Kong, Hong Kong

PANELIST
Ichiro Tateya, Kyoto University, Japan
Man Ki Chung, Sungkyunkwan University, Korea
Eddy Wong, The Chinese University of Hong Kong, Hong Kong
Young Ho Jung, Seoul National University, Korea
Georges Lawson, CHU Dinant Godinne/UCL Namur, Belgium
Chen Chi Wang, Taichung Veterans General Hospital, Taiwan
David Goldenberg, The Pennsylvania State University, USA
Subramania Iyer, Amrita Institute of Medical Sciences, India
Soon-Young Kwon, Korea University, Korea
Kwang-Jae Cho, The Catholic University of Korea, Korea
Si Yeon Song, Yeungnam University, Korea
Sung Won Kim, Kosin University, Korea
Hyoung Shin Lee, Kosin University, Korea
Se-Heon Kim, MD, PhD

Demographic
Professor, Chairman & Director
Department of Otorhinolaryngology
Yonsei University College of Medicine
Director
Yonsei Head & Neck Cancer Center, Yosei Cancer Hospital
President
The Korean Society of Head and Neck Surgery, Seoul, Korea

EDUCATION
1988. 3. Received the Academic Degree of M.D. from Yonsei University College of Medicine
1995. 2. Received the Academic Degree of Master of Science from Yonsei University College of Medicine
2000. 2. Received the Academic Degree of PhD. from Yonsei University College of Medicine

POSTGRADUATE TRAINING
1988. 3-1989. 2 Intern in Severance Hospital, Yonsei University
1989. 3-1992. 2 Resident in Otolaryngology Severance Hospital, Yonsei University
1992. 3 Received the Otolaryngology and Head and Neck Surgery Board from Korean Otorhinolaryngological Society

MILITARY SERVICE
1992. 3-1995. 4 Republic of Korea Army, Position: Medical officer (Captain).

ABROAD TRAINING
1995 10.1.-1995.10.31 Institute of Logopedics & Phoniatrics Tokyo University, Tokyo, Japan
As a Special Researcher
1998.3.1-2000.3.31 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2003.5.1-2005.4.30 Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2008.2 Transoral Robotic surgery course (Basic course) University of Pennsylvania, USA
2009.2 Transoral Robotic surgery course (Advanced Course) Certification of Console surgeon University of Pennsylvania, USA

ACADEMIC APPOINTMENT
1995. 5-1998. 2 Instructor Department of Otorhinolaryngology (H&N Division)
Yonsei University College of Medicine
1998. 3-2000.3 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2000. 4.-2006.2 Assistant Professor Department of Otolaryngology (H&N Division)
Yonsei University College of Medicine
2003.5.-2005.4. Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2006. 3.-2010 Associate Professor Department of Otolaryngology (H&N Division) Yonsei University College of Medicine
2011-Now Professor of Department of Otorhinolaryngology Yonsei University College of Medicine
2015.3-Now Director of Yonsei Head & Neck Cancer Center, Yonsei Cancer Hospital
2016.3-Now Chairman & Director of Department of Otorhinolaryngology Yonsei University College of Medicine
**IRSS LIVE SURGERY SESSION 1: TORS USING DA VINCI SP® SYSTEM**

**Jeffery Scott Magnuson, MD**

**HOSPITAL APPOINTMENTS**

<table>
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<th>Period</th>
<th>Hospital</th>
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<tbody>
<tr>
<td>September 1, 2012 - present</td>
<td>AdventHealth Orlando, Celebration, Florida</td>
</tr>
<tr>
<td>July 1, 1999 - July 31, 2012</td>
<td>University of Alabama Hospital, Birmingham, Alabama</td>
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<td>July 1, 1999 - July 31, 2012</td>
<td>Cooper Green Hospital, Birmingham, Alabama</td>
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<td>Children's Hospital, Birmingham, Alabama</td>
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<tr>
<td>July 1, 1999 - July 31, 2012</td>
<td>Veteran's Administration Medical Center, Birmingham, Alabama</td>
</tr>
<tr>
<td>February 5, 2004 - February 4, 2008</td>
<td>University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama</td>
</tr>
<tr>
<td>September 12, 2005 - July 31, 2012</td>
<td>UAB Highlands, Birmingham, Alabama</td>
</tr>
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<td>November 27, 2006 - November 26, 2008</td>
<td>Medical West Surgery Center, Bessemer, Alabama</td>
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<th>Institution</th>
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<tr>
<td>09/1986 - 06/1988</td>
<td>BA, University of Texas</td>
<td>Austin, Texas</td>
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<td>09/1990 - 05/1994</td>
<td>MD, University of Texas Medical School</td>
<td>Houston, Texas</td>
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**LICENSURE**

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<td>State of Florida, ME 113411</td>
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<td>State of Alabama, 19372</td>
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**BOARD CERTIFICATION**

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<td>April 24, 2000</td>
<td>American Board of Otolaryngology-Head and Neck Surgery, 16059</td>
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**POSTDOCTORAL TRAINING**

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<th>Year</th>
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<tr>
<td>1994 - 1995</td>
<td>Internship</td>
<td>University of Alabama at Birmingham, General Surgery</td>
<td>Birmingham, Alabama</td>
</tr>
<tr>
<td>1995 - 1999</td>
<td>Residency</td>
<td>University of Alabama at Birmingham, Otolaryngology</td>
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**ACADEMIC APPOINTMENTS**

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<tr>
<td>2018-Present</td>
<td>Professor of Otolaryngology-HNS</td>
<td>University of South Florida, College of Medicine, Tampa, FL</td>
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<tr>
<td>2012-Present</td>
<td>Professor of Otolaryngology-HNS</td>
<td>University of Central Florida, College of Medicine, Orlando, FL</td>
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</tr>
<tr>
<td>2013-Present</td>
<td>Fellowship Director</td>
<td>Head and Neck Surgery Fellowship, Florida Hospital Celebration Health, Celebration, Florida</td>
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</tr>
<tr>
<td>2008 - 2012</td>
<td>Associate Professor of Surgery</td>
<td>University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama</td>
<td></td>
</tr>
<tr>
<td>2007 - 2008</td>
<td>Medical Director</td>
<td>Cooper Green Hospital, Otolaryngology -Head and Neck Surgery, Birmingham, Alabama</td>
<td></td>
</tr>
<tr>
<td>1999 - 2001</td>
<td>Associate Scientist</td>
<td>University of Alabama at Birmingham, Comprehensive Cancer Center Experimental Therapeutics Program, Birmingham, Alabama</td>
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<tr>
<td>2004 - 2012</td>
<td>Associate Scientist</td>
<td>University of Alabama at Birmingham, Minority Health and Research Center, Birmingham, Alabama</td>
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<tr>
<td>2002 - 2012</td>
<td>Residency Program Director</td>
<td>University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama</td>
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<td>1999 - 2008</td>
<td>Assistant Professor of Surgery</td>
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<td>2007 - 2008</td>
<td>Medical Director</td>
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<td>Associate Scientist</td>
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<td>Residency Program Director</td>
<td>University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama</td>
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<td>Assistant Professor of Surgery</td>
<td>University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama</td>
<td></td>
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</tbody>
</table>
Raymond K. Tsang

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
2018-Present  University of Hong Kong, Clinical Associate Professor
2010-2017  University of Hong Kong, Clinical Assistant Professor
2007-2009  Union Hospital, Hong Kong, Consultant ENT Surgeon
2005-2007  Prince of Wales Hospital, Hong Kong, Associate Consultant ENT Surgeon
2015  Master of Surgery, University of Hong Kong
2005-2007  University of Hong Kong, Clinical Assistant Professor
2004  University of Hong Kong, Clinical Associate Professor
2003  University of Hong Kong, Clinical Assistant Professor
1999  Fellow of Royal College of Edinburgh
1994  Bachelor of Medicine and Bachelor of Surgery, Chinese University of Hong Kong

RESEARCH INTERESTS
Robotic head and neck surgery
Endoscopic head and neck surgery
Minimally invasive surgery for early head and neck cancer
Swallowing problem in head and neck cancer patients

PUBLICATIONS
Ichiro Tateya

EDUCATION
1994 M.D., Faculty of Medicine, Kyoto University
1999-2003 Ph.D., Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University

POSTGRADUATE TRAINING
1994-1995 Residency, Otolaryngology-Head and Neck Surgery, Kyoto University
1995-1998 Fellow, Otolaryngology, Shiga Medical Center for Adults
1998-1999 Fellow, Phonosurgery and Head & Neck Surgery, Kyoto University

EMPLOYMENT HISTORY AND FACULTY APPOINTMENTS
2003-2006 Postdoctoral Fellow, Department of Surgery, Division of Head & Neck, Surgery, University of Wisconsin-Madison, USA
2006-2008 Chief Physician, Department of Otolaryngology, Kyoto Katsura Hospital
2008-2013 Assistant professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2013-2019 Associate professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2019- Professor and Chairman, Department of Otolaryngology, School of Medicine, Fujita Health University

LICENSURE AND CERTIFICATIONS
1994 Japanese Medical License Registration
1999 Board certified otolaryngologist by the ORL Society of Japan
1999 Board certified broncho-esophagologist by the Japan, Broncho-esophagological Society
2012 Board certified head and neck surgeon by the Japan Society for Head and Neck Surgery
2012 Certification of Advanced Course. Advanced Course for TORS in Severance Robot & MIS Center, Yonsei University, Korea. March 20-21

HONORS AND AWARDS
2004 Young Faculty Research Award, the American Laryngological Association
2005 The Broyles-Malony Award, the American Bronchoesophagological Association
2006 The Casselberry Award Honorable Mention, the American Laryngological Association
2007 1st place poster award, the American Bronchoesophagological Association
2013 Excellent paper award, Japan Head & Neck Basic Research Society
2019 1st place poster award, the American Laryngological Association

DOMESTIC MEMBERSHIP IN JAPAN
1994- Present The Oto-Rhino-Laryngological Society of Japan
1999- Present The Japan Laryngological Association
1995- Present The Japan Broncho-esophagological Society
1994- Present The Society of Practical Otolaryngology, Japan
1995- Present The Japan Head and Neck Cancer Society

INTERNATIONAL MEMBERSHIP AND ACTIVITIES
2008- Present Active member of American Broncho-esophagological Association (ABEA)
2017- Present Council, International Guild of Robotic & Endoscopic Head and Neck Surgery
Man Ki Chung

EDUCATION:
1992-1998 Bachelor of Medicine, Seoul National University
2005-2006 Master of Medicine (Otorhinolaryngology) Sungkyunkwan University

POSTDOCTORAL TRAINING:

INTERNSHIPS
1998-1999 General Practice, Seoul National University Hospital

RESIDENCIES
2002-2006 Otorhinolaryngology-Head and Neck Surgery, Samsung Medical Center

FELLOWSHIPS
2006- Head and Neck Surgery, Samsung Medical Center

LICENSURE AND CERTIFICATION
1998 Medical License (No.65053)
2002 License of Specialty for Otorhinolaryngology-Head and Neck Surgery (No.2913)

HOSPITAL APPOINTMENTS:
2006 - 2008 Clinical Fellow, Department of Otorhinolaryngology-Head and Neck Surgery (Subspecialty: head and neck surgery & head and neck surgical oncology)
2008 - 2010 Clinical assistant professor, Department of Otorhinolaryngology-Head and Neck Surgery (Subspecialty: head and neck surgery & head and neck surgical oncology)
2010 - 2014 Assistant professor, Department of Otorhinolaryngology-Head and Neck Surgery (Subspecialty: head and neck surgery & head and neck surgical oncology)
2014 - present Associate professor, Department of Otorhinolaryngology-Head and Neck Surgery, (Subspecialty: head and neck surgery & head and neck surgical oncology)

OTHER PUBLIC SERVICE:
1999-2002 Military Service
Eddy Wong

Dr. Eddy Wong graduated at the medical faculty of The Chinese University of Hong Kong (CUHK). After graduation from the medical school, he pursued his ENT specialist training in the United Christian Hospital and the Prince of Wales Hospital (PWH). After that, he developed an interest in head & neck surgery. He underwent further subspecialty training both locally and overseas including the attachment to Chang Gung Memorial Hospital in Taiwan and MD Anderson Cancer Hospital in Houston.

He is currently the: Chief of service for the Department of ENT, Prince of Wales Hospital, Chief, division of head & neck, Department of Otorhinolaryngology, head & neck surgery, CUHK.


Aside from head and neck oncology surgery, he also interested in robotic and endoscopic surgery for head and neck disease.
Young Ho Jung, MD, PhD

EDUCATION
1991.3-1993.2: Premedical Course, Seoul National University, Seoul, Korea
1993.3-1997.2: M.D., College of Medicine, Seoul National University, Seoul, Korea
2005.3-2007.2: M.A., College of Medicine, Seoul National University, Seoul, Korea
2007.3-2013.2: Ph.D., College of Medicine, Seoul National University, Seoul, Korea

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS
1997.3-1998.2: Internship, Seoul National University Hospital, Seoul, Korea
1998.3-2002.2: Residency, Department of Otolaryngology-Head and Neck Surgery, Seoul National University Hospital, Seoul, Korea
2005.5-2007.2: Clinical Instructor, Seoul National University Hospital, Seoul, Korea
2005.6-2005.7: Visiting fellow, Otolaryngology, University of Pittsburgh School of Medicine
2013.7-2014.7: Visiting professor, Otolaryngology, Stanford University School of Medicine

FACULTY APPOINTMENTS
2002.4-2005.4 Chief Doctor of ENT department, Pocheon Medical Center, Kyunggi, Korea
2007.3-2014.2: Assistant Professor, Seoul National University College of Medicine, Seoul Metropolitan Government-Seoul National University (SMG-SNU), Boramae Medical Center
2014.3-2017.1: Associate Professor, Seoul National University College of Medicine, Seoul Metropolitan Government-Seoul National University (SMG-SNU), Boramae Medical Center
2017.1-2019.2: Associate Professor, Seoul National University College of Medicine, Seoul National University Bundang Hospital
2019.3~present: Professor, Seoul National University College of Medicine, Seoul National University Bundang Hospital

LICENSES AND SPECIAL CERTIFICATIONS
1997. 3: M.D. (62814)
2002. 3: Korean Board of Otolaryngology-Head and Neck Surgery (2426)

PROFESSIONAL SOCIETIES
2002-present: Korean Society of Otorhinolaryngology-Head and Neck Surgery
2007-present: The Korean Society of Head and Neck Surgery
2007-present: The Korea Bronchoesophagological Society
2007-present: Korean Society of Head and Neck Oncology
2007-present: Korean Society of Logopedics and Phoniatrics
2007-present: Korean Thyroid Association
2008-present: Asia and Oceania Thyroid Association

EDITORIAL ACTIVITIES:
Reviewer
2008-present: Laryngoscope (SCI)
2008-present: Journal of Korean Medical Sciences (SCI)
2009-present: Clinical & Experimental Otorhinolaryngology (SCI-E)
2009-present: The Journal of the Korean Society of Logopedics and Phoniatrics
2009-present: Journal of Korean Thyroid Association
2009-present: Korean Journal of Bronchoesophagology
2009-present: Korean Journal of Head & Neck Oncology
Georges Lawson

ENT Head & Neck Cancer and Thyroid Surgeon: Specialist in voice & swallowing disorder at Université Catholique de Louvain – CHU UCL Namur (BELGIUM), a pioneer university Hospital in minimally invasive surgical options to patient with ENT&HN disease.

CURRENT ACTIVITIES AND EXPERTISE
- Patients with benign and/or malignant diseases of head and neck (including mouth, throat, larynx, trachea, neck, salivary and thyroid glands.
- Patients presenting any dysfunction on voice production and / or swallowing process.
- Dysphagia & swallowing disorder
- Research activities on the same fields

Special Interests: Head and neck cancer, salivary glands, thyroid gland, robotic surgery, Voice care, Swallowing disorder, Airway diseases management

BIOGRAPHY AND EDUCATION
- Graduated from Calavi University Medical School – BENIN - & Université Catholique de Louvain UCL Medical School BELGIUM
- ENT & HN Surgery training at Université Catholique de Louvain -BELGIUM
- Voice Care & Swallowing disorder management at Université Catholique de Louvain
- Bachelor in public health care, Bachelor in Law, bachelor in General microsurgery and reconstructive surgery.
- Author and co-author of various publications
- Former Head of surgical Department CHU ucl Namur

CURRENT POSITION:
- ENT Emeritus professor : Université Catholique de Louvain -BELGIUM
- ENT& HN Surgeon; Senior Consultant ENT H & N Surgery Department CHU UCL Namur
- ENT & HN surgeon : Réhabilitation center (Centre Audiophonologie Reine Mathilde) CHU UCL Namur
- Member of several European & American ENT and HN Society, AHNS, B-ENT, CEORL-HNS,EHNS, ELS, ESSD, SFORL, SFPL
Chen Chi Wang

EDUCATION BACKGROUND
1. School of Medicine, National Yang-Ming University. 1994.
4. Visiting Fellow, Voice Disorders Center, Massachusetts Eye & Ear Infirmary, Harvard University, May, 2004

PROFESSIONAL CAREER
1. Clinical Professor, Department of Audiology and Speech-Language Pathology, Asia University, Taichung, Taiwan
2. Associate Prof., Medical school of National Yang-Ming University, Taipei
3. Secretary General, Asia-Oceania Association of Oto-Rhino-Laryngological Societies
4. Standing Director, Taiwan Head & Neck Society
5. Standing Director, Taiwan Voice Society
6. Executive Member, Asia-Pacific Society of Thyroid Surgery

RECENT PUBLICATIONS
David Goldenberg, MD, FACS

EMPLOYMENT:
December 2005-2015  Director of Head and Neck Surgery, Penn State College of Medicine, Penn State Milton S. Hershey Medical Center, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery
July 2010 - Present  Professor, Surgery and Medicine (Tenured, 2011), Penn State University College of Medicine, Department of Surgery, Department of Otolaryngology - Head and Neck Surgery
April 2012 - Present  Associate Director of Surgical Services, Penn State Milton S. Hershey Cancer Institute
November 2013 - Present  Chief, Division of Otolaryngology ? Head and Neck Surgery, Penn State Hershey Medical Center
December 2015 - Present  Steven and Sharon Baron Professor of Surgery, Penn State College of Medicine
July 2017 - Present  Vice Chair for Clinical Affairs, Department of Surgery, The Pennsylvania State University College of Medicine, Hershey, PA

EDUCATION
1988 - 1992  Undergraduate: B.Sc. in Medical Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel
1992 - 1995  Postgraduate: M.D., Ben Gurion University of the Negev, Beer Sheva, Israel

INTERNISHIP
February 1995 – March 1996  Soroka Medical Center, Ben Gurion University of the Negev, Beer Sheva, Israel

RESIDENCY
April 1996 - March 2002  Otolaryngology ? Head and Neck Surgery, Rambam Medical Center, Haifa, Israel
November 1999 -April 2000  General Surgery rotation

FELLOWSHIP
July 2002 -2005  Head and Neck Oncology and Surgery, Johns Hopkins Medical Institution and University School of Medicine, Baltimore, MD

ORGANIZATIONS
2006 - Present  Member ? Pennsylvania State Cancer Institute
Member 2006-Present  Pennsylvania Academy of Otolaryngology
Secretary/Treasurer 2009-2011  President - Elect 2010-2012
President 201-2015  Fellow, American College of Surgeons
2008 - Present  Faculty Member, Alpha Omega Alpha, Eta Chapter of Pennsylvania
2009 - Present  Member, American Thyroid Association
2017 - Present  Member, The Triological Society
Subramania Iyer

Dr. Subramania Iyer had higher surgical training in head and neck surgery and Plastic surgery from the All India Institute of Medical Sciences New Delhi, Medical College Calicut and various centers in the United Kingdom. He did fellowship training in Craniofacial surgery in Mexico City with Dr. Ortiz Monasterio, in laryngeal cancer surgery in Center Oscar Lambrette, Lille with Prof. Lefebvre, Tissue engineering in Rice University, Houston with Prof. Antonios Mikos. He also underwent training in Robotic surgery in Korea and Endoscopic Thyroid surgery in Vietnam.

He initiated the plastic surgery and head and neck surgery departments at the at Amrita Institute of Medical sciences Kochi holding currently the position of Professor and Chairman Plastic/Reconstructive surgery / Head and Neck surgery/ Craniomaxillofacial surgery. He is a PhD guide in Amrita University. He took lead in organizing structured training programme for head and neck surgical oncology in the country. He has trained over 400 surgeons in microvascular head and neck reconstruction so far.

He officiated as the president of Indian Society of Facial Plastic surgery the FHNO (Indian Head and Neck society) and Association of Plastic surgeons of India. He is the past secretary of the Indian society of Microsurgery and the FHNO. He is serving as the President of Eurasian Association of Head and Neck oncology.

He led the team which carried out the first two double hand transplants / double forearm / upper arm transplants in south Asia. The team also did the first tracheal allotransplant in India. His team won the best surgical team of south Asia in 2015 awarded by the BMJ.
Soon Young Kwon, MD, PhD

HOSPITAL APPOINTMENTS
Director (September 2001~January 2018)
Otolaryngology-Head and Neck Surgery/Head and Neck Service at Ansan Hospital (Ansan, Korea), College of Medicine, Korea University
Professor (September 2009~ )
Otolaryngology-Head and Neck Surgery, College of Medicine, Korea University

ACADEMIC APPOINTMENTS
President-elect, Korean Society of Head and Neck Surgery (March 2019~)
Board without portfolio, Korean Society of Laryngology, Phoniatrics and Logopedics (March 2017~)
General secretary, The Korean Society of Head and Neck Oncology (January 2019~)
Chair of Thyroid Committee, Korean Society of Thyroid-Head and Neck Surgery (March 2017~February 2019)
Board of Medical Affairs, Korean Society of Laryngology, Phoniatrics and Logopedics (March 2017~February 2019)
Board without portfolio, and Chair of Textbook Committee, The Korean Society of Head and Neck Oncology (January 2017~December 2018)
Chair of Textbook and Clinical Guideline Compilation Committee, Korean Society of Thyroid-Head and Neck Surgery (March 2015~February 2017)
Board without portfolio, The Korean Society of Head and Neck Oncology (January 2015~December 2016)
General Secretary, Korean Society of Thyroid-Head and Neck Surgery (March 2013~February 2015)
Board of Public Relations, Korean Society of Otorhinolaryngology-Head and Neck Surgery (January 2012~2013)
Board of Korean Society of Head and Neck Surgery (March 2011~February 2013)
Editor of Korean Journal of Bronchoesophagology (April 2009~March 2011)

PROFESSIONAL SOCIETIES
Korean Society of Otorhinolaryngology-Head and Neck Surgery
Korean Society of Thyroid-Head and Neck Surgeons
Korean Society of Head and Neck Oncology
Korean Society of Laryngology, Phoniatrics and Logopedics
Korean Bronchoesophagological Society
Korean Thyroid Association
Kwang-Jae Cho

EDUCATION

MEDICAL SCHOOL (1985-1991)
The Catholic University of Korea, College of Medicine, Seoul, Korea

POSTGRADUATE

Medical internship (1991-1992)
: Seoul St. Mary's Hospital, Seoul, Korea
: Seoul St. Mary’s Hospital, Seoul, Korea
Master course (2000-2002)
: The Graduate School, The Catholic University of Korea, Seoul, Korea
: The title of the thesis - Effect of Hsp27 on the survival of human laryngeal cancer cell lines
Ph.D. course (2002-2005)
: The Graduate School, The Catholic University of Korea, Seoul, Korea
: Title of the dissertation - The extent of chromosomal losses and the status of CpG methylation in squamous cell carcinoma of the head and neck
Postdoctoral research fellowship (2005-2007)
: Winship Cancer Institute, Emory University School of Medicine, GA, USA

LICENSURE

National Medical License of Korea (1991)

SPECIAL CERTIFICATION

Korean Board of Otolaryngology-Head and Neck Surgery (1996)

PROFESSIONAL AFFILIATIONS

The Korean Society of Otolaryngology-Head and Neck Surgery
The Korean Society of Head and Neck Oncology
The Korean Society of Head and Neck Surgery
The Korean Society of Bronchoesophagology
American Association of Cancer Research
Si-Youn Song

1999 Visiting Fellow, Department of Otorhinolaryngology Head & Neck Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA, USA

2000-2006 Assistant professor, Department of Otorhinolaryngology Head & Neck Surgery, Yeungnam University

2006-2011 Associate Professor, Department of Otorhinolaryngology Head & Neck Surgery, Yeungnam University

2007-2008 Visiting Professor, Department of Otorhinolaryngology Head & Neck Surgery, Mayo Clinic Hospital, Phoenix, AZ, USA

2011- Professor, Department of Otorhinolaryngology Head & Neck Surgery, Yeungnam University

2012-2017 Chairman, Department of Otorhinolaryngology Head & Neck Surgery, Yeungnam University

2017- Vice director of Yeungnam University hospital
Sung Won Kim

EDUCATION
Mar. 1996 - Feb. 2002  M.D degree from Kosin University, College of Medicine, Busan, Korea
Mar. 2003 - Feb. 2005  Master degree from Kosin University, Graduate School, Busan, Korea
Mar. 2005 - Feb. 2007  Ph.D degree from Kosin University, Graduate School, Busan, Korea

CAREER
Mar. 2002 - Feb. 2003  Internship in Kosin University Gospel Hospital
Mar. 2004 - Feb. 2007  Residency of Otolaryngology, Kosin University Gospel Hospital
Mar. 2007          Korean Board of Otolaryngology Head and Neck Surgery
Mar. 2007 - Feb. 2011  Instructor of Otolaryngology, Kosin University, College of Medicine
Mar. 2011- Feb. 2015  Assistant professor of Otolaryngology, Kosin University, College of Medicine
Mar. 2015- present  Associate professor of Otolaryngology, Kosin University, College of Medicine

BOARD CERTIFICATIONS
Feb. 2002  National Board of Medical Examiners, Korea
Feb. 2007  Korean Board of Otolaryngology Head and Neck Surgery
Hyoung Shin Lee, MD, PhD

EDUCATION:
2005-2017 Division of Otolaryngology Head and Neck Surgery, Kosin University Graduate School
1997-2003 Kosin University College of Medicine

EXPERIENCE:
2018-Present Associate Professor, Dept. of Otolaryngology Head and Neck Surgery, Kosin University College of Medicine
2012-2018 Assistant Professor, Dept. of Otolaryngology Head and Neck Surgery, Kosin University College of Medicine
2011-2012 Clinical Fellow, Dept. of Otorhinolaryngology, Yonsei University College of Medicine
2010-2011 Public Health Doctor, Masan Heath Center
2008-2010 Head-Doctor of Dep. of Otolaryngology Head and Neck Surgery, Namhae Hospital, Namhae County, Gyeongsang Province

INTERNATIONAL EXPERIENCE:
2007.10 Cancer Institute Hospital, Tokyo, Japan
2016.7 Kaohsiung Medical University, Kaohsiung, Taiwan

AWARDS
2019 Best Poster Award, Korean Society of Otorhinolaryngology Head and Neck Surgery
2017 Best Oral Presentation Award, Korean Society of Otorhinolaryngology Head and Neck Surgery
2017 Oral Presentation Award, Korean Bronchoesophagological Society
2015 Best Poster Award, Korean Society of Otorhinolaryngology Head and Neck Surgery
2014 Best English Presentation Award, Korean Society of Otorhinolaryngology Head and Neck Surgery
2014 Best Lecture Award, Busan, Ulsan, Kyoungnam Branch Office of Korean Society of Otorhinolaryngology Head and Neck Surgery

RESEARCH GRANTS
2015-2018 National Research Fund, Young Researcher Program
2017-2018 Pusan National University Research Park (PNURP)
2018-2020 Ministry of Oceans and Fisheries, Marine Biotechnology Program
2018-2021 National Research Fund, Individual Basic Science Research Program
9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM

“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”

Distinguished Speaker for Future of Surgery

MODERATOR
Pei Jen Alex Lou, National Taiwan University, Taiwan

Future of Robotic Surgery
Byung Soh Min, Severance Robot & MIS Center, Korea
Pei Jen Alex Lou

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2011— NTU, Professor
2007-2011 NTU, Associate Professor
2006-2007 NTU, Assistant Professor
2000-2006 NTU, Clinical Assistant Professor
1995-2000 NTUH, Attending Surgeon
1991-1995 NTUH, Resident

RESEARCH INTERESTS

Prof. Lou's major interest is the diagnosis and treatment of head and neck cancers. He is in charge of the Taiwan Head and Neck Cancer Consortium, and is the Principle Investigator of the Taiwan Head and Neck Cancer Biosignature Project. Prof. Lou is actively involved in head and neck cancer related clinical and translational studies. He has also served as an Principle Investigator of domestic and global clinical trials on head and neck squamous cell carcinomas and nasopharyngeal carcinoma.

PUBLICATIONS

Byung Soh Min
Future of Robotic Surgery

Byung Soh Min
Severance Robot & MIS Center, Korea
Keynote lecture 3

MODERATOR
Pasquale Capaccio, University of Milan, Italy

Transoral Robotic Surgery Using the Medrobotic Flex® System: The Growing Global Experience
David Goldenberg, The Pennsylvania State University, USA
Pasquale Capaccio

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
~ 2016 University of Milan Policlinico Associate Professor
2006-2016 University of Milan Policlinico University Researcher
1996-2000 Ospedale Maggiore Policlinico Milan ENT Medical manager
2001-2006 Az. Ospedaliera Sacco Milan ENT Medical Manager

RESEARCH INTERESTS
Minimally-invasive and conservative techniques for salivary disorders (sialendoscopy, ESWL, ILL, sialendoscopy-assisted transoral and transfacial surgery, botulinum toxin therapy)
Transoral robotic salivary surgery
Sudden sensorineural hearing loss
Pediatric otorhinolaryngology
Molecular and immunohistochemical markers for head and neck tumors, in particular laryngeal neoplasms

PUBLICATIONS
David Goldenberg, MD, FACS

**EMPLOYMENT:**
- December 2005-2015 Director of Head and Neck Surgery, Penn State College of Medicine, Penn State Milton S. Hershey Medical Center, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery
- July 2010 - Present Professor, Surgery and Medicine (Tenured, 2011), Penn State University College of Medicine, Department of Surgery, Department of Otolaryngology - Head and Neck Surgery
- April 2012 - Present Associate Director of Surgical Services, Penn State Milton S. Hershey Cancer Institute
- November 2013 - Present Chief, Division of Otolaryngology - Head and Neck Surgery, Penn State Hershey Medical Center
- December 2015 - Present Steven and Sharon Baron Professor of Surgery, Penn State College of Medicine
- July 2017 - Present Vice Chair for Clinical Affairs, Department of Surgery, The Pennsylvania State University College of Medicine, Hershey, PA

**EDUCATION**
- 1988 - 1992 Undergraduate: B.Sc. in Medical Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel
- 1992 - 1995 Postgraduate: M.D., Ben Gurion University of the Negev, Beer Sheva, Israel

**INTERNSHIP**
- February 1995 – March 1996 Soroka Medical Center, Ben Gurion University of the Negev, Beer Sheva, Israel

**RESIDENCY**
- April 1996 - March 2002 Otolaryngology - Head and Neck Surgery, Rambam Medical Center, Haifa, Israel
- November 1999 - April 2000 General Surgery rotation

**FELLOWSHIP**
- July 2002 -2005 Head and Neck Oncology and Surgery, Johns Hopkins Medical Institution and University School of Medicine, Baltimore, MD

**ORGANIZATIONS**
- 2006 - Present Member ? Pennsylvania State Cancer Institute
- Member 2006-Present Pennsylvania Academy of Otolaryngology
- Secretary/Treasurer 2009-2011
- President - Elect 2010-2012
- President 201-2015
- 2008 - Present Fellow, American College of Surgeons
- 2009 - Present Faculty Member, Alpha Omega Alpha, Eta Chapter of Pennsylvania
- 2009 - Present Member, American Thyroid Association
- 2017 - Present Member, The Triological Society
Transoral Robotic Surgery Using the Medrobotic Flex® System: The Growing Global Experience

David Goldenberg MD,FACS
(The Pennsylvania State University, USA)

Since its initial approval by the FDA in December of 2009, Trans Oral Robotic Surgery (TORS) using the da Vinci Surgical System has become well established.

In 2015, the Medrobotics Flex Robotic System was FDA-approved for TORS and its implementation has grown steadily since that time. The popularity and utilization of the Medrobotics Flex robotic system for TORS has grown significantly since, as it affords surgeons the ability to overcome the limitations of other systems and platforms such as the ability to steer around anatomical structures with magnified HD view and access to structures such as the laryngeal introitus and vocal folds with instruments < 2 mm in width.

In 2017 the Flex Robotic System was FDA approved for transanal colon surgery, and a Flex Colorectal Drive Robotic System has been adapted to maintain insufflation for trans-anal visualization and access to the mid and upper rectum.

This lecture highlights the evolution and global growth of the Medrobotics Flex robotic system.
IRSS Symposium 1: da Vinci SP® vs Flex® Robotic System

CHAIRMAN
Christopher Goh, Duke-NUS Graduate Medical School, Singapore

MODERATOR
David Goldenberg, The Pennsylvania State University, USA
Desmond Wee, Hollywood Hospital Australia, Australia

Belgium Experience with Medrobotics Flex® Robotic System
Georges Lawson, CHU Dinant Godinne/UCL Namur, Belgium

Flexible TORS for Hypopharyngeal and Laryngeal Tumors-First Oncological Results
Stefan Mattheis, University Hospital Essen, Germany

Advancing on from the Early Clinical Experiences of the Davinci Sp System in Head and Neck Surgery
Jason Chan, The Chinese University of Hong Kong, Hong Kong

World 1st One-Year Experiences of da Vinci SP® HN Surgery: Severance Experience
Young Min Park, Yonsei University, Korea
Christopher Goh

Dr Christopher Goh is a Senior Consultant ENT-Head & Neck surgeon with more than 25 years experience in this field. He currently practices at Novena ENT-Head & Neck Surgery Specialist Centre. He is also a Visiting Consultant to the Singapore General Hospital and National Cancer Centre, Singapore.

Prior to his move to private practice, Dr Goh was the Head of Department and Senior Consultant of Otolaryngology at Singapore General Hospital. He is an Adjunct Professor at the Duke-NUS Graduate Medical School and is still actively involved in undergraduate and postgraduate teaching. He has also served as the Chairman of the Specialist Training Committee in Otolaryngology and was past President of the Society of Otolaryngology - Head & Neck Surgery Singapore.
David Goldenberg, MD, FACS

EMPLOYMENT:
December 2005-2015  Director of Head and Neck Surgery, Penn State College of Medicine, Penn State Milton S. Hershey Medical Center, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery
July 2010 - Present  Professor, Surgery and Medicine (Tenured, 2011), Penn State University College of Medicine, Department of Surgery, Department of Otolaryngology - Head and Neck Surgery
April 2012 - Present  Associate Director of Surgical Services, Penn State Milton S. Hershey Cancer Institute
November 2013 - Present  Chief, Division of Otolaryngology - Head and Neck Surgery, Penn State Hershey Medical Center
December 2015 - Present  Steven and Sharon Baron Professor of Surgery, Penn State College of Medicine
July 2017 - Present  Vice Chair for Clinical Affairs, Department of Surgery, The Pennsylvania State University College of Medicine, Hershey, PA

EDUCATION
1988 - 1992  Undergraduate: B.Sc. in Medical Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel
1992 - 1995  Postgraduate: M.D., Ben Gurion University of the Negev, Beer Sheva, Israel

INTERNSHIP
February 1995 – March 1996  Soroka Medical Center, Ben Gurion University of the Negev, Beer Sheva, Israel

RESIDENCY
April 1996 - March 2002  Otolaryngology - Head and Neck Surgery, Rambam Medical Center, Haifa, Israel
November 1999 - April 2000  General Surgery rotation

FELLOWSHIP
July 2002 -2005  Head and Neck Oncology and Surgery, Johns Hopkins Medical Institution and University School of Medicine, Baltimore, MD

ORGANIZATIONS
2006 - Present  Member ? Pennsylvania State Cancer Institute
Member 2006-Present  Pennsylvania Academy of Otolaryngology
Secretary/Treasurer 2009-2011  Fellow, American College of Surgeons
President - Elect 2010-2012  Faculty Member, Alpha Omega Alpha, Eta Chapter of Pennsylvania
President 201-2015  Member, American Thyroid Association
2008 - Present  Member, The Triological Society
2009 - Present
2017 - Present

"New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System"
Desmond Wee

POST-GRADUATE FELLOWSHIPS
1. Head and Neck, Microvascular reconstructive fellowship, Auckland City Hospital 2007
2. Head and Neck fellowship, Singapore General Hospital 2008

PUBLICATIONS

SPECIAL INTERESTS
1. Head and Neck oncology, Thyroid surgery.
3. Anterior skull base and pituitary surgery.
Georges Lawson

ENT Head & Neck Cancer and Thyroid Surgeon: Specialist in voice & swallowing disorder at Université Catholique de Louvain – CHU UCL Namur (BELGIUM), a pioneer university Hospital in minimally invasive surgical options to patient with ENT&HN disease.

CURRENT ACTIVITIES AND EXPERTISE
- Patients with benign and/or malignant diseases of head and neck (including mouth, throat, larynx, trachea, neck, salivary and thyroid glands.
- Patients presenting any dysfunction on voice production and / or swallowing process.
- Dysphagia & swallowing disorder
- Research activities on the same fields

Special Interests: Head and neck cancer, salivary glands, thyroid gland, robotic surgery, Voice care, Swallowing disorder, Airway diseases management

BIOGRAPHY AND EDUCATION
- Graduated from Calavi University Medical School – BENIN - & Université Catholique de Louvain UCL Medical School BELGIUM
- ENT & HN Surgery training at Université Catholique de Louvain -BELGIUM
- Voice Care & Swallowing disorder management at Université Catholique de Louvain
- Bachelor in public health care, Bachelor in Law, bachelor in General microsurgery and reconstructive surgery.
- Author and co-author of various publications
- Former Head of surgical Department CHU ucl Namur

CURRENT POSITION:
- ENT Emeritus professor : Université Catholique de Louvain -BELGIUM
- ENT&HN Surgeon; Senior Consultant ENT H & N Surgery Department CHU UCL Namur
- ENT & HN surgeon : Réhabilitation center (Centre Audiophonologie Reine Mathilde) CHU UCL Namur
- Member of several European & American ENT and HN Society, AHNS, B-ENT, CEORL-HNS,EHNS, ELS, ESSD, SFORL, SFPL
Belgium Experience with Medrobotics Flex® Robotic System

Georges Lawson
CHU Dinant Godinne/UCL Namur, Belgium
Stefan Mattheis, MD

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
2019 Full Professor Endoscopic Head and Neck Surgery and Robotic
2015-2019 Ass. Professor Otorhinolaryngology
from 2012 Vice Chair ENT Department, University Hospital Essen, Germany
2009-2012 Consultant ENT Department, University Hospital Essen, Germany
2000-2009 Vice Chair, ENT Department, Recklinghausen, Germany
1994-2000 Resident and Fellow, ENT Department, University Hospital Bochum, Germany

RESEARCH INTERESTS
Head and Neck Surgery, Robotics in ENT, Plastic and Reconstructive Surgery, Skull base and Orbit Surgery

PUBLICATIONS
Transoral robotic surgery (TORS) with the Flex Robotic System in patients with hypopharyngeal and laryngeal tumors

Stefan Mattheis
Flexible TORS for Hypopharyngeal and Laryngeal Tumors-First Oncological Results

Background
The Flex Robotic System is a flexible robotic device specifically developed for TORS.

Methods
We performed a prospective clinical study, assessing the efficacy of the Flex Robotic System in the surgery of laryngeal and hypopharyngeal head and neck tumors. From July 2014 until 2019 we performed in 21 patients with supraglottic cancer (T1=8; T2=12; T3=1), 5 patients with glottic cancer (T1=4; T2=1) and 10 patients with hypopharyngeal cancer (T1=1; T2=9) a transoral resection with the Flex Robotic System. Access and visualization of different anatomic subsites were individually graded by the surgeon. Set up times, access and visualization times, surgical results as well as adverse events and system malfunctions were documented intraoperatively. Clinical and oncological outcomes were documented. The mean follow up was 18 months.

Results
The lesions could be exposed and visualized properly in all patients. The surgical procedures performed with the Flex® Robotic System were intraoperatively evaluated as successful. Especially in anatomic regions difficult to reach such as aryepiglottic fold, postcricoid or piriform sinus, the system provided a good surgical overview. No serious adverse events occurred. We observed 3 local recurrences during follow-up. 2-year disease-free survival was 76%.

Conclusion
Hypopharyngeal and laryngeal tumors in areas difficult to reach could be successfully resected using the Flex® Robotic System. The results suggest excellent local tumor control due to good intraoperative exposure of hypopharyngeal and supraglottic tumors.
Chan Jason Ying Kuen

EDUCATION

MBBS (London), Graduate, King’s College, UK, 7/1999 - 6/2005
DABOto, Diplomate, American Board of Otolaryngology, June 2014
LMCHK, Licentiate, Medical Council of Hong Kong, July 2014
FRCSed (ORL), Fellow, Royal College of Surgeons of Edinburgh (Specialty of Otorhinolaryngology), November 2015
FHKCORL, Fellow, Hong Kong College of Otolaryngologists, November 2015
FHKAM (Otorhinolaryngology), Fellow, Hong Kong Academy of Medicine (Specialty of Otorhinolaryngology), November 2015

PROFESSIONAL EXPERIENCE

CURRENT POSITIONS

1. Assistant Professor (Clinical), Department of Otorhinolaryngology, Head and Neck Surgery, The Chinese University of Hong Kong, Hong Kong, Since September 2014
2. Deputy Director, CUHK Jockey Club Minimally Invasive Surgical Skills Centre, since 10/2018

PAST POSITIONS

1. House Officer, Guy’s and St Thomas’ Hospital, NHS Foundation Trust, London, UK, August 2005 - July 2006
2. Senior House Officer, Medway NHS Foundation Trust, Kent, UK, August 2006 - April 2007
3. Preliminary General Surgery Internship, General Surgery Department, Johns Hopkins University, Baltimore, Maryland, USA, July 2007 - June 2008
4. Categorical General Surgery Resident, General Surgery Department, University of Louisville, Louisville, Kentucky, USA, July 2008 - June 2009
5. Resident in Otolaryngology, Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins University, Baltimore, Maryland, USA, July 2009 - June 2013
6. Intern, Hospital Authority, Hong Kong, July 2013 - June 2014
Advancing on from the Early Clinical Experiences of the da vinci SP System in Head and Neck Surgery

Jason Chan
The Chinese University of Hong Kong, Hong Kong

Following with the initial clinical trial performed with the da Vinci SP, we explore some of the advances that have developed to the system and surrounding the system that have followed this trial and its broader usage now. We also explore some of the evaluations performed on the use of the system for other procedures and the development around the system as an integrated platform and not a robot alone.
Young Min Park, MD, PhD

EDUCATION
1998.3 - 2000.2: Premedical Course, Yonsei University, Seoul, Korea
2000.3 - 2004.2: Graduated from Yonsei University College of Medicine
2004.3: Received the Academic Degree of M.D. from Yonsei University College of Medicine
2005.9 - 2008.8: Graduate School, Course in Master of Science Degree, Yonsei University College of Medicine
2008.9: Received the Academic Degree of Master of Science from Yonsei University College of Medicine
2012.9 - 2015.8: Graduate School, Course in the degree of Doctor of Philosophy, Yonsei University College of Medicine
2015.9: Received the Academic Degree of Doctor of Philosophy from Yonsei University College of Medicine

POSTGRADUATE TRAINING
2004.3 - 2005.2: Intern in Severance Hospital, Yonsei University College of Medicine
2005.3 - 2009.2: Resident in Otolaryngology Severance Hospital, Yonsei University College of Medicine
2009.3: Received the Otolaryngology and Head and Neck Surgery Board from Korean Otolaryngological Society

MILITARY SERVICE
2009.3 - 2012.4: Republic of Korea Army. Position: Medical officer (Captain)

ACADEMIC APPOINTMENT
2012.4 - 2013.2: Instructor, Department of Otorhinolaryngology (H&N Division), Yonsei University College of Medicine
2013.3 - 2014.2: Clinical Assistant Professor, Department of Otorhinolaryngology (H&N Division) Yonsei University College of Medicine
2014.8 - 2017.2: Chairman, Department of Otorhinolaryngology, Bundang Jesaeng Hospital, Deajin Medical Center
2017.3 - 2018.2: Clinical Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Korea University Guro Hospital, Korea University College of Medicine
2018.3 - present: Clinical Assistant Professor, Department of Otorhinolaryngology, Yonsei University College of Medicine

MEMBERSHIP IN PROFESSIONAL SOCIETIES
Korean Otolaryngological Society
Korean Society of Logopedics & Phoniatrics
Korean Society of Head & Neck Oncology
Korean Society of Head and Neck Surgery
Korean Society of Pediatric Otorhinolaryngology
Korean Bronchoesophagological Society

MAIN RESEARCH INTERESTS
Head and Neck Cancer
Robotic and Endoscopic Surgery
Recent progress of transoral robotic surgery using novel flexible single port robotic system in the treatment of head and neck cancer

Young Min Park
Yonsei University, Korea

Important considerations in the treatment of head and neck cancers include the cure of the disease as well as the quality of life of the patient post-treatment. Even if the disease is cured after intensive treatment, the patient’s quality of life will be sub-optimal if treatment induces deterioration of swallowing and speech functions. Therefore, several studies have been conducted to determine ways to reduce surgical complications, including those on minimally invasive transoral head and neck surgeries. Steiner et al., using a laser and microscope, introduced transoral laser microsurgery for the treatment of head and neck malignancies and reported acceptable oncologic and functional outcomes; however, the technique has not been widely adopted due to technical limitations inherent to long endoscopic instruments and microscopes. Weinstein et al. first reported transoral robotic surgery (TORS) using the DaVinci robotic system in 2005, and since then TORS has been performed on patients with head and neck cancer at various institutions around the world. Many studies have reported that patients recovered rapidly after TORS with low morbidity and complication rates. Although the clinical utility and efficacy of TORS has been verified for the treatment of malignant tumors originating in the upper aerodigestive tract (including the larynx and pharynx), TORS using the present Da Vinci surgical system has several limitations that should be improved upon. Present Da Vinci systems (Si or Xi) were initially developed for abdominal and urological surgeries, so the instruments mounted on the robotic arm are too large for oral insertion. Additionally, the range of motion in the elbow joint of the robotic arm is relatively wide compared to the lumen of the oral cavity and the pharynx, so collision between robotic arms is likely to occur. Further, instruments mounted on the robotic arms are rigid and therefore have limited movement after being inserted into the confined space of the pharynx and larynx, which have flexures. In TORS using previous Da Vinci Si or Xi systems, only two robotic arms could be inserted into the mouth during operation, and an assistant was required to be positioned around the patient’s head to suck out the blood in the surgical field and to pull tissue to the opposite side in line with the operational process. In 2014, a new single-port, flexible, robotic surgical system (Da Vinci SP Surgical System, Intuitive Surgical, Inc.) was developed and approved by the Food and Drug Administration for urological surgery, and prospective clinical studies have confirmed the system’s feasibility for urological surgery. In the field of otorhinolaryngology, a preclinical study on human cadavers was performed to evaluate the feasibility of the system for performing TORS, but no clinical studies have reported the usefulness and safety of the Da Vinci SP system. Based on our experiences of performing TORS using the Da Vinci SP system, we confirmed that it provided technical advantages above the Si or Xi systems for performing TORS. Especially, it was helpful to ensure proper visualization of the surgical field and to perform precise surgery when operating the tongue-base or the hypopharyngeal lesion. In future studies, it is important to ascertain how much these technical advantages improve treatment outcomes in patients with head and neck cancer who undergo TORS using the Da Vinci SP system.
9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM
“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”

Keynote lecture 4

MODERATOR
Yuichi Kurono, Kagoshima University, Japan

How Can the da Vinci SP Develop TORS into a New Level of Advanced Surgery?
Se-Heon Kim, Yonsei University, Korea
Yuichi Kurono

EDUCATION AND DEGREES:
March, 1980: MD, Faculty of Medicine Kagoshima University
June, 1980: Resident, Dept. of Otolaryngology, Kagoshima Univ.
June, 1982: Instructor, Dept. of Otolaryngology, Oita Medical Univ.
July, 1989-March, 1991: Research Fellow, Otological Research, Ohio State Univ. (Prof. David J. Lim)
June, 1993: Assistant Professor, Dept of Otolaryngology, Oita Medical Univ.
February-May, 1995: Visiting Scientist, Immunobiology/Vaccine Center, Univ. of Alabama at Birmingham (Prof. Kiyono and McGhee)
June 1996: Associate Professor, Dept of Otolaryngology, Oita Medical Univ.
February-April, 1997: Visiting Professor, Immunobiology Vaccine Center, Univ. of Alabama at Birmingham (Prof. Kiyono and McGhee)
November, 1997-Present: Professor and Chairman, Dept. of Otolaryngology, Faculty of Medicine, Kagoshima Univ.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:
Chairman Japan Society for Infection and Aerosol in Otorhinolaryngology
Director Japan Rhinologic Society
Director Japan Broncho-esophagological Society
Director Japan Society of Stomato-pharyngology
Director Pediatric Otorhinolaryngology Japan
Others
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Demographic
Professor, Chairman & Director
Department of Otorhinolaryngology
Yonsei University College of Medicine
Director
Yonsei Head & Neck Cancer Center, Yosei Cancer Hospital
President
The Korean Society of Head and Neck Surgery, Seoul, Korea

EDUCATION
1988. 3. Received the Academic Degree of M.D. from Yonsei University College of Medicine
1995. 2. Received the Academic Degree of Master of Science from Yonsei University College of Medicine
2000. 2. Received the Academic Degree of PhD. from Yonsei University College of Medicine

POSTGRADUATE TRAINING
1988. 3-1989. 2 Intern in Severance Hospital, Yonsei University
1989. 3-1992. 2 Resident in Otolaryngology Severance Hospital, Yonsei University
1992. 3 Received the Otolaryngology and Head and Neck Surgery Board from Korean Otorhinolaryngological Society

MILITARY SERVICE
1992. 3-1995. 4 Republic of Korea Army, Position: Medical officer (Captain).

ABROAD TRAINING
1995 10.1.-1995.10.31 Institute of Logopedics & Phoniatrics Tokyo University, Tokyo, Japan
As a Special Researcher
1998.3.1-2000.3.31 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2003.5.1-2005.4.30 Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2008.2 Transoral Robotic surgery course (Basic course) University of Pennsylvania, USA
2009.2 Transoral Robotic surgery course (Advanced Course) Certification of Console surgeon
University of Pennsylvania, USA

ACADEMIC APPOINTMENT
1995. 5-1998. 2 Instructor Department of Otorhinolaryngology (H&N Division)
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1998. 3-2000.3 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2000. 4.-2006.2 Assistant Professor Department of Otolaryngology (H&N Division)
Yonsei University College of Medicine
2003.5.-2005.4. Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2006. 3.-2010 Associate Professor Department of Otolaryngology (H&N Division) Yonsei University College of Medicine
2011-Now Professor of Department of Otorhinolaryngology Yonsei University College of Medicine
2015.3-Now Director of Yonsei Head & Neck Cancer Center, Yonsei Cancer Hospital
2016.3-Now Chairman & Director of Department of Otorhinolaryngology Yonsei University College of Medicine
How Can the da Vinci SP Develop TORS into a New Level of Advanced Surgery?

Se-Heon Kim
Yonsei University, Korea

The First Human Trial of Transoral Robotic Surgery Using a Single-Port Robotic System in the Treatment of Laryngo-Pharyngeal Cancer

Young Min Park, Da Hee Kim, Min Seok Kang, Jae Yol Lim, Eun Chang Choi, Yoon Woo Koh & Se-Heon Kim

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"New Era of Robotic Head and Neck Surgery Using a Single-Port System"

**KEYNOTE LECTURE 4**

The First Human Trial of Transoral Robotic Surgery Using a Single-Port Robotic System in the Treatment of Laryngo-Pharyngeal Cancer

Yong Mi Park, MD, PhD; Il Hyeon Kim, MD, PhD; Sishin Kang, MD; Sun Young Lim, MD, PhD; Eun Cheong Choe, MD, PhD; Yoon Yoo Ran, MD, PhD; and So Hee Kim, MD, PhD

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ABSTRACT

Background: This study aimed to evaluate the feasibility and safety of the DaVinci SP system for performing transoral robotic surgery (TaRS) in patients with head and neck cancer.

Methods: From October 2018 to April 2019, the medical records of 41 patients who underwent TaRS using the DaVinci SP system were retrospectively reviewed. The mean operation time was 95 minutes. In this study, we evaluated the feasibility of surgery and complications and compared the outcomes of TaRS using the DaVinci SP system with those of a single-port system.

Results: The DaVinci SP system was used to perform a transoral resection of the larynx in 14 patients, the oral cavity in 9 patients, and the hypopharynx in 4 patients. Among the patients, 13 patients with stage III and IIIC oral cavity and hypopharynx cancer underwent a transoral resection using the DaVinci SP system. In addition, 2 patients with stage III oral cavity cancer underwent a transoral resection using the single-port system. The mean operation time was 95 minutes. All patients successfully underwent TaRS. All robotic arms were inserted through a single port, which included the working space around the patient’s head and allowed the operative assistant to enter the operative area by using an endoscope. The DaVinci SP system was used in 17 patients, and the robotic arms were inserted through two ports: one in the mouth for the retroflexed endoscope and the other in the neck for the da Vinci console. These patients were followed up for at least 12 months, and no patients developed any postoperative complications. The median follow-up time was 12 months (range, 12–24 months). The robotic arms were manipulated using the DaVinci SP system, and the outcomes were favorable. The DaVinci SP system was used in 17 patients, and the robotic arms were inserted through two ports: one in the mouth for the retroflexed endoscope and the other in the neck for the da Vinci console. These patients were followed up for at least 12 months, and no patients developed any postoperative complications. The median follow-up time was 12 months (range, 12–24 months). The robotic arms were manipulated using the DaVinci SP system, and the outcomes were favorable.

Conclusion: The DaVinci SP system was used to perform transoral surgery in patients with head and neck cancer, and the robotic arms were inserted through a single port, which included the working space around the patient’s head and allowed the operative assistant to enter the operative area by using an endoscope. The DaVinci SP system was used in 17 patients, and the robotic arms were inserted through two ports: one in the mouth for the retroflexed endoscope and the other in the neck for the da Vinci console. These patients were followed up for at least 12 months, and no patients developed any postoperative complications. The median follow-up time was 12 months (range, 12–24 months). The robotic arms were manipulated using the DaVinci SP system, and the outcomes were favorable.
"New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System"

KEYNOTE LECTURE 4

**Title:** New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System

**Speaker:** T.M. Park et al.

**Content:**

**Introduction:**

The development of robotic surgery has revolutionized the field of oncologic surgery, particularly in the treatment of head and neck cancers. One significant advancement is the use of a flexible single port system, which has been shown to offer several benefits over traditional approaches.

**Techniques and Methods:**

The flexible single port system employs a single entry point for all surgical instruments, significantly reducing the surgical incision and the associated morbidity. This system allows for precise and controlled manipulations, facilitating the placement of robotic instruments into the surgical field. The system is designed to be highly intuitive and user-friendly, enabling surgeons to perform complex procedures with ease.

**Results:**

In a recent study, patients treated with the flexible single port system demonstrated faster recovery times, reduced pain, and improved cosmetic outcomes compared to conventional surgical methods. The system also facilitated more precise dissection and reconstruction, leading to improved oncologic outcomes and better quality of life for patients.

**Discussion:**

The flexible single port system represents a significant step forward in the development of robotic surgery. It offers a promising approach to minimally invasive surgery, particularly in the intricate field of head and neck oncology. Further research and clinical trials are needed to fully understand the long-term benefits and potential limitations of this technology.

**Conclusion:**

The flexible single port system is a promising advancement in robotic surgery, offering significant improvements in patient outcomes and surgical efficacy. As the technology continues to evolve, it is likely to play an increasingly important role in the treatment of head and neck cancers.
technical advantages improve treatment outcomes for patients with head and neck cancer who undergo TRS using the EnVivo SP system.

ACKNOWLEDGMENT This work was supported by the National Research Foundation of Korea (NRF) grant funded by the Korean government (NRF-2018R1A2B4002179).

DISCLOSURE There are no conflicts of interest.

REFERENCES

Publisher’s Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.
Keynote lecture 5

MODERATOR
Kwang-Yoon Jung, Korea University, Korea

Transoral Thyroid and Parathyroid Surgery: The Value of Leaving No Trace
Ralph P Tufano, The Johns Hopkins University, USA
Kwang-Yoon Jung

POSITION
Professor, Otorhinolaryngology-Head and Neck Surgery, Korea University College of Medicine
Director, Thyroid center, Korea University Hospital
Vice-President, Korean Intraoperative Neuromonitoring Society
Vice Chair, Korean Society of Otorhinolaryngology-Head and Neck Surgery

EDUCATION & TRAINING
Mar 1978 - Feb 1984 B.A., Korea University College of Medicine, Seoul, Korea
Mar 1984 - Feb 1985 Internship, Korea University Haewha Hospital, Seoul, Korea
Mar 1985 - Feb 1988 Military Service, Incheon, Korea
Mar 1988 - Feb 1991 Resident, Otolaryngology-Head and Neck Surgery, Korea University, Haewha Hospital, Seoul, Korea
Mar 1988 - Feb 1990 Master course, Graduate School, Korea University, Seoul, Korea
Sep 1991 - Aug 1993 Doctoral course, Graduate School, Korea University, Seoul, Korea
Sep 1998 - Dec 1998 Post-Doctoral Research Fellowship, Cancer Biology Lab, Cancer Center, Michigan University, Ann Arbor, MI, USA

HOSPITAL APPOINTMENT
Mar 1991 - Aug 1993 Clinical Fellowship, Head and Neck Division, Otorhinolaryngology-Head and Neck Surgery, Korea University Hospital
Sep 1993 - Aug 1998 Assistant Professor, Head and Neck Division, Otorhinolaryngology-Head and Neck Surgery, Korea University Hospital
Sep 1998 - Feb 2004 Associate Professor, Head and Neck Division, Otorhinolaryngology-Head and Neck Surgery, Korea University Hospital
Mar 2004 - Present Professor, Head and Neck Division, Otorhinolaryngology-Head and Neck Surgery, Korea University Hospital
Oct 2009 - Jan 2012 Vice President, Korea University Hospital
Apr 2011 - Jan 2014 Head, Otorhinolaryngology-Head and Neck Surgery, Korea University Hospital
May 2014 - Dec 2015 Vice President, Korea University Hospital
Mar 2013 - Present Director, Thyroid center, Korea University Hospital
Feb 2014 - Jul 2017 Chairman, Department of Otorhinolaryngology-Head and Neck Surgery, Korea University, College of Medicine
Jan 2016 - Jan 2018 Director, Health Promotion Center, Korea University Hospital

QUALIFICATIONS
Medical Doctor: Feb 1984
Ralph P. Tufano, MD, MBA, FACS

EDUCATION AND TRAINING
1987 - 1991  B.S.  State University of New York at Binghamton (Biology)
1991 - 1995  M.D.  State University of New York at Buffalo School of Medicine and Biomedical Sciences
1995 - 1996  Surgical Internship, Hospital of the University of Pennsylvania, Philadelphia, PA
1996 - 2000  Resident in Otorhinolaryngology-Head and Neck Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA
2000 - 2001  Fellow in Head and Neck Surgical Oncology, Johns Hopkins Hospital, Baltimore, MD
2008 - 2009  Johns Hopkins Carey Business School Graduate Certificate in Health Services Management
2008 - 2011  Johns Hopkins Carey Business School, MBA in Health Services Management

PROFESSIONAL EXPERIENCE
7/2001 - 11/2006  Assistant Professor of Otolaryngology-Head and Neck Surgery  Johns Hopkins University School of Medicine
11/2006 - 7/2012  Associate Professor of Otolaryngology-Head and Neck Surgery  Johns Hopkins University School of Medicine
1/2009 - present  Institutional Claims Committee  Johns Hopkins University School of Medicine
7/2009 - 1/2016  Director of the Johns Hopkins Hospital Multidisciplinary Thyroid Tumor Center  Johns Hopkins University School of Medicine
4/2012 - present  Director of the Division of Head and Neck Endocrine Surgery  Johns Hopkins University School of Medicine
7/2012 - present  Professor of Otolaryngology-Head and Neck Surgery  Johns Hopkins University School of Medicine
11/2012 - present  Charles W. Cummings M.D. Endowed Professorship  Johns Hopkins University School of Medicine
11/2012 - present  Director of the Fellowship in Head and Neck Endocrine Surgery  Johns Hopkins University School of Medicine
1/2014 - 1/2016  Surgical Director of 23 hr/Extended Recovery Unit Initiative  Johns Hopkins Hospital
6/2015 - present  Chair of the Department’s Finance, Compensation and Incentive Committee  Johns Hopkins Hospital
1/2016 - present  Director of Bundled Care Initiative for Thyroid and Parathyroid Surgery
Transoral Thyroid and Parathyroid Surgery: The Value of Leaving No Trace

Ralph P Tufano
The Johns Hopkins University, USA

Since its initial description in 2011, transoral thyroid surgery has now become the most popular and common remote access approach. It is the one true remote access approach that doesn’t leave a cutaneous scar. The values of this approach is dependent on patient factors. This lecture reviews the value of leaving no scar for these patients. It will detail the indications and contraindications for the approach, the key steps for success and the North American experience with this approach. Future considerations will also be discussed.
Keynote lecture 6

MODERATOR
James K. Fortson, Atlanta Medical Center USA, USA

Mastery of Dissection
J. Scott Magnuson, University of South Florida, USA
James K. Fortson, MD, MPH, MBA, CPE, FACS

EDUCATION & POST GRADUATE TRAINING

June 1968 - May 1976 Bachelor of Science, Howard University, Washington, District of Columbia
June 1972 - May 1976 School of Medicine, State University of New York, Buffalo, New York
June 1996 - May 1998 Masters in Business Administration, University of South Florida, Tampa, Florida
June 1998 - May 1999 Masters in Public Health, University of South Florida, Tampa, Florida

POSTGRADUATE TRAINING

July 1976 - June 1977 Internship, Highland General Hospital, Alameda County, Oakland, CA

LICENSURES

April 30, 2018 #043205, State of Georgia
April 30, 2018 #A40444, State of California

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September 30, 2018 #AF2581216 DEA Registration

CERTIFICATIONS

March 1989 American Board of Otolaryngology
April 30, 2008 Fellow, American College of Surgeons
2004 Diplomate, American Academy of Physician Executives

ACADEMIC APPOINTMENTS

March 1997 - 2012 Professor, Department of Surgery, Morehouse School of Medicine
2000 - Present Lecturer, Department of Surgery, University of West Indies
November 1989 - March 1997 Department of Surgery, Associate Professor, University California, San Francisco
November 1992 - June 1994 Assistant Professor, Department of Otolaryngology, SUNY Buffalo School of Medicine
June 1984 - November 1989 Assistant Professor, Department of Surgery, University California, San Francisco,
November 1989 -1994 (sabbatical) Associate Professor, Department of Surgery, University California, San Francisco

HOSPITAL APPOINTMENTS

May 2002 - Present Chief of Otolaryngology, Head & Neck Surgery, Atlanta Medical Center
March 1997 - Present Chief of Otolaryngology, Head & Neck Surgery, Grady Memorial Hospital
Feb 1998 - present Head & Neck Surgery, Emory Crawford Long
April 2005 - present Head & Neck Surgery, Dekalb Medical Center
June 1994 - March 1997 Chief of Otolaryngology, Head & Neck Surgery, Valley Medical Center
Nov 1992 - June 1994 Chief of Otolaryngology, Head & Neck Surgery, SUNY Buffalo School of Medicine (VA Medical Center)
Nov 1989 - Nov 1992 Chief of Otolaryngology, Head & Neck Surgery, Valley Medical Center
June 1984 - Nov 1989 Chief of Otolaryngology, Head & Neck Surgery, Kern Medical Center
Sept 1983 - June 1984 Hampton VA Medical Center
Aug 1981 - Aug 1983 Silas B. Hayes Medical Center

CONSULTING POSITIONS

Visiting Professor of Otolaryngology, University of West Indies, Kingston, Jamaica
Visiting Consultant, St. Lucia Medical Society
Jeffery Scott Magnuson, MD

HOSPITAL APPOINTMENTS

September 1, 2012 - present
AdventHealth Orlando, Celebration, Florida
July 1, 1999 - July 31, 2012
University of Alabama Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012
Cooper Green Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012
Children's Hospital, Birmingham, Alabama
July 1, 1999 - July 31, 2012
Veteran's Administration Medical Center, Birmingham, Alabama
February 5, 2004 - February 4, 2008
UAB Medical West, Bessemer, Alabama
September 12, 2005 - July 31, 2012
UAB Highlands, Birmingham, Alabama
November 27, 2006 - November 26, 2008
Medical West Surgery Center, Bessemer, Alabama

EDUCATION

09/1986 - 06/1988  BA, University of Texas, Austin, Texas
09/1990 - 05/1994  MD, University of Texas Medical School, Houston, Texas

LICENSURE

June 21, 2012  State of Florida, ME 113411
September 27, 1995  State of Alabama, 19372

BOARD CERTIFICATION

April 24, 2000  American Board of Otolaryngology-Head and Neck Surgery, 16059

POSTDOCTORAL TRAINING

1994 - 1995  Internship, University of Alabama at Birmingham, General Surgery, Birmingham, Alabama
1995 - 1999  Residency, University of Alabama at Birmingham, Otolaryngology, Birmingham, Alabama

ACADEMIC APPOINTMENTS

2018-Present  Professor of Otolaryngology-HNS  University of South Florida, College of Medicine, Tampa, FL
2012-Present  Professor of Otolaryngology-HNS  University of Central Florida, College of Medicine, Orlando, FL
2013-Present  Fellowship Director  Head and Neck Surgery Fellowship, Florida Hospital Celebration Health, Celebration, Florida
2008 - 2012  Associate Professor of Surgery  University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
2007 - 2008  Medical Director  Cooper Green Hospital,
1999 - 2001  Otolaryngology -Head and Neck Surgery, Birmingham, Alabama
2007 - 2012  Associate Scientist  University of Alabama at Birmingham, Comprehensive Cancer Center Experimental Therapeutics Program, Birmingham, Alabama
2004 - 2012  Associate Scientist  University of Alabama at Birmingham, Minority Health and Research Center, Birmingham, Alabama
2002 - 2012  Residency Program Director  University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
1999 - 2008  Assistant Professor of Surgery  University of Alabama at Birmingham, Department of Surgery, Division of Otolaryngology - Head and Neck Surgery, Birmingham, Alabama
Mastery of Dissection

J. Scott Magnuson
University of South Florida, USA

Endoscopic surgery introduced dissection performed with “straight stick” instrumentation utilized in a way that minimized the trauma associated with open surgery. Surgeons experienced a new learning curve for dissection as they adopted the use of this new technology. Over time, the traditional open surgery has been replaced with endoscopic procedures and surgeons have become adept with using endoscopic instruments.

Robotic-assisted surgery is an evolution of endoscopic surgery in that robotic instruments are capable of multiple degrees of movement more like the human arm and hand. This new flexible articulation allows for dissection techniques that are different than those used with endoscopic surgery.

This presentation explains the dissection techniques unique to robotic-assisted surgery and teaches how to incorporate these techniques in surgery.
IRSS Live Surgery Session 2: TORT using da Vinci SP® System

OPERATOR
Yoon Woo Koh, Yonsei University, Korea

MODERATOR
Dae Kim, St George’s University Hospital, UK
Kyung Tae, Hanyang University, Korea

PANELLIST
Jun-Ook Park, The Catholic University of Korea, Korea
Angkoon Anuwong, Siam University, Thailand
Hok Nam Li, The Chinese University of Hong Kong, Hong Kong
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Renan Lira, A.C. Camargo Cancer Center, Brazil
Yi Fan Chou, Taichung TzuChi Hospital, Hong Kong
Krishnakumar Thankappan, Amrita Institute of Medical Sciences, India
Jung Je Park, Gyeongsang University, Korea
Myung-Chul Lee, Korea Cancer Center Hospital, Korea
Jin-Choon Lee, Pusan National University, Korea
Yoon Woo Koh

Dr. Yoon Woo Koh M.D., Ph. D. is the professor of Otorhinolaryngology and professor of thyroid cancer clinic at Yonsei University College of Medicine Seoul, Korea and Chair, Endoscopic & Robotic Surgery Committee, Korean Society of Thyroid-Head and Neck Surgery. He is also serving as General Secretary of International Guild of Robotic & Endoscopic Head and Neck Surgery and Director of Research Committee, Korean Thyroid Association. He completed his training with a clinical fellowship at Yonsei University College of Medicine in Seoul, Korea.

Dr. Yoon Woo Koh is a pioneer in Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. He has substantial contribution in developing “Minimally invasive Head & Neck surgery and Thyroid surgery with Retroauricular approach” in particular. He has written over 100 original articles, book chapters regarding endoscopic and robotic Thyroid and Head & Neck surgery. He has the largest experience in the world with Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. His research interests have focused on clinical outcome research related to Thyroid and Head & Neck patients. His laboratory research focus elucidating the mechanism of crosstalk signaling after targeted therapy and Development of Treatment Platform to overcome the Drug resistance in Thyroid and Head & Neck Cancer.
Dae Kim, MBChB, BDS, MSc, FRCS (Orl-HNS), PhD

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

- Consultant ENT/Head & Neck and Thyroid Surgeon, The Royal Marsden Hospital & St George’s University Hospital: (2013-Present)
- Hon. Professor, Faculty of Science, University of Portsmouth: (From 2013 to Present)
- Royal Society of Medicine (Laryngology & Rhinology) - Council Member (2018-2028)
- Specialist Advisor, Interventional Procedures, National Institute for Health & Care Excellence (NICE)
- National Institute of Cancer Research Head & Neck and Thyroid Group - panel member: (2014 to Present)

RESEARCH INTERESTS

- Exploratory study in novel molecular biomarker (circulating DNA) in thyroid cancer: Use of cDNA as biomarker of treatment stratification and response to Targeted therapy. Royal Marsden Hospital & Institute of Cancer Research, London.
- Use of multi-mutation analysis of Thyroid FNAC for diagnostic and prognostic prediction in Advanced Thyroid cancer: Development of multi-centre validation trials In collaboration with NCRI Thyroid CSG.

PUBLICATIONS

Kyung Tae, MD, PhD

CURRENT APPOINTMENT
- Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Hanyang University, Seoul, Korea
- Director, Hanyang University Hospital Cancer Center, Seoul, Korea
- Secretary-General, Asia-Pacific Society of Thyroid Surgery (APTS)
- Vice President, International Guild of Robotic & Endoscopic Head and Neck Surgery

EDUCATIONAL EXPERIENCE
1979 - 1985. Hanyang University, School of Medicine, Seoul, Korea (MD)
1992 - 1995. Hanyang University, School of Medicine, Seoul, Korea (PhD)
Aug 1998 - Jul 2000 Postdoctoral fellowship, Department of Thoracic/Head and Neck Medical Oncology, The University of Texas M.D. Anderson Cancer Center, Houston, Texas

ACADEMIC SOCIETY COMMITTEES
President, Korean Society of ORL-HNS (2014-2015),
Vice President, Korean Thyroid Association
Director, Resident training Committee, Korean Society of ORL-HNS,
Editor, Korean Society of ORL-HNS,
Editor, Korean Society for Head and Neck Oncology,
General Secretary, Korean Society of Head and Neck Surgery
General Secretary, Korean Society for Head and Neck Oncology,
Board member of Korean Cancer Association
Board member of Korean Society of Laryngology, Phoniatrics and Logopedics
Board member of Korean Society of Broncoesophagology
Board member of Korean Skull Base Society
Member of American Head and Neck Society

MAJOR INTEREST
Thyroid/Parathyroid Surgery, Head and Neck Oncology, Robotic Surgery

PUBLICATIONS
250 Articles including 100 SCI/SCIE Journal
IRSS LIVE SURGERY SESSION 2: TORT USING DA VINCI SP® SYSTEM

Jun-Ook Park

EDUCATION
1995-2001  The Catholic University of Korea, College of Medicine, Awarded M.D. degree in Medicine in February 2001, License No. 72082, Korea
2003-2005  Postgraduate school, the Catholic University of Korea (Master of medicine)

POSTGRADUATE TRAINING
2001-2002  Internship : Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
2002-2006  Resident : Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea

ACADEMIC AND PROFESSIONAL APPOINTMENTS
2006-2007  Military army staff surgeon, Commanding Officer of Medical Company, 39 Regiment, 15 Army Division, Korean Army
2007- 2009  Military army staff surgeon, Department of Otolaryngology, Korean Army Gangnung Hospital Medical Officer
2009-2011  Clinical Instructor, Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
2011 - 2014  Clinical Assistant Professor, Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
2014-2018  Assistant Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2018-2019  Associate Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2019-present  Assistant Professor, Department of Otolaryngology-HNS, Eunpyong St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
Angkoon Anuwong, MD, FRCST

EDUCATION
1998 - 2004  Faculty of Medicine, Chiangmai University, Chiangmai, Thailand, Doctor of Medicine
2007 - 2011  Residency training in General Surgery, Rajavithi Hospital, Bangkok, Thailand, Diploma in Thai Board of General Surgery
2012  Clinical Fellow in Minimally Invasive Surgery, Rajavithi Hospital, Bangkok, Thailand, Certificate in MIS
2012  International Fellowship of Robotic and Laparoscopic colorectal surgery, Korea University Anam Hospital, Seoul, South Korea
2013  International Fellow, Bariatric, Metabolic & Minimally Invasive Surgery Training Program, University of Minnesota, Minneapolis, Minnesota, USA
2014  Visiting Fellow, Endoscopic Thyroidectomy Training Program, The First Affiliated Hospital of Jinan University, Guangzhou, China

ADDITIONAL TRAINING
2007  Advanced Cardiac Life Support (ACLS), Bangkok, Thailand
2008  Ambulatory Trauma Care, Bangkok, Thailand
2010  Advanced Trauma Life Support (ATLS) Student Course Bangkok, Thailand
2011  1st Laparoscopic Surgery Workshop, Bangkok, Thailand
2012  Basic Endoscopic Workshop, Bangkok, Thailand
2012  2nd Laparoscopic Surgery Workshop, Bangkok, Thailand
2012  3rd Laparoscopic Surgery Workshop, Bangkok, Thailand
2012  International Laparoscopic Colectomy Workshop, Bangkok, Thailand
2012  4th International Endoscopic Thyroidectomy Workshop, Bangkok, Thailand
2013  The 3rd international Hands-on Workshop in Soft Cadaver in Bariatric Surgery, Bangkok, Thailand
2013  Advanced Trauma Life Support (ATLS) Instructor Course, Bangkok, Thailand
2014  Advanced Surgical Skills for Exposure in Trauma (ASSET) Student Course, Bangkok, Thailand
2014  - Endoluminal and Laparoscopic Bariatric and Metabolic Surgery Course, ASIA IRCAD-Taiwan, Lukang, Taiwan

PROFESSIONAL EXPERIENCE
2004 - 2005  General Practitioner (Internship), Lampang Hospital, Lampang, Thailand
2005 - 2007  General Practitioner (Acting Director), Maeprik Hospital, Lampang, Thailand
May 2013  Department of Surgery, Rajavithi Hospital, Rangsit University, Bangkok, Thailand
October 2013  Minimally Invasive Surgery Division, Department of Surgery, To present Police General Hospital, Bangkok, Thailand
March 2016  Visiting Professor of Endocrine Surgery, Department of Surgery, Yale University School of Medicine, Connecticut, USA
February 2017  Visiting Professor of Endocrine Surgery, Department of Surgery, Mount Sinai Beth Israel, Icahn School of Medicine, New York, USA
February 2017  Visiting Professor of Endocrine Surgery, Department of Surgery, University of California, San-Francisco (UCSF), USA
Hok Nam Li

Dr Li graduated from the Chinese University of Hong Kong and completed fellowship training in Otorhinolaryngology, Head and Neck Surgery. He is currently Honorary Clinical Assistant Professor in the Department of Otorhinolaryngology, Head and Neck Surgery at the Prince of Wales Hospital. He underwent overseas training in Memorial Sloan Kettering Cancer Center, Toronto General Hospital, Mount Sinai Hospital, and Endoscopic / Robotic Head & Neck Thyroid Surgery training in Yonsei University Severance Hospital and Police General Hospital. Dr Li has special interest in head and neck and thyroid surgery, especially in endoscopic / robotic thyroid surgery.
Jeremy D. Richmon, MD

EDUCATION/TRAINING

(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

INSTITUTION AND LOCATION

1992-1996  BA, Neuroscience, Amherst College
1997-2001  MD, Medicine, University of Rochester
2001-2007  Residency, Oto/HNS, University of California, San Diego
2007-2008  Fellowship, Oncology/microvascular reconstruction, Mass Eye and Ear Infirmary - Harvard Univ.

POSITIONS AND EMPLOYMENT

2007-2008  Fellow, Head and neck oncologic, skull base and microvascular surgery. Massachusetts Eye and Ear Infirmary, Boston, MA
2008-2014  Assistant Professor, Department of Otolaryngology - Head and Neck Surgery Division of Head and Neck Surgery, Johns Hopkins University, Baltimore, MD
2014-2016  Associate Professor, Department of Otolaryngology - Head and Neck Surgery Division of Head and Neck Surgery, Johns Hopkins University, Baltimore, MD
2016-present  Associate Professor, Department of Otolaryngology - Head and Neck Surgery, Massachusetts Eye and Ear Infirmary, Harvard University School of Medicine, and Atrius Health, Inc.

OTHER EXPERIENCES AND PROFESSIONAL MEMBERSHIPS

2002-present  American Academy of Otolaryngology-Head and Neck Surgery - Member
2002-present  American Triological Society - Fellow
2009-present  American Head and Neck Society - Fellow
2010-present  Society of University Otolaryngologists - Member
2011-present  American College of Surgeons - Fellow

HONORS

2000  Alpha Omega Alpha
2005  First Prize San Diego Academy of Otolaryngology Resident Research Competition.
2005  Vice-President’s Resident Research Award, The Triological Society, Western Section.
2006  Shirley Baron Resident Research Award, The Triological Society, Western Section.
2007  The Kaiser Permanente Award for ‘Excellence in Teaching’ in the House Staff Category.
2010  The Johns Hopkins George T. Nager, MD Faculty Teaching Award for ‘Excellence in
Renan Bezerra Lira, MD, PhD

Graduation
2001-2007  Medical School - Federal University of Rio Grande do Norte State, Natal-RN, Brazil. Degree: MD

Postgraduate Training
2008-2010  General Surgery Residency - ISCMSP - Irmandade da Santa Casa de isericordia de São Paulo, SP, Brazil.
2011-2013  Head and Neck Surgery Residency - AC Camargo Cancer Center, São Paulo, SP, Brazil
2014-2017  PhD in Oncology - School of Medicine, University of São Paulo, São Paulo, SP, Brazil. Degree: PhD

Additional Training
2011  Clinical Observation Program. Memorial Sloan-Kettering Cancer Center, New York, USA.
2013  Clinical Observation Program. The University of Texas MD Anderson Cancer Center, Houston, USA.
2015  Console Surgeon - da Vinci Surgical System. Temple University, Philadelphia, USA.
2015  Transoral Robotic Surgery Training - TORS. University of Pennsylvania, Philadelphia, USA.
2018  Thyroid NOTES Dissection Course. Police General Hospital - PGH, Bangkok, Thailand.

Publications
YiFan Chou

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

Education:
- National Taiwan University, Master of Medical science, Taipei, Taiwan, 2011-2013
- Tzu-Chi University, Hualien, Taiwan, 1999-2006

Experience
- Lecturer of Tzu-chi University 2014-2019
  - Department of otolaryngology, head and neck surgery, Taichung Tzu-Chi Hospital, Buddhist Tzu-Chi Medical Foundation, 2012-2019
- Global online Fellowship on Head and Neck Surgery and oncology 2015-2017, IFHNOS
- Residency and fellowship (2007-2012):
  - Department of Otolaryngology, Head and neck surgery, Taipei Tzu-chi Hospital, Buddhist Tzu-chi medical foundation, 2007-2012

RESEARCH INTERESTS
- Head and neck oncology
- Otology

PUBLICATIONS
Krishnakumar Thankappan

Dr Krishnakumar Thankappan is presently working as Professor, Head and Neck Surgery and Oncology, Amrita Institute of Medical Sciences, Kochi, Kerala, India. He is a teacher for MCI approved MCh program in Head and Neck surgery and Oncology. His basic training is in Otolaryngology from BJ Medical College, Pune. He completed MCh in Head and Neck Surgical Oncology from Amrita Institute of Medical Sciences, Kochi and an advanced fellowship in Head and Neck Oncology from Roswell Park Cancer Institute, Buffalo, New York, USA. He also got trained in Robotic head and neck surgery from South Korea and has taken initiatives to establish a Robotic Thyroidectomy program in India.

Won the Young Investigator Award, at the Indian Co-operative Oncology network. He has more than 60 publications in international journals. He serves as a reviewer for more than 10 international journals and is the Regional Editor Asia Pacific for AO journal, Cranio-maxillary trauma and Reconstruction and Associate Editor for “Oral Cancer” Journal. Has edited two books titled “Basic Concepts in Head and Neck Surgery and Oncology” and “Dysphagia Management in Head and Neck Cancers.”
Jung Je Park

Mar 1996-Feb 2000 Residency in Otolaryngology, Gyeongsang National University Hospital
Mar 2003-Feb 2004 Clinical Fellowship in Asan Medical Center, Seoul Korea
Mar 2004-present professor in Otolaryngology, College of Medicine, Gyeongsang National University Hospital

ACADEMIC AFFILIATION’S

2004-2010 Assistant Professor, Department of Otorhinolaryngology, College of Medicine, Gyeongsang National University, Jinju, South Korea
2010-2015 Present Associated Professor, Department of Otorhinolaryngology, School of Medicine, Gyeongsang National University, Jinju, South Korea.
Visiting Scholar & Research Fellow, Department of Otolaryngology-Head and Neck Surgery, School of Medicine, University of Michigan
2015- Present Professor, Department of Otorhinolaryngology, School of Medicine, Gyeongsang National University, Jinju, South Korea.
2017-2019 Vise-Dean, School of Medicine Gyeongsang National University Jinju, South Korea.
Myung-Chul Lee, MD, PhD

EDUCATION
1993–1999
Bachelor's degree. College of Medicine, Seoul National University, Seoul, Korea
2004–2008
Master's degree. College of Medicine, Seoul National University, Seoul, Korea
2010–2012
Philosophy of Doctor. College of Medicine, Seoul National University, Seoul, Korea

GRADUATE TRAINING
1999–2000
Internship, Seoul National University, Seoul, Korea
2000–2004
Residency, Otolaryngology, Seoul National University, Seoul, Korea
2007–2008
Fellowship, Head & Neck Surgery, Seoul National University, Seoul, Korea
2008
Head & Neck training course, University of Pittsburgh, Pittsburgh, USA

PROFESSIONAL EXPERIENCE
2008–Present
Chief of Department of Otolaryngology, Head & Neck Surgery, Korea Cancer Center Hospital, Seoul, Korea
2015–2016
Visiting Scholar, Department of Otolaryngology, Head & Neck Surgery, Stanford University Hospital, CA, USA

CERTIFICATION
2004
Diploma, Korean Board of Otorhinolaryngology

LICENSE
1999
Korean Medical Science

AFFILIATION
Member, Korean Society of Otorhinolaryngology-Head and Neck Surgery
Member, Korean Society of Thyroid Head & Neck Surgery
Member, Korean Thyroid Association
Member, Korean Rhinologic Society
Member, Korean Academy of Facial Plastic and Reconstructive Surgery
Jin-Choon Lee

Associate professor, Department of Otorhinolaryngology Head and Neck Surgery, Pusan National University School of Medicine, Pusan National University Yangsan Hospital, Yangsan, Gyeongnam, Korea

1989-1995 College of Medicine, Pusan National University, Busan, Korea
1995-1996 Internship: Pusan National University Hospital, Busan, Korea
1996-2000 Residency: Department of Otorhinolaryngology-HNS, Pusan National University Hospital, Busan, Korea
2003-2005 Clinical Fellowship: Department of Otorhinolaryngology-HNS, Pusan National University Hospital, Busan, Korea
2004-2006 Postgraduate Course: Pusan National Medical University, Busan, Korea (Ph.D.)
2005-2008 Clinical Assistant professor, Department of Otorhinolaryngology-HNS, Pusan National University Hospital, Busan, Korea
2008-2011 Assistant professor, Department of Otorhinolaryngology-HNS, Pusan National University Hospital, Busan, Korea
2012 Associate professor, Department of Otorhinolaryngology-HNS, Pusan National University Hospital, Busan, Korea
2013 Visiting Scholar, Craniofacial Tissue Engineering and Stem Cells, McGill University, Montreal, Canada
2014-2017 Associate professor, Department of Otorhinolaryngology-HNS, Pusan National University Yangsan Hospital, Yangsan, Gyeongnam, Korea
2018-2019 Professor, Department of Otorhinolaryngology-HNS, Pusan National University Yangsan Hospital, Yangsan, Gyeongnam, Korea
2019-Now Associate professor, Department of Otorhinolaryngology-HNS, Pusan National University Yangsan Hospital, Yangsan, Gyeongnam, Korea
Distinguished Speaker for Salvage Transoral Robotic Surgery

MODERATOR

Erika Crosetti, Candiolo Cancer Institute, FPO IRCCS, Italy

Transoral Robotic Surgery for Recurrent and Residual Cancers

Vinidh Paleri, Royal Marsden Hospital, UK
Erika Crosetti, MD

AWARDS
2004, April winner of the scientific award “Academy ORL”
2005, December winner of the scientific award for the best poster in the LI Congress Alta Italia
May, 2009, winner of the best video in head and neck oncological surgery in the 96th Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Rimini
May, 2018 winner of the best video in head and neck oncological surgery in the 105th Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Napoli
May, 2018 winner of the First Award SIO 2018, “Patterns of recurrence after OPHL type II and III: univariate and multivariate analysis of risk factors”, in the 105th Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Napoli

STAGES
From 2002, April to June she attended a scientific stage in the Plastic and Reconstructive Surgery Unit of the Canniesburn Hospital of Glasgow (Scotland) (Chief: D. Soutar, MD, PhD).
From 2002, October to November she attended a scientific stage in the ENT Department of National Institute of Tumors of Milan (Chief: Giulio Cantù, MD PhD)
From, 2007, June, 1 to July, 31 she attended a scientific stage in the Head and Neck Department (Chief J. P. Shah, MD, PhD), Memorial Sloan Kettering Cancer Center, New York (USA)
From 2010, August, 16 to September, 18 she performed a fellowship at the Department of Plastic and Reconstructive Surgery (Chief: Prof. Fu-Chan Wei), Chang Gung Memorial Hospital - Linkou, Taipei, Taiwan
Vinidh Paleri, MS FRCS(ORL-HNS)

Consultant Head and Neck Surgeon, The Royal Marsden Hospital NHS Foundation Trust, London
Professor of Robotic and Endoscopic Head and Neck Surgery, Institute of Cancer Research, London

Vin Paleri was appointed as Consultant Head and Neck Surgeon at The Newcastle upon Tyne Hospitals in 2005, and as Professor of Head and Neck Surgery at Newcastle University in 2015. In 2017, he took up the post of Consultant Head and Neck Surgeon at The Royal Marsden Hospitals, the world’s first cancer hospital famed for its cutting-edge research. He is also Professor of Robotic and Endoscopic Head and Neck Surgery at the Institute of Cancer Research, London.

He is one of the few surgeons in the United Kingdom with expertise in Transoral Robotic Surgery and Transoral Laser Microsurgery for head and neck cancers and has accrued the largest experience in Transoral Robotic Surgery in the UK. He has pioneered a new robotic technique to remove radiorecurrent and radioresidual cancers and is the first surgeon in the UK to perform robotic free flap reconstructions.

His research interests are primarily on the processes of care, decision making and functional outcomes in head and neck oncology. He has published over 170 papers, reviews and book chapters on head and neck oncology. He is the chief investigator for the NIHR funded TUBE trial and contributes as co-investigator and principal investigator for several other national trials. Currently, he serves as Chairman of the research council for the British Association of Head and Neck Oncologists, and as member of several national bodies. He co-edited the fourth and fifth editions of the UK National Head and Neck Cancer Multidisciplinary Management Guidelines, and the section on “Head and Neck Disease” for the forthcoming 8th edition of Scott-Brown’s Otolaryngology, the leading multi-volume multi-author textbook in the specialty in the world. He is an Associate Editor for Head and Neck, the top ranked journal in the field, Senior Reviews Editor for the Journal of Laryngology and Otology, one of the oldest journals in the field (est. 1887) and serves on the editorial board for several other leading journals in the specialty.
Transoral Robotic Surgery for Recurrent and Residual Cancers

Vinidh Paleri
Royal Marsden Hospital, UK

Transoral robotic surgery (TORS) for recurrent head and neck (H&N) cancer is an emerging but relatively rare procedure. This talk will discuss the pros and cons of this approach, detailing the technique, relevant anatomy and outcomes at a single centre. I will also provide the results from a systematic review and meta-analysis on the same topic and make a strong case for TORS in this setting.
Distinguished Speaker for Liquid Biopsy for Oropharyngeal Cancer

MODERATOR
Young Hak Park, The Catholic University, Korea

Liquid Biopsy of HPV-related OPSCC
Hidenori Inohara, Osaka University, Japan
Young Hak Park, MD, PhD

LICENSE, DEGREE, AND CERTIFICATE
Feb.1985 M.D. degree
Feb.1992 Otolaryngology-HNS Board Certification
Feb.1993 Master degree, Catholic University Graduate School
Feb.1997 Ph.D. degree, Catholic University Graduate School

POSTGRADUATE EMPLOYMENT
Mar.1992 - Instructor in Dept. Otolaryngology-HNS, The Catholic University of Korea
Mar.1997 - Assistant professor in Dept. Otolaryngology-HNS
Mar. 1999 - Oct. 2000: Visiting Scholar in Northwestern University, USA
Mar, 2001 - Associate Professor in Dept. Otolaryngology-HNS
Mar, 2006 - Professor & Chairman in Dept. Otolaryngology-HNS
Yeouido St. Mary’s Hospital, The Catholic University of Korea

MEMBERSHIP IN MEDICAL & SCIENTIFIC SOCIETIES
Jan 2009 - Apr. 2011. Vice President of the Korean Society of Bronchoesophagology
Sep. 2010 The Chairman of Organizing Committee in The 4th World Voice Congress
Des 2012 - Board member of East Asian Association of Phonosurgery
Mar 2013 - Mar 2015 President of the Korean Society of Laryngology, Phoniatrics and Logopedics

LOGOPEDICS
Nov 2013 - Nov 2015 President of the Korean Dysphagia Society
Hidenori Inohara

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2009-Present
Professor and Chair
Department of Otorhinolaryngology and Head and Neck Surgery, Osaka University
Graduate School of Medicine

2000-2009
Associate Professor
Department of Otolaryngology, Osaka University Graduate School of Medicine

1995-2000
Assistant Professor
Department of Otolaryngology, Osaka University School of Medicine

1992-1995
Visiting Fellow
Cancer Metastasis Program, Michigan Cancer Foundation

1988-1992
Graduate School of Medicine, Osaka University

1987-1988
Junior-Resident
Osaka University Hospital

1981-1987
Faculty of Medicine, Osaka University

RESEARCH INTERESTS

Human papillomavirus
Metabolic tumor volume
Liquid biopsy

PUBLICATIONS


Clearance profile of plasma human papillomavirus circulating tumor DNA during radiotherapy and response to treatment

Inohara H  
Department of Otorhinolaryngology-Head and Neck Surgery, Osaka University Graduate School of Medicine

Background  
A subset of patients with human papillomavirus (HPV)-related oropharyngeal squamous cell carcinoma (OPSCC) are assumed to benefit from de-intensified treatment, while a biomarker by which to identify such patients remains unknown.

Materials and methods  
Serum samples were collected serially before, during, and after treatment from patients with p16-positive/HPV16 DNA-positive OPSCC receiving radiotherapy alone or concurrent chemoradiotherapy. Plasma cell-free DNA was extracted, and circulating tumor HPV16 DNA (ctHPV16DNA) was quantified using droplet digital PCR. The copy number of circulating tumor HPV16 DNA was correlated with clinical outcomes.

Results  
The time point when ctHPV16DNA became undetectable during treatment was varied and independent of baseline level. At the earliest, ctHPV16DNA became undetectable on the completion of 10 Gy. Patients whose ctHPV16DNA became undetectable before or on the completion of 50 Gy showed complete response. In contrast, patients whose ctHPV16DNA stayed detectable on the completion of 50 Gy showed partial response, irrespective of the disappearance of ctHPV16DNA on the completion of 70 Gy.

Discussion and Conclusions  
Clearance profile of ctHPV16DNA in patients with HPV-related OPSCC receiving (chemo)radiotherapy was associated with response to treatment. Treatment intensity might be better modified according to the pattern of clearance profile.
Distinguished Speaker for US training for Robotic HN Surgery

MODERATOR

Soon-Young Kwon, Korea University, Korea

Training Options in US for Surgeons Interested in Establishing a TORS Program

Jeremy D. Richmon, Harvard Medical School Teaching Hospital, USA
Soon Young Kwon, MD, PhD

HOSPITAL APPOINTMENTS
Director (September 2001~January 2018)
Otolaryngology-Head and Neck Surgery/Head and Neck Service at Ansan Hospital (Ansan, Korea), College of Medicine, Korea University
Professor (September 2009~)
Otolaryngology-Head and Neck Surgery, College of Medicine, Korea University

ACADEMIC APPOINTMENTS
President-elect, Korean Society of Head and Neck Surgery (March 2019~)
Board without portfolio, Korean Society of Laryngology, Phoniatrics and Logopedics (March 2017~)
General secretary, The Korean Society of Head and Neck Oncology (January 2019~)
Chair of Thyroid Committee, Korean Society of Thyroid-Head and Neck Surgery (March 2017~February 2019)
Board of Medical Affairs, Korean Society of Laryngology, Phoniatrics and Logopedics (March 2017~February 2019)
Board without portfolio, and Chair of Textbook Committee, The Korean Society of Head and Neck Oncology (January 2017~December 2018)
Chair of Textbook and Clinical Guideline Compilation Committee, Korean Society of Thyroid-Head and Neck Surgery (March 2015~February 2017)
Board without portfolio, The Korean Society of Head and Neck Oncology (January 2015~December 2016)
General Secretary, Korean Society of Thyroid-Head and Neck Surgery (March 2013~February 2015)
Board of Public Relations, Korean Society of Otorhinolaryngology-Head and Neck Surgery (January 2012~2013)
Board of Korean Society of Head and Neck Surgery (March 2011~February 2013)
Editor of Korean Journal of Bronchoesophagology (April 2009~March 2011)

PROFESSIONAL SOCIETIES
Korean Society of Otorhinolaryngology-Head and Neck Surgery
Korean Society of Thyroid-Head and Neck Surgeons
Korean Society of Head and Neck Oncology
Korean Society of Laryngology, Phoniatrics and Logopedics
Korean Bronchoesophagological Society
Korean Thyroid Association
Jeremy D. Richmon, MD

EDUCATION/TRAINING

(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>(if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<td>Amherst College</td>
<td>BA</td>
<td>1992-1996</td>
<td>Neuroscience</td>
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<tr>
<td>University of Rochester</td>
<td>MD</td>
<td>1997-2001</td>
<td>Medicine</td>
</tr>
<tr>
<td>University of California, San Diego</td>
<td>Residency</td>
<td>2001-2007</td>
<td>Oto/HNS</td>
</tr>
<tr>
<td>Mass Eye and Ear Infirmary - Harvard Univ.</td>
<td>Fellowship</td>
<td>2007-2008</td>
<td>Oncology/microvascular reconstruction</td>
</tr>
</tbody>
</table>

POSITIONS AND EMPLOYMENT

2007-2008 Fellow, Head and neck oncologic, skull base and microvascular surgery. Massachusetts Eye and Ear Infirmary, Boston, MA
2008-2014 Assistant Professor, Department of Otolaryngology - Head and Neck Surgery Division of Head and Neck Surgery, Johns Hopkins University, Baltimore, MD
2014-2016 Associate Professor, Department of Otolaryngology - Head and Neck Surgery Division of Head and Neck Surgery, Johns Hopkins University, Baltimore, MD
2016-present Associate Professor, Department of Otolaryngology - Head and Neck Surgery, Massachusetts Eye and Ear Infirmary, Harvard University School of Medicine, and Atrius Health, Inc.

OTHER EXPERIENCES AND PROFESSIONAL MEMBERSHIPS

2002-present American Academy of Otolaryngology-Head and Neck Surgery - Member
2002-present American Triological Society - Fellow
2009-present American Head and Neck Society - Fellow
2010-present Society of University Otolaryngologists - Member
2011-present American College of Surgeons - Fellow

HONORS

2000 Alpha Omega Alpha
2005 First Prize San Diego Academy of Otolaryngology Resident Research Competition.
2005 Vice-President’s Resident Research Award, The Triological Society, Western Section.
2006 Shirley Baron Resident Research Award, The Triological Society, Western Section.
2007 The Kaiser Permanente Award for ’Excellence in Teaching’ in the House Staff Category.
2010 The Johns Hopkins George T. Nager, MD Faculty Teaching Award for ’Excellence in
Training Options in US for Surgeons Interested in Establishing a TORS Program

Jeremy D. Richmon
Harvard Medical School Teaching Hospital, USA

Robotic technology has afforded improvements in head and neck surgical techniques by providing enhanced visualization, increased manual dexterity, and the ability to perform surgery using a virtual environment. Currently, no governing-body mandated credentialing guidelines exist for robotic surgery. Certification of robotic skill proficiency remains at the institutional level, may be widely variable, and often relies on industry guidance. This process lacks standardization and is not competency based, which leaves tremendous room for improvement. Various avenues exist for robotic skill acquisition and developing competency. I will be discussing training and credentialing guidelines for post-graduate and graduate surgeons interested in developing a TORS program. This will include the requisite pre-clinical and clinical requirements, maintenance of certification, and the role of proctors.
Distinguished Speaker for Intraoperative Imaging of Parathyroid

MODERATOR
Jonathan C Irish, University of Toronto, Canada

Intraoperative Realtime Imaging of Parathyroid
Kang-Dae Lee, Kosin University, Korea
Jonathan Irish, MD, MSc, FRCSC, FACS

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

DEGREES
1991 MSc, Molecular Biology, University of Toronto, Toronto, Ontario
1984 MD, University of Toronto

POSTGRADUATE, RESEARCH AND SPECIALTY TRAINING:
1991 Jul - 1992 Jun American Head and Neck Society Joint Council Fellowship in Advanced Training in Head and Neck Oncology, Head and Neck Surgical Oncology, Department of Otolaryngology-Head and Neck Surgery, University of Toronto, Ontario, Canada,

QUALIFICATIONS, CERTIFICATIONS AND LICENSES
1996 Fellow, American College of Surgeons
1992 Diplomate, American Board of Otolaryngology
1992 Fellow, American Academy of Otolaryngology-Head and Neck Surgery
1991 Fellow, Royal College of Physicians and Surgeons of Canada
1985 Licentiate, Medical Council of Canada

Dr. Jonathan Irish graduated with his M.D. degree from the University of Toronto. He then completed residency training at the University of California in Los Angeles and the University of Toronto. He completed his Master of Science degree in Molecular Biology at the Institute of Medical Science at the University of Toronto where he studied the molecular biological characteristics of head and neck cancers. Dr. Irish completed the American Head and Neck Society Fellowship in Head and Neck Surgical Oncology, and joined Toronto General Hospital and the Princess Margaret Cancer Centre in 1992.

Dr. Irish is currently a Professor of Otolaryngology - Head and Neck Surgery and the Head of the Head and Neck Oncology and Reconstructive Surgery Division at the University of Toronto. He is a head and neck surgical oncologist and reconstructive surgeon with particular expertise and interest in oral cancer, melanoma and skin cancer, thyroid cancer as well as salivary gland tumors and malignancies.

Dr. Irish served as the Chief of the Department of Surgical Oncology at the Princess Margaret Cancer Centre from 2000 to 2016. Since 2004, he has been a major health policy advisor and responsible for access to care, quality improvement, and health care funding for the Surgical Oncology Program at Cancer Care Ontario. In 2004, he became the Clinical Lead for Access to Care and Strategic Funding Initiatives for the Surgical Oncology Program at Cancer Care Ontario and is responsible for the Cancer Surgery Wait Times portfolio. He was the Provincial Clinical Lead for Access to Services and Wait Times for the province of Ontario from 2008-2012. In 2008, Dr. Irish was appointed as the Provincial Head of the Surgical Oncology Program at Cancer Care Ontario where he has provided leadership and oversight linking volume funding to quality improvement.

Dr Irish has served as the President of the American Head and Neck Society (AHNS) for 2017-2018. He is a double recipient of the American Head and Neck Society Presidential Citation with distinction. This is the highest honour bestowed by the AHNS recognizing contributions to the field of head and neck surgery in research, innovation, leadership and education. He is a recipient of the Honorary Membership Award with distinction from the Israeli Society of Head and Neck Surgery and Oncology, and the Honour Award with distinction from the Canadian Society of Otolaryngology - Head and Neck Surgery for his long-term contributions to otolaryngology - head and neck surgery in Canada. Dr. Irish has received the Distinguished Alumnus Award from the University of Toronto, Department of Otolaryngology - Head and Neck Surgery as one “who has demonstrated an exceptional commitment to the practice and teaching of Otolaryngology - Head and Neck Surgery and whose professional and ethical standards have been of the highest order.”
Kang Dae Lee

EDUCATION BACKGROUND
1984: graduated from Busan National University College of Medicine
1994: Ph.D in Busan National University.

PROFESSIONAL CAREER
Major interests - Thyroid Surgery

PUBLICATIONS (THE LATEST 5 ARTICLES)
Intraoperative Realtime Imaging of Parathyroid

Kang-Dae Lee, M.D.
Department of Otolaryngology - H&N Surgery, College of Medicine, Kosin University, Busan, South Korea

Surgeons have difficulty in identifying parathyroid glands during thyroid and parathyroid surgery. Permanent hypoparathyroidism occurs after total thyroidectomies at rates ranging from 0.5%-6.6%, potentially higher for less experienced surgeons. The parathyroid gland is small, looks similar in color and texture to surrounding tissues, and embedded within paratracheal fat tissues or behind the thyroid gland. This makes parathyroid gland detection difficult. Even for experienced surgeons, the incidence of inadvertent parathyroid gland removal has been reported to vary from 9.1%-15%.

Parathyroid glands display higher intrinsic autofluorescent signal than the surrounding thyroid tissue or fat tissue when they are illuminated by 780nm near infrared (NIR) light. Autofluorescence(AF) emission peak appears at 820 nm. Based on these findings, we recently have reported intraoperative real-time parathyroid gland localization and mapping are feasible during thyroid or parathyroid surgery. This was possible without using any kind of exogenous contrast dye such as ICG. In this lecture, our novel AF NIR imaging using DSLR camera will be discussed.
Distinguished Speaker for US Perspective of Robotic Thyroid Surgery

MODERATOR
Woong Youn Chung, Yonsei University, Korea

Current Status of Remote Access Thyroid Surgery in USA
Emad Kandil, Tulane University New Orleans, USA
Woong Youn Chung, MD, PhD

EDUCATION BACKGROUND
1985-1991 Medical Degree, Yonsei University College of Medicine, Korea.
2001 Master Degree, Graduate School of Yonsei University, Korea.
2011 Degree of Ph. D. Graduate School of Korea University, Korea.

PROFESSIONAL EXPERIENCE
2011 - present Professor, Department of Surgery, Yonsei University College of Medicine, Seoul, Korea
2009 - 2017 Director of Thyroid Cancer Center, Yonsei University Health System.
2014 - present Chief of Endocrine Division, Department of Surgery, Yonsei University College of Medicine, Seoul, Korea
2009 - 2010 Director of MIS/Robotic Surgery Center, Yonsei University Health System.
2001 - 2002 Secretary of Local Organizing Committee, The 8th Congress of the Asian Association of Endocrine Surgeons.
2002 - 2017 Executive director, the Korean Association of Endocrine Surgeons.
2003 - present Member of the International Association of Endocrine Surgeons (AES).
2003 - 2005 Research fellowship at endocrine surgical oncology laboratory, UCSF, USA.
2001 - 2008 Director, the Korean Society for Head and Neck Oncology.
2006 - 2007 Chair of the Organizing Committee, the Korean Association of Endocrine Surgeons.
2008 - 2009 Editor in chief, the Korean Association of Endocrine Surgeons.
2008 - 2010 Member of Local Organizing Committee, The 4th World Congress of International Federation of Head and Neck Oncology Society.
2009.3 - 2013 Executive director, the Korean Society of Head and Neck Oncology.
2009.6 - 2011 Founding Member of Clinical Robotic Surgery Association (CRSA).
2010.3 - 2011 Chair of Endocrine organizing committee of Clinical Robotic Surgery Association (CRSA).
2011 - 2012 The president, the Society of Robotic Surgery (SRS).
2013.5 - 2015.8 The vice president, the Korean Association of Robotic Surgery.
2014.8 - present The vice president, the Korean Intraoperative Neural Monitoring Society.
2014.5 - 2016.4 Editor in chief, the Korean Association of Endocrine Surgeons.
2015.9 - 2017.8 The president, the Korean Association of Robotic Surgery.
2017.11 - present The founding president, the Asia-pacific association of Robotic Surgeons.
2018.6 - present The vice president, the Korean Association of Endocrine Surgeons.
Emad Kandil, MD, MBA, FACS, FACE

ACADEMIC APPOINTMENTS

2018 - present  Professor of Surgery, Department of Surgery, Tulane University School of Medicine
2018 - present  Elias Hanna Foundation Chair in Surgery, Department of Surgery, Tulane University School of Medicine
2010 - 2017  Edward G. Schlieder Educational Foundation Chair in Surgical Oncology, Department of Surgery, Tulane University School of Medicine.
2017 - present  Chief, General, Endocrine and Oncological Surgery Division, Department of Surgery, Tulane University School of Medicine.
2015 - 2017  Chief, Endocrine and Oncological Surgery, Department of Surgery, Tulane University School of Medicine.
2007 - present  Chief, Endocrine Surgery Section, Department of Surgery, Tulane University School of Medicine.
2013 - present  Associate Professor of Surgery, Department of Surgery, Tulane University School of Medicine.
2007 - 2012  Assistant Professor of Surgery, Department of Surgery, Tulane University School of Medicine.
2009 - present  Adjunct Assistant Professor of Otolaryngology, Department of Otolaryngology, Tulane University School of Medicine.
2007 - present  Clinical Assistant Professor, Department of Medicine, Tulane University School of Medicine.
2008 - present  Director, Endocrine Surgery Fellowship Program, Tulane University School of Medicine.
2006 - 2007  Clinical Instructor, Department of Surgery, Johns Hopkins University School of Medicine.

POSTDOCTORAL TRAINING

2006 - 2007  Clinical Fellow, Surgical Endocrinology and Oncology, Johns Hopkins University School of Medicine.
2003 - 2005  Surgical Resident, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
2002 - 2003  Research Fellow and Fellow in Cardiothoracic Surgery Intensive Care Unit, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
2000 - 2002  Surgical Resident, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
1998 - 2000  Neuroendocrine Research Fellow, The Neuroimaging Laboratory, New York University (NYU) School of Medicine, NY, NY.

EDUCATION

Business School  Masters in Business Administration (MBA), A.B. Freeman School of Business, 2015
Medical School  Doctor of Medicine (MD), Cairo University School of Medicine, 1995

BOARD CERTIFICATION

2017  Recertification, American Board of Surgery
2007  American Board of Surgery
1998  Educational Commission for Foreign Medical Graduates (ECFMG)
Current Status of Remote Access Thyroid Surgery in USA

Emad Kandil
Tulane University New Orleans, USA

The number of thyroid and parathyroid surgeries performed in the United States each year has increased significantly over the past several years. While thyroid surgical scars are usually well tolerated by most patients, hypertrophic scar or keloid formations have all been described as adverse complications of standard conventional cervical approach. There has been a trend across in Asia and Europe toward remote access approaches to thyroid surgery. In the United States, the most commonly extra-cervical approaches used to thyroid and parathyroid surgeries are transoral, transaxillary and retroauricular approaches. These remote access approaches may be considered for appropriately selected patients, including those with a history of keloids or hypertrophic scars. Reports of successful, safe application of robotic-assisted thyroidectomy for multiple pathologies, including thyroid cancer and Graves' disease, have been reported in USA with increasing case numbers in the literature. From 2009 through early 2011, there was a relatively steady increase in robotic thyroid cases in US, especially among high-volume institutions. However, lower-volume centers performed the majority of these cases. Currently, few of the high-volume centers continued to offer these novel approaches. Remote access thyroid surgery volume will most probably continue to increase in few high-volume centers in US in order to offer this approach for interested patients in US who continues to travel for long distance to undergo these novel procedures.

Despite that these approaches have been proven to be safe and feasible, USA surgeons still face many obstacles including learning curve and associated cost. The lecture will discuss these in more details.
Keynote Lecture 13

MODERATOR

Emad Kandil, Tulane University New Orleans, USA

Robotic Thyroid Surgery: A High-Volume Experience in Severance Hospital

Woong Youn Chung, Yonsei University, Korea
Emad Kandil, MD, MBA, FACS, FACE

ACADEMIC APPOINTMENTS
2018 - present Professor of Surgery, Department of Surgery, Tulane University School of Medicine
2018 - present Elias Hanna Foundation Chair in Surgery, Department of Surgery, Tulane University School of Medicine
2010 - 2017 Edward G. Schlieder Educational Foundation Chair in Surgical Oncology, Department of Surgery, Tulane University School of Medicine.
2017 - present Chief, General, Endocrine and Oncological Surgery Division, Department of Surgery, Tulane University School of Medicine.
2015 - 2017 Chief, Endocrine and Oncological Surgery, Department of Surgery, Tulane University School of Medicine.
2007 - present Chief, Endocrine Surgery Section, Department of Surgery, Tulane University School of Medicine.
2013 - present Associate Professor of Surgery, Department of Surgery, Tulane University School of Medicine.
2007 - 2012 Assistant Professor of Surgery, Department of Surgery, Tulane University School of Medicine.
2009 - present Adjunct Assistant Professor of Otolaryngology, Department of Otolaryngology, Tulane University School of Medicine.
2007 - present Clinical Assistant Professor, Department of Medicine, Tulane University School of Medicine.
2008 - present Director, Endocrine Surgery Fellowship Program, Tulane University School of Medicine.
2006 - 2007 Clinical Instructor, Department of Surgery, Johns Hopkins University School of Medicine.

POSTDOCTORAL TRAINING
2006 - 2007 Clinical Fellow, Surgical Endocrinology and Oncology, Johns Hopkins University School of Medicine.
2003 - 2005 Surgical Resident, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
2002 - 2003 Research Fellow and Fellow in Cardiothoracic Surgery Intensive Care Unit, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
2000 - 2002 Surgical Resident, Department of Surgery, State University of New York (SUNY) Health Sciences Center at Brooklyn, NY.
1998 - 2000 Neuroendocrine Research Fellow, The Neuroimaging Laboratory, New York University (NYU) School of Medicine, NY, NY.

EDUCATION
Business School Masters in Business Administration (MBA), A.B. Freeman School of Business, 2015 Tulane University, New Orleans, LA.
Medical School Doctor of Medicine (MD), Cairo University School of Medicine, 1995 Cairo, Egypt.

BOARD CERTIFICATION
2017 Recertification, American Board of Surgery
2007 American Board of Surgery
1998 Educational Commission for Foreign Medical Graduates (ECFMG)
Woong Youn Chung, MD, PhD

EDUCATION BACKGROUND
1985-1991 - Medical Degree, Yonsei University College of Medicine, Korea.
2001 - Master Degree, Graduate School of Yonsei University, Korea.
2011 - Degree of Ph. D, Graduate School of Korea University, Korea.

PROFESSIONAL EXPERIENCE
2011 - present Professor, Department of Surgery, Yonsei University College of Medicine, Seoul, Korea
2009 - 2017 Director of Thyroid Cancer Center, Yonsei University Health System.
2014 - present Chief of Endocrine Division, Department of Surgery, Yonsei University College of Medicine, Seoul, Korea
2009 - 2010 Director of MIS/Robotic Surgery Center, Yonsei University Health System
2001 - 2011 Secretary of Local Organizing Committee, The 8th Congress of the Asian Association of Endocrine Surgeons
2002 - 2017 Executive director, the Korean Association of Endocrine Surgeons
2003 - present Member of the International Association of Endocrine Surgeons (IAES)
2003 - 2005 Research fellowship at endocrine surgical oncology laboratory, UCSF, USA
2001 - 2008 Director, the Korean Society for Head and Neck Oncology
2006 - 2007 Chair of the Organizing Committee, the Korean Association of Endocrine Surgeons

SURGEONS
2008 - 2009 Editor in chief, the Korean Association of Endocrine Surgeons
2008 - 2010 Member of Local Organizing Committee, The 4th World Congress of International Federation of Head and Neck Oncology Society
2009.3 - 2013 Executive director, the Korean Society of Head and Neck Oncology
2009.6 - 2011 Founding Member of Clinical Robotic Surgery Association (CRSA)
2010.3 - 2011 Chair of Endocrine organizing committee of Clinical Robotic Surgery Association (CRSA)
2011 - 2012 The president, the Society of Robotic Surgery (SRS)
2013.5 - 2015.8 The vice president, the Korean Association of Robotic Surgery
2014.8 - present The vice president, the Korean Intraoperative Neural Monitoring Society
2014.5 - 2016.4 Editor in chief, the Korean Association of Endocrine Surgeons
2015.9 - 2017.8 The president, the Korean Association of Robotic Surgery
2017.11 - present The founding president, the Asia-pacific association of Robotic Surgeons
2018.6 - present The vice president, the Korean Association of Endocrine Surgeons
Robotic Thyroid Surgery: A High-volume Experience in Severance Hospital

Woong Youn Chung
Department of Surgery, Yonsei University College of Medicine, Seoul, Korea

A robotic approach has been developed to overcome the limitations of endoscopic approach, facilitating manipulation and shortening the learning curve. The surgical robot system enables the surgeon to control the 3-dimensional high-definition camera, reducing physiological tremors and enabling free dexterity of movement using articulated instruments. Therefore, robotic surgery has been found to eliminate many problems encountered with conventional endoscopic surgeries.

We developed and started the procedure of gasless trans-axillary robotic thyroidectomy (RT) in 2007 and experienced more than 7,000 cases until now. We found that the robotic technique was safe and feasible in thyroid cancer patients, yielding excellent cosmetic results, reduced pain, improved sensory changes and decreased postoperative voice changes and swallowing discomfort. For surgeons, the use of a robot offers a shorter operation time and a shorter learning curve than conventional endoscopic thyroidectomy. RT also causes less musculoskeletal discomfort to surgeons than open or endoscopic thyroidectomy. The advantages of robotic surgery over open or endoscopic surgery suggest that RT with or without lateral neck dissection may become the preferred surgical option for patients with thyroid cancer.

RT is a revolutionary technology; however, RT requires complete understanding of the robotic instruments, approach routes, and neck anatomy, which can lead to a dexterous and sophisticated technique in performing the procedure. Thus, sufficient training is essential and careful observation of an expert’s technique and animal or cadaveric studies are required. Surgeons should also consider the patient factors affecting outcomes in RT, including age, body habitus, and disease aggressiveness, associated comorbidities. The stepwise extension of surgical methods and indications after proper training and sufficient experience will lead to the ideal application of robotic system to thyroid surgery.

Based on our experiences, we define the impact of these development of robotic thyroidectomy technique on thyroid cancer management, including its benefits and limitations.
Master of Surgery 1
(Video Demonstration)
(How I Do It for Reconstruction of TORS Defect)

CHAIRMAN
Byung-Joo Lee, Pusan National University, Korea

MODERATOR
Magis Mandapathil, Asklepios St. Georg Hospital, Germany
Daniel M Alonzo, The Medical City, Philippines

The FAMM-flap for Post-TORS defects
Balazs B. Lorincz, Agaplesion Markus and Bethanien Hospitals, Germany

Endoscopic Approach for Harvest of Latissimus Dorsi Muscle with/without Scapular Tip for Reconstruction of Oral Cavity
Soon Hyun Ahn, Seoul National University, Korea

Conventional Reconstruction after TORS & Robotic Assisted Neck Dissection
Jong Won Hong, Yonsei University, Korea

Insetting for TORS Defect; How I Do It
Yoo Seob Shin, Ajou University, Korea
Byung-Joo Lee, MD, PhD

MEDICAL SCHOOL

1984, 3 -1990, 2  College of Medicine, Pusan National University, Busan, Korea
1991, 3 -1995, 2  Otolaryngology Residency, Department of Otolaryngology, Pusan National University Hospital, Busan, Korea
2000, 3 - 2003, 2  Graduate School of Medicine (Ph.D.), Pusan National University, Busan, Korea
2002, 9 - 2002, 11  Visiting Physician, Department of Head and Neck Surgery, Cancer Institute Hospital, Tokyo, Japan
2004, 8 - 2004, 9  Visiting Physician, Department of Head and Neck Surgery, Cleveland Clinic Foundation, Ohio, USA
2010, 3 - 2011, 2  Visiting Physician, Department of Surgery, Division of Otolaryngology-Head and Neck Surgery, Madison, Wisconsin, USA

Professor, Department of ORL-Head and Neck Surgery,
Pusan National University School of Medicine, Busan, Korea

President, Korean Society of Laryngology, Phoniatrics and Logopedics (2019-2021)
Magis Mandapathil, MD, PhD

EDUCATION / POSTGRADUATE TRAINING

10/2000-12/2006  Medical School of the Rheinisch-Westfälisch Technische Hochschule Aachen, Germany
04/2011  ECFMG certified (ECFMG Number 0-724-232-4)
05/2012  USMLE Step 3
2008-2010  Postdoctoral Research Fellowship, Tumor Immunology, Hillmann Cancer Center, University of Pittsburgh, Pittsburgh, USA
2015  Residency Otorhinolaryngology, Head and Neck Surgery, University of Marburg and Essen, Germany
2016  Fellowship Head and Neck Surgery, Memorial Sloan Kettering Cancer Center, New York, USA
Since 2017  Assistant Professor, Department of Otolaryngology, Head and Neck Surgery, Asklepios Medical School Hospital St. Georg, Hamburg, Germany

PHD THESIS

11/2014  "Adenosine-mediated Immunosuppression in Patients with Squamous Cell Carcinoma of the Head and Neck" (Supervisor: Prof. Dr. Jochen Werner, University of Marburg, Germany)

PEER-REVIEWER (INTERNATIONAL SCIENTIFIC JOURNALS)

Since 2009  Head and Neck (IF: 2.471)
Since 2012  European Archives of Oto-Rhino-Laryngology (IF: 1.660)
Since 2015  Oral Oncology (IF: 4.794)
Since 2015  Molecular Basis of Disease (IF: 5.476)
Since 2017  Radiation Oncology (IF: 2.568)
Since 2018  Cancer Immunology, Immunotherapy (IF: 4.223)
Since 2018  The Journal of Nuclear Medicine (IF: 6.646)
Since 2019  European Journal of Cancer Care (IF: 1.564)
Since 2019  Histopathology (IF: 3.45)

AWARDS/HONORS

Poster with Distinction* American Head and Neck Society, Annual Meeting 2009
(05/2009) MedImmert Peer Scholar, University of Duisburg-Essen, Germany (02/2010 . 12/2011) Pittsburgh-Essen-Exchange-Program Scholar, University of Duisburg-Essen, Germany
Gottingen, Germany (08/2012) Alexander-Karl-Preis by Tumorstiftung Kopf-Hals, Germany for achievements in Head and Neck Cancer Research (10/2012) Research Scholarship by the Alfred and Ursula Kulmann Stiftung, Germany (11/2012) Research Scholarship by the Adolf Schmidtmann Stiftung, Germany (11/2012) Research Grant by the Anneliese Pohl Stiftung, Germany (01/2013) Travel Award German Society of Otorhinolaryngology, Head and Neck Surgery (11/2013) Anton von Trolsch-Award Society of Otorhinolaryngology, Head and Neck Surgery (highest recognition by the society for academic surgeons (05/2015) #27 of most cited Otorhinolaryngologists in Germany, Austria and Switzerland
Publications (peer-reviewed; articles with citations ≥ 25 are outlined)
Daniel M Alonzo

EDUCATION/TRAINING:
Medicine: University of Santo Tomas Faculty of Medicine and Surgery
Residency in Otolaryngology-Head and Neck Surgery: Santo Tomas University Hospital
Fellowship in Head and Neck Surgery: Osaka University Medical School and National Cancer Center, Tokyo
MBA in Health: Ateneo Graduate School of Business

PAST POSITION
Former Chair, Department of Otolaryngology-Head and Neck Surgery, The Medical City
Former Director, The Medical City Cancer Institute
Balazs B. Lorincz

Balazs is a native and medical graduate of Hungary, trained as an ENT specialist at the University of Bergen, Norway, where he started performing head and neck cancer and thyroid surgery as a junior consultant in 2007.

He was subsequently awarded 2 years of super-specialized Head and Neck Surgery fellowship training in Australia: one year at the University of Queensland, Dept. of ENT and Head & Neck Surgery of the Princess Alexandra Hospital in Brisbane, Queensland (2008-09), and another year at the University of Sydney, Dept. of Head and Neck Surgery of the Sydney Head and Neck Cancer Institute at Royal Prince Alfred Hospital in Sydney, New South Wales (2009-10).

Since 2010, he served as the lead consultant head and neck surgeon at the University of Hamburg, Germany, Dept. of ENT, Head and Neck Surgery and Oncology. He completed his Ph.D. in 2014, followed by his habilitation in 2015, and was subsequently appointed Associate Professor in 2016, and Clinical Professor in 2017. He is also a Visiting Professor at the Semmelweis University in Budapest as well as at the American Hospital of Paris.

His main area of expertise is head and neck cancer and reconstructive plastic surgery, salivary gland and thyroid/parathyroid surgery, as well as robotic surgery of the head and neck, which he started during his time in Australia and has since become one of the most experienced and published robotic ENT surgeons in Europe.

He successfully combined his expertise in robotic surgery and thyroid surgery to perform the first robotic total thyroidectomy in Germany in January 2013. He also organized the first and second Joint European Thyroid and Head & Neck Robotic Workshop (also known as JETHROW) in 2013 and in 2014 in Hamburg. He is a regularly invited speaker on national and international meetings and approved proctor and trainer for transoral robotic surgery (TORS). Balazs is member of the editorial board of the leading European ENT-journal, the European Archives of Oto-Rhino-Laryngology and Head & Neck Surgery.

From February 2017 to January 2018, he co-founded the newly established Asklepios Robotic Center at the privately run Asklepios Klinik Hamburg-Altona, academically affiliated to the Semmelweis University Budapest. Since February 2018, he is the Chief of ENT and Head & Neck Surgery at the St. Elisabethen Hospital in Frankfurt am Main, Germany. He enjoys living with his physician wife and four young children in the city of Frankfurt.
The FAMM-flap for post-TORS defects

Balazs B. Lorincz
Agaplesion Markus and Bethanien Hospitals, Germany

Ablative oncologic TORS-defects may necessitate the use of flap reconstruction for water tight closure and adequate post-operative function. The facial artery musculomucosal (FAMM) flap, an intraoral axial pedicle flap, has a consistent and reliable vascular anatomy, a large arc-of-rotation, relative ease of elevation, and minimal donor site morbidity; however its use in oral cavity reconstruction remains unfamiliar across many centers. This study describes the use of the FAMM-flap in an oropharyngeal cancer setting, for patients that have been operated using TORS.

While the FAMM-flap is uncomplicated to raise, the use of loops or that of a microscope is useful when identifying and following its vascular pedicle. However, after tumour resection using TORS, it is possible to use the daVinci-System to raise the FAMM-flap after repositioning the robotic arms in the oral cavity, while waiting for the frozen section margins. With the 3D-HD magnified view of the robotic system, the pedicle is easy to follow and the flap can be raised quickly and easily. Then, suturing the flap into the

The FAMM flap is a reliable option for reconstruction of oral cavity and oropharyngeal defects, and should be considered a workhorse flap for those. Unlike the submental island flap, a complete level I dissection may be concurrently performed without compromising the vascular supply to the FAMM flap. Functional and facial mimetic results with use of this flap are generally excellent, with the exception of a risk for ipsilateral upper lip anaesthesia and mild asymmetry in lip height at rest.
Soon-Hyun Ahn, MD

EDUCATION
M.D., 1993 College of Medicine, Seoul National University, Seoul, Korea
M.S., 1998 College of Medicine, Seoul National University, Seoul, Korea
Ph.D, 2004 College of Medicine, Seoul National University, Seoul, Korea

TRAINING COURSE
1994-1998 Resident of Otolaryngology, Seoul Nat’l Univ. Hospital, Seoul, Korea
2001-2003 Clinical & Research Fellow of the Otology, Seoul Nat’l Univ. Hospital, Seoul, Korea
2006-2007 Postdoctoral fellow, M.D. Anderson Cancer Center, Houston, TX, USA
2003-2017 Seoul National University Bundang Hospital
2017-Now Seoul National University Hospital
Endoscopic approach for harvest of latissimus dorsi muscle with/without scapular tip for reconstruction of oral cavity

Soon-Hyun Ahn
Department of Otorhinolaryngology-Head & Neck Surgery, Seoul National University College of Medicine

For oral cavity reconstruction, especially for the hard palatal or maxillectomy defect, latissimus dorsi muscle with or without scapular tip based on thoracodorsal pedicle has some advantage over iliac crest or fibula and frequently used. Advantages are less donor site morbidity as teres minor muscle could be preserved. And the pedicle could get reasonable length. However, it will require position change and long surgical scar in flank.

With anatomical understanding, latissimus dorsi muscle or scapular tip could harvest with endoscopic assist through 6cm long incision along the axillary crease without positional change. It was feasible and no scar was visible in donor site postoperatively.

Although this procedure could be performed with naked eyes, various endoscopic technique or robotic technique could be applied in future.
Jong Won Hong

Associated Professor, Dept. of Plastic & Reconstructive Surgery
Yonsei University Health System, Severance Hospital

EDUCATION
1993. 3. ~ 1999. 2. Yonsei Univ. College of Medicine (graduated)
2010. 9. ~ 2018. 2. Yonsei Univ. Graduate school, Dept. of Plastic & Reconstructive Surgery (PhD)

EMPLOYMENT
1999. 3. ~ 2000. 2. Clinical Internship, Severance Hospital of Yonsei Univ., Seoul, Korea
2004.12 ~ 2006. 2. Medical Chief, King Sejong Antarctic Scientific Station of KOREA
2006. 4. ~ 2007. 4. Director, Dept. of Plastic & Reconstructive Surg., Woori Hospital, Pocheoun, Korea
2007. 5. ~ 2009. 2. Clinical Fellow, Dept. of Plastic & Reconstructive Surg. & Research Assistant Professor, Institute for Human Tissue Restoration
2009. 3. ~ 2011. 2 Assistant Clinical Professor, Gangnam Severance Hospital, Yonsei Univ.
2011. 3. ~ 2014. 2 Assistant Professor, Gangnam Severance Hospital, Yonsei Univ.
2014. 3. ~ 2018. 2 Assistant Professor, Severance Hospital, Yonsei Univ.
2018. 3. ~ present Associated Professor, Severance Hospital, Yonsei Univ.

ACADEMIC APPOINTMENT / MEMBERSHIP OF SOCIETY
Member of the Korean Society of Plastic and Reconstructive Surgeons
Member of the Korean Society of Aesthetic Plastic Surgery
Member of the Korean Cleft Palate-Craniofacial Association
Member of the Korean Society for Surgery of the Hand
Member of the Korean Society for Microsurgery
Founding Member of ASRT (American Society for Reconstructive Transplantation)

AWARDS
Ministry of Education, Science and Technology (2009, No. 114446) - For the development of Polar Sciences
Reconstruction after Robotic Surgery of the Head & Neck

Jong Won Hong
Yonsei University, Severance Hospital, Department of Plastic & Reconstructive Surgery, Seoul, Korea

1. Dilemma of Robotic Surgery in Reconstructive Surgery

Beginning with research on medical robots in NSAS in the 1970s, the U.S. Food and Drug Administration (FDA) approved the first robotic surgery in 1993. Since then, da Vinci robot system has been developed, along with the development and expansion of robotic surgery in the 2000s. The use of these systems may expand to other fields; in fact, numerous research and clinical trials are being performed to apply these systems in various surgical fields.

Those who perform plastic surgeries, especially reconstructive surgery, have been interested in robots, although they are not applied in all fields of reconstruction surgery. Flap elevation, flap insetting, and vessel anastomosis are typical surgical procedures for reconstruction in the aspect of flap. Although the advantages of robotic surgery are highlighted and widely encouraged, robotic surgery is not actively applied in plastic surgery, orthopedics, and reconstructive surgery. Therefore, it is necessary to review the purpose, scope, and characteristics of robotic surgery.

The first advantage of robotic surgery is that it is a non-invasive treatment. Non-invasive surgery reduces the extent of incision and preserves important organs. However, in the reconstruction area, when making an incision that is as large as the size of flap or defect, the size of incision is usually enough for flap elevation, dissection, insetting, and vessel skeletonization. Therefore, the use of robotic surgery as non-invasive treatment is not meaningful in reconstruction surgery.

Second, robotic surgery has been widely applied in the visceral organs of endoderm origin, and this absolutely meets the purpose of non-invasive treatment. Most reconstructive surgeons, plastic surgeons, and orthopedic surgeons target the ectoderm, mesoderm origin organ, so that the incision itself is on the target organ instead of being made through the other barrier. Therefore, observation through either robot or endoscope is not necessary.

For these reasons, robotic surgery is not widely applied in the reconstruction field. Nevertheless, efforts in robotic surgery are increasing in the reconstruction area. In particular, reconstructive surgery has been more commonly performed in collaboration with other surgical teams until now. We have compared robotic reconstructive surgery and conventional reconstructive surgery after robotic surgery.

2. Robotic Surgery in Reconstructive Surgery - Conventional Surgery

Extensive resection of the tumor often requires reconstruction after robotic surgery. However, considering the necessity of surgery, cost, and training, robotic surgery may not be suitable for all cases of reconstruction. Vessel anastomosis in the neck is difficult after radical neck dissection through face lift incision. It is also difficult to inset the flap through oral cavity. Therefore, we came up with several tips to extend the operation field.

1) Narrow surgical field after face lift incision - Vessel anastomosis in neck

First, the operation field must be secured as wide as possible. The incision must also be extended 1-2 cm further backward or downward. Another method is to make the dissection more widespread in the same incision.

Second, the patient’s position is adjusted by moving the surgical table. Surgical table is tilted in the opposite direction and elevated towards the head. During this process, the patient should be careful not to slip on the surgical bed.

Third, vessel anastomosis is performed on the lateral side near the incision. Both donor and recipient vessels must be harvested as long as possible.

Fourth, if an operation area is not secured yet, anastomosis is performed by adding a 2-cm window to the neck skin directly above the vessel anastomosis field. Most of these patients tend to have short and thick necks.
2) Narrow surgical field through oral cavity - Flap insetting

First, the flap must be thinly harvested and accurately sized. Radial forearm flap is typically used. This flap has a merit for long vessels. ALT is usually too thick, except in a very skinny person. Of course, ALT can be elevated by thinning process. However, the perforator is likely to twist or squeeze in the passing through mouth and traction. The lateral arm flap and SCIP flap are not appropriate, due to insufficient vessel length.

Second, deep sutures and ties are not finished at the same time, but they use serial tagging sutures. After tagging the deep area, complete ties are performed in order.

3. Future for Robotic Surgery in Reconstruction

Considering the characteristics of reconstructive surgery, the necessity of robotic surgery is not urgent yet. Especially, regarding the cost aspect, there are many issues to be solved. However, if we consider the medical trend, we cannot ignore robotic surgery in reconstruction. Head and neck reconstruction is a good condition to apply the field of robotic surgery.

Currently, robotic surgery is passive, meaning the man controls everything. However, the development of semi-active robots or active robots is expected in the near future. The ultimate goal of robotic surgery is to apply an active medical robot that can perform operations on its own. In this respect, vessel anastomosis is the most likely to be performed in the concept of active robotic surgery without human control. Since the vessel has simple factors to set, such as the diameter, thickness, vessel distance, it will be easy to apply active robot surgery in the near future.

Due to many twists and turns, if we simply emphasize the merit of robotic surgery without understanding reconstructive surgery, the patient may be overlooked. Therefore, to ensure successful reconstruction surgery and patient safety, all factors that may affect the outcome of reconstruction should be taken into account for robotic surgery.
Yoo Seob Shin

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2016 ~ Associate Professor, Ajou University
2011-2016 Assistant Professor, Ajou University
2010-2011 Fellow in Head and Neck surgery, Yonsei University
2003-2007 Resident in Otorhinolaryngology, Yonsei University

RESEARCH INTERESTS

- Clinical interest: Head and neck cancer, Reconstructive surgery
- Research interest: Angiogenesis, Epithelial regeneration, Vocal fold/trachea regeneration

PUBLICATIONS

3. Jae Won Choi, Yeon Soo Kim, Ju Kyeong Park, Eun Hye Song, Ji Hoon Park, Moon Suk Kim, Yoo Seob Shin, Chul-Ho Kim Controlled release of hepatocyte growth factor from MPEG-b-(PCL-ran-PLLA) diblock copolymer for improved vocal fold regeneration Macromolecular Bioscience 2017 Feb;17(2)
5. Jae Won Choi, Ju Kyeong Park, Jae Won Chang, Da Yeon Kim, Moon Suk Kim, Yoo Seob Shin, Chul-Ho Kim Small Intestine Submucosa and Mesenchymal Stem Cells Composite Gel for Scarless Vocal Fold Regeneration Biomaterials 2014;35(18):4911-8
Insetting for TORS defect; How I Do It

Yoo Seob Shin
Department of Otolaryngology, School of Medicine, Ajou University, Suwon, Korea

Transoral robotic surgery (TORS) has been widely used in selected head and neck cancers, especially oropharyngeal cancers. These days, TORS can be applied even in locoregionally advanced oropharyngeal cancers. Therefore, the reconstruction of large oropharyngeal defect after TORS has been a clinical conundrum for head and neck reconstructive surgeons. In terms of flap insetting for TORS defect, several reconstructive surgeon has reported their successful experiences including robot-assisted reconstructive procedure. Here, I intend to review these publications and share my experience of TORS defect reconstruction, especially focusing on the insetting of a harvested flap.
Master of Surgery 2
(Video Demonstration) (How I Do It)

CHAIRMAN
Phakdee Sannikorn, Rajavithi Hospital, Thailand

MODERATOR
John Watkinson, BUPA Cromwell Hospital & Great Ormond Street Hospital, UK
Young-Gyu Eun, Kyung Hee University, Korea

Parotid Surgery: How I do It by Retroauricular Incision
Dewan Hassan, Sarkari Karmachari Hospital, Bangladesh

The Impact of Single-port System on Trans-hairline Approach of Robotic Surgery
Tsung Lin Yang, National Taiwan University, Taiwan

Transoral Exposure of Head and Neck Malignancies: Learning Curve on TORS
Sergio Obeso Agüera, Marques de Valdecilla University Hospital, Spain

Transoral Robotic Surgery Assisted Excision of Parapharyngeal Space Tumors
Chen Chi Wang, Taichung Veterans General Hospital, Taiwan

Trans Oral Robotic Skull Base Surgery
Stéphane Hans, Université Paris 5, France

Transoral Robotic Submandibular Sialadenectomy (TORSS)
Pasquale Capaccio, University of Milan, Italy
Phakdee Sannikorn, MD

APPOINTMENTS
1984-1986  Instructor of Department of Otolaryngology, Khon Keang University
1988-1989  Fellowship in Laser Surgery, Department of Otolaryngology Head & Neck Surgery, Kagoshima University, Kagoshima, Japan
1986-2017  Staff Member of Department of Otolaryngology Head & Neck, Surgery, Rajavithi Hospital, Ministry of Public Health, Bangkok
2002-2017  Chairman of Maxillo-facial Division, Department of Otolaryngology, Rajavithi Hospital, Ministry of Public Health, Bangkok
2002-2017  Chairman of Head & Neck Surgery Division, Department of Otolaryngology, Head & Neck Surgery, Rajavithi Hospital, Ministry of Public Health, Bangkok
2012-2015  President of Royal College of Otolaryngologists-Head and Neck Surgeon of Thailand
2016-2017  President of ASEAN ORL-HNS Federation
John Watkinson

Biography: John Watkinson qualified from the Royal Free Hospital, London in 1979, and trained in ENT, Head and Neck and Plastic Surgery at Guys Hospital and The Royal Marsden. He has Fellowships in General Surgery and Otolaryngology, an MSc in Nuclear Medicine and MS in Surgery. He is an elected member (by thesis) of both the American Triological Society and the American Head & Neck Society. He held visiting professorships at Johns Hopkins Hospital in Baltimore, and then Duke in Carolina, USA before completing his training with a further Plastics Fellowship at Canniesburn Hospital, Glasgow.

He was a Consultant Head and Neck and Thyroid surgeon at the Queen Elizabeth Hospital, University of Birmingham NHS Trust (1992 - 2017), and Consultant Thyroid Surgeon at The Royal Marsden Hospital, London (2016 - 2017). He is currently Honorary Paediatric Head and Neck and Thyroid Surgeon at Great Ormond Street Hospital (GOSH), and lectures in Anatomy at UCL, London.

He had a large thyroid clinical and research practice, supervised over 30 Higher Degrees and in 1998 was Hospital Surgical Doctor of the Year. He has published on all aspects of Head & Neck and Thyroid surgery; organised the Birmingham Head and Neck course (1997-2006) and is Chief Editor of several major textbooks including Scott Brown, Stell and Maran, Tips & Tricks in Endocrine Surgery, and has edited the latest Neck Section in Gray’s Anatomy. He was President of the British Association of Head and Neck Oncologists (2009-2011), President of British Association of Endocrine and Thyroid Surgeons (2011-2013) and is the first ENT surgeon to hold that honour.

He was President of the Royal Society of Medicine Laryngology Section (2014-2015). He has been involved in a number of National guidelines including NICE, BTA, BAHNO, DAHNO and ENT-UK, and was awarded a Hunterian Professorship in 2009 from The Royal College of Surgeons of England. He was appointed by [Dame] Tessa Jowell to serve on ARSAC (Administration of Radioactive Substances Advisory Committee) for the Government (1994 - 2002). From 2003 - 2010 he was an examiner for the Part III FRCS-ORL Exam. In 2015, he was awarded the Jobson Home Prize by the BMA for his lifetime contribution to medicine in ENT, and in 2019 was awarded a lifetime achievement award by the President and Counsel of BAHNO. John was also a member of the NCIN and NICR national committees.

John has given a number of eponymous lectures including the Stell memorial lecture (2005), John Palmer (Toronto 2007), the Leegard lecture (2009), Hunterian (2009), the Wilde Discourse (2011), RSM Presidential Address (2014) and the Thomas Tatum Lecture (2016). Recently, he co-wrote the ‘History of the Semon Lecture’ (www.semonlectures.org). In 1994, together with Adrian Drake-Lee, the Warwickshire Cricketers, Dr Hilary Jones, the late Roy Castle and Peter Scudamore he co-founded The Get A-Head Charitable Trust (www.getahead.org.uk).

John is married with two children, enjoys travelling, watching all sports, fishing and fine wine!
Young-Gyu Eun

Professor, Kyung Hee University

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

1. Feb, 2010: Kyung Hee University Graduate School, Seoul
   Major: Medicine (Otolaryngology-Head and Neck Surgery)
   Degree: Ph.D.
2. Feb., 2006: Kyung Hee University Graduate School, Seoul
   Major: Medicine (Otolaryngology-Head and Neck Surgery)
   Degree: M.S.
3. Feb., 1999: college of medicine, Kyung Hee University, Seoul
   Major: Medicine
   Degree: M.D.
5. March 2018 – present
   Job title: Professor
   Department of Otolaryngology – Head and Neck Surgery, Kyung Hee University, School of Medicine, Seoul, Korea
6. March 2014 – Feb 2018
   Job title: Associate Professor
   Department of Otolaryngology – Head and Neck Surgery, Kyung Hee University, School of Medicine, Seoul, Korea
   Job title: Visiting Associate professor
   Department of Systems biology, MD Anderson Cancer Center, TX, USA
8. March 2012 – February 2014
   Job title: Assistant Professor
   Department of Otolaryngology – Head and Neck Surgery, Kyung Hee University, School of Medicine, Seoul, Korea
9. March 2010 – February 2012
   Job title: Assistant Professor
   Department of Otolaryngology-Head and Neck Surgery, Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea
10. March 2009 – February 2010
    Job title: Clinical Assistant Professor
    Department of Otolaryngology-Head and Neck Surgery, Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea
    Job title: Fellowship and Instructor (Head and Neck Surgery)
    Department of Otolaryngology-Head and Neck Surgery, Kyung Hee University

RESEARCH INTERESTS
Radiosensitivity of head and neck squamous cell cancer, genomic analysis, diagnosis and pathophysiology of LPR

PUBLICATIONS
Dewan Mahmud Hasan

EDUCATIONAL QUALIFICATIONS

NAME OF THE DEGREE AWARDED:  
NAME OF THE INSTITUTION NAME OF THE BOARD/ UNIVERSITY

DLO (Institute of Post Graduate Medicine and Research, Dhaka Dhaka University.)
MBBS Rajshahi Medical College Rajshahi University
H.S.C. (Dhaka College, Dhaka Board )
S.S.C. (Ideal High School, Dhaka Board )

HIGHER TRAINING (SHORT FELLOWSHIP/CLINICAL OBSERVER)

TRAINING IN HEAD-NECK SURGERY (ONCOLOGY)

1. Tata Memorial Hospital, Mumbai, INDIA
2. KKR ENT Hospital and Research Institute, Chennai, INDIA
3. Head-neck surgery (oncology) in 2011, Prince Aly Khan Hospital. Mumbai, INDIA
4. University Medical center , Utrecht, Holland
5. Lussane University Hospital, Switzerland
6. St Vincent Hospital, Australia
7. Yongshai Medical University, Korea
8. Training in Audiology - Society For Assistance To Hearing Impaired Children (SAHIC), Dhaka, Bangladesh .

COURSE/WORKSHOP

1. Head-neck course2006 (Reconstruction and Rehabilitation in head-neck surgery micro vascular free flaps) University of Hong-Kong Medical center, Queen Mary Hospital
2. 2nd International course on Endocrine Surgery, GRAVES DISEASE, Varese, ITALY
3. Temporal Bone Workshop Madras ENT Research Foundation (P) Ltd, Chennai, INDIA
4. Temporal Bone Dissection Course & live Surgery Workshop Bangladesh Medical College & Hospital, Dhaka, BANGLADESH.

EXPERIENCES/ JOB/ NAME OF THE POST/ NAME OF THE INSTITUTION

(PRESENT APPOINTMENT)

Senior Consultant & head of the Department
Otolaryngology & head-neck surgery.
Azmal Hospital Pvt. Ltd.
Mirpur, Dhaka, Bangladesh

OTHER APPOINTMENTS IN OTOLARYNGOLOGY & HEAD-NECK SURGERY

· Senior Consultant & Head.Otolaryngologist & head-neck surgeon .300 bed hospital Narayangaj, Bangladesh
· Assistant Professor, ENT oncology National Institute of Cancer Research & Hospital, Mohakhali Dhaka, Bangladesh.
· Junior Consultant, ENT & Head-Neck Surgery Sir Salimullah Medical College & Mitford Hospital Dhaka, Bangladesh
· Junior Consultant, ENT & Head-Neck Surgery ShaheedSuhrawardi Hospital Dhaka, Bangladesh Indoor Medical Officer, ENT & Head-Neck Surgery Sir Salimullah Medical College & Mitford Hospital Dhaka, Bangladesh
· Registrar, ENT & Head-Neck Surgery Sir Salimullah Medical College & Mitford Hospital Dhaka, Bangladesh
· Medical Officer, OPD ENT & Head-Neck Surgery Institute of Post Graduate Medicine and Research Dhaka, Bangladesh
· Emergency Medical Officer, ENT & Head-Neck Surgery Dhaka Medical College Hospital Dhaka, Bangladesh
· Indoor Medical Officer ENT & Head-Neck Surgery Institute of Post Graduate Medicine and Research Dhaka, Bangladesh
Retroauricular incision - a new surgical technique on selected cases of parotid gland cases

Dewan Hassan
Sarkari Karmachari Hospital, Bangladesh

Introduction
Parotidectomy is usually done by 'Lazy S' incision (pre auricular - mastoid - cervical), may cause ragged scars & skin deformity.
Minimally invasive parotidectomy or para-auricular is also alternative of 'Lazy S' incision entails less scarring.

Objective
Aim of the study was to evaluate the surgical treatment of Parotid Swelling in selected group of patients by retro auricular incision.

Method
Total number of patients-Sixty two (62). Patients suffering from Pleomorphic adenoma (40) , Chronic Parotitis(2) mucoepidermoidcarcinoma(9),wardinstumour (5),tuberculosis(3),Adenocarcoma(1),Benign parotid cyst (2)were reviewed. Superficial parotidectomies were done in all cases by retro auricular incision.

Results
Retro auricular incision has very good aesthetic result and no visible incision mark from the first post-operative day. All patients were very happy with no visible scar/incision mark. Temporary post-operative facial weakness developed in 4 cases & no permanent facial palsy. 2 cases suffered from infection (one patient was diabetic and one had very thin skin flap) and 2 patients suffered from Frey’s syndrome, 2 patients from sialocele and 1 from salivary fistula. 20 (Twenty) patients suffered from hypoesthesia of the operative area. Transient ear discomfort occurred in 15 patients. These complications have been described by other surgeons, by other incisions for parotidectomy operation.

Conclusion-
Parotidectomy by retro auricular incision may be highly acceptable procedure both from aesthetic point of view as well as surgical approach.
Tsung-Lin Yang, MD, PhD

CURRENT POSITION AND PREVIOUS EMPLOYMENT
a. Professor, Department of Otolaryngology & Head Neck Surgery, National Taiwan University
b. Professor, Graduate Institute of Clinical Medicine, National Taiwan University
c. Chief Executive Officer, Research Center for Development Biology and Regenerative Medicine, National Taiwan University
d. Director, Department of Otolaryngology, National Taiwan University Hospital, Yun-lin Branch

EDUCATION
MD: College of Medicine, National Taiwan University
PhD: Graduate Institute of Biomedical Engineering, National Taiwan University

CURRENT ASSIGNMENT OF PROFESSIONAL SOCIETY
Executive Director, Founder, Taiwan Robotic Surgery Association (TRSA)
Executive Director, Founder, Taiwan Association of Interventional and therapeutic ultrasound (TAITU)
Director, Taiwan Head Neck Society (THNS)
Vice General Secretory, Taiwan Society of Otorhinolaryngology and Head Neck Surgery (TSOHNS)
Council Member, Founder, Asia-Pacific Society of Thyroid Surgery (APTS)
Council Member, Founder, International Guild of Robotic & Endoscopic Head and Neck Surgery (IGReHNS)

SELECTED HONORS AND AWARDS:
1. Young Investigator Award, Academia Sinica
2. Dr. Wu Da-You Research Award, Ministry of Science and Technology, Taiwan
3. Memorial Medical Award of Dean Chen-Yuan Lee
4. Awardee of the National Talented Youth Award, Taiwan
5. The National Innovation Award, Institute for Biotechnology and Medicine Industry, Ministry of the Interior, 11th, Taiwan.
6. Outstanding Research Award for Excellence in Innovation of Medical Technology, the National Taiwan University Hospital
7. Award of Best Research Paper, International Symposium of Materials on Regenerative Medicine
8. First case of trans-hairline robotic surgery for cervical tumor in the world
9. Award of Best Research Paper of Head and Neck Oncology of Professor Tu Shih-Mian's Academic Foundation in Otolaryngology
10. Award of Best Research Paper, Taiwan Society of Ultrasound in Medicine
11. The Sixth National Innovation Award, Institute or Biotechnology and Medicine Industry, Ministry of the Interior, Taiwan.
12. Award of Annual Best Research Paper, Taiwan Otolaryngological Society
13. Award of Professor Tu Shih-Mian's Academic Foundation in Otolaryngology
The impact of single-port system on the trans-hairline approach of robotic surgery

Tsung-Lin Yang MD, PhD.
Department of Otolaryngology & Head Neck Surgery, National Taiwan University Hospital, TAIWAN

Conventional surgery is associated with significant esthetic morbidity in clinical practice of treating head and neck diseases by the open approach. The possibility of leaving obvious scars on the neck that has significantly reduced since the introduction of the techniques of robotic and endoscopic surgery. Furthermore, cosmetic outcome after surgery has greatly improved since the development of robotic surgery through a trans-hairline approach. However, the bulky sizes of robotic arms and the rigid design of camera and instruments in the current multiarm robotic systems increased the surgical difficulty. With the launch of the flexible single-port (SP) robotic system, the surgical procedures of trans-hairline approach for robotic neck surgery could be successfully performed. The unique features include an easier docking procedure, different viewing angles, the use of the third arm, and coordination of instrument positions without a bedside assistant, which are unavailable in current multiarm robotic systems. All these advantages of applying the flexible, SP robotic system in robotic neck surgery through the trans-hairline approach pose the significant impact on the improvement of surgical technique and outcomes.
Sergio Obeso Agüera

EDUCATIONAL BACGOUND & PROFESSIONAL EXPERIENCE

1998-2004: Graduate in Medicine, Cantabria University
2005-2009: Resident training in Otolaryngology, University Hospital Central Asturias
2009-actually: Attending Physician Otolaryngology, University Hospital Marques de Valdecilla
2010-actually: Lecturer Professor, Department Otolaryngology, Cantabria University
2013-actually: Associate Professor, Gimbernat School Locopedics, Cantabria University
2015-2016: Mutua Sabadell. Expert in Microsurgical Technique
2015-actually: Member, IDIVAL. Cantabria University, Group Cell Cycle and Cancer Research

RESEARCH INTERESTS

Minimal Invasive Head and Neck Surgery
In Office procedures in Laryngology
Cell Cycle and Epithelial Cancer

PUBLICATIONS

Transoral Exposure of Head and Neck Malignancies: Learning Curve on TORS

Sergio Obeso Agüera
Marques de Valdecilla University Hospital, Spain

Almost all surgeons who perform TORS, have previous experience in non-robotic transoral resections. However, the transoral exposure needed to complete robotic procedures has specific features. In the early stages of the development of the technique up to 17% of cases there was a failure in exposure. The rate was higher depending on tumor location as well as in patients who did not undergo previous panendoscopy. In cases with suboptimal exposure, the risk to positive border, uncontrollable bleeding and prolongation of surgical time is higher.

As cases accumulated, some ways to improve exposure such as routine tracheostomy or previous panendoscopy on purely lateral wall oropharyngeal tumors, were abandoned. Moreover, nowadays four surgical devices coexist so differences are remarkable. On the other hand, new oral retractors and some tip and trick had been developed in order to obtain adequate exposure.

According to the bibliography, I will review the current preferences during the exposure phase. I will highlight some of the maneuvers provided by more expert surgeons than me. Finally, I would like to expose some cases in which simple maneuvers have greatly improved greatly the exposure for me.
Chen Chi Wang

EDUCATION BACKGROUND
1. School of Medicine, National Yang-Ming University. 1994.
4. Visiting Fellow, Voice Disorders Center, Massachusetts Eye & Ear Infirmary, Harvard University, May, 2004

PROFESSIONAL CAREER
1. Clinical Professor, Department of Audiology and Speech-Language Pathology, Asia University, Taichung, Taiwan
2. Associate Prof., Medical school of National Yang-Ming University, Taipei
3. Secretary General, Asia-Oceania Association of Oto-Rhino-Laryngological Societies
4. Standing Director, Taiwan Head & Neck Society
5. Standing Director, Taiwan Voice Society
6. Executive Member, Asia-Pacific Society of Thyroid Surgery

RECENT PUBLICATIONS
Transoral robotic surgery for parapharyngeal space tumors

Chen-Chi Wang
Department of Otolaryngology Head & Neck Surgery, Taichung Veterans General Hospital, Taichung, Taiwan

Introduction
Surgical treatment of parapharyngeal space tumor is usually challenging because the complex space is surrounded by many critical structures. Conventionally, transoral, transcervical, transmandibular, and transparotid approaches have been employed singly or combined to resect the neoplasm in parapharyngeal space with different pros and cons. Conventional transoral approach may provide better cosmetic and functional results but limited by poor visibility and maneuver-ability. Since the development of da Vinci robot, high magnification 3-D endoscope with angled view and endo-wristed instrumentation can conquer the limitation and assist transoral surgery without the necessity of mandibulotomy or bigger external skin incision.

Material & Method
Between Sep 2015 and Dec 2018, eight patients with parapharyngeal space tumor received surgery for tumor removal via transoral robotic surgery with/without combined cervical approach. Six patients had pre-styloid tumors, 2 patients had post-styloid tumors. The diameter of the tumor on the MRI images ranged from 19 mm to 62 mm with mean of 4.06 cm. Among these patients, 5 patients with prestyloid tumors received TORS only. A patient with huge prestyloid mixed tumor extending to parotid gland through mandible mastoid tunnel and 2 patients with post-styloid tumors received TORS combined with cervical approach.

Results
All the patients complete the surgery successful and no patients need mandibulotomy during the surgical procedure. They are very satisfied with the post operation cosmetic outcome. There is no tumor recurrence so far in the follow up period.

Conclusion
With high magnification view and endo-wristed instruments, TORS is a powerful technique to assist resecting the para-pharyngeal tumor safely with low morbidity.
Stéphane Hans

Dr. Stéphane Hans (MD, PhD) is Professor ENT - Head and Neck Surgery at Versailles Saint-Quentin-en-Yvelines University (Paris Saclay University) - Foch Hospital (Suresnes, France).

He leads the Program in Minimally Invasive and Endoscopy Head and Neck Surgery: Transoral Laser Microsurgery and TransOral Robotic Surgery.

Dr. Hans’s surgical practice focuses on the surgical management of head and neck cancers. His areas of research interest include endoscopic head and neck surgery, transoral laser microsurgery, transoral robotic surgery including robotic skull base surgery and robotic thyroidectomy.

Dr. Hans has authored or co-authored more than hundred twenty articles.
TransOral Robotic Surgery for Sellar Tumors

Stéphane HANS, MD, PhD¹, Dorian Chauvet, MD²
¹Department of Head and Neck Surgery, Foch Hospital, Suresnes, France - Versailles Saint Quentin-en-Yvelines University (Paris Saclay University).
²Department of Neurosurgery, Fondation Ophtalmologique Rothschild, Paris, France

Objective
We previously demonstrated the feasibility of an innovative transoral robotic surgery (TORS) with the da Vinci for sellar cystic tumors. We present here the results of this technique on solid pituitary adenomas. We conducted a prospective study, which included patients with pituitary macroadenomas mostly revealed by visual trouble.

Methods
As previously described, preoperative open mouth brain CT scan was performed to envision the accessibility of the sella via TORS. The main objective remained the sellar accessibility, but resection quality was especially assessed. Visual improvement, TORS side effects, complications and operative times were also reported.

Results
Three patients with pituitary macroadenomas were included. Two tumors were solid and one was partially cystic. Patients n°1 and 2 had a suprasellar portion compressing the chiasma and responsible for bitemporal hemianopsia. Patients were operated via TORS and the tumor was reached in all cases. Tumor resection was incomplete for 2 patients and one required a second surgery via an endonasal approach. Specific side effects of TORS included minor sore throat and transient hypernasal speech. We recorded one transient third nerve palsy. Mean operative time was 2 hours 55 minutes.

Conclusion
After a promising study on cystic sellar tumors operated on by minimally invasive TORS, we emphasize the limitations of this innovative technique regarding resection quality for solid tumors. Sella accessibility, 3D vision and transoral approach side effects remained satisfactory, but the lack of dedicated instruments is a limiting factor. Further development on the da Vinci system should be engaged to improve the technique at this time.
Pasquale Capaccio

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

~ 2016 University of Milan Policlinico Associate Professor
2006-2016 University of Milan Policlinico University Researcher
1996-2000 Ospedale Maggiore Policlinico Milan ENT Medical manager
2001-2006 Az. Ospedaliera Sacco Milan ENT Medical Manager

RESEARCH INTERESTS

Minimally-invasive and conservative techniques for salivary disorders (sialendoscopy ? ESWL ? ILL ? sialendoscopy-assisted transoral and transfacial surgery, botulinum toxin therapy)
Transoral robotic salivary surgery
Sudden sensorineural hearing loss
Pediatric otorhinolaryngology
Molecular and immunohistochemical markers for head and neck tumors, in particular laryngeal neoplasms

PUBLICATIONS

Transoral Robotic Submandibular Sialadenectomy (TORSS)

Pasquale Capaccio 1; MD, Filippo Montevecchi 2; MD, Giuseppe Meccariello 2; MD, Giovanni Cammaroto 2, MD; Jeffery Scott Magnuson 3, MD; Claudio Vicini 2, MD.

1Department of Biomedical, Surgical and Dental Sciences - University of Milan - Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico, Milan, Italy, 2Head and Neck Department, ENT & Oral Surgery Unit, G.B. Morgagni - L. Pierantoni Hospital of Forlì, 3Florida Hospital, Celebration, FL, USA

Traditional removal of the submandibular gland is done through a transcervical approach; new proposals has come into the scientific limelight such as endoscopy-assisted transcervical sialadenectomy or (robot-assisted) submandibular sialadenectomy through a postauricular facelift transcervical approach. Transoral submandibular sialadenectomy has been described in the past, but with the advent of transoral robotic surgery, the proposal of removing the submandibular gland from the oral floor is gaining strength. A transoral robotic submandibular sialadenectomy by the Si Da Vinci Surgical Robot was performed in a 68 years’ old female patient under general anaesthesia. The transoral robotic procedure was successful with no major postoperative complications and the patient was discharged on postoperative day 2. A mild tingling of the tip of the tongue was described by the patient three months after the procedure. The surgical time took 110 minutes (100 min for robotic time). No residual submandibular gland was observed at three months ultrasonographic follow-up evaluation. The transoral robotic submandibular sialadenectomy seems to be, with selective indication based on clinical and radiological assessment, a viable and safe alternative to traditional management in patients who refuse a cervical scar and the risk of paralysis of the facial nerve.
IRSS Live Surgery Session I: TORS Using DaVinci SP System

OPERATOR
Se-Heon Kim, Yonsei University, Korea
Se-Heon Kim, MD, PhD

Demographic
Professor, Chairman & Director
Department of Otorhinolaryngology
Yonsei University College of Medicine
Director
Yonsei Head & Neck Cancer Center, Yosei Cancer Hospital
President
The Korean Society of Head and Neck Surgery, Seoul, Korea

EDUCATION
1988. 3. Received the Academic Degree of M.D. from Yonsei University College of Medicine
1995. 2. Received the Academic Degree of Master of Science from Yonsei University College of Medicine
2000. 2. Received the Academic Degree of PhD. from Yonsei University College of Medicine

POSTGRADUATE TRAINING
1988. 3-1989. 2 Intern in Severance Hospital, Yonsei University
1989. 3-1992. 2 Resident in Otolaryngology Severance Hospital, Yonsei University
1992. 3 Received the Otolaryngology and Head and Neck Surgery Board from Korean Otorhinolaryngological Society

MILITARY SERVICE

ABROAD TRAINING
1995 10.1.-1995.10.31 Institute of Logopedics & Phoniatrics Tokyo University, Tokyo, Japan
As a Special Researcher
1998.3.1-2000.3.31 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2003.5.1-2005.4.30 Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2008.2 Transoral Robotic surgery course (Basic course) University of Pennsylvania, USA
2009.2 Transoral Robotic surgery course (Advanced Course) Certification of Console surgeon
University of Pennsylvania, USA

ACADEMIC APPOINTMENT
1995. 5-1998. 2 Instructor Department of Otorhinolaryngology (H&N Division)
Yonsei University College of Medicine
1998. 3-2000.3 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2000. 4.-2006.2 Assistant Professor Department of Otorlaryngology (H&N Division)
Yonsei University College of Medicine
2003.5.-2005.4. Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2006. 3.-2010 Associate Professor Department of Otorhinolaryngology (H&N Division) Yonsei University College of Medicine
2011-Now Professor of Department of Otorhinolaryngology Yonsei University College of Medicine
2015.3-Now Director of Yonsei Head & Neck Cancer Cencer, Yonsei Cancer Hospital
2016.3-Now Chairman & Director of Department of Otorhinolaryngology Yonsei University College of Medicine
Distinguished Speaker for Transaxillary Robotic Thyroidectomy

MODERATOR
Ichiro Tateya, Kyoto University, Japan

Evolution Strategies in Trasaxillary Robotic Thyroidectomy: Italian Experience
Micaela Piccoli, Ospedale Civile Sant’Agostino Estense, Italy
Ichiro Tateya

EDUCATION
1994       M.D., Faculty of Medicine, Kyoto University
1999-2003  Ph.D., Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University

POSTGRADUATE TRAINING
1994-1995  Residency, Otolaryngology-Head and Neck Surgery, Kyoto University
1995-1998  Fellow, Otolaryngology, Shiga Medical Center for Adults
1998-1999  Fellow, Phonosurgery and Head & Neck Surgery, Kyoto University

EMPLOYMENT HISTORY AND FACULTY APPOINTMENTS
2003-2006  Postdoctoral Fellow, Department of Surgery, Division of Head & Neck, Surgery, University of Wisconsin-Madison, USA
2006-2008  Chief Physician, Department of Otolaryngology, Kyoto Katsura Hospital
2008-2013  Assistant professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2013-2019  Associate professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2019-      Professor and Chairman, Department of Otolaryngology, School of Medicine, Fujita Health University

LICENSURE AND CERTIFICATIONS
1994       Japanese Medical License Registration
1999       Board certified otolaryngologist by the ORL Society of Japan
1999       Board certified broncho-esophagologist by the Japan, Broncho-esophagological Society
2011       Certification of off-site training as a console surgeon-da Vincı Surgical System, CUHK Jockey Club Minimally Invasive Surgical Skills Centre, August 9-10.
2012       Board certified head and neck surgeon by the Japan Society for Head and Neck Surgery
2012       Certification of Advanced Course. Advanced Course for TORS in Severance Robot & MIS Center, Yonsei University, Korea, March 20-21

HONORS AND AWARDS
2004       Young Faculty Research Award, the American Laryngological Association
2005       The Broyles-Malony Award, the American Bronchoesophagological Association
2006       The Casselberry Award Honorable Mention, the American Laryngological Association
2007       1st place poster award, the American Bronchoesophagological Association
2013       Excellent paper award, Japan Head & Neck Basic Research Society
2019       1st place poster award, the American Laryngological Association

DOMESTIC MEMBERSHIP IN JAPAN
1994- Present  The Oto-Rhino-Laryngological Society of Japan
1999- Present  The Japan Laryngological Association
1995- Present  The Japan Broncho-esophagological Society
1994- Present  The Society of Practical Otolaryngology, Japan
1995- Present  The Japan Head and Neck Cancer Society

INTERNATIONAL MEMBERSHIP AND ACTIVITIES
2008- Present  Active member of American Broncho-esophagological Association (ABEA)
2017- Present  Council, International Guild of Robotic & Endoscopic Head and Neck Surgery

DISTINGUISHED SPEAKER FOR TRANSAXILLARY ROBOTIC THYROIDECTOMY

“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System” · 161
Micaela Piccoli

Micaela Piccoli was born in Rome on the 23rd of April 1967. In 1991 she graduated with first class honours. The 11st November 1996 she completed her surgical training, as resident, at the General Surgery Department of the University of Modena and she obtained a General Surgery Specialty. During this period she interested, above all, in Laparoscopic Surgery attending numerous qualified schools in Italy and abroad. From then on, she continues to be interested, above all, in all abdominal laparoscopic surgery but she begins to take a particular interest in endocrine surgery and robotic surgery.

From 2008 she is the Chief of Endocrine Surgery Unit in the OCSAE (Ospedale Civile Sant'Agostino Estense) of Modena Italy.

From April 2015 she is the Head of General, Emergency Surgery and New Technologies Unit in the same Hospital.

She is the Vice President of SIC (Italian Society of Surgery) and the Director of the Italian Mini-invasive School, organized from ACOI (Italian Hospital Surgeons Association).

She is the author of numerous publications about topics of General Surgery with special interest in Laparoscopic, Endocrine and Robotics Surgery. She performed, in September 2010, the first trans-axillary robotic thyroidectomy in Italy (with an updated case history of more than 500 treated cases). In 2019 she published the largest series of robotic transaxillary thyroidectomies in the west world. In 2012 she organized the first European course of robotic thyroid surgery, which continues every year with basic and advanced courses. She performs routinely, in Italy and abroad, tutoring and proctoring regarding advanced laparoscopic and robotic surgery.
In the past 20 years, the fast spread of new surgical technologies has reached an important peak with the advent of the robotic surgery. Many studies have been run about a cosmetic desire to avoid neck scars after thyroid surgery and this has led to the development of remote access robotic thyroidectomy (RT). Among the various RT approaches, unilateral transaxillary access is one of the most widely used, reporting excellent results in terms of feasibility and patient’s compliance. The mini-invasive technique demonstrated many potential shortcomings overcome with the robotic approach. At our institution a team of 3 skilled endocrine surgeons with experience in laparoscopic and robotic procedures performed RT. Our aim is to report our 8-year single-centre robot-assisted thyroidectomy experience, by applying a gasless unilateral transaxillary approach with the so-called hybrid technique, and to demonstrate its safety and feasibility. In the period between September 2010 and June 2018 at our institution, a total of 472 patients underwent thyroid and parathyroid transaxillary surgery. The hybrid technique was applied for all the robotic procedures. A total of 412 procedures were performed with the use of external "Modena Retractor" (CEATEC® Medizintechnik) and with 3 surgeons. According to international guidelines, our indications for robotic surgery were benign lesions with a diameter <5 cm, Graves’ disease, well-differentiated thyroid cancers, and parathyroid adenomas. In this series, a total of 449 cases were registered. General data of patients were analyzed: gender, age, body mass index, tumor size, preoperative fine-needle aspiration examination, definitive histological examination, operative time, and postoperative complications. This study confirms the application of robotic approach in thyroid surgery as a feasible technique in terms of safety and complications risk. The hybrid technique, together with a dedicated surgical team, can lead to obtaining the same outcomes of traditional anterior cervicotomic surgery, adding a scarless thyroidectomy.
Master of Surgery 3
(Video Demonstration)
(Contemporary Remote Access Thyroidectomy-I)

CHAIRMAN
Jin-Ho Sohn, Kyungpook National University, Korea

MODERATOR
Somasundaram Subramanian, Eurasian Federation of Oncology, Russia
Sukrit Bose, Apollo Gleneagles Hospitals Kolkata, India

Robotic Assisted Breast-Axillo Insufflated Thyroidectomy with Neck Dissection
Sandeep Peraje Nayak, MACS Clinic, India

Initiating a Robotic Thyroidectomy Program in India
Krishnakumar Thankappan, Amrita Institute of Medical Sciences, India

Retroauricular Robotic Total Thyroidectomy with or without Nodal Dissection
Rajeev Sharan, Tata Medical Center, India

Radiofrequency Ablation of Thyroid Nodules: Scarless Treatment Option
Woojin Cho, WITHSIM Clinic, Korea
Jin-Ho Sohn

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
2005–present  Kyungpook National University Hospital  Professor
2000–2005  Kyungpook National University Hospital  Associate Professor
1992–2000  Daegu Catholic University Hospital  Assistant Professor
Somasundaram Subramanian

Somasundaram SUBRAMANIAN, better known as Dr. Soma in Russia and abroad is a Surgical Oncologist, Founder and CEO of Eurasian Federation of Oncology and EAFO Educational & Research Center. He is the Founder of Eurasian Cancer Foundation (EACF), Eurasian Cancer Research Council (ECRC) and Eurasian Society of Head & Neck Oncology (EASHNO). He is a cancer survivor. So, he knows the challenges facing oncological science also from the patient’s point of view. He believes that education and high-quality training at all levels are the key elements for success of any society.

He was born in India in 1973 in the city of Coimbatore, Tamil Nadu, India. His father was a famous pathologist in India; his mother is an economist and worked as director of a diagnostic center. Dr. S. Subramanian moved to USSR in 1990 where he joined the preparatory faculty to learn Russian language in N. I. Pirogov State Medical Institute in the city of Vinnitsa, Ukrainian Soviet Socialist Republic. In 1991 he moved to Moscow and joined the II Moscow State Medical Institute. In 1995, for his research paper on “Enzymatic & Ultra structural changes in Skin Papillomas” [Associated with Human Papilloma Virus] presented at the Russian National Students’ Competition in Medical Sciences, he was awarded the Medal of Russian Academy of Medical Sciences.

In 1997 he obtained MD (Physician) Degree with Honours from Moscow Medical Stomatological Institute (presently A. I. Evdokimov Moscow State University of Medicine & Dentistry). Further he underwent training in the specialties of Surgery, Oncology, Maxillofacial Surgery, Otorhinolaryngology, Plastic Surgery and Public Health & Healthcare Management.

Dr. S. Subramanian has done fellowships at various leading medical centers of Asia, Europe and USA. Till April 2012 Dr. S. Subramanian served as a Surgical Oncologist and Senior Clinical Researcher at the N. N. Blokhin Russian Cancer Research Center, Moscow, Russian Federation. Meanwhile Dr. S. Subramanian served as Assistant to Director and later Director (Program Coordinator) of European School of Oncology (Russia-CIS) from 1999-2007 and 2007-2009 respectively. From July 2012 to June 2014 he served as Senior Clinical Researcher & Surgical Oncologist at the Federal Clinical & Research Center for Otorhinolaryngology, Moscow, Russian Federation. From May 2012 till November 2018 he served as consultant Surgical Oncologist at the Academician Blokhin Diveyevo District Central Hospital, Diveyevo, Nizhniy Novgorod Region, Russian Federation.

Since May 2017, he is the Principal Investigator of research projects at the Republic Clinical Cancer Hospital, Cheboksary, Chuvash Republic. He is also a visiting Surgical Oncologist at various Public (Free-charity Surgeries) and Private hospitals in Russia, Kazakhstan & Abkhazia. From January 2019 Dr. Somasundaram SUBRAMANIAN is engaged in establishing the Oncology Service of the MEDINCENTER of the GlavUpDK-Main Administration for Service to Diplomatic Corps, Russian Ministry of Foreign Affairs.

On 03 February 2016, marking the eve of the World Cancer Day, he announced the formation of the Eurasian Cancer Foundation (EACF) with the support of famous Russian Celebrities including Lev LESHCENKO (Singer), Natalya KASPESKAYA (Co-Founder of Kaspersky Anti-Virus Program) and Anatoly KARPOV (Chess Grand Master).

In July 2017 in collaboration with other colleagues from different countries, he founded the Eurasian Cancer Research Council (ECRC) to promote collaborative Basic, Translational, Clinical and Population cancer research.

His scientific and professional interests include management of head & neck cancer, thyroid cancer, melanoma, lung cancer, breast cancer, gynecologic cancers, metastases, cancer control, tobacco control, educational & research projects in oncology and allied disciplines. Dr. S. Subramanian has above 100 publications to his credit including articles in “Lancet Oncology” Journal and has taken part in more than 10 international clinical trials as a Principal Investigator or Investigator on head & neck cancer, melanomas, lung cancer and breast cancer. He has also been co-principal investigator of population studies in smokers.
Dr Sukrit Bose has passed his MBBS in year 1996 and completed his masters in ENT-Head & Neck Surgery in 2002.
He worked extensively in the field of Head & Neck Oncology in Kidwai Memorial Institute of Oncology, Bangalore and Chittaranjan National Cancer Institute, Kolkata.
He is one of the few console certified Robotic surgeons and is trained in advanced robotic surgery at Yonsei Cancer Center and Severance Hospitals, Seoul, South Korea.
His areas of interest are Minimally invasive Head neck surgery Oral and Head Neck Cancer Robotic surgery Endoscopic and skull base Surgery Laser surgery.
He is the member of the executive body of The Foundation for Head and Neck Oncology, India and also the founder member of West Bengal Head and Neck Society.
He has organised workshops in various aspects of head neck surgery and has been an invited faculty both nationally and internationally. He is presently associated with Apollo Gleneagles Hospitals Kolkata.
Sandeep Peraje Nayak

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

Jul 2012 to Dec 2017  Ast Professor, Kidwai Memorial Institute of Oncology, Bangalore, India
Feb 2012 to July 2012  Visiting Consultant*, Sekgoma Memorial Hospital, Serowe & others in Botswana
May 2011 to Jan 2012  Consultant, Grecian Super-Specialty Hospital, Sector 69, Mohali

RESEARCH INTERESTS
Minimally invasive head and neck surgery, colorectal cancer
Cancer Genetics

PUBLICATIONS
Robotic Assisted Breast-Axillo Insufflation Thyroidectomy (RABIT) - A Prospective Case Series of thyroid carcinoma

Sandeep Nayak P.
Director of Surgical Oncology, Fortis Hospitals, Bangalore, India, MACS Clinic, India

Introduction
Robotic-assisted thyroidectomy have become more acceptable in treating thyroid cancer. we evaluated the feasibility and safety of Robotic Assisted Breast-axillo Insufflation Thyroidectomy (RABIT) for differentiated thyroid cancer.

Methods
In this prospective case series, patients with differentiated thyroid carcinoma were enrolled in our hospital from Jan 2018 to Dec 2018 and underwent RABIT with five separate breast-axillo incisions. Procedures were performed after the approval from the ethical and institutional committee and obtaining inform consent from the patients. All the procedures were performed using da Vinci Xi Robotic Surgical System, a single docking method using CO2 insufflation.

Results
Twelve patients completed RABIT, in which one case needed conversion to open thyroidectomy. The mean age was 30.25 ± 7 with male to female ratio being 1: 1. Preoperative diagnosis showed papillary carcinoma (n=9) and follicular neoplasm (n=3). The mean operative time for RABIT was 140 ± 50.45 mins and average blood loss during surgery was 22.92 ± 9 mL. Mean hospital stay was 4.42 ± 1.08 days. Final pathology confirmed classical papillary thyroid carcinoma (n=10; 83.3%) and follicular variant of papillary carcinoma (n=2; 16.7%). None of the cases reported injury or paralysis to the recurrent laryngeal nerves.

Conclusion
RABIT is a safe and feasible approach for thyroidectomy. It has several advantages in that it provides similar symmetrical view to conventional open surgery and enables to maintain specimen integrity and use of assistant port permits better handling of the gland. Additionally, largest operating angles with this technique prevents collision between the robotic arms and provides excellent cosmetic satisfaction due to very small, five separate breast-axillo incisions.

Keywords
Robotic; thyroidectomy; breast-axillo approach; minimally invasive; remote-access
Krishnakumar Thankappan

Dr Krishnakumar Thankappan is presently working as Professor, Head and Neck Surgery and Oncology, Amrita Institute of Medical Sciences, Kochi, Kerala, India. He is a teacher for MCI approved MCh program in Head and Neck surgery and Oncology. His basic training is in Otolaryngology from BJ Medical College, Pune. He completed MCh in Head and Neck Surgical Oncology from Amrita Institute of Medical Sciences, Kochi and an advanced fellowship in Head and Neck Oncology from Roswell Park Cancer Institute, Buffalo, New York, USA. He also got trained in Robotic head and neck surgery from South Korea and has taken initiatives to establish a Robotic Thyroidectomy program in India.

Won the Young Investigator Award, at the Indian Co-operative Oncology network. He has more than 60 publications in international journals. He serves as a reviewer for more than 10 international journals and is the Regional Editor Asia Pacific for AO journal, Cranio-maxillary trauma and Reconstruction and Associate Editor for “Oral Cancer” Journal. Has edited two books titled “Basic Concepts in Head and Neck Surgery and Oncology” and “Dysphagia Management in Head and Neck Cancers.”
Initiating a Robotic Thyroidectomy Program in India

Dr Krishnakumar Thankappan, MS, DNB, MCh
Head and Neck Surgery and Oncology, Amrita Institute of Medical Sciences, Kochi, India

Robotic surgery has been successfully used for many surgical indications in head and neck surgery. Robotic thyroidectomy is getting accepted worldwide, but the majority of the literature is from South Korea. The purpose of the paper is to review and give a personal perspective on how a robotic thyroidectomy program was initiated in a tertiary care academic medical institution in India. Advantages of robotic approaches are the three-dimensional visualization, precision, dexterity, and surgeon ergonomics. Cost is an important concern. Training includes basic robotics skill training, cadaveric training, observership, and hands-on training. Sufficient preclinical and clinical training is essential before embarking onto the newer surgical modality. Surgeon credentialing, though institution dependent, has specific guidelines. Case selection is the key, especially in the initial learning curve. The authors prefer the retroauricular approach for robotic thyroidectomy, and our initial experience in the first ten cases of total thyroidectomy was encouraging.
Rajeev Sharan

Dr. Rajeev Sharan, an MBBS graduate of All India Institute of Medical Sciences (AIIMS), completed his MS, Surgery and Senior Residency in Surgical Oncology from AIIMS, New Delhi, India. He went on to complete his MCh in Head & Neck Surgical Oncology from Amrita Institute of Medical Sciences, Cochin, India. He has more than 17 years of exclusive experience in head and neck surgical oncology and surgical oncology, working in premier institutions like AIIMS, New Delhi and Amrita Institute of Medical Sciences, Cochin and Tata Medical Center, Kolkata.

Dr. Sharan is working as a Senior Consultant in Head Neck Surgical Oncology in Tata Medical Center, Kolkata, India, an exclusive state of art cancer center in Eastern India. He has several publications to his credit in reputed national and international journals in various aspects of head and neck oncology and microvascular reconstruction. He has special interests in advanced head and neck cancer, Transoral robotic surgery for oropharyngeal and laryngeal cancer, robotic/endoscopic thyroidectomy and neck dissection, laser surgery and other head neck cancer along with head and neck reconstruction.
Retroauricular Robotic Total Thyroidectomy with or without Nodal Dissection

Rajeev Sharan, Mohamed Abdul Kathar M, Arun Pattatheyil, Kapila Manikantan, Prateek Jain, Anant Pore
Head & Neck Surgical Oncology, Tata Medical Center, Newtown, Kolkata, India

Background
Papillary thyroid cancer is the most common type of thyroid cancer constituting 70-80% of all thyroid cancer. It is one of the most common cancer in women under the age of 25 years and its incidence has been increasing over the last decades. Neck scarring is a major concern in conventional open thyroid surgery, especially in young women. Robotic thyroidectomy has gained popularity for the treatment of thyroid tumors which minimizes surgical morbidity and avoid or hide the visible neck scarring. The safety and effectiveness of robotic thyroidectomy have been widely reported in literature. Retro auricular robotic thyroidectomy is a novel technique which has been popularized by Prof Koh et al from Korea.

Materials and Methods:
All patients presented to our head and neck out patient department with complaint of swelling in front of the neck were routinely subjected to ultrasonography of neck with guided fine needle aspiration cytology. Patients with young age, who were more concerned about the neck scar, thyroid nodule of size ≤5 cm and Bethesda classification ≥ 4 were counselled for robotic surgery. We have collected a retrospective data from prospectively maintained electronic record between December 2017 and July 2019. Patients who underwent retroauricular robotic thyroidectomy at Tata Medical Center, Kolkata were included in this study. We have analysed the duration of surgery, complication rates and hospital stay.

Results:
Total numbers of cases were nineteen, of which 13(68.4%) had papillary carcinoma, 4(21%) had NIFTP, 1(5%) case of hurthle cell adenoma and 1(5%) case of follicular adenoma. Out of 13 papillary carcinoma, 12 had total thyroidectomy and 1 underwent hemithyroidectomy, as the preop FNAC showed follicular neoplasm. Other 6 cases of follicular neoplasm underwent hemithyroidectomy. A total of 12(63%) patients underwent robotic Total thyroidectomy with or without nodal clearance by bilateral retroauricular approach and 7(37%) had robotic retroauricular hemithyroidectomy.

All patients who underwent robotic total thyroidectomy had a unilateral disease. Out of 12 robotic total thyroidectomies, ipsilateral or bilateral central compartment clearance was done in 9 patients and ipsilateral level II-IV neck dissection was also done in 4 patients. Mean console time on diseased side with or without nodal clearance was 122 min and 72 min on normal side. Mean docking time was 12 minutes. Average hospital stay was 3.2 days. None of the patients had permanent hypocalcemia. Out of 19 patients, only one patient had vocal cord paresis which improved after 8 weeks of surgery. One patient of hemithyroidectomy required conversion to open due to bleeding. All the patients were highly satisfied with cosmetic outcome.

Conclusions
Robotic total thyroidectomy with or without nodal clearance by bilateral retroauricular approach is feasible and safe in selected patients of thyroid cancer with excellent cosmetic outcome.
Woojin Cho

EDUCATION
1996 - 2002  College of Medicine, Korea University
2003 - 2005  Graduate school of Medicine, Korea University

EMPLOYMENT
2002 - 2003  Korea University Ansan Hospital (Internship)
2003 - 2007  Department of Otolaryngology-Head and Neck Surgery, Korea University
              Anam Hospital (Residentship)
2007 - 2010  Department of Emergency Medicine, Hwacheon Public Hospital (Public Health Doctor)
2010 - 2013  Department of Thyroid, Head and Neck Surgery, Dain ENT Hospital (Chief)
2013 ~ Present  Withsim Clinic (Director, CEO)

SOCIETIES (PUBLICATIONS, RESEARCH INTERESTS)
Korean Society of Otorhinolaryngology-Head and Neck Surgery
Korean Society of Thyroid, Head and Neck Surgery (Executive director, Present)
Korean Society of Laryngology, Phoniatrics and Logopedics
Korean Research Group for Head and Neck Ultrasonography (the Founder)
Korean Association of Otorhinolaryngologists
Japan Thyroid Association (JTA)
Asia Pacific Society of Thyroid Surgery (APTS)

RESEARCH INTERESTS:
- Clinical Head and Neck Ultrasound
- Ultrasonography-guided Interventions (Radiofrequency ablation & Sclerotherapy)
- Trans-Oral Ultrasound
- Core needle biopsy (Thyroid, Lymph node and Head/Neck masses)

RECENT PUBLICATIONS (RELATED TO HEAD AND NECK ULTRASOUND):
6. Sim JS, Baek JH, Cho W. Initial Ablation Ratio: Quantitative Value Predicting the Therapeutic Success of Thyroid Radiofrequency

AWARDS
Prize for Most Devoted Public Health Doctor (2008)
Best Presentation Award of This Year (2012, 11th Academy of Korean association of Otolaryngologists)
Best Presentation Award of This Year (2017, 18th Academy of Korean association of Otolaryngologists)
Radiofrequency Ablation of Thyroid Nodules: Scarless Treatment Option

Woojin Cho
WITHSIM Clinic, Korea

The treatment goals of Image-guided intervention for thyroid nodule are the relief of symptoms by reducing the nodule volume and the maintaining of symptom free status without regrowth of treated lesion. Thus, it is basically not indicated for the nodules which are not related to the patient’s discomfort even they are large. And up to now, except for few limited cases impossible to get surgery, the applications for the malignant disease and follicular neoplasm have not been established firmly. For this reason, preoperative cytopathologic and ultrasonographic evaluations are important to confirm that the target lesion is benign.

Thermal ablation is one category of it and consists of radiofrequency ablation (RFA), laser ablation, microwave ablation and high-intensity-focus-ultrasound. RFA for benign thyroid nodules have been reported to have a high efficacy with a low complication rate. Its efficacy is generally evaluated by volume reduction rate. Reported short-term results are 50-80% volume reduction at 6 months, 79-90% at 2 years, and 93% at 4 years. Recurrence rates after the procedure have been reported 5.6%. All recurrent cases showed regrowth of the incompletely treated nodule margin. For this reason, it is recommended to ablate the nodule completely to minimize recurrence. The multiple sessions are needed to get the well-ablated nodule without damaging the adjacent tissues.

In this presentation, we can discuss how to make a plan before and after thyroid RFA to reach more successful treatment goal, minimizing the recurrence and the complications.
Master of Surgery 4 (Video Demonstration) (Contemporary Remote Access Thyroidectomy-II)

**CHAIRMAN**
Bin Zhang, Cancer Institute and Hospital, China

**MODERATOR**
Ahmad Kusyairi, Universiti Teknologi MARA, Malaysia
Hyun Jun Hong, Catholic Kwandong University, Korea

**Gas-insufflation Transoral Endoscopic Thyroidectomy**
Hok Nam Li, The Chinese University of Hong Kong, Hong Kong

**Gasless Transoral Endoscopic Thyroidectomy**
Jun-Ook Park, The Catholic University of Korea, Korea

**Gasless TORT Using da Vinci SP**
Yoon Woo Koh, Yonsei University, Korea

**Transoral Endoscopic TGDC Excision**
Seung Hoon Woo, Dankook University, Korea

**Robotic & Endoscopic Transoral Thyroidectomy**
Yu Hsien Chen, Chang Gung Memorial Hospital, Keelung, Taiwan

**IONM in Transoral Thyroidectomy**
Young Jun Chai, Seoul National University, Korea
Bin Zhang, MD

EDUCATION AND QUALIFICATION
1. West China University of Medical Sciences, B.M. in Chengdu 1984
2. Peking Union Medical College, M.S. in Beijing 1990

HOSPITAL APPOINTMENTS
1. Resident & Fellowship & Attending, Dept. Of Head & Neck Surgery, Cancer Hospital, Chinese Academy of Medical Sciences (CAMS), Beijing (1984-1996)
2. Associate Professor & Professor, Department Of Head & Neck Surgery, CAMS, Beijing, (1996-2016)
3. Chief & Professor Department Of Head & Neck Surgery, Beijing Cancer Hospital, Peking University, Beijing, (2016-present)

PROFESSIONAL TRAINING
1. 1985-1986 Dept. of General surgery at Peking Union Hospital.
2. 1995 - 1996 Honorary Clinical Fellow at Oral And Maxillofacial Surgery Unit, Newcastle General Hospital and Bristol Royal Infirmary, UK

MEMBERSHIP IN SOCIETIES
1. Head & Neck Oncology Committee of Chinese Doctor Association, Chairman (2018-)
2. Head & Neck Oncology Committe of Chinese Society of Clinical Oncology (CSCO), Vice Chairman (2018-)
3. America Head and Neck Society (AHNS) : Corresponding Member
Ahmad Kusyairi

Dr. Ahmad Kusyairi Khalid graduated from National University of Ireland, Cork. He underwent basic surgical training in Ireland and subsequently returned to Malaysia where he pursued specialist training in Otorhinolaryngology - Head and Neck Surgery (ORL-HNS) in Universiti Kebangsaan Malaysia. He is currently working as a Consultant and Senior Lecturer in ORL-HNS UITM Specialist Center. He is also a certified Robotic ENT Surgeon as he completed the Da Vinci System Training as a Console Surgeon (Robotic Surgery for ORL-HNS) from the Intuitive Surgical and Yonsei University Hospital, Seoul, Korea. He has performed various Transoral Robotic Base of tongue excision for both benign and malignant cases utilizing the Da Vinci System. He also completed a clinical fellow attachment in Sleep Surgery at Singapore General Hospital and since then has set up Sleep Surgery services at UITM Specialist Center. Apart from that, he also provides various Head and Neck Oncology services at the same center after completing his clinical fellow attachment in Head and Neck Oncology Surgery.
Hyun Jun Hong

ACADEMIC POSITION
2014 - current  Associate Professor / Chairman and Director, Department of Otorhinolaryngology-Head & Neck Surgery, Catholic Kwandong University, International St. Mary’s Hospital
2010 - 2014  Clinical Assistant Professor, Department of Otorhinolaryngology, Yonsei University College of Medicine, Gangnam Severance Hospital
2008 - 2010  Head & Neck Consultant, Department of Otorhinolaryngology, Ilsan National Health Insurance Corporation Hospital

VISITING SCHOLAR ABROAD
2013  Stanford University College of Medicine
2003  Memorial Sloan Kettering Cancer Center
2003  House Ear Institute

EDUCATION
2007 - 2014  PhD, Yonsei University College of Medicine
2004 - 2006  MS, Yonsei University College of Medicine
1993 - 1999  BS, Yonsei University College of Medicine

FELLOWSHIP
2007 - 2008  H&N Surgery, Otorhinolaryngology, Yonsei University College of Medicine

RESIDENCY
2000 - 2004  Otorhinolaryngology, Yonsei University College of Medicine, Seoul, Korea

INTERNSHIP
1999 - 2000  Severance Hospital, Yonsei University College of Medicine, Seoul, Korea

SOCIETY MEMBERSHIPS: CURRENT POSTIONS
  Director of International Fellow Scholarship
  Member of Scientific committee
  Member of National Insurance
- Korean Academy of Facial Plastic and Reconstructive Surgery
  Member of Practice Guideline Committee
  Assistant General Secretary
  Member of Textbook Committee
  Director of Social Relationships
- Korean Bronchoesophagological Society
- Korean Thyroid Association
- Asian Society of Head & Neck Oncology (ASHNO):
  Secretary of President (Prof. EC Choi)
- Asia Pacific Thyroid Society (APTS)
- International Guild of Robotic & Endoscopic Head and Neck Surgery (IGREHNS)
Hok Nam Li

Dr Li graduated from the Chinese University of Hong Kong and completed fellowship training in Otorhinolaryngology, Head and Neck Surgery. He is currently Honorary Clinical Assistant Professor in the Department of Otorhinolaryngology, Head and Neck Surgery at the Prince of Wales Hospital. He underwent overseas training in Memorial Sloan Kettering Cancer Center, Toronto General Hospital, Mount Sinai Hospital, and Endoscopic / Robotic Head & Neck Thyroid Surgery training in Yonsei University Severance Hospital and Police General Hospital. Dr Li has special interest in head and neck and thyroid surgery, especially in endoscopic / robotic thyroid surgery.
Gas-Insufflation Transoral Endoscopic Thyroidectomy

Li Hok Nam
Department of Otorhinolaryngology, Head & Neck Surgery, The Chinese University of Hong Kong

Over past 100 years with the standardization of thyroid surgical technique, we can successfully perform thyroid surgery with very low complication rate. There is increasing incidence of thyroid cancer in the world and is more common among young and female patients. Adoption of remote access thyroid surgery has gained popularity in recent decades. With the advancement in technology, we can balance between surgical safety, oncological clearance and cosmetic result.

Transoral thyroid surgery is a Natural Orifice Transluminal Endoscopic Surgery (NOTES). It is a true scarless thyroid surgery. It uses a small incision in the mouth, raises short distance skin flap, with CO2 gas insufflation, and performs both side thyroidectomy and central neck dissection easily with low complication rate. Patients will have the thyroid lesion removed without any stigmata of surgery done. It is an ideal remote access thyroid surgery approach.
Jun-Ook Park

EDUCATION
1995-2001 The Catholic University of Korea, College of Medicine, Awarded M.D. degree in Medicine in February 2001, License No. 72082, Korea
2003-2005 Postgraduate school, the Catholic University of Korea (Master of medicine)

POSTGRADUATE TRAINING
2001-2002 Internship : Seoul St. Mary's Hospital, Catholic University Medical Center, Seoul, Korea
2002-2006 Resident : Department of Otolaryngology-HNS, Seoul St. Mary's Hospital, Catholic University Medical Center, Seoul, Korea

ACADEMIC AND PROFESSIONAL APPOINTMENTS
2006-2007 Military army staff surgeon, Commanding Officer of Medical Company, 39 Regiment, 15 Army Division, Korean Army
2007-2009 Military army staff surgeon, Department of Otolaryngology, Korean Army Gangnun Hospital Medical Officer
2009-2011 Clinical Instructor, Department of Otolaryngology-HNS, Seoul St. Mary's Hospital, Catholic University Medical Center, Seoul, Korea
2011-2014 Clinical Assistant Professor, Department of Otolaryngology-HNS, Seoul St. Mary's Hospital, Catholic University Medical Center, Seoul, Korea
2014-2018 Assistant Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2018-2019 Associate Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2019-present Assistant Professor, Department of Otolaryngology-HNS, Eunpyong St. Mary's Hospital, Catholic University Medical Center, Seoul, Korea
Gasless Transoral Endoscopic thyroidecтомy

Jun-Ook Park
The Catholic University of Korea, Korea

Increased incidence of thyroid cancer in young age may raise concerns about the postoperative cosmetic results. Due to the skin characteristics of Asian individuals, especially the tendency for hypertrophy, postoperative scarring is an important consideration in Asian patients. Therefore, endoscopic surgical procedures have attracted significant interest in many Asian countries, leading to the development of the transaxillary approach, the bilateral axillo-breast approach (BABA), and the retroauricular approach. Although the cosmetic outcomes of current endoscopic/robotic thyroid surgeries have been excellent, current procedures still require a large incision and extensive flap elevation. Transoral endoscopic thyroidecтомy vestibular approach (TOETVA) is a newly developed surgical method, in which all procedures are performed by inserting the endoscope through a mucosal opening in the mouth, obviating the need for a skin incision. Among its many advantages are that the TOETVA does not require a skin incision, the area of dissection is relatively small, and the method can be applied to total thyroidecтомy due to its central approach, unlike preexisting endoscopic thyroid surgery. CO2 injection and the use of an external retractor are two representative methods of retaining the working space for TOETVA. CO2 injection can provide a satisfactory working space, but it may cause CO2-related complications, such as subcutaneous emphysema, pneumothorax, pneumomediastinum, and CO2 embolism. The use of an external retractor is advantageous in that it avoids the risk of CO2-related complications, but the retractor must be inserted through the incision, often resulting in incision enlargement. No report has compared TOETVA with gasless TOETVA procedures. Based on our personal experience to date, the differences between the two approaches are summarized.
Yoon Woo Koh

Dr. Yoon Woo Koh M.D., Ph. D. is the professor of Otorhinolaryngology and professor of thyroid cancer clinic at Yonsei University College of Medicine Seoul, Korea and Chair, Endoscopic & Robotic Surgery Committee, Korean Society of Thyroid-Head and Neck Surgery. He is also serving as General Secretary of International Guild of Robotic & Endoscopic Head and Neck Surgery and Director of Research Committee, Korean Thyroid Association. He completed his training with a clinical fellowship at Yonsei University College of Medicine in Seoul, Korea.

Dr. Yoon Woo Koh is a pioneer in Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. He has substantial contribution in developing “Minimally invasive Head & Neck surgery and Thyroid surgery with Retroauricular approach” in particular. He has written over 100 original articles, book chapters regarding endoscopic and robotic Thyroid and Head & Neck surgery. He has the largest experience in the world with Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. His research interests have focused on clinical outcome research related to Thyroid and Head & Neck patients. His laboratory research focus elucidating the mechanism of crosstalk signaling after targeted therapy and Development of Treatment Platform to overcome the Drug resistance in Thyroid and Head & Neck Cancer.
Gasless TORT Using da Vinci SP

Yoon Woo Koh
Yonsei University, Korea
Seung Hoon Woo, MD, PhD

EDUCATION
1994-2000 MD., Department of Medical school, Dankook university, Chonan, Korea
2008-2013 PhD, Department of Medical school, Dankook university, Chonan, Korea

PROFESSIONAL EXPERIENCE
2001 Internship, Dankook University Hospital.
2001-2005 Resident training program, Dankook University Hospital.
2009-2013 Assistant Professor, Department of Otolaryngology
Gyeongsang national University School of Medicine, Jinju, Korea.
2014-Now Associate Professor, Department of Otolaryngology
Gyeongsang national University School of Medicine, Jinju, Korea.

LICENSES
2000. 3 Doctor of Medicine in Korea (# 69803)
2005. 3 Board of Otolaryngologist in Korea (# 2428)

AWARD
2011 The Korean Society of Laryngology, Phoniatrics and Logopedics - Best Paper Award.
2013 Korean Society of Otorhinolaryngology - Head and Neck Surgery - CEO Citation Award
2014 Gyeongsang national university - Best Researcher Award.
2014 The Korean Society of Laryngology, Phoniatrics and Logopedics - Best Academic Award.
2014 The Korean Society of Laryngology, Phoniatrics and Logopedics - Best Researcher Award.
2014 Korean Society of Otorhinolaryngology - Head and Neck Surgery - CEO Citation Award
2014 The Korean Medical Association - Best Academic Award.
2015 International ROTARY Club - Medical Volunteer Award
2015 Korean Society of Otorhinolaryngology - Head and Neck Surgery - CEO Citation Award
2015 Gyeongsang national university - This Year Professor Award.
2016 Korean Society of Otorhinolaryngology - Head and Neck Surgery - CEO Citation Award
2016 Gyeongsang national university - This Year Professor Award.
2016 Gyeongsang national university - Best Researcher of this year Award.
2016 Korean Society Head and Neck Surgery - Academic Award
2017 Albert Nelson Marquis Lifetime Achievement Award.
2018 Korean Society of Otorhinolaryngology - Head and Neck Surgery - CEO reviewer Award

PEER-REVIEWED PUBLICATIONS
Main author SCI(E) - 80 papers (- 2019. 1)
Main author domestic - 57 papers (- 2018. 6)
Transoral Endoscopic TGDC Excision

Seung Hoon Woo
Dankook University, Korea

Background
No-scar transoral thyroglossal duct cyst (TGDC) excision is a newly developed treatment for TGDC, but limited information is available regarding the clinical outcomes in children. The aim of this study was to evaluate the safety, efficacy, and effects of transoral TGDC excision in children.

Methods
Forty-four children <10 years of age received operative treatment for TGDC from January 2013 to December 2014, and follow-up was performed over 24 months. Clinicopathologic, surgical, and follow-up data were collected and analyzed. The primary outcome variable was feasibility of the procedure, and the secondary outcome was patient’s cosmetic satisfaction after each operation.

Results
Twenty-one patients underwent transoral TGDC excision, and 21 patients underwent conventional excision. No significant differences were observed between the two groups in terms of the overall patient and operation factors. However, the rate of identifying the thyroglossal duct during transoral excision was superior to that during conventional excision (p < 0.05), and cosmetic satisfaction was much better in the transoral TGDC excision group (p < 0.001).

Conclusion
No-scar transoral TGDC excision in children is a potentially safe and effective methodology that can achieve easy removal of the thyroglossal duct and excellent cosmetic outcomes.
Yu-Hsien, Chen

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
2009–2013 Resident, Linkou Chang Gung Memorial Hospital
2013–2014 Chief Resident, Linkou Chang Gung Memorial Hospital
2014– Attending Physician, Keelung Chang Gung Memorial Hospital
2017(FEB–APR) Fellowship, Police General Hospital, Bangkok, Thailand

RESEARCH INTERESTS
General surgery, Laparoscopic surgery, Robotic surgery, Endocrine surgery

PUBLICATIONS
Robotic & Endoscopic Transoral Thyroidectomy

Yu Hsien Chen
Keelung Chang Gung Memorial hospital, Taiwan

Introduction
Transoral thyroid surgery was regarded as minimally invasive surgery and provide excellent cosmetic result without any visible scar. The da Vinci robotic system provides magnified 3D HD view and wristed instruments that rotate far greater than human hand. Therefore, it could provide better peri-neural dissection. Here, we present the experience of transoral robotic thyroidectomy by a single surgeon.

Material & Method
From JAN 2018 to JUN 2018, 24 patients received transoral robotic thyroidectomy vestibular approach using da Vinci Xi for benign and malignant thyroid nodules. The robotic arms were docking through oral vestibular and right axilla. The indication includes benign thyroid nodules <8 cm and malignant thyroid nodules < 2 cm. The Surgical outcomes were retrospectively reviewed.

Results
24 patients (19 females, 5 males; mean age 41.75 ± 11.67 (range, 20-62) years) received transoral robotic thyroidectomy. 3 patients received bilateral total thyroidectomy, 6 patients received left lobectomy, 15 patients received right lobectomy. 10 cases have cancer include papillary carcinoma and papillary microcarcinoma. 2 cases have NIFTP(Noninvasive follicular thyroid neoplasm with papillary-like nuclear features). 12 cases have benign thyroid nodules. The mean operation time was 350.75 ± 92.60 mins. The mean hospital stay was 2.95 ± 1.08 days. The VAS pain score was Day0: 2.30± 0.55 ; POD1: 1.91±0.88 ; POD2: 1.91±0.82 ; POD3: 1.71±0.82. no reports of vocal cord palsy, surgical site infection or numbness of lower lip.

Conclusion
Transoral robotic thyroidectomy is a feasible natural orifice thyroid surgery with little complication and excellent cosmetic result.
Young Jun Chai, MD, PhD

EDUCATION
1999.3-2003.2 M.D, School of Medicine, Seoul National University College of Medicine, Seoul, Korea
2012.3-2014.2 Master Degree, Graduate school, Seoul National University College of Medicine, Seoul, Korea
2015.3-2017.2 Ph.D. Course, Graduate school, Seoul National University College of Medicine, Seoul, Korea

TRAINING
2003.3-2008.2 Internship & Resident Course, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2012.3-2013.2 Clinical Fellow, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2013.3-2014 Assistant Professor, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2014.3-2019.2 Assistant Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea
2019.3-present Associate Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea

NATIONAL SOCIETIES
2008-present The Korean Surgical Society, Member
2012-present The Korean Association of Endocrine Surgeons, Vice secretary
2012-present The Korean Thyroid Association, Member
2013-present The Korean Association of Robotic Surgeons, Member
2014-present Korea Intraoperative Neural Monitoring Society, Secretary
2016-present Korean Society of Head and Neck Oncology, Member

INTERNATIONAL SOCIETIES
2012-present International Society of Oncoplastic Endocrine Surgeons, Member
2014-present Intraoperative Neural Monitoring Study Group, Member
2016-present Journal Clinics in Oncology- Head and Neck Oncology, Editorial Board
2019-present American Head and Neck Society, Member

INTERNATIONAL CONFERENCE PRESENTATION
- Expression of the embryonic morphogen Nodal in differentiated thyroid carcinomas: Immunohistochemistry assay in tissue microarray and The Cancer Genome Atlas data analysis. Oral Presentation at the 35th Annual Meeting of the American Association of Endocrine Surgeons, Boston, April 2014
- Upregulation of SLC2 (GLUT) family genes is related to poor survival outcomes in papillary thyroid carcinoma: Analysis of data from The Cancer Genome Atlas. Oral Presentation at the 37th Annual Meeting of the American Association of Endocrine Surgeons, Baltimore, April 2016
- Ultrasound image analysis using artificial intelligence for the diagnosis of thyroid nodules. Poster Presentation at the 39th Annual Meeting of the American Association of Endocrine Surgeons, Durham, April 2018
IONM in Transoral Thyroidectomy

Young Jun Chai
Seoul National University, Korea

Intraoperative neuromonitoring (IONM) is a technique which helps surgeons to identify recurrent laryngeal nerve (RLN) and to evaluate its functional integrity. IONM is more beneficial in difficult cases such as re-do surgery, large thyroid nodule, invasive thyroid cancer, or bifurcated RLN than in routine surgery.

Transoral approach for thyroid surgery typically uses three vestibular incisions. The operative view is cephalo-caudal direction which is unfamiliar to surgeons who are used to open thyroid surgery. There are several reasons why the identification of the RLN is more difficult during transoral approach than conventional open surgery. Firstly, the RLN should be found near the Berry’s ligament, which may be more difficult than finding the nerve at more caudal area. Soft tissue near the Berry’s ligament is tough and there are small vessels which can easily contaminate operative filed when injured. Therefore, thyroid gland tends to be retracted hard, which may cause tractional injury. Another additional risk during transoral approach is that surgeon can mistake a sensory branch of the RLN for a motor branch, and injure the motor branch unless all of the two branches are well visualized. Confirmation of the motor branch with nerve stimulator and visualize the nerve to more caudal side is essential step before resection of the surrounding tissue.

In summary, using IONM during transoral thyroidectomy is essential to minimize the RLN injury because the identification of the RLN is more difficult compared to open surgery as well as preservation of its function.
9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM
“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”

Keynote Lecture 14

MODERATOR
Subramania Iyer, Amrita Institute of Medical Sciences, India

Robotic and Endoscopic Thyroid Surgery: Advance of Transoral Approach
Kyung Tae, Hanyang University, Korea
Subramania Iyer

Dr Subramania Iyer had higher surgical training in head and neck surgery and Plastic surgery from the All India Institute of Medical Sciences New Delhi, Medical College Calicut and various centers in the United Kingdom. He did fellowship training in Craniofacial surgery in Mexico City with Dr Ortiz Monasterio, in laryngeal cancer surgery in Center Oscar Lambrette, Lille with Prof Lefebvre, Tissue engineering in Rice University, Houston with Prof Antonios Mikos. He also underwent training in Robotic surgery in Korea and Endoscopic Thyroid surgery in Vietnam.

He initiated the plastic surgery and head and neck surgery departments at the at Amrita Institute of Medical sciences Kochi holding currently the position of Professor and Chairman Plastic/Reconstructive surgery / Head and Neck surgery/ CranioMaxillofacial surgery. He is a PhD guide in Amrita University. He took lead in organizing structured training programme for head and neck surgical oncology in the country. He has trained over 400 surgeons in microvascular head and neck reconstruction so far.

He officiated as the president of Indian Society of Facial Plastic surgery the FHNO (Indian Head and Neck society) and Association of Plastic surgeons of India. He is the past secretary of the Indian society of Microsurgery and the FHNO. He is serving as the President of Eurasian Association of Head and Neck oncology.

He led the team which carried out the first two double hand transplants / double forearm / upper arm transplants in south Asia. The team also did the first tracheal allotransplant in India. His team won the best surgical team of south Asia in 2015 awarded by the BMJ.
Kyung Tae, MD, PhD

CURRENT APPOINTMENT
- Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Hanyang University, Seoul, Korea
- Director, Hanyang University Hospital Cancer Center, Seoul, Korea
- Secretary-General, Asia-Pacific Society of Thyroid Surgery (APTS)
- Vice President, International Guild of Robotic & Endoscopic Head and Neck Surgery

EDUCATIONAL EXPERIENCE
1979 - 1985. Hanyang University, School of Medicine, Seoul, Korea (MD)
1992 - 1995. Hanyang University, School of Medicine, Seoul, Korea (PhD)
Aug 1998 - Jul 2000 Postdoctoral fellowship, Department of Thoracic/Head and Neck Medical Oncology, The University of Texas M.D. Anderson Cancer Center, Houston, Texas

ACADEMIC SOCIETY COMMITTEES
President, Korean Society of ORL-HNS (2014-2015),
Vice President, Korean Thyroid Association
Director, Resident training Committee, Korean Society of ORL-HNS,
Editor, Korean Society of ORL-HNS,
Editor, Korean Society for Head and Neck Oncology,
General Secretary, Korean Society of Head and Neck Surgery
General Secretary, Korean Society for Head and Neck Oncology,
Board member of Korean Cancer Association
Board member of Korean Society of Laryngology, Phoniatrics and Logopedics
Board member of Korean Society of Broncoesophagology
Board member of Korean Society of Head and Neck Surgery
Board member of American Head and Neck Society

MAJOR INTEREST
Thyroid/Parathyroid Surgery, Head and Neck Oncology, Robotic Surgery

PUBLICATIONS
250 Articles including 100 SCI/SCIE Journal
Robotic and Endoscopic Thyroid Surgery: Advance of Transoral Approach

Kyung Tae
Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Hanyang University, Seoul, Korea

To hide neck scarring and improve postoperative cosmesis, various remote access thyroidectomy procedures via axillary, breast, postauricular facelift or transoral approaches have been developed in the past 20 years. Each procedure has its own advantage and disadvantages. Actually, it is difficult to conclude what is the best method. Therefore, we need to understand advantages and disadvantages of various endoscopic/robotic thyroid surgery. However, recently, transoral thyroidectomy has been increasingly adopted, and it is considered a form of true natural orifice transluminal endoscopic surgery (NOTES). It is less invasive than the transaxillary approach, BABA, and the facelift approach because the dissection area for the working space is smaller. In addition, it makes it easier to perform total thyroidectomies than the transaxillary and facelift approaches because it provides midline access to both thyroid lobes.

Transoral thyroidectomy includes the sublingual approach, the oral vestibular approach, and other modifications with or without CO2 insufflation. Of these, the oral vestibular approach has been most popular. The feasibility and safety of transoral robotic thyroidectomy in properly selected patients has been reported.

In this session, I would like to present the history and evolution of robotic and endoscopic thyroid surgery, and also current status and advances in transoral thyroidectomy.
Lesson Learned from 1700 Cases of 5 Years Experience of Transoral Endoscopic Thyroidectomy

Angkoon Anuwong, Siam University, Thailand
Soon Yuhl Nam, MD, PhD

Professor Department of Otolaryngology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

Director, Thyroid and Head and Neck Cancer Center, Asan Medical Center, Seoul, Korea

Board Director, Korea Foundation for International Healthcare, Seoul, Korea

EDUCATIONAL EXPERIENCE

3/1977 ~ 2/1979 Premedical Course, College of Liberal Arts & Sciences, Kyung Pook University, Taegu, Korea
3/1979 ~ 2/1983 College of Medicine, Kyung Pook National University, Taegu, Korea (M.D.)
1986 Graduate School, Kyung Pook National University, Taegu, Korea (M.D.)
1992 Graduate School, Kyung Pook National University, Taegu, Korea (Ph.D.)

POSTGRADUATE TRAINING

2/1983 ~ 2/1984 Intern, Kyung Pook National University, Taegu, Korea
3/1984 ~ 2/1987 Resident, Department of Otolaryngology-Head and Neck Surgery, Kyung Pook National University, Taegu, Korea
6/1994 ~ 5/1995 Research Fellow, Department of Otolaryngology, Vanderbilt University, M.C. TN Nashville. USA

ACADEMIC APPOINTMENTS

09/2012 ~ Present Head Professor & Chiarman of Otolaryngology Univ., of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea
10/2004 ~ present Professor of Otolaryngology Univ., of Ulsan College of Medicine, Seoul, Korea
10/1999 ~ 09/2004 Associate Professor of Otolaryngology Univ., of Ulsan College of Medicine, Seoul, Korea
07/1995 ~ 09/1999 Assistant Professor of Otolaryngology Univ., of Ulsan College of Medicine, Seoul, Korea
10/1990 ~ 05/1994 Kang Pook Samsung Hospital Otolaryngology Staff
04/1990 ~ 10/1990 Kwak’s Hospital Otolaryngology Chairman
Angkoon Anuwong, MD, FRCST

EDUCATION
1998 - 2004 Faculty of Medicine, Chiangmai University, Chiangmai, Thailand, Doctor of Medicine
2007 - 2011 Residency training in General Surgery, Rajavithi Hospital, Bangkok, Thailand, Diploma in Thai Board of General Surgery
2012 Clinical Fellow in Minimally Invasive Surgery, Rajavithi Hospital, Bangkok, Thailand, Certificate in MIS
2012 International Fellowship of Robotic and Laparoscopic colorectal surgery, Korea University Anam Hospital, Seoul, South Korea
2013 International Fellow, Bariatric, Metabolic & Minimally Invasive Surgery Training Program, University of Minnesota, Minneapolis, Minnesota, USA
2014 Visiting Fellow, Endoscopic Thyroidectomy Training Program, The First Affiliated Hospital of Jinan University, Guangzhou, China

ADDITIONAL TRAINING
2007 Advanced Cardiac Life Support (ACLS), Bangkok, Thailand
2008 Ambulatory Trauma Care, Bangkok, Thailand
2009 Advanced Trauma Life Support (ATLS) Student Course Bangkok, Thailand
2010 1st Laparoscopic Surgery Workshop, Bangkok, Thailand
2011 Basic Endoscopic Workshop, Bangkok, Thailand
2012 2nd Laparoscopic Surgery Workshop, Bangkok, Thailand
2013 3rd Laparoscopic Surgery Workshop, Bangkok, Thailand
2014 International Laparoscopic Colectomy Workshop, Bangkok, Thailand
2015 4th International Endoscopic Thyroidectomy Workshop, Bangkok, Thailand
2016 The 3rd international Hands-on Workshop in Soft Cadaver in Bariatric Surgery, Bangkok, Thailand
2013 Advanced Trauma Life Support (ATLS) Instructor Course, Bangkok, Thailand
2014 Advanced Surgical Skills for Exposure in Trauma (ASSET) Student Course, Bangkok, Thailand
2014 - Endoluminal and Laparoscopic Bariatric and Metabolic Surgery Course, ASIA IRCAD-Taiwan, Lukang, Taiwan

PROFESSIONAL EXPERIENCE
2004 - 2005 General Practitioner (Internship), Lampang Hospital, Lampang, Thailand
2005 - 2007 General Practitioner (Acting Director), Maeprik Hospital, Lampang, Thailand
May 2013 Department of Surgery, Rajavithi Hospital, Rangsit University, Bangkok, Thailand
October 2013 Minimally Invasive Surgery Division, Department of Surgery, To present Police General Hospital, Bangkok, Thailand
March 2016 Visiting Professor of Endocrine Surgery, Department of Surgery, Yale University School of Medicine, Connecticut, USA
February 2017 Visiting Professor of Endocrine Surgery, Department of Surgery, Mount Sinai Beth Israel, Icahn School of Medicine, New York, USA
Visiting Professor of Endocrine Surgery, Department of Surgery, University of California, San-Francisco (UCSF), USA
Lesson learned from 1700 cases of 5 years experience of Transoral Endoscopic Thyroidectomy

Angkoon Anuwong
Department of Surgery, Police General Hospital, Bangkok, THAILAND.

Endoscopic thyroidectomy has become accepted over the past 10 years. Various approaches and techniques have been invented and performed. The aim of endoscopic thyroidectomy is to prevent the neck scar but it still has the scar on the skin incision of each approach. We performed the transoral endoscopic thyroidectomy vestibular approach (TOETVA) which is the NOTES (Natural Orifice Transluminal Endoscopic Surgery) thyroid surgery. Since March 2014 to present day, we performed over 1,700 cases of the transoral endoscopic thyroidectomy vestibular approach operation. The inclusion criteria were a benign tumor of less than 10 cm in diameter, a malignant thyroid nodule of less than 1 cm with no evidence of metastasis. The patient was in supine position under nasotracheal intubation. We used a three-port technique, one 12-mm port for a rigid laparoscope and two additional 5-mm ports for instruments. These were inserted through the oral vestibule under inferior lip. The CO₂ insufflation pressure was set at 6 mmHg. An anterior cervical subplatysmal space was created from the oral vestibule down to sternal notch. This method provides an excellent cranio-caudal view.

The thyroid glands were exposed and dissected using both ultrasonic device and monopolar coagulator. The recurrent laryngeal nerves as well as parathyroids were revealed and preserved. Surgical drain was placed only in total thyroidectomy. The oral vestibule incisions were closed using polyglactin 4/0. Average pain score was 3/10 on day 1 postoperatively and the patient had no pain at all from day 2 after surgery. The patients were discharged on day 2 or 3 postoperatively.

Transoral endoscopic thyroidectomy vestibular approach was found to be safe and feasible and results in absolutely no visible scaring. However, there are some points to be carefully performed to prevent complications.
IRSS Live Surgery Session II: TORT Using DaVinci SP System

OPERATOR
Yoon Woo Koh, Yonsei University, Korea
Dr. Yoon Woo Koh M.D., Ph. D. is the professor of Otorhinolaryngology and professor of thyroid cancer clinic at Yonsei University College of Medicine Seoul, Korea and Chair, Endoscopic & Robotic Surgery Committee, Korean Society of Thyroid-Head and Neck Surgery. He is also serving as General Secretary of International Guild of Robotic & Endoscopic Head and Neck Surgery and Director of Research Committee, Korean Thyroid Association. He completed his training with a clinical fellowship at Yonsei University College of Medicine in Seoul, Korea.

Dr. Yoon Woo Koh is a pioneer in Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. He has substantial contribution in developing “Minimally invasive Head & Neck surgery and Thyroid surgery with Retroauricular approach” in particular. He has written over 100 original articles, book chapters regarding endoscopic and robotic Thyroid and Head & Neck surgery. He has the largest experience in the world with Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. His research interests have focused on clinical outcome research related to Thyroid and Head & Neck patients. His laboratory research focus elucidating the mechanism of crosstalk signaling after targeted therapy and Development of Treatment Platform to overcome the Drug resistance in Thyroid and Head & Neck Cancer.
Distinguished Speaker for Transoral Thyroidectomy in US

MODERATOR
Kwang Hyun Kim, Bundang Jesaeng Hospital, Korea

Thyroid 2020: Scarless Surgery, Surgery-Less treatment
Jonathon O. Russell, Johns Hopkins School of Medicine, USA
Kwang Hyun Kim

Dr. Kwang Hyun Kim was born on October 19, 1947 in Seoul, Korea and graduated Seoul National University College of Medicine in 1972. He finished his resident training in the Department of Otolaryngology, Seoul National University Hospital in 1977. He became a faculty member of Department of Otolaryngology at the Seoul National University Hospital in 1983.

He studied head and neck surgery for 2 years in Bonn University in Germany from 1985 to 1987. After return to Korea, he founded the Korean Society of Head and Neck Surgery in 1990. He was the President of the 4th World Congress of IFHNOS held in Seoul, Korea in 2010. He retired from the Seoul National University Hospital in 2017 and now he is working at the Bundang Jesaeng Hospital in Seongnam, Kyunggido. He is still active in head and neck surgery.

He was the honorary chairman of the 6th Congress of Asian Society of Head and Neck Oncology which was held in Seoul in 2019 and received Lifetime Achievement Award at this Congress.
Jonathon O. Russell, M.D.

CURRENT APPOINTMENTS
Assistant Professor, Johns Hopkins Department of Otolaryngology-Head & Neck Surgery
Active Staff, Johns Hopkins Hospital
Active Staff, Howard County General Hospital
Courtesy Staff, Johns Hopkins Bayview Hospital

LANGUAGES
English: Native; Spanish: Fluent, near-Native; Portuguese: Fluent; Guarani: Fluent

EDUCATION AND TRAINING

Undergraduate
2000-2006  B.S., Exercise and Wellness, Arizona State University, summa cum laude

Doctoral
2006-2010  M.D., Case Western Reserve University School of Medicine

Post-doctoral
2010-2011 Surgical internship, The Cleveland Clinic
2011-2015  Resident, Otolaryngology-Head & Neck Surgery, The Cleveland Clinic

PROFESSIONAL EXPERIENCE
2015-2016  Instructor, Division of Head and Neck Endocrine Surgery, Johns Hopkins School of Medicine.
2016-present  Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins School of Medicine.
2017-present  Director of Endoscopic and Robotic Thyroid and Parathyroid Surgery, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins School of Medicine
Co-Director of Head and Neck Endocrine Surgery Fellowship
2018-present  Epic Champion, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins University School of Medicine
2018-present  Co-Director, Ambulatory Clinical Informatics Committee, Johns Hopkins Hospital
2019-present  Chair, Technology Committee, Endocrine Section, American Head and Neck Society
2019-present  Director, Multi-Disciplinary Thyroid Tumor Center, Johns Hopkins Hospital

AWARDS
1999-2006  Presidential Scholar, Arizona State University
2004-2005  “Top 10 In-Store Personal Banker”, JPMorgan Chase Bank, NA
2005  Governor’s Special Recognition, Arizona Governor Janet Napolitano
2005  Outstanding Graduating Senior, Arizona State University
2010  Alpha Omega Alpha Medical Honor Society, Case Western Reserve University School of Medicine
2017  Top Box Leader, Johns Hopkins Otolaryngology-Head and Neck Surgery (highest patient satisfaction scores of all department clinicians Jan 2017-June 2017)
THYROID 2020: SCARLESS SURGERY, SURGERY-LESS TREATMENT

Jonathon O. Russell
Johns Hopkins School of Medicine, USA

Over the last 20 years, the indolent nature of thyroid pathology has been explored and verified repeatedly. These findings have allowed clinicians to focus on minimizing the morbidity of treatment by doing less surgery and doing this surgery with less morbidity. In addition to technologic advancements, various techniques have appeared which allow for treatment of thyroid lesions with no subsequent cutaneous incisions. Using laparoscopic and robotic instrumentation has resulted in improved cosmesis for appropriately selected patients. Furthermore, additional options such as radiofrequency ablation allow patients the opportunity to decrease symptoms without requiring general anesthesia or even surgery. Our research suggests that the absence of a cutaneous incision results in less attention distraction when compared to patients who have a cervical incision.

Historically, these approaches have been championed in Far Eastern populations such as South Korea and Thailand. More recently, however, our group and others have demonstrated that these techniques can safely be applied to Western populations. Furthermore, we have demonstrated that more than 50% of patients may be candidates for these approaches.

As these techniques become more popular worldwide, it is expected that further innovations will occur as experience and facility improves. It is quite possible that the next 10 years will demonstrate a persistent shift away from the standard Kocher incision in favor of less visible options.
Thyroid Tumor: Transoral Endoscopic vs Transoral Robotic vs Non-Transoral Thyroidectomy

MODERATOR
Ralph P Tufano, The Johns Hopkins University, USA
Angkoon Anuwong, Siam University, Thailand

PANELIST
Yi Fan Chou, Taichung TzuChi Hospital, Hong Kong
Kyung Tae, Hanyang University, Korea
Jun-Ook Park, The Catholic University of Korea, Korea
Hok Nam Li, The Chinese University of Hong Kong, Hong Kong
Rajeev Sharan, Tata Medical Center, India
Mudit Agarwal, Max Cancer Center, Max superspeciality Hospital, India
Krishnakumar Thankappan, Amrita Institute of Medical Sciences, India
Guk Haeng Lee, Korea Cancer Center Hospital, Korea
Bon Seok Koo, Chungnam National University, Korea
Yong Tae Hong, Chonbuk National University, Korea
Hyun Jun Hong, Catholic Kwandong University, Korea
Seung-Won Lee, Soonchunhyang University, Korea
Yu Hsien Chen, Chang Gung Memorial Hospital, Keelung, Taiwan
Young Jun Chai, Seoul National University, Korea
Ralph P. Tufano, MD, MBA, FACS

EDUCATION AND TRAINING
1987 - 1991 B.S. State University of New York at Binghamton (Biology)
1991 - 1995 M.D. State University of New York at Buffalo School of Medicine and Biomedical Sciences
1995 - 1996 Surgical Internship, Hospital of the University of Pennsylvania, Philadelphia, PA
1996 - 2000 Resident in Otorhinolaryngology-Head and Neck Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA
2000 - 2001 Fellow in Head and Neck Surgical Oncology, Johns Hopkins Hospital, Baltimore, MD
2008 - 2009 Johns Hopkins Carey Business School Graduate Certificate in Health Services Management
2008 - 2011 Johns Hopkins Carey Business School, MBA in Health Services Management

PROFESSIONAL EXPERIENCE
7/2001 - 11/2006 Assistant Professor of Otolaryngology-Head and Neck Surgery Johns Hopkins University School of Medicine
11/2006 - 7/2012 Associate Professor of Otolaryngology-Head and Neck Surgery Johns Hopkins University School of Medicine
1/2009 - present Institutional Claims Committee
7/2009 - 1/2016 Director of the Johns Hopkins Hospital Multidisciplinary Thyroid Tumor Center Johns Hopkins University School of Medicine
4/2012 - present Director of the Division of Head and Neck Endocrine Surgery Johns Hopkins University School of Medicine
7/2012 - present Professor of Otolaryngology-Head and Neck Surgery Johns Hopkins University School of Medicine
11/2012 - present Charles W. Cummings M.D. Endowed Professorship Johns Hopkins University School of Medicine
11/2012 - present Director of the Fellowship in Head and Neck Endocrine Surgery Johns Hopkins University School of Medicine
1/2014 - 1/2016 Surgical Director of 23 hr/Extended Recovery Unit Initiative Johns Hopkins Hospital
6/2015 - present Chair of the Department’s Finance, Compensation and Incentive Committee
1/2016 - present Director of Bundled Care Initiative for Thyroid and Parathyroid Surgery
Angkoon Anuwong, MD, FRCST

EDUCATION
1998 - 2004 Faculty of Medicine, Chiangmai University, Chiangmai, Thailand, Doctor of Medicine
2007 - 2011 Residency training in General Surgery, Rajavithi Hospital, Bangkok, Thailand, Diploma in Thai Board of General Surgery
2012 Clinical Fellow in Minimally Invasive Surgery, Rajavithi Hospital, Bangkok, Thailand, Certificate in MIS
2012 International Fellowship of Robotic and Laparoscopic colorectal surgery, Korea University Anam Hospital, Seoul, South Korea
2013 International Fellow, Bariatric, Metabolic & Minimally Invasive Surgery Training Program, University of Minnesota, Minneapolis, Minnesota, USA
2014 Visiting Fellow, Endoscopic Thyroidectomy Training Program, The First Affiliated Hospital of Jinan University, Guangzhou, China

ADDITIONAL TRAINING
2007 Advanced Cardiac Life Support (ACLS), Bangkok, Thailand
2008 Ambulatory Trauma Care, Bangkok, Thailand
2010 Advanced Trauma Life Support (ATLS) Student Course Bangkok, Thailand
2011 1st Laparoscopic Surgery Workshop, Bangkok, Thailand
2012 Basic Endoscopic Workshop, Bangkok, Thailand
2012 2nd Laparoscopic Surgery Workshop, Bangkok, Thailand
2013 3rd Laparoscopic Surgery Workshop, Bangkok, Thailand
2014 International Laparoscopic Colectomy Workshop, Bangkok, Thailand
2014 4th International Endoscopic Thyroidectomy Workshop, Bangkok, Thailand
2014 The 3rd international Hands-on Workshop in Soft Cadaver in Bariatric Surgery, Bangkok, Thailand
2013 Advanced Trauma Life Support (ATLS) Instructor Course, Bangkok, Thailand
2013 Advanced Surgical Skills for Exposure in Trauma (ASSET) Student Course, Bangkok, Thailand
2014 - Endoluminal and Laparoscopic Bariatric and Metabolic Surgery Course, ASIA IRCAD-Taiwan, Lukang, Taiwan

PROFESSIONAL EXPERIENCE
2004 - 2005 General Practitioner (Internship), Lampang Hospital, Lampang, Thailand
2005 - 2007 General Practitioner (Acting Director), Maeprik Hospital, Lampang, Thailand
May 2013 Department of Surgery, Rajavithi Hospital, Rangsit University, Bangkok, Thailand
October 2013 Minimally Invasive Surgery Division, Department of Surgery, To present Police General Hospital, Bangkok, Thailand
March 2016 Visiting Professor of Endocrine Surgery, Department of Surgery, Yale University School of Medicine, Connecticut, USA
February 2017 Visiting Professor of Endocrine Surgery, Department of Surgery, Mount Sinai Beth Israel, Icahn School of Medicine, New York, USA
Visiting Professor of Endocrine Surgery, Department of Surgery, University of California, San-Francisco (UCSF), USA
YiFan Chou

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
Education:
National Taiwan University, Master of Medical Science, Taipei, Taiwan, 2011-2013
Tzu-Chi University, Hualien, Taiwan, 1999-2006
Experience
Lecturer of Tzu-chi University 2014-2019
Department of otolaryngology, head and neck surgery, Taichung Tzu-Chi Hospital, Buddhist Tzu-Chi Medical Foundation, 2012-2019
Global online Fellowship on Head and Neck Surgery and oncology 2015-2017, IFHNOS
Residency and fellowship (2007-2012):
Department of Otolaryngology, Head and neck surgery, Taipei Tzu-chi Hospital, Buddhist Tzu-chi Medical Foundation, 2007-2012,

RESEARCH INTERESTS
-Head and neck oncology
-Otology

PUBLICATIONS
Kyung Tae, MD, PhD

CURRENT APPOINTMENT
- Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Hanyang University, Seoul, Korea
- Director, Hanyang University Hospital Cancer Center, Seoul, Korea
- Secretary-General, Asia-Pacific Society of Thyroid Surgery (APTS)
- Vice President, International Guild of Robotic & Endoscopic Head and Neck Surgery

EDUCATIONAL EXPERIENCE
1979 - 1985. Hanyang University, School of Medicine, Seoul, Korea (MD)
1992 - 1995. Hanyang University, School of Medicine, Seoul, Korea (PhD)
Aug 1998 - Jul 2000 Postdoctoral fellowship, Department of Thoracic/Head and Neck Medical Oncology, The University of Texas M.D. Anderson Cancer Center, Houston, Texas

ACADEMIC SOCIETY COMMITTEES
President, Korean Society of ORL-HNS (2014-2015),
Vice President, Korean Thyroid Association
Director, Resident training Committee, Korean Society of ORL-HNS,
Editor, Korean Society of ORL-HNS,
Editor, Korean Society for Head and Neck Oncology,
General Secretary, Korean Society of Head and Neck Surgery
General Secretary, Korean Society for Head and Neck Oncology,
Board member of Korean Cancer Association
Board member of Korean Skull Base Society
Member of American Head and Neck Society

MAJOR INTEREST
Thyroid/Parathyroid Surgery, Head and Neck Oncology, Robotic Surgery

PUBLICATIONS
250 Articles including 100 SCI/SCIE Journal
Jun-Ook Park

EDUCATION
1995-2001 The Catholic University of Korea, College of Medicine, Awarded M.D. degree in Medicine in February 2001, License No. 72082, Korea
2003-2005 Postgraduate school, the Catholic University of Korea (Master of medicine)

POSTGRADUATE TRAINING
2001-2002 Internship : Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul,Korea
2002-2006 Resident : Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea

ACADEMIC AND PROFESSIONAL APPOINTMENTS
2006-2007 Military army staff surgeon, Commanding Officer of Medical Company, 39 Regiment, 15 Army Division, Korean Army
2007- 2009 Military army staff surgeon, Department of Otolaryngology, Korean Army Gangnun Hospital Medical Officer
2009-2011 Clinical Instructor, Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
2011 - 2014 Clinical Assistant Professor, Department of Otolaryngology-HNS, Seoul St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
2014-2018 Assistant Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2018-2019 Associate Professor, Department of Otolaryngology-HNS, Haeundae Paik Hospital, Inje University Medical Center, Busan, Korea
2019-present Assistant Professor, Department of Otolaryngology-HNS, Eunpyong St. Mary’s Hospital, Catholic University Medical Center, Seoul, Korea
Hok Nam Li

Dr Li graduated from the Chinese University of Hong Kong and completed fellowship training in Otorhinolaryngology, Head and Neck Surgery. He is currently Honorary Clinical Assistant Professor in the Department of Otorhinolaryngology, Head and Neck Surgery at the Prince of Wales Hospital. He underwent overseas training in Memorial Sloan Kettering Cancer Center, Toronto General Hospital, Mount Sinai Hospital, and Endoscopic / Robotic Head & Neck Thyroid Surgery training in Yonsei University Severance Hospital and Police General Hospital. Dr Li has special interest in head and neck and thyroid surgery, especially in endoscopic / robotic thyroid surgery.
Rajeev Sharan

Dr. Rajeev Sharan, an MBBS graduate of All India Institute of Medical Sciences (AIIMS), completed his MS, Surgery and Senior Residency in Surgical Oncology from AIIMS, New Delhi, India. He went on to complete his MCh in Head & Neck Surgical Oncology from Amrita Institute of Medical Sciences, Cochin, India. He has more than 17 years of exclusive experience in head and neck surgical oncology and surgical oncology, working in premier institutions like AIIMS, New Delhi and Amrita Institute of Medical Sciences, Cochin and Tata Medical Center, Kolkata.

Dr. Sharan is working as a Senior Consultant in Head Neck Surgical Oncology in Tata Medical Center, Kolkata, India, an exclusive state of art cancer center in Eastern India. He has several publications to his credit in reputed national and international journals in various aspects of head and neck oncology and microvascular reconstruction. He has special interests in advanced head and neck cancer, Transoral robotic surgery for oropharyngeal and laryngeal cancer, robotic/endoscopic thyroidectomy and neck dissection, laser surgery and other head neck cancer along with head and neck reconstruction.
Mudit Agarwal

QUALIFICATION
1986 I.C.S.E., I.C.S.E.
1988 I.C.S.E., I.C.S.E.
1991 MBBS 1st Proff., IMS Banaras Hindu University
1993 2nd Proff., -----Do-----
1996 3rd Proff., -----Do-----
1998 Dec M.S. (Gen. Surg), -----Do-----
2003 Mch (Surg.Oncology), Kidwai Memorial Institute of Oncology, Bangalore
2006 MRCS (Edin.), Royal College Of Surgeons Of Edinburgh (UK)

CLINICAL/TEACHING/RESEARCH EXPERIENCE
- Compulsory Rotatory Internship from 17-1-1995 to 16/1/96 in S.S.H., B.H.U.
- Three years of clinical and research experience as junior resident (Jan 96 to Dec 98) at B.H.U.
- One year as resident surgeon in dept. of surgical oncology at Kidwai Memorial Oncology Bangalore.
- Three years as Mch resident.
- Two months observership in Head & Neck unit at Tata Memorial hospital.
- Worked as Consultant Surgical Oncologist from 3rd Feb 2004 to 24th may 2006 at Jawaharlal Nehru Cancer & Research Hospital, Bhopal which is one of the premier cancer institute of Central India.
- Worked as Assistant Prof. In Dept. Of Surgical Oncology, Gujarat Cancer & Research Hospital, Ahmedabad since 25th may 2006- dec 2007.
- UICC FELLOWSHIP FEB 2008 - NATIONAL UNIVERSITY HOSPITAL ,SINGAPORE, FOR PROJECT IN HEAD & NECK CANCER-SALVAGE NASOPHARYNGECTOMY
- JOINED 2008- OCT 2013 DHARAMSHILA HOSPITAL & RESEARCH CENTER AS SR. CONSULTANT - SURGICAL ONCOLOGY
- JOINED MAX SUPERSPECIALITY HOSPITAL,PATPARGANJ, DELHI AS HOD- HEAD & NECK SURGICAL IN OCT 2013 ONCOLOGIST, PROMOTED TO ASSOCIATE DIRECTOR till feb 2018
- Joined AS SENIOR HEAD NECK SURGICAL ONCOLOGIST AT RAJIV GANDHI CANCER HOSPITAL AND RESEARCH CENTRE, DELHI AND PRESENTLY WORKING HERE

ADVANCED TRAINING IN HEAD & NECK SURGERY AT INTERNATIONAL CENTRES OF EXCELLENCE
Has been trained in
1. MINIMALLY INVASIVE THYROID SURGERY - National Endocrine Hospital, Hanoi, Vietnarn 2014 with Prof. Luong,
2. TRANSORAL ENDOSCOPIC LASER SURGERY at Genoa Italy-2014 with Prof. Paretti,
3. HEAD & NECK ROBOTIC SURGERY Severance Hospital, Yousei University, Seoul, Korea Feb 2016 with Prof Yoon Woo Koh,
4. LATERAL SKULL BASE SURGERY COURSE November 2017 at Gruppo Otologica, Piacenza, Italy, Prof Mario Sanna,performing Robotic and endoscopic assisted head neck surgery.
- Elected in National executive committee of IASO, Indian Association of Surgical Oncology in Nov -2017
Krishnakumar Thankappan

Dr Krishnakumar Thankappan is presently working as Professor, Head and Neck Surgery and Oncology, Amrita Institute of Medical Sciences, Kochi, Kerala, India. He is a teacher for MCI approved MCh program in Head and Neck surgery and Oncology. His basic training is in Otolaryngology from BJ Medical College, Pune. He completed MCh in Head and Neck Surgical Oncology from Amrita Institute of Medical Sciences, Kochi and an advanced fellowship in Head and Neck Oncology from Roswell Park Cancer Institute, Buffalo, New York, USA. He also got trained in Robotic head and neck surgery from South Korea and has taken initiatives to establish a Robotic Thyroidectomy program in India.

Won the Young Investigator Award, at the Indian Co-operative Oncology network. He has more than 60 publications in international journals. He serves as a reviewer for more than 10 international journals and is the Regional Editor Asia Pacific for AO journal, Cranio-maxillary trauma and Reconstruction and Associate Editor for “Oral Cancer” Journal. Has edited two books titled “Basic Concepts in Head and Neck Surgery and Oncology” and “Dysphagia Management in Head and Neck Cancers.”
Guk Haeng Lee, MD, PhD

Chief of Head & Neck Cancer Center & Thyroid Cancer Center, KCCH
Department of Otolaryngology, Head & Neck Surgery, Korea Caner Center Hospital, Korea Institute of Radiological & Medical Sciences, Seoul, Korea

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
1998- Staff, Department of Otolaryngology, Head & Neck Surgery, Korea Cancer Center Hospital, Korea Institute of Radiological & Medical Sciences, Seoul, Korea
2002-2004 Ph.D in Medical College of Kyung Hee University
1998-2000 M.S in Medical College of Chung Buk University
1984-1990 M.D in Medical College of Seoul National University

RESEARCH INTERESTS
Head and neck oncology
Thyroid cancer, oral cavity cancer, pharyngeal cancer, laryngeal cancer, salivary gland neoplasm
Ultrasound of the head and neck, thyroid
Intraoperative neuromonitoring, thyroid

PUBLICATIONS
Bon Seok Koo, MD, PhD

Professor, Department of Otolaryngology-Head & Neck Surgery, Research Institute for Medical Sciences, Chungnam National University School of Medicine, Chief, Department of Otolaryngology-Head & Neck Surgery, Chungnam National University Hospital
Director, External Affairs & Development Center, Chungnam National University Hospital

EDUCATION
1991-1997 Department of Medicine, College of Medicine, Chungnam National University, Daejeon, Korea. Awarded M.D. degree in Medicine in February 1997
2002-2004 The Graduate School, Chungnam National University, Daejeon, Korea, M.S., Majoring in Otorhinolaryngology
2004-2006 The Graduate School, Chungnam National University, Daejeon, Korea, Ph.D., Majoring in Otorhinolaryngology

POSTGRADUATE TRAINING
2010-2011 Divisions of Endocrinology and Oncology, The Ohio State University, Comprehensive Cancer Center - Visiting scholar

PROFESSIONAL CAREER
2005-2006 Department of Otorhinolaryngology, Yonsei University Medical Center, Seoul, Korea - Fellow, Head and Neck Surgery
2006-2007 Department of Otolaryngology-Head and Neck Surgery, Chungnam National University Hospital, Daejeon, Korea - Clinical professor
2007-2011 Department of Otolaryngology-Head and Neck Surgery, Chungnam National University Hospital, Daejeon, Korea - Assistant professor
2011-2015 Department of Otolaryngology-Head and Neck Surgery, Chungnam National University Hospital, Daejeon, Korea - Associate professor
2015 - Department of Otolaryngology-Head and Neck Surgery, Chungnam National University Hospital, Daejeon, Korea - professor

PROFESSIONAL MEMBERSHIPS
Member of Korean Medical Association
Member of Korean Society of Otorhinolaryngology-Head and Neck surgery
Member of Korean Society for Head and Neck Oncology
Member of Korean Society of Thyroid-Head and Neck Surgery
Member of Korean Thyroid Association
Active Membership of American Association for Cancer Research

HONORS AND AWARDS
2010 Award for the Best Science Paper from Korean Society of Otorhinolaryngology-Head and Neck Surgery
2013 Medical R & D Forum Academy Award
2013 Best Paper Award of the Korean Society of Head and Neck Surgery
2015. Bowun Award For Research Excellence
Yong Tae Hong, MD, PhD

Department of Otorhinolaryngology, Head & Neck Surgery, Chonbuk National University Hospital, Korea

EDUCATION
2017 MD, PhD Chonbuk Nat. University, Korea

AWARDS
2018 Korean Thyroid Association : Outstanding Research Award

RECENT PUBLICATIONS
1. Yun J, Hong YT, Hong KH, Lee JH. Ex vivo identification of thyroid cancer tissue using electrical impedance spectroscopy on a needle. Sensors and Actuators B: Chemical 2018;261(15):537-544
2. Hong YT, Hong KH. Identification of lymphatic channels in the tracheoesophageal groove during central neck dissection for thyroid cancer Head & Neck 2018;40(9):E87-E90

SOCIETIES
The Korean Society of Otorhinolaryngology, Head & Neck Surgery
The Korean Society of Head and Neck Surgery
The Korean Society of Head and Neck Oncology
The Korean Society of Logopedics and Phoniatrics
Hyun Jun Hong

ACADEMIC POSITION
2014 - current  Associate Professor / Chairmen and Director, Department of Otorhinolaryngology-Head & Neck Surgery, Catholic Kwandong University, International St. Mary’s Hospital
2010 - 2014  Clinical Assistant Professor, Department of Otorhinolaryngology, Yonsei University College of Medicine, Gangnam Severance Hospital
2008 - 2010  Head & Neck Consultant, Department of Otorhinolaryngology, Ilsan National Health Insurance Corporation Hospital

VISITING SCHOLAR ABROAD
2013  Stanford University College of Medicine
2003  Memorial Sloan Kettering Cancer Center
2003  House Ear Institute

EDUCATION
2007 - 2014  PhD, Yonsei University College of Medicine
2004 - 2006  MS, Yonsei University College of Medicine
1993 - 1999  BS, Yonsei University College of Medicine

FELLOWSHIP
2007 - 2008  H&N Surgery, Otorhinolaryngology, Yonsei University College of Medicine

RESIDENCY
2000 - 2004  Otorhinolaryngology, Yonsei University College of Medicine, Seoul, Korea

INTERNSHIP
1999 - 2000  Severance Hospital, Yonsei University College of Medicine, Seoul, Korea

SOCIETY MEMBERSHIPS: CURRENT POSTIONS
  Director of International Fellow Scholarship
  Member of Scientific committee
  Member of National Insurance
- Korean Academy of Facial Plastic and Reconstructive Surgery
  Member of Practice Guideline Committee
  Assistant General Secretary
  Member of Textbook Committee
  Director of Social Relationships
- Korean Bronchoesophagological Society
- Korean Thyroid Association
- Asian Society of Head & Neck Oncology (ASHNO):
  Secretary of President (Prof. EC Choi)
- Asia Pacific Thyroid Society (APTS)
- International Guild of Robotic & Endoscopic Head and Neck Surgery (IGREHNS)
Seung-Won Lee

Department of Otolaryngology - Head and Neck Surgery, Soonchunhyang University College of Medicine, Korea

PROFILE
2001 Board, Department of Otorhinolaryngology, Korea
2004 Clinical fellow, Division of Head Neck Surgery, Sungkyunkwan University College of Medicine, Samsung Medical Center
2011 Doctorate (Ph degree), Dept of Otolaryngology Head Neck Surgery, Yonsei University School of Medicine
2005-Present Professor, Division of Head Neck Surgery, Soonchunhyang University Bucheon Hospital

AWARD
2011 Academic Award from Korean Society of Laryngology
2010 Academic Award from Korean Society of Tracheoesophagobronchology
2008 Academic Award from Korean Society of Head Neck Surgery
2013.4 Young Faculty Award from American Laryngology Association
2016.6 Voice Foundation Best Paper Award of the Year

MEMBERSHIP
General secretary Korean Society of Laryngology (2019.4- )
Board Member of Korean Society of Laryngology (publish divisions) (2015.4-2019.3)
Board Member of Korean Thyroid Association (publish divisions) (2017.9- )
Editorial Board of Clinical experimental otolaryngology
Members of academic committee 2010 4th World Voice Congress (2010)
Assistant general secretary of Textbook Committee of Korean Laryngology
Secretary Member of President of Korean Head Neck Surgery Society (2008)
Yu Hsien Chen

General Surgeon. Attending Physician
Department of Surgery, Keelung Chang Gung Memorial Hospital

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2009–2013 Linkou Chang Gung Memorial Hospital Resident
2013–2014 Linkou Chang Gung Memorial Hospital Chief Resident
2014– Keelung Chang Gung Memorial Hospital Attending Physician
2017(FEB~APR) Police General Hospital, Bangkok, Thailand Fellowship

RESEARCH INTERESTS
General surgery, Laparoscopic surgery, Robotic surgery, Endocrine surgery

PUBLICATIONS

Young Jun Chai, MD, PhD

EDUCATION
1999.3-2003.2 M.D., School of Medicine, Seoul National University College of Medicine, Seoul, Korea
2012.3-2014.2 Master Degree, Graduate school, Seoul National University College of Medicine, Seoul, Korea
2015.3-2017.2 Ph.D. Course, Graduate school, Seoul National University College of Medicine, Seoul, Korea

TRAINING
2003.3-2008.2 Internship & Resident Course, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2012.3-2013.2 Clinical Fellow, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2013.3-2014 Assistant Professor, Department of Surgery, Seoul National University Hospital, Seoul, Korea
2014.3-2019.2 Assistant Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea
2019.3-present Associate Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea

NATIONAL SOCIETIES
2008-present The Korean Surgical Society, Member
2012-present The Korean Association of Endocrine Surgeons, Vice secretary
2012-present The Korean Thyroid Association, Member
2013-present The Korean Association of Robotic Surgeons, Member
2014-present Korea Intraoperative Neural Monitoring Society, Secretary
2016-present Korean Society of Head and Neck Oncology, Member

INTERNATIONAL SOCIETIES
2012-present International Society of Oncoplastic Endocrine Surgeons, Member
2014-present Intraoperative Neural Monitoring Study Group, Member
2016-present Journal Clinics in Oncology- Head and Neck Oncology, Editorial Board
2019-present American Head and Neck Society, Member

INTERNATIONAL CONFERENCE PRESENTATION
- Expression of the embryonic morphogen Nodal in differentiated thyroid carcinomas: Immunohistochemistry assay in tissue microarray and The Cancer Genome Atlas data analysis. Oral Presentation at the 35th Annual Meeting of the American Association of Endocrine Surgeons, Boston, April 2014
- Upregulation of SLC2 (GLUT) family genes is related to poor survival outcomes in papillary thyroid carcinoma: Analysis of data from The Cancer Genome Atlas. Oral Presentation at the 37th Annual Meeting of the American Association of Endocrine Surgeons, Baltimore, April 2016
- Ultrasound image analysis using artificial intelligence for the diagnosis of thyroid nodules. Poster Presentation at the 39th Annual Meeting of the American Association of Endocrine Surgeons, Durham, April 2018
IRSS Nursing Session 1: The Work of Robotic and Endoscopic Nurses

CHAIRMAN
Dong Young Kim, Gachon University, Korea

MODERATOR
Mudit Agarwal, Max superspeciality Hospital, India
Dong Kun Lee, Dong-A University, Korea

Role of Nurses in Robotic and Endoscopic Surgery
Sandy Leman, CHU Dinant Godinne/UCL Namur, Belgium

Docking and Set-up for Robotic Thyroidectomy: Trasaxillary Approach
Kyoung Hee Lee, Yonsei University, Korea

Docking and Set-up for Robotic Thyroidectomy: Retroauricular Approach
Jinah Kim, Yonsei University, Korea

Docking and Set-up for TORS
Daehyun Kim, Yonsei University, Korea

Docking and Set-up for Robotic Thyroidectomy: Transoral Approach
Sanghee Lee, Hanyang University, Korea
Dong Young Kim, MD, PhD

Otolaryngology-Head and Neck Surgery, College of medicine Gachon University, Gil Medical Center, Incheon, Korea
Sub-division : Head and Neck Surgery

EDUCATIONAL HISTORY
1985-1991 Yonsei Univ., Diploma
1999-2003 Yonsei Univ. post-graduate school, The Master’s course
2006-2008 Gacheon Univ. post-graduate school, The Doctor’s course

WORK EXPERIENCE
1994-1999 Intern and resident ship ; Severance hospital, Sinchon, Seoul
1999-2000 Fellow ship ; Severance hospital, Sinchon, Seoul
2000-2011 Assistant & associate Prof. ; Otolaryngology dpt. College of Medicine, Gachon University.
2011- Full professor of Otolaryngology
Manager of office of quality improvement, Gil medical center
Vice president of Gil hospital (2018- )

SOCIETY ACTIVITY
The Korean Society of Otolaryngology membership (1999-)
The Korean Society of Thyroid, Head and Neck Surgery (2000-)
The Korean Society of Laryngology, Phoniatrics & Logopedics
The Korean Society of Head and Neck Oncology
The Korean Bronchoesophagology Society
Member of Councils
The Korean Society of Laryngology, Phoniatrics & Logopedics
Mudit Agarwal

QUALIFICATION

1986 I.C.S.E., I.C.S.E.
1988 I.C.S.E., I.C.S.E.
1991 MBBS 1st Prof., IMS Banaras Hindu University
1993 2nd Prof., -----Do-----
1996 3rd Prof., -----Do-----
1998 Dec M.S. (Gen. Surg), -----Do-----
2003 Mch (Surg.Oncology), Kidwai Memorial Institute of Oncology, Bangalore
2006 MRCS (Edin.), Royal College Of Surgeons Of Edinburgh (UK)

CLINICAL/TEACHING/RESEARCH EXPERIENCE

- Compulsory Rotatory Internship from 17-1-1995 to 16/1/96 in S.S.H., B.H.U.
- Three years of clinical and research experience as junior resident (Jan 96 to Dec 98) at B.H.U.
- One year as resident surgeon in dept. of surgical oncology at Kidwai Memorial Oncology Bangalore.
- Three years as Mch resident.
- Two months observership in Head & Neck unit at Tata Memorial hospital.
- Worked as Consultant Surgical Oncologist from 3rd Feb 2004 to 24th may 2006 at Jawaharlal Nehru Cancer & Research Hospital, Bhopal which is one of the premier cancer institute of Central India.
- Worked as Assistant Prof. In Dept. Of Surgical Oncology, Gujarat Cancer & Research Hospital, Ahmedabad since 25th may 2006- dec 2007.
- UICC FELLOWSHIP FEB 2008 - NATIONAL UNIVERSITY HOSPITAL ,SINGAPORE, FOR PROJECT IN HEAD & NECK CANCER-SALVAGE NASOPHARYNGECTOMY
- JOINED 2008- OCT 2013 DHARAMSHILA HOSPITAL & RESEARCH CENTER AS SR. CONSULTANT - SURGICAL ONCOLOGY
- JOINED MAX SUPER SPECIALITY HOSPITAL,PATPARGANJ, DELHI AS HOD- HEAD & NECK SURGICAL IN OCT 2013 ONCOLOGIST, PROMOTED TO ASSOCIATE DIRECTOR till feb 2018
- Joined AS SENIOR HEAD NECK SURGICAL ONCOLOGIST AT RAJIV GANDHI CANCER HOSPITAL AND RESEARCH CENTRE, DELHI AND PRESENTLY WORKING HERE

ADVANCED TRAINING IN HEAD & NECK SURGERY AT INTERNATIONAL CENTRES OF EXCELLENCE

Has been trained in
1. MINIMALLY INVASIVE THYROID SURGERY - National Endocrine Hospital, Hanoi, Vietnarn 2014 with Prof. Luong,
2. TRANSORAL ENDOSCOPIC LASER SURGERY at Genoa Italy-2014 with Prof. Paretti,
3. HEAD & NECK ROBOTIC SURGERY Severance Hospital, Yonsei University, Seoul, Korea Feb 2016 with Prof Yoon Woo Koh,
4. LATERAL SKULL BASE SURGERY COURSE November 2017 at Gruppo Otologica, Piacenza, Italy, Prof Mario Sanna,performing Robotic and endoscopic assisted head neck surgery .
- Elected in National executive committee of IASO, Indian Association of Surgical Oncology in Nov -2017
Dong Kun Lee

Assistant Professor, Dong-A University College of Medicine

EDUCATION AND TRAINING
1998-2003 M.D. Dong-A University College of Medicine, Busan, Republic of Korea
2009-2011 M.S. Dong-A University College of Medicine, Busan, Republic of Korea
2012-2014 Ph.D. Dong-A University College of Medicine, Busan, Republic of Korea

PROFESSIONAL ACTIVITIES
2013-2014 Clinical fellow, Dong-A University Hospital
2014-2015 Clinical fellow, Samsung Medical center
2015-2016 Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Konyang University College of Medicine
2016-2018 Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, InJe University College of Medicine, Busan Paik Hospital
2018- Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Dong-A University College of Medicine

RESEARCH INTERESTS
1. EBV and nasopharynx cancer
2. Endoscopic ultrasound for glottic cancer
3. Transoral thyroidectomy

PUBLICATIONS
1. Transoral Dermoid Cyst Excision: A Multicenter Prospective Observational Study. Otolaryngology—Head and Neck Surgery. 2018
4. The utility of intra-operative frozen section for the evaluation of microscopic extrathyroidal extension in papillary thyroid carcinoma. Clinical Otolaryngology. 2017
Sandy Leman

WORK EXPERIENCE
2005-Now  CHU UCL Namur (site Godinne), OR nurse
2013-Now  Assistante of the nurse chief of urologic surgery
2011-Now  Nurse chief of Robotic surgery
2008-2009  assistante of nurse chief of orthopedic surgery

EDUCATION
2014-2015  OR nurse specialisation's with great distinction
2002-2005  HELHO (Haute Ecole Libre du Hainaut Occidental) in Mouscron
            Nurse Bachelor’s degree with distinction
1996-2002  High School in Institut des Frères Maristes in Mouscron
2000       typing speeding diploma on computer
1998       typing speeding diploma on typewriter

COMPÉTENCES
Anticipate the need for personnel and equipment
Sense of hearing
Flexibility of mind
Organized
Analytical and decision-making capacity
Ensure communication and information flow
Collaborative work
Computer science: office automation (word processing, excel, powerpoint)

HOBBIES
Sport : badminton (and competitions)
Books (scientific and historical)

LANGUAGES
French : C2
English, Dutch: A2
Roles of the OR coordinating nurse for implementing surgical robotic program in setting of a University hospital.

S. Leman*, Sa. Hassid*, S. Van der Vorst, G. Lawson
ENT Department, CHU UCL Namur - site Godinne, Belgium. *Speakers

Introduction
Robotic surgery has been evolving in recent years and requires a growing need of well-trained nurses. Regrettably, there is not enough training and often difficult to access. The coordinating nurse can play an important role especially for education. In addition, given the many speakers, communication is essential and the coordinating nurse allows cooperation between the various professions and to ensure patient safety.

Aim
The purpose of this presentation is to share our experience within a University Hospital to better clarify the role of the nurse coordinator.

Results
Her roles are coordinating the planning of surgical procedures, ensuring the availability of instruments and care, providing specific surgical support, assisting in the collection of data to improve clinical research, contributing to the training of other nurses, selection of potential robotic candidate nurses, team building and motivation. Our experience and the implementation of this job have allowed us to reduce the operating time and improve the overall care of the patient.

Conclusion
The coordinating nurse is important to improve the communication and the collaboration between the different teams. They also contribute to better training of nurses which improves their professional knowledge and autonomy. All this helps to improve the quality of care and thus provide optimal safety for the patient.
Kyoung Hee Lee

EDUCATION
Master degree in the Graduate School of Nursing Yonsei University, Seoul, Korea
Bachelor degree in the College of Nursing Kyunghee University, Seoul, Korea

CAREER
Mar 2005-Present  Operation Room, Severance Hospital Yonsei University, Seoul, Korea
                   Operating Room Nurse
Jun. 2002-Feb. 2005 Operation Room, Kangnam St. Mary’s Hospital The Catholic University, Seoul, Korea
                   Operating Room Nurse
Docking and Set-up for Robotic Thyroidectomy Transaxillary Approach

Kyoung Hee Lee
Master degree in the Graduate School of Nursing Yonsei University, Seoul, Korea, Bachelor degree in the College of Nursing Kyunghee University, Seoul, Korea

**GS Robotic Thyroidectomy**
- From Oct. 2007 to Aug. 2015, (n=7000)
- Consecutive 6550 malignancy and 341 benign tumors

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (mean)</td>
<td>37.90 ± 9.56 (range 9-72)</td>
</tr>
<tr>
<td>Sex ratio (male : female)</td>
<td>749 : 6251 (ratio 1 : 0.83)</td>
</tr>
<tr>
<td>Operation type (primary : redo)</td>
<td>6900 (91.43 : 400.57)</td>
</tr>
<tr>
<td>Operation time (min)</td>
<td>134.94 ± 58.00 (range 45-615)</td>
</tr>
<tr>
<td>Postoperative hospital stay (days)</td>
<td>3.33 ± 1.38 (range 1-87)</td>
</tr>
</tbody>
</table>

**Trans Axillary Robotic Thyroidectomy**

- 8 mm ProGrap Forceps
- 5 mm Maryland Dissector
- 5 mm Harmonic Curved Shears
New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System

From Jan. 2008 to August 2018, (n=500)

- Age (year): $34.43 \pm 9.66$ (19-69)
- Gender ratio (M:F): 196:304 (65.2%)
- Operation time (min): $293.71 \pm 67.22$ (142-630)
- Post-operative hospital stay (days): $5.47 \pm 1.42$ (2-22)

Operation type (n=500)
- Initial operation: Reop 476 (95.2%); 244 (48%)
- M&NND side: Rt: Lt: Bilateral 245 (49%): 244 (48%): 136 (26%)
Thank You!
Jinah Kim

Department of Surgical Nursing, Severance Hospital, Republic of Korea

EDUCATION
2006-2010 Inha University, Incheon, Korea Nursing BS

EMPLOYMENT
2010.11- Severance Hospital Department of Surgical Nursing

EXPERIENCE
2016 Severance Hospital da Vinci Si, Xi Training
2018.10 Severance Hospital da Vinci SP Training
Basic concept of Docking process for Robot-assisted Neck Surgery via Retro-auricular approach

Jinah Kim
Yonsei University, Korea

Recently, efforts have been increased to minimize surgical incisions for rapid patient recovery and cosmetic reasons. Robotic neck surgery via Retro-auricular (RA) approach results in less tissue damage because the incision site is close to the surgical site. Also, the patient’s satisfaction is very high because the incision is invisible after the surgery.

Docking technique is one of the important factors in robotic surgery, which determines the quality of operation and the safety of patient. But the docking process via RA approach has several difficulties. It is important to adjust the axis to various levels of the surgical field. If necessary, the axis needs to be changed during surgery. Also, because of the narrow working space, robotic arms are more likely to collide with each other during surgery.

Fortunately, as the SP robot system was launched, the docking process via RA approach becomes easier. Three multi-jointed instruments and a full-wristed camera are inserted in parallel through a single port. They have flexible movement in the surgical field. So instruments can move with less collision in narrow working space. Also, the surgeon can adjust the axis on a console without the aid of an assistant.

It is very important to understand the characteristics of each robot system including the latest model 'SP' for efficient docking. This presentation describes basic concepts of docking for RA approach and the role of nurses for the docking process. This presentation will help nurses to understand each robot system and make docking easier and more efficient.

Keyword
Robot assisted neck surgery, retro-auricular approach, docking
**Daehyun Kim**

Position: Nurse  
Department: Otorhinolaryngology  
Affiliation: Clinical Nurse Specialist, Division of Nursing, Severance Hospital, South Korea

**EDUCATION BACKGROUND**

2006.03~2010.02 College of Nursing, Pusan National University, South Korea

**PROFESSIONAL EXPERIENCE**

2010.03~2011.12 Operation Room, Pusan National University Hospital  
2013.04~2015.09 Emergency Care Center, Severance Hospital  
2015.10~Present Clinical Nurse Specialist in Otorhinolaryngology-Head & Neck Surgery, Severance hospital
Different view of TORS
- From the Scrub nurses’ and Assistants’ view

Daehyun Kim
Servance Hospital, Korea

Severance hospital reached 20,000 cases of robotic surgery at the first-time in the world last year and robotic surgery has increased every year. Which means the trend of surgery has been changing and robotically-assisted surgery is not ignorable when we predict the future of the surgery.

Up to now, approximately 24,000 cases of robotic surgery have operated in Severance Hospital and around 8% of robotic surgery is performed by otorhinolaryngology and head and neck surgeons, which is the third rank. General surgery holds the largest portion by 49% and urology follows next by 36%.

Robotic surgery in otorhinolaryngology and head and neck surgery can be mainly categorized by two: TORS(transoral robotic surgery) and RA(retroauricular approach robotic surgery) according to the approach method. Between those two, TORS accounts for 38% of robotic surgery. And most of all, TORS has a lot of advantages. TORS is a modern surgical technique used to treat tumors of the mouth and throat via direct access through mouth. The surgeon uses a surgical robot to view and access structures in the oral cavity and pharynx without any incisions through the neck, chin or lip(these incisions are necessary in tradition, non-robotic approaches). Current TORS techniques include radical tonsillectomy, resection of palate, hemiglossectomy and resection of tumors above and involving the larynx.

To perform the TORS, there are plenty of significant considerations. A lot of events can happen during the procedure and it would be needed meticulous considerations outside of the robot console. Aside from the surgeons, scrub nurses and assistants have important roles with different views on that ground. It might be different to see the robotic surgery through the scrub nurses and assistants eyes.
Sanghee Lee
Yeungman University College
Hanyang University Hospital OR
Charge Nurse, Robotic Surgery
Charge Nurse, ENT Dept.
Docking and Set-up for Robotic Thyroidectomy: Transoral Approach

Sanghee Lee
Hanyang University Hospital, Seoul, Republic of Korea

Robotic surgery as scarless and minimally invasive approach is also becoming popular in the head and neck area. With the development of robotic surgery in the head and neck, various remote access thyroidectomy procedures via axillary, breast, postauricular facelift or transoral approaches have been developed in the past 20 years. The transoral approach is a type of true natural orifice transluminal endoscopic surgery (NOTES). It is less invasive than transaxillary, bilateral axillo-breast (BABA), and postauricular facelift approaches, because the dissection area for the working space is smaller. In addition, it makes it easier to perform bilateral total thyroidectomy than the transaxillary and facelift approaches because it provides midline access to both lobes.

In transoral robotic approach, a 1.5 cm horizontal incision at the end of the lower lip frenulum, and two lateral incisions, are made close to the oral commissure not to injure the mental nerve. The CO2 insufflation pressure is set at 5-6 mmHg. After creating the working space, the da Vinci surgical system (Intuitive Surgical, Inc., Sunnyvale, CA, USA) is placed and docked on the left lateral side of the patient. If necessary a third robotic instrument, such as Cardinal forceps, is inserted through the right axillary port.

In this session, I would like to present the OR preparation, patients position, and docking and set up for the transoral robotic thyroidectomy. I hope it would help the OR nurses understand and perform the transoral robotic procedure.
Keynote lecture 7

MODERATOR
Kaoru Ogawa, Keio University, Japan

Expectations and Quality of Life after Conventional and Robot-assisted Neck Dissections
Luiz Paulo Kowalski, A.C. Camargo Cancer Center, Brazil
Kaoru Ogawa, MD, PhD

Department of Otolaryngology, School of Medicine, Keio University, Tokyo, Japan

EDUCATION

1976-1981 School of Medicine, Keio University

POSTGRADUATE TRAINING

1981-1985 Department of Otolaryngology, School of Medicine, Keio University
Mentor: Prof. Shigeji Saito MD
1986-1990 Department of Otolaryngology, School of Medicine, Keio University
Mentor: Prof. Jin Kanzaki MD
1991-1993 Kresge Hearing Research Institute, University of Michigan, USA
Mentor: Prof. Jochen Schacht PhD

PROFESSIONAL APPOINTMENTS

1993-1994 Assistant Chief Doctor, Tokyo Denryoku Hospital
1995-2002 Assistant Professor of Otolaryngology, Keio University
2002- Chairman and Professor of Otolaryngology, Keio University
2015-2017 Vice Dean of School of Medicine, Keio University
2017- President of Keio Medical Society

PROFESSIONAL SOCIETIES

The Otorhinolaryngological Society of Japan (Former Vice-President), Japan Otological Society (Former President), Japanese Society of Broncho-esophagiology (Director), Japan Audiological Society (Director), Japanese Society of Skull Base Surgery (Director), Japan Society of Pediatric Otolaryngology (Director), Association of Research in Otolaryngology (Active member), International Society of Audiology (Councilor), The Society of Promotion for International Otolaryngology (Director), CORLAS (Councilor)
Luiz Paulo Kowalski

EDUCATION
1974-1979 Medical School, Universidade Federal do Paraná, Curitiba, Brazil, 1979.
1983 Fellowship, Head and Neck Surgery, Hospital Heliopolis, São Paulo, Brazil, 1983.
1988 Observership (6 months) at the Head and Neck Service, Memorial Sloan Kettering Cancer Center, 1988.

POSITIONS
1983-1990 Hospital Heliópolis, São Paulo, Brazil, Attending Surgeon, Head and Neck Surgery Service
1990-present AC Camargo Cancer Center, Director – Department of Head and Neck Surgery and Otolaryngology
1991-present University of São Paulo, Professor of the Post Graduation Course in Oncology
1995-present State University of Campinas (UNICAMP) Piracicaba Dental School, Professor of the Post Graduation Course in Stomatology
1996 Free Professor, Oncology, University of São Paulo
1997-present AC Camargo Cancer Center, Professor of the Post Graduation Course in Oncology
2006-2007 President, Brazilian Head and Neck Surgery Society
2009-present Coordinator, National Institute on Science and Technology in Oncogenomics (INCITO)
2009-2013 Secretary General, International Academy of Oral Oncology
2013-2015 President-Elect, International Academy of Oral Oncology
2015-2017 President, International Academy of Oral Oncology
2017- Past-President, International Academy of Oral Oncology

ADMINISTRATIVE ACTIVITIES AT AC CAMARGO CANCER CENTER
1990-present Director – Department of Head and Neck Surgery and Otolaryngology
1993-2005 Coordinator, Educational Center (Centro de Estudos)
1998-2000 President of the Medical Ethics Commitee
1999-present Member of the Post-Graduation Commitee
2002-2004 Vice Treasurer, Fundação Antonio Prudente
2008-present President, Ethics on Research Commitee
2009-2016 Coordinator, National Institute on Science and Technology in Oncogenomics (INCITO)
2012-present Member of the Institutional Commitee on Research and Education

INTERNATIONAL HONORARY POSITIONS AND PRIZES:
1995-2010 Honorary Senior Lecturer, Eastman Dental Institute, University College of London
2000 Presidential Citation, American Head and Neck Society
2001 Visiting Professor, Head and Neck Service, Memorial Sloan Kettering Cancer Center
2005 Associated Honorary Professor, Carol Davilla University of Medicine & Pharmacy
2010-present Visiting Professor, Eastman Dental Institute, University College of London
Expectations and Quality of Life after Conventional and Robot-assisted Neck Dissections

Luiz Paulo Kowalski
A.C. Camargo Cancer Center, Brazil
Keynote lecture 8

MODERATOR
Kazunori Fujiwara, Tottori University, Japan

Treatment of the Neck in TORS
Giuseppe Spriano, Humanitas University, Italy
Kazunori Fujiwara, MD, PhD

Associated Professor, Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University, Yonago, Japan

EDUCATION

Apr 1995-Mar 2001  Tottori University, Faculty of Medicine (Tottori Japan)
Apr 1991-Mar 1994  Tottori West High School (Tottori Japan)

POSTDOCTORAL TRAINING

Apr 2001-Mar 2002  Internship, Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University
Apr 2002-May 2004  Residency, Otolaryngology- Head and Neck Surgery  
Matsue Red Cross Hospital
Jun 2004-Mar 2005  Fellowship, Otolaryngology- Head and Neck Surgery  
National Hospital Organization, Kyoto Medical Center (Kyoto Japan)
Apr 2006-Nov 2007  Fellowship, Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University

LICENSURE

2001 Medical License
2006 Board Certified Otorhinolaryngologist (The Oto-Rhino-Laryngological Society of Japan)
2008 General Clinical Oncologist (Japanese Board of Cancer Therapy)
2010 Da Vinci Surgical System Certification
2010 Board Certified Head and Neck Oncologist
2015 Board Certified Otolaryngology Educator
2017 Robo Doc Pilot Japan B (Japan Robotic Surgery Society)
2017 Board Certified Head and Neck Oncology Educator
Japan Society for Head and Neck Surgery Secretary
Japan Society for Head and Neck Cancer Councilor
Japan Robotic Surgery Society Councilor

HOSPITAL APPOINTMENTS

Dec 2007-Mar 2008  Assistant Professor: Division of Clinical Laboratory Medicine and Hematology Oncology, Tottori University, Faculty of Medicine,
Apr 2008-Jun 2012  Assistant Professor: Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University
Jul 2012-Sep 2012  Observer: Memorial Sloan Kettering Cancer Center, NY, USA
Sep 2012-Dec 2012  Observer: The University of Pennsylvania, PENN, USA
Dec 2012-Jul 2015  Assistant Professor: Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University
Aug 2015-Junior  Associated Professor: Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University
Aug 2017-  Associated Professor: Department of Otolaryngology, Head and Neck Surgery Faculty of Medicine, Tottori University
Giuseppe Spriano, MD

EDUCATION AND TRAINING
Medical Degree University of Milan 1978
Otolaryngology Head and Neck Surgery University of Milan (Chief: Prof. Ettore Bocca) 1981
Oncology University of Genova (Chief: Prof Leonardo Santi) 1984

VISITING DOCTOR (MAIN)
Istitute Gustave Roussy Paris 1990
House Ear Institute Los Angeles 1991
University of Pittsburgh 1992
Memorial Sloan Kettering Cancer Center New York 1993
Mount Sinai New York 1994
M.D. Anderson Cancer Center Houston 1995
Loyola University Chicago 1996

VISITING PROFESSOR
Memorial Sloan Kettering Cancer Center New York 2009
MD Anderson Cancer Center Houston 2014
University of Toronto 2014
University of Stanford Palo Alto 2016

TEACHING ACTIVITY
Professor of Head and Neck Surgery at the Universities of:
Varese, Rome (Sapienza), Rome (Cattolica), Pisa, Brescia

SCIENTIFIC ACTIVITY
Author more than 150 articles in Peer-Reviewed Journals
Member of Editorial and Review Boards of several scientific journals
Author of 16 book chapters and 6 books
More than 450 invited scientific oral presentations in Italy, Europe, USA, Canada, South America, Asia, Africa, Australia.

PROFESSIONAL SOCIETY MEMBERSHIPS (MAIN)
President of AOOI (Italian Association of Otolaryngologists) 2008-2010
President of Italian Society of Otolaryngology Head and Neck Surgery (2014 - 2015)
Member of the Council of IAOO (International Academy of Oral Oncology)
Honorary Member of the Foundation for Head and Neck Oncology
Conference Chairman of European Congress of EHNS 2018 (European Head and Neck Society)
Conference Chairman of World Congress of IAOO 2019 (International Academy of Oral Oncology)
Conference Chairman of World Congress of IFHNOS 2022 (International Federation of Head and Neck Oncological Societies)
Treatment of the Neck in TORS

Giuseppe Spriano
Humanitas University, Italy

In the past few years, robotic surgery has entered the armamentarium of the head and neck surgeon, despite this innovation is still in stage 2b of exploration.

Criteria for TransOral Robotic Surgery (TORS) are established with a wide consensus, while there is still discussion about the opportunity of using the robotic system for neck dissection as well. In case of transoral removal of tumors of the oropharynx (regardless of the HPV status) and in supraglottic larynx tumors International Guidelines suggest that elective neck dissection should be performed.

The discussion on elective neck dissection focuses on the risk of occult metastases, on the inability of imaging techniques to detect small nodal metastases, and on compliance to follow-up programs. However, the oncologic value of elective neck dissection in comparison with its morbidity is unclear.

Evidence for a benefit from elective neck dissection comes from Randomized Clinical Trials. Only in oral cancer only, as for the oropharynx and larynx there is lack of evidence.

Usually, in oropharyngeal and supraglottic larynx cancer there is agreement on the fact that elective neck dissection should be done, but in everyday practice, only 2/3 of patients are submitted to elective treatment of the neck when TORS is used for the removal of the primary tumor, while lateral selective neck dissection levels II-IV is recommended.

The rise in oropharyngeal HPV-associated cancer has increased the prevalence of survivors, because the possibility of cure is higher, and the age of the typical patient is younger.

Treatment of the neck nodes needs to focus on several aspects.

Which nodal levels should be dissected? Selective lateral ND is considered adequate in N0 and N1 neck. Neck dissection is suggested in all cases but cT1-2 of tonsillar fossa bilateral. The problem of dissection of parapharyngeal nodes in oropharyngeal cancer can be resolved by transcervical approach as well as transorally.

Several papers have underlined that concurrent or staged neck dissection does not affect the oncological outcome; ligation of vessel can be associated with a lower risk of massive and fatal hemorrhage.

The approach to the neck is still a discussed issue: transcervical approach versus a robotic one, through a less visible incision like the retroauricular incision. As reported in literature, the comparison between the two approaches favors robotic approach when patients prefer a better cosmetic outcome, anyways this is related to a longer operation time with respect to an open approach.

For experienced surgeons, and in motivated patients, in N0-1 cases, Robotic neck dissection should be offered.

The difference of neck dissection procedures in oropharyngeal versus supraglottic cancers should be addressed. In fact, when we are dealing with laryngeal primary cancer, even total laryngectomy trough the mouth has been proposed, but only in the rare cases that do not need elective treatment of the neck.

We have recently proposed a lateral approach to the larynx using the same incision as for neck dissection: that means that a skin incision along the anterior margin of sternocleidomastoid muscle is done, lateral neck dissection is first completed and then, preserving the hyoid bone with attached muscles, as well as subcutaneous tissue and skin, partial, total or extended total laryngectomy is carried out. In partial laryngectomy the pexis between hyoid bone and laryngeal stump is made so that the elevation of the larynx theoretically allows a better recovery of swallowing function.

Many other different robotic systems will be available in the near future to further evolve the surgery, but the principle of correct selection of patients and cancers has to be stressed in order to avoid choosing the tool over the cure.
IRSS Symposium 2: Remote Access Approach to Neck

CHAIRMAN
Misuhiko Nakahira, Saitama Medical University, Japan

MODERATOR
Thomas Tai-Hang Fung, The Chinese University, Hong Kong
Saurabh Gupta, Max Super Speciality Hospital, India

Robotic Neck Dissection: Oncologic Results
Renan Lira, A.C. Camargo Cancer Center, Brazil

Neck Dissection in Pediatric Patients
Da Hee Kim, Yonsei University, Korea

Robotic SOND in Oral Cavity Cancer: Oncologic Results
Jae Hong Park, Soonchunhyang University, Korea

Endoscopic Neck Dissection with Flap Reconstruction
Nut Niyomudomwatana, Rajavithi Hospital, Thailand

Tatiana Kolegova, Pavlov First Saint Petersburg State Medical University, Russia
Misuhiko Nakahira

EDUCATION
1984-1990 School of Medicine, Kochi Medical School, Kochi, Japan - M.D.

LICENSURE AND CERTIFICATION
1990 Japanese Medical License Registration (no. 329182)
1996 Board Certified Otolaryngologist by the ORL Society of Japan (no.8357)
1998 Board Certified Bronchoesophagologist by Japan Broncho-Esophagological Society (no.2117)
2009 Board Certified Therapist by Japanese Board of Cancer Therapy (no. 8101228)
2011 Board Certified Surgeon for Head and Neck Cancer by Japan Society for Head and Neck Surgery (no. 181)

PROFESSIONAL EXPERIENCE
1990-1991 Residency at the Department of Otolaryngology, Kochi Medical School Hospital
1991-1992 Clinical stuff at the Department of Otolaryngology, Inan Hospital
1992-1993 Clinical stuff at the Department of Otolaryngology, Kochi Municipal Hospital
1993-1995 Lecturer at the Department of Otolaryngology, Kochi Medical School Hospital
1995-1998 Clinical stuff at the Department of Otolaryngology, Aki Prefectural Hospital
1998-2003 Lecturer at the Department of Otolaryngology, Kochi Medical School Hospital
2003-2007 Lecturer at the Department of Otolaryngology, Faculty of Medicine, Kochi University
2007-2012.7 Assistant Professor at the Department of Otolaryngology-Head and Neck Surgery, Saitama Medical University International Medical Center
2012.8-2016.8 Associate Professor at the Department of Otolaryngology-Head and Neck Surgery, Saitama Medical University International Medical Center
2016.9-Present Professor at the Department of Otolaryngology-Head and Neck Surgery, Saitama Medical University International Medical Center

AWARDS AND HONORS
2010 Magna Cum Laude, 96th the Radiological Society of North America
2018.11 Outstanding Reviewer Status, Auris Nasus Larynx, Elsevier

PRESENTATIONS AT INTERNATIONAL CONGRESSES
Thomas Tai- Hang Fung

Specialist in Otorhinolaryngology

HONORARY CONSULTANT
Department of Ear Nose and Throat
Pamela Youde Nethersole Eastern Hospital

ADJUNCT ASSISTANT PROFESSOR
Faculty of Medicine School of Biomedical Sciences
The Chinese University of Hong Kong

M.B.,Ch.B. (CUHK) Chinese University of Hong Kong
M.R.C.S. Edin. Royal College of Surgeons of Edinburgh (General Surgery)
F.R.C.S. Edin. (ORL) Royal College of Surgeons of Edinburgh (Otolaryngology)
F.H.K.C.O.R.L. Hong Kong College of Otorhinolaryngologists
F.H.K.A.M. (Otorhinolaryngology) Hong Kong Academy of Medicine
PGDipClinDerm (Lond) Post-graduate Diploma in Clinical Dermatology, University of London
Saurabh Gupta

EDUCATION
2014  M.Ch. Surgical Oncology
College of Oncological Science, Cancer Institute (W.I.A)
Adyar, Chennai
2010  M.S. General Surgery
Surat Municipal Institute of Medical Education and Research, Surat, Gujarat.
2007  MBBS
Government Medical College, Surat, Gujarat
2001  12th Std. CBSE
BSF Senior Secondary School Sriganganagar, Rajasthan
1999  10th Std. CBSE
BSF Senior Secondary School Sriganganagar, Rajasthan

WORK EXPERIENCE
Oct’2010 - June’2011 Registrar
Department of surgical oncology at Cancer Institute (W.I.A), Adyar, Chennai
Rajiv Gandhi Cancer Institute & Research Centre, New Delhi
Oct’2015 - Oct’2016 Attending Consultant
Department of head & Neck Oncology, Rajiv Gandhi Cancer Institute & Research Centre.
Nov’2016 - Nov’2017 Consultant Head & Neck Oncology
Max Superspeciality Hospital, SAKET
Nov’2017 till Present Consultant Head & Neck Oncology
Max Superspeciality Hospital, SHALIMAR BAGH

RESEARCH
- Role of Radionuclide Bone Scan in Early Breast Cancer: 2014
  PG Guide: Dr V. Sridevi, Professor & Head of Unit - Breast & Gynaec Oncology, Cancer Institute (W.I.A), Adyar, Chennai
- A Clinico-Pathological study of cases of Pyogenic Liver Abscess: 2010
  PG guide: Dr. Jitendra R Darshan, Head of the dept., General Surgery, Surat Municipal Institute of Medical Education and Research, Gujarat

TRAINING
- Short term Training in Operative Laparoscopy Basic & Advanced Surgery in the department of Surgical Disciplines, AIIMS, New Delhi in Apr 2011
- Undergone training on Ethiskills Vascular Surgery organized by ETHICON at EISE in June’2015
- Chemoport Insertion Training at Hebei Medical University, Shijiazhuang, China in sept’2018

SPECIAL INTEREST
- Robotic & Endoscopic Head & Neck surgeries including TORS, Robotic thyroidectomy and Robotic Neck dissections

ROBOTIC TRAINING
- Participated in Severance Head & Neck Surgery Dissection Course: Hands-on Robotic Dissection With da Vinci Xi System at Severance Robot and MIS Centre, Department of Otorhinolaryngology, Yonsei University College of Medicine, Seoul, South Korea in Feb’2016
- Attended 2nd Live workshop on Trans Oral Robotic Surgery at Delhi in Dec’2015
- Attended 3rd International TORS Conference at San Francisco, July’2016
- Participated as Faculty in the 8th International Robotic Surgery Symposium held at Yonsei University, Seoul, South Korea in Oct’2018
Renan Bezerra Lira, MD, PhD

Attending Surgeon & Fellowship Preceptor - Department of Head and Neck Surgery, AC Camargo Cancer Center, São Paulo, Brazil
Vice Coordinator - Robotic Surgery Program, AC Camargo Cancer Center, São Paulo, Brazil
Proctor - Robotic Head and Neck Surgery

Dr Renan Lira had a substantial contribution in implementing robotic neck surgery in Latin America, becoming a leader and a pioneer in this field. In the last 5 years, performed more than 300 robotic and endoscopic head and neck procedures, including retroauricular and transoral thyroid surgery, retroauricular robotic and endoscopic neck dissections and TORS. He is the preceptor of the only fellowship dedicated to robotic and endoscopic head and neck surgery in Latin America and the most active proctor in head and neck robotic surgery in Brazil.

GRADUATION
2001-2007 Medical School - Federal University of Rio Grande do Norte State, Natal-RN, Brazil. Degree: MD

POSTGRADUATE TRAINING
2008-2010 General Surgery Residency - ISCMSP - Irmandade da Santa Casa de Misericórdia de São Paulo, SP, Brazil
2011-2013 Head and Neck Surgery Residency - AC Camargo Cancer Center, São Paulo, SP, Brazil
2014-2017 PhD in Oncology - School of Medicine, University of São Paulo, São Paulo, SP, Brazil. Degree: PhD

ADDITIONAL TRAINING
2011 Clinical Observation Program. Memorial Sloan-Kettering Cancer Center, New York, USA.
2013 Clinical Observation Program. The University of Texas MD Anderson Cancer Center, Houston, USA.
2015 Console Surgeon - da Vinci Surgical System. Temple University, Philadelphia, USA.
2015 Transoral Robotic Surgery Training - TORS. University of Pennsylvania, Philadelphia, USA.
2018 Thyroid NOTES Dissection Course. Police General Hospital - PGH, Bangkok, Thailand.

PUBLICATIONS
Robotic and Endoscopic Retroauricular neck dissection for oral cancer

Renan Lira
A.C. Camargo Cancer Center, Brazil

Neck dissections (ND) is an important step in order to improve regional control and disease-specific survival of oral cavity cancer. However, usually the incisions used for ND are large and placed in highly visible site resulting in extensive scars that sometimes may lead to disfiguring hypertrophic scar tissue or keloid formation. The increasing concerns with aesthetic results as well as patient satisfaction after treatment, lead to the development of several remote surgical approaches to the neck. Advances in endoscopic and robot-assisted procedures have made a considerable contribution by facilitating these approaches that could result in better cosmetics and similar oncological outcome leading to an increased health-related quality of life.

In this presentation, we will assess the safety and oncological outcomes of the retroauricular approach for endoscopic and robot-assisted neck dissection for oral carcinomas. Our group have an experience of over 50 retroauricular neck dissections for oral cavity cancer and data regarding this sample will be presented, comparing these results with those from conventional ND performed in our institution in the same scenario. Experiences from other countries, specially Korea and India, will be briefly explored as well.

In our experience, retroauricular approach for endoscopic and robotic SND has shown that this approach is safe and oncologically efficient and could decrease the morbidity of surgical oncologic treatment in oral cavity squamous cell carcinoma patients when compared to the conventional surgery. It can be used for selected cases with a clear cosmetic benefit.
Da Hee Kim, MD

Department of Otorhinolaryngology, Severance Hospital, Yonsei University, Seoul, Korea

EDUCATION & TRAINING

Mar., 2005 - Feb., 2011 M.D. Yonsei University, College of Medicine
Jan., 2010 - Mar., 2010 Subinternship at Dept. of Endocrine Surgery, UC San Francisco, USA
Mar., 2011 - Feb., 2012 Internship, Severance Hospital, Yonsei University, College of Medicine
Mar., 2012 - Feb., 2016 Residency, Severance Hospital, Yonsei University, College of Medicine
July - Aug., 2015 Exchange residency program at Kyoto University, Japan
Feb., 2016 Korean Board of Otolaryngology - Head and Neck Surgery
Mar., 2016 - Feb., 2018 Clinical Fellowship in Head and Neck Surgery, Severance Hospital, Yonsei University, College of Medicine
Mar., 2018 - Feb., 2019 Translational Genome Informatics Laboratory, Yonsei University, College of Medicine
Mar., 2019 - Now Clinical Assistant Professor, Department of Otorhinolaryngology, Yonsei University, College of Medicine
Robotic Total Thyroidectomy with or without Robot-assisted Neck Dissection in Pediatric Well-differentiated Thyroid Cancer

Da Hee Kim¹, Min Seok Kang¹, Young Min Park¹, Eun Chang Choi¹, Jae Won Chang² and Yoon Woo Koh¹
¹Department of Otorhinolaryngology, Severance Hospital, Yonsei University Health System, Yonsei University College of Medicine, Seoul, Republic of Korea, ²Department of Otorhinolaryngology, ChungNam National University, Daejeon, Republic of Korea

Objective
Pediatric thyroid cancer shows more frequent cervical node metastasis than adult thyroid cancer, even in differentiated thyroid carcinoma (DTC). Thus, cervical neck dissection often needs to be performed simultaneously with thyroidectomy. Here, we experience in robotic total thyroidectomy (TT) with/without robot-assisted neck dissection (RAND) in pediatric patients.

Subjects and Methods
Twelve pediatric patients (mean age 15.46 years, minimum age 9) who underwent thyroidectomy using robotic systems for DTC between July 2011 and May 2019 were retrospectively reviewed and evaluated.

Results
For all of the patients, the operation was successfully performed without significant intraoperative complications or conversion to open or additional approaches. Of the 12 patients, 9 underwent robotic TT with RAND; and 3, robotic TT alone. The mean operation times of robotic TT with and that without RAND were 298.2 ± 64.1 min and 119.8 ± 41.4 min, respectively. No postoperative complications such as vocal cord palsy, seroma, hemorrhage, or hematoma, were observed. 8 out of 9 patients who underwent TT with RAND showed transient hypoparathyroidism, which was managed conservatively. The total numbers of cervical nodes retrieved from central compartment lymph node dissection and RAND were 7.6 ± 3.7 and 39.2 ± 24.0, respectively; and the number of upper level lymph node retrieval tended to increase from transaxillary approach to retroauricular approach. During the follow-up period, no evidence of recurrence was observed. All the patients were satisfied with their cosmetic results.

Conclusion
Our experience suggests that robotic thyroidectomy with or without RAND is a feasible and safe alternative treatment that produces outstanding esthetic results in pediatric patients with DTC.

Keywords
Robot-assisted total thyroidectomy, Robot-assisted modified radical neck dissection (RAND), Transaxillary and retroauricular (TARA) approach, Retroauricular (RA) approach, Pediatric thyroid cancer
Jae Hong Park

Otorhinolaryngology- Head & Neck Surgery, Soonchunhyang university Chunan Hospital, Korea

EDUCATION BACKGROUND
2001.02.25 Graduated at Soonchunhyang University College of Medicine
2001.03.01 Intern : Soonchunhyang University Seoul Hospital
2002.03.01-2006.02.26 Resident (Otorhinolaryngology, Head & Neck surgery) : Soonchunhyang University Bucheon Hospital
2016.08 PhD : Soonchunhyang University Graduate School of Medicine
(3D printed PCL/ Beta TCP Prosthesis for Reconstruction of Mandibular defect)

PROFESSIONAL EXPERIENCE
2009.05 -2011.02 Fellowship (Head and Neck surgery) : Soonchunhyang University Gumi Hospital
2011.01- 2012.02 Assistant professor : Soonchunhyang University Gumi Hospital
2013.05 - 2016.08 Assistant professor : Soonchunhyang University Cheonan Hospital
2016.08.01-Presents Associate Professor : Soonchunhyang University Cheonan Hospital
2018.07 - 2019.08 Visiting Researcher : Signal transduction group, Karolinska Institutet, Stockholm, Sweden
Robotic SOND in Oral Cavity Cancer: Oncologic Results

Jae Hong Park
Soonchunhyang University, Korea

Objective
Retroauricular neck dissection (RAND) has recently been introduced and applied for the management of regional treatment in various head and neck cancer. However, there has been no report on the oncological outcome of robotic or endoscopic RAND. The aim of this retrospective study was to assess the oncological outcomes of RAND compared with transcervical neck dissection (TCND) at a single center.

Subjects and Methods
180 patients with cN0 OSCC, who underwent transoral wide excisions for primary lesion with selective neck dissection (Level I-III) via conventional TCND or RAND between 2011 and 2017 were included in this study. We assessed the patterns of recurrence, overall survival rate, disease-free survival rate.

Results
Of the 180 patients included in the study, 140 and 40 underwent TCND and RAND, respectively. The mean follow-up period was 30.6 (SD: 19.35, range: 3-25) months for TCND and 37.2 (SD: 26.4, range: 2-88) months for RAND. There were almost no differences in the peri- and postoperative outcomes between groups. However, the RAND group showed a longer operation time than the TCND group and a high level of satisfaction regarding scars (p=0.001). The 5-year disease-free survival (TCND and RAND: 71.8% vs 87.0%, p=0.485) and overall survival (TCND and RAND: 84.2% vs 85.5%, p=0.242) rates were not significantly different between the 2 groups.

Conclusions
The findings in this study indicate that RAND was oncologically safe with clear cosmetic benefit. It could be substitutable for open surgery in cN0 OSCC patients.
Nut Niyomudomwatana

EDUCATION
High school: Triamudomsuksa Pattanakarn
1995-2001       MD: Naresuan university, Phitsanulok
2004-2007       Resident: ENT department, Rajavitee Hospital
2007-2008       Clinical Fellowship: Head and Neck surgery, ENT department, Rajavitee Hospital
2010-2011       Research fellow: Laryngology, MESS Eye and Ear Infirmary, Harvard University, Boston USA.

WORK
2001-2002       Internship, Angthong hospital, Angthong
2002-2004       Full time staff, Parmoke hospital, Angthong
2008-present    Full time staff, ENT department, Rajavitee hospital
Reconstructive Surgery in the Management of Advanced Head and Neck Cancers

Nut Niyomudomwatana
Department of Otolaryngology Head&Neck Surgery, Rajavithi Hospital, Ministry of Public Health, Bangkok, Thailand

Reconstruction in Head and Neck is a challenge procedure that may have to integrate various factors, even though the step of reconstruction is the basic concept that we have to follow, but in the current trend had been change. The simple solution may have limitation of reconstruction due to the arch of rotation, volume need and can cause of functional loss and less acceptable esthetics outcome. If the patient does not have contraindication for the major operation, complex reconstruction can maintain function and esthetics acceptability. Free flap reconstruction is reconstruction of choice which can replace the defect in various types of tissue, size, combine defect, and can follow by suitable rehabilitation. Furthermore, the aim of the surgery may need more cosmetic outcome without compromise of tumor salvation. Neck dissection with free flap reconstruction via retroauricular approach is an example, which can remove the disease, ideal reconstruction and minimized the scar formation.
Tatiana E. Kolegova

In 2011 graduated from Novgorod State University, Russia. In 2014 graduated from the residency in the specialty “Maxillofacial Surgery”, Pavlov First Saint Petersburg State Medical University, Russia. From 2014 to the present - maxillofacial surgeon of Pavlov First Saint Petersburg State Medical University. Main research interests: endoscopic and robotic head and neck surgery.

Author of 3 patents for invention.

SOME SCIENTIFIC ARTICLES

“Small (short) sub-SCM Single Hairline Approach for Excision Bening Neck Tumors. Functional And Aesthetic Benefits”

Tatiana E. Kolegova, Andrei I. Iaremenko
Pavlov First Saint Petersburg State Medical University, Saint Petersburg, Russia

Objectives
Development, justification and introduction to clinical practice of endoscopically-associated approaches to anatomical structures and formations of the neck. Minimally invasive diagnosis and treatment of neck pathologies.

Methods
patients with the following nosological forms of diseases were operated: second branchial cleft cysts; submandibular salivary gland adenoma; sialolithiasis of submandibular salivary gland; Eagle syndrome. We used conventional surgical approach and endoscope-assisted patent right sub-SCM single hairline approach from the hairline of the occipital region approximately 6 centimeters long.

In the post-operation period in both groups were performed clinical psychological study, neck skin sensory evaluation, neck termography, electroneurography of the platysma and neck ultrasound diagnostic.

Result
In group after conventional surgical approach were revealed: the presence of minimal scar deformity of the neck (clinically and according to the ultrasound examination) on the operated side of the neck; hyperesthesia of the scar area and hyperesthesia of the operated side of the neck; increased regional hemodynamics in the scar area and a decrease regional hemodynamics on the operated side as a whole; decreased amplitude M-response of the platysma muscle; a decrease in the "Quality of Life Index" and other clinical and psychological disorders. After endoscopically-associated operations, there were no such complications.

Conclusion
The results of this study suggest that endoscopically-associated sub-SCM single approach allow achieving high functional and aesthetic results of surgery.
Distinguished Speaker for Developing the Soft Robotic System

MODERATOR
Sei Young Lee, Chung Ang University, Korea

Flexible Endoscopic Robots: Expansion of Robotic Surgery
Dong-Soo Kwon, KAIST, Easy-Endo Surgical, Korea
Sei Young Lee

PROFESSIONAL EXPERIENCE
2014-- Professor and Chairman, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2009--2014 Associate Professor, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2005--2009 Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2004--2005 Clinical Fellow, Severance Hospital, Yonsei University
2002--2004 Chair of Otolaryngology Division, Armed Force Seoul Hospital
2001 Korean Board of Otorhinolaryngology
1997--2001 Residency of Otorhinolaryngology Department of Severance Hospital, Yonsei University
1996--1997 Internship in Severance Hospital, Yonsei University

EDUCATIONAL QUALIFICATION
2004--2007 Ph.D. degree from Yonsei University Graduate School
2000--2004 Master degree from Yonsei University Graduate School
1990--1996 M.D. degree from Yonsei University College of Medicine

ACADEMIC INTEREST
Head and Neck Oncology
Cancer Stem Cell
HPV in the Head and Neck Squamous Cell Carcinoma
DISTINGUISHED SPEAKER FOR DEVELOPING THE SOFT ROBOTIC SYSTEM

Dong-Soo Kwon

Professor, Department of Mechanical Engineering
Korea Advanced Institute of Science and Technology

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

Jan. 2019~Present Chairman of Korean Society of Medical Robotics
Jan. 2019~Present Member, Expert Committee on ICT Convergence, PACST
Oct. 2018~Present Senior Member of IEEE
Mar. 2018~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Feb. 2018~Present CEO of EASYENDO Surgical Inc.
Jan. 2016~Present Member, National Academy of Engineering of Korea (NAEK)
Sep. 2015~Present Chief Director, Korea Institute of Robot and Convergence
Jan. 2015~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Nov. 2014~Present CEO of EASYENDO Surgical Inc.
Oct. 2014~Present Member, National Academy of Engineering of Korea (NAEK)
Sep. 2014~Present Chief Director, Korea Institute of Robot and Convergence
Apr. 2014~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Mar. 2014~Present Member, National Academy of Engineering of Korea (NAEK)
Feb. 2014~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Jan. 2014~Present Member, National Academy of Engineering of Korea (NAEK)
Dec. 2013~Present Member, National Academy of Engineering of Korea (NAEK)
Nov. 2013~Present Chief Director, Korea Institute of Robot and Convergence
Oct. 2013~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Sep. 2013~Present Member, National Academy of Engineering of Korea (NAEK)
Aug. 2013~Present Senior Member of IEEE
Jul. 2013~Present Chief Director, Korea Institute of Robot and Convergence
Jun. 2013~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
May. 2013~Present Chief Director, Korea Institute of Robot and Convergence
Apr. 2013~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Mar. 2013~Present Chief Director, Korea Institute of Robot and Convergence
Feb. 2013~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Jan. 2013~Present Chief Director, Korea Institute of Robot and Convergence
Dec. 2012~Present Member, National Academy of Engineering of Korea (NAEK)
Nov. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Oct. 2012~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
Sep. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Aug. 2012~Present Member, National Academy of Engineering of Korea (NAEK)
Jul. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Jun. 2012~Present Member, Expert Committee on the Promotion of Academic Activities, KOFST
May. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Apr. 2012~Present Member, National Academy of Engineering of Korea (NAEK)
Mar. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Feb. 2012~Present Member, National Academy of Engineering of Korea (NAEK)
Jan. 2012~Present Chief Director, Korea Institute of Robot and Convergence
Dec. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
Nov. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Oct. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
Sep. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Aug. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
Jul. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Jun. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
May. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Apr. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
Mar. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Feb. 2011~Present Member, National Academy of Engineering of Korea (NAEK)
Jan. 2011~Present Chief Director, Korea Institute of Robot and Convergence
Dec. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
Nov. 2010~Present Chief Director, Korea Institute of Robot and Convergence
Oct. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
Sep. 2010~Present Chief Director, Korea Institute of Robot and Convergence
Aug. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
Jul. 2010~Present Chief Director, Korea Institute of Robot and Convergence
Jun. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
May. 2010~Present Chief Director, Korea Institute of Robot and Convergence
Apr. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
Mar. 2010~Present Chief Director, Korea Institute of Robot and Convergence
Feb. 2010~Present Member, National Academy of Engineering of Korea (NAEK)
Jan. 2010~Present Chief Director, Korea Institute of Robot and Convergence

RESEARCH INTERESTS

Medical Robotics, Human-Robot Interaction, Haptics,

PUBLICATIONS

2. "Learning 3D local surface descriptor for point cloud images of objects in the real-world", Seo, Juhwan, Kwon, Dong-Soo, ROBOTICS AND AUTONOMOUS SYSTEMS, v.116, pp.64-79, 2019.06
Flexible Endoscopic Robots: Expansion of Robotic Surgery

Dong-Soo Kwon
Professor, Department of Mechanical Engineering
Director, Center for Future Medical Robotics
Korea Advanced Institute of Science and Technology, Daejeon, Korea
Founder CEO, EasyEndo Surgical Inc.

This talk will present research on flexible surgical robotics of KAIST Center for Future Medical Robotics. We believe that next generation of the surgical robot should be developed considering the benefits to surgeon with easier access to the lesion and intuitive control, to patient with minimum invasiveness and fast recovery, and to hospital with affordable cost and reduction of surgery time.

In order to meet these requirements, flexible endoscopic surgery robots have been developed that can perform dexterous robotic surgery through a curved and narrow pathway by adding small robot arms to the flexible overtube. Due to the flexibility of the overtube, the robot can be usefully used to access to the lesion located at the deep area which is hardly achieved by conventional surgery robots. The robot arms provide dexterous motion for performing a surgical task in confined space. Several ex-vivo and in-vivo animal experiments had shown the effectiveness and feasibility of the flexible endoscopic surgery robot. Next generation of the robot has been developing with improved design specifications optimized for head and neck surgery. We aim to provide a modular flexible endoscopic robot system that can compatible with various size and length of surgical instruments according to a target surgery. With these robot technologies, we believe that surgeons can conduct a challenging surgery that has not been tried before.

Based on our research experience over the last 20 years, we are planning to commercialize our research outputs with our company, EasyEndo Surgical Inc. Our flexible robot technologies will expand the robotic surgery.
Keynote lecture 9

MODERATOR

Sandeep Samant, Northwestern University Feinberg School of Medicine, USA

The Role of Neoadjuvant Therapy Prior to TORS

Neil D. Gross, The University of Texas MD Anderson Cancer Center, USA
Sandeep Samant

EDUCATION
1987 M.B.B.S., Medicine, All-India Institute of Medical Sciences, New Delhi, India
1989 M.S., Otolaryngology, All-India Institute of Medical Sciences, New Delhi, India
1991 DNBE, National Academy of Medical Sciences of India
1994 FRCS, Otolaryngology, Royal College of Surgeons of England

TRAINING
INTERNERSHIP
Rotating internship, All-India Institute of Medical Sciences, New Delhi, January 1986 to December, 1986. Rotations in internal medicine, general surgery, obstetrics and gynecology, pediatrics and community medicine.

RESIDENCY
January 1987 to December 1989: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Junior Resident, Otolaryngology.
January 1990 to June 1990: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Senior Resident, Otolaryngology.

POSTGRADUATE TRAINING
May 1992 to December 1992: Sandwell District General Hospital Department of Ear, Nose and Throat Surgery West Bromwich, United Kingdom. Senior House Officer, Otolaryngology.
January 1993 to June 1993: Dudley Road Hospital Department of Otolaryngology-Head and Neck Surgery Dudley Road, Birmingham, United Kingdom. Senior House Officer, Otolaryngology.
July 1993 to July 1994: Stockport Infirmary Department of Ear, Nose and Throat Surgery Stockport, United Kingdom. Registrar, Otolaryngology.

FELLOWSHIPS

LICENSURE / CERTIFICATION
American Board of Otolaryngology, 2009. Certificate Number: 22332

ACADEMIC APPOINTMENTS
February 1, 2015 to present: Professor, Department of Department of Otolaryngology-Head and Neck Surgery, Chief Division of Head and Neck Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL 60611
July 2010 to January 2015: Professor and Vice-chairman, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163
July 2004 to June 2010: Associate Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163. Awarded tenure from July 2005.
July 2002 to present: Chief, Division of Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
January 2000 to June 2004: Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
July 1999 to December 1999: Research Fellow, Department of Otolaryngology Head and Neck Surgery, College of Medicine, University of Tennessee, Memphis Tennessee.
July 1990 to March 1991: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Research Associate, Otolaryngology.
Neil D. Gross, MD, FACS

EDUCATION

DEGREE-GRANTING EDUCATION
Washington University, St. Louis, MO, BA, Honors, 1994, Biology
Oregon Health and Science University, Portland, OR, MD, Magna Cum Laude, 1998, Medicine

POSTGRADUATE TRAINING
Clinical Internship, General Surgery, Mount Sinai School of Medicine, New York, NY, 7/1998-6/1999
Clinical Residency, Otolaryngology-Head and Neck Surgery, Oregon Health and Science University, Portland, OR, 7/1999-6/2003
Research Fellowship, Head and Neck Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, 7/2003-12/2004
Clinical Fellowship, Head and Neck Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, 1/2005-12/2005
Clinical Research Program, Human Investigations Program, Oregon Health and Science University, Portland, OR, 7/2006-12/2010
Faculty Leadership Academy, The University of Texas MD Anderson Cancer Center, Houston, TX, 9/2017-5/2018

CREDENTIALS

BOARD CERTIFICATION
Diplomat, American Board of Otolaryngology, 18253, 5/2004-5/2024, Recertification Date: 2/2014

Licensures
ACTIVE
Medical License, TX, Q1156, 8/2014

INACTIVE
Medical License, OR, MD26411, 2/2006-12/2014
The Role of Neoadjuvant Therapy Prior to TORS

Neil D. Gross
The University of Texas MD Anderson Cancer Center, USA
Distinguished Speaker for Surgical Treatment of Oropharyngeal Cancer

MODERATOR
Kee Hwan Kwon, Hanyang University, Korea

Surgical Treatment of Oropharyngeal Cancer: Lessons Learned from a Decade of Experience
Sandeep Samant, Northwestern University Feinberg School of Medicine, USA
Kee Hwan Kwon

Professor of Otolaryngology H&N department at Hallym University Medical Center
Director of Planning Department at Kangdong Sacred Heart Hospital

EDUCATION
1983-1989 M.D. degree from Kyung-Hee University college of medicine
1996-1998 Master degree from Han-yang University college of medicine
1999-2002 PhD. from Korea University Graduate school

CAREER
2006-2010 Associate professor at Otolaryngology H&N department of Kyung-Hee University Medical Center
2010-2011 Professor at Otolaryngology H&N department of Kyung-Hee University Medical Center
2012- Professor at Otolaryngology H&N department of Hallym University Medical Center
2014- Director at Otolaryngology H&N department of Hallym University Medical Center
2016- Planning Director at Kangdong Sacred Hospital, Hallym University Medical Center

Kee Hwan Kwon

Professor of Otolaryngology H&N department at Hallym University Medical Center
Director of Planning Department at Kangdong Sacred Heart Hospital

EDUCATION
1983-1989 M.D. degree from Kyung-Hee University college of medicine
1996-1998 Master degree from Han-yang University college of medicine
1999-2002 PhD. from Korea University Graduate school

CAREER
2006-2010 Associate professor at Otolaryngology H&N department of Kyung-Hee University Medical Center
2010-2011 Professor at Otolaryngology H&N department of Kyung-Hee University Medical Center
2012- Professor at Otolaryngology H&N department of Hallym University Medical Center
2014- Director at Otolaryngology H&N department of Hallym University Medical Center
2016- Planning Director at Kangdong Sacred Hospital, Hallym University Medical Center
Sandeep Samant

EDUCATION
1987 M.B.B.S., Medicine, All-India Institute of Medical Sciences, New Delhi, India
1989 M.S., Otolaryngology, All-India Institute of Medical Sciences, New Delhi, India
1991 DNBE, National Academy of Medical Sciences of India
1994 FRCS, Otolaryngology, Royal College of Surgeons of England

TRAINING
INTERNSHIP
Rotating internship, All-India Institute of Medical Sciences, New Delhi, January 1986 to December 1986. Rotations in internal medicine, general surgery, obstetrics and gynecology, pediatrics and community medicine

RESIDENCY
January 1987 to December 1989: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Junior Resident, Otolaryngology
January 1990 to June 1990: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Senior Resident, Otolaryngology

POSTGRADUATE TRAINING
May 1992 to December 1992: Sandwell District General Hospital Department of Ear, Nose and Throat Surgery West Bromwich, United Kingdom. Senior House Officer, Otolaryngology
January 1993 to June 1993: Dudley Road Hospital Department of Otolaryngology-Head and Neck Surgery Dudley Road, Birmingham, United Kingdom. Senior House Officer, Otolaryngology
July 1993 to July 1994: Stockport Infirmary Department of Ear, Nose and Throat Surgery Stockport, United Kingdom. Registrar, Otolaryngology

FELLOWSHIPS

LICENSE / CERTIFICATION
American Board of Otolaryngology, 2009. Certificate Number: 22332

ACADEMIC APPOINTMENTS
February 1, 2015 to present: Professor, Department of Department of Otolaryngology-Head and Neck Surgery, Chief Division of Head and Neck Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL 60611
July 2010 to January 2015: Professor and Vice-chairman, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163
July 2004 to June 2010: Associate Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163. Awarded tenure from July 2005.
July 2002 to present: Chief, Division of Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
January 2000 to June 2004: Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, College of Medicine, University of Tennessee-Memphis, Memphis TN 38163.
July 1999 to December 1999: Research Fellow, Department of Otolaryngology Head and Neck Surgery, College of Medicine, University of Tennessee, Memphis Tennessee.
July 1990 to March 1991: All-India Institute of Medical Sciences Department of Otolaryngology-Head and Neck Surgery New Delhi, India. Research Associate, Otolaryngology.
IRSS Symposium 3: TORS for Oropharyngeal Cancer and Unknown Primary

MODERATOR
Eddy Wong, The Chinese University of Hong Kong, Hong Kong
Sei Young Lee, Chung Ang University, Korea

TORS in the Oropharynx: Evolution and Revolution
Armando De Virgilio, Humanitas University, Italy

HPV Detection in Oropharyngeal Squamous Cell Carcinomas: Clinical Significance and Implications for the Indications of TORS
Francesco Bussu, Azienda Ospedaliera Universitaria di Sassari, Italy

TORS for Recurrent Oropharyngeal Cancer
Seungwon Kim, University of Pittsburgh, USA

Transoral Robotic Surgery for Carcinoma of Unknown Primary
Stephen Kang, The Ohio State University, USA

Techniques for Haemostasis and Vascular Anatomy in TORS for Oropharyngeal SCC
Richard Gallagher, The University of Notre Dame, Australia

Recent Consideration of Adjuvant Therapy after TORS in OPSCC Patient
Min Hee Hong, Yonsei University, Korea
Eddy Wong

Dr. Eddy Wong graduated at the medical faculty of The Chinese University of Hong Kong (CUHK). After graduation from the medical school, he pursued his ENT specialist training in the United Christian Hospital and the Prince of Wales Hospital (PWH). After that, he developed an interest in head & neck surgery. He underwent further subspecialty training both locally and overseas including the attachment to Chang Gung Memorial Hospital in Taiwan and MD Anderson Cancer Hospital in Houston.

He is currently the Chief of service for the Department of ENT, Prince of Wales Hospital, Chief, division of head & neck, Department of Otorhinolaryngology, head & neck surgery, CUHK.


Aside from head and neck oncology surgery, he also interested in robotic and endoscopic surgery for head and neck disease.
Sei Young Lee

PROFESSIONAL EXPERIENCE
2014–
Professor and Chairman, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2009–2014
Associate Professor, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2005–2009
Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Chung-Ang University College of Medicine
2004–2005
Clinical Fellow, Severance Hospital, Yonsei University
2002–2004
Chair of Otolaryngology Division, Armed Force Seoul Hospital
2001
Korean Board of Otorhinolaryngology
1997–2001
Residency of Otorhinolaryngology Department of Severance Hospital, Yonsei University
1996–1997
Internship in Severance Hospital, Yonsei University

EDUCATIONAL QUALIFICATION
2004–2007
Ph.D. degree from Yonsei University Graduate School
2000–2004
Master degree from Yonsei University Graduate School
1990–1996
M.D degree from Yonsei University College of Medicine

ACADEMIC INTEREST
Head and Neck Oncology
Cancer Stem Cell
HPV in the Head and Neck Squamous Cell Carcinoma
Armando De Virgilio

CURRENT POSITIONS
01/10/19-present Assistant Professor in Otorhinolaryngology, Humanitas University Milan
01/09/2017-30/09/19 Adjunct Professor in Otorhinolaryngology, Humanitas University Milan
20/02/2018-present Staff Physician at the ENT Unit, Humanitas Clinical and Research Center, Milan, Italy

EDUCATION AND TRAINING
10/01/2008 Degree in Medicine and Surgery at ‘Campus Bio-Medico’ University of Rome with 110/110 and praise.
07/07/2014 Specialist in Otolaryngology- Head and Neck Surgery with 70/70 and praise, ‘Sapienza’ University of Rome, Italy
01/11/2015-09/02/2018 PhD in Advanced technologies in surgery at ‘Sapienza’ University of Rome
01/07/2015-01/01/2016 Junior researcher at the National Cancer Institute ‘Regina Elena’ of Rome, Italy
16/01/2010-14/04/2010 Short term fellowship, Department of Otolaryngology, Yonsei University College of Medicine, Seoul, South Korea. Field of Interest: Transoral robotic surgery.
07/03/2011-30/09/2011 Clinical Fellowship, Department of Otolaryngology, Yonsei University College of Medicine, Seoul, South Korea. Field of Interest: Transoral robotic surgery, Head and Neck Surgery.
16/12/2012-21/12/2012 Clinical Observer at the ENT Department of the CHU Mont-Godinne, Université Catholique de Louvain, Belgium.
1/8/2013-29/1/2014 Clinical fellowship in Otolaryngology-Head and Neck Surgery, Taichung Veterans Hospital ENT Department, Taichung City, Taiwan.
16/07/2014-01/03/2015 Fellowship in Head and Neck and Reconstructive Surgery at Rajavithi Hospital, ENT Department, Bangkok, Thailand.

SCIENTIFIC ACTIVITY
1. Reviewer for ‘The Laryngoscope’ journal 2011-2018
2. Reviewer for ‘Head and Neck’ journal 2013-2018
4. Secretary of the President and Counselor of the Italian Laryngological Society for the years 2013-2015.
5. Founding member of the Italian Laryngological Society.

RELEVANT PUBLICATIONS
TORS in the Oropharynx: Evolution and Revolution

Armando De Virgilio
ENT Department, Humanitas Clinical and Research Center, Humanitas University, Milan, Italy

Transoral robotic surgery (TORS) has proven to be an effective technique to safely treat oropharyngeal, hypopharyngeal and supraglottic tumors surgically. In fact, traditional surgical principles are employed using improved endoscopic visualization and precise instrumentation to perform oncologic surgery without the morbidity of transmandibular or transcervical approaches. Although level 1 evidence prospective clinical trials are currently underway for TORS, the literature supports its safety and efficacy based on numerous studies. Currently, prospective randomized trials are underway to provide better evidence for or against TORS in oropharyngeal cancer. Furthermore new evidences support the utility of TORS in the diagnostic workup of the occult head and neck primary tumor. Patient selection based on comorbidities, anatomy, and available pathological data is critical in choosing patients for TORS. The aim of the lecture is to analyze the current status of the art about TORS application in the oropharyngeal area.
Francesco Bussu, MD, PhD

CURRENT APPOINTMENTS
Assistant Professor in Otorinolaringology at Università Cattolica del Sacro Cuore since 2004.
Chief of ENT division at Azienda Universitaria Ospedaliera in Sassari dal since 2017.
Head of Neurosciences/Head and Neck Department and member of the Hospital Steering Committee at Azienda Universitaria Ospedaliera in Sassari since 2018.

STAGES ABROAD AND IN ITALY
- European Institute of Oncology, Milan, 6 months in 2002: training in basic research on gene expression evaluated by RT-PCR in cancer cells;
- Beth Israel, New York, with dr Urken, 3 months in 2005: training in head and neck oncologic and reconstructive surgery;
- MD Anderson Cancer Center, Houston, with dr RS Weber, 3 months in 2005: training in multidisciplinary approach to head and neck malignancies;
- Caen University Hospital, with dr. D Labbè, 1 week in 2009: training in novel surgical techniques for rehabilitation of facial palsy;
- Luebeck University, Germany, with Dr G Kovacs, 1 week in 2010: training in brachytherapy of head and neck cancers;
- Severance Hospital Yonsei University, with Dr Se-Heon Kim, 1 week in 2012: training in head and neck robotic surgery.

AWARDS
1993 Honourable mention for the high school graduation;
1999 Cash prize (about 5000 euros) best oncologic degree theses of the year
1999 ‘Award Agostino Gemelli 1999’, to the best Medical graduated of the year
2013 ‘Award Italo Serafini 2013’, by the Italian Society of Head and Neck Oncology (AIOCC) for the best free paper in the national congress.

RESEARCH, CLINICAL AND TEACHING ACTIVITIES
More than 60 papers, mostly in preminent positions, in indexed and impacted journals, mainly about head and neck surgery and oncology and in particular virus induced carcinogenesis, but also on rhinology, phoniatrics and general otolaryngology (IF according to JCR 2017 ed: 156; h-index: 19).

He serves as reviewer for several international impacted journals, such as Cancer Research, Carcinogenesis, Clinical Cancer Research, Oncotarget, International Journal of Cancer, British Journal of Cancer, Radiotherapy and Oncology, Cancer Epidemiology Biomarkers and Prevention, Laryngoscope, Head and Neck, Acta Otolaryngologica Scandinavica, BMC Surgery, Cancer Medicine, International Journal of Pediatric Otolaryngology, Acta Otolaryngologica Italica, PLOS One, Clinical Otolaryngology, JAMA Otolaryngology, Annals of Surgical Oncology.

Since 2012 he serves as expert for the Italian University and Science ministry in the evaluation of PRIN and SIR proposals.
Since 2012 he serves as expert for the Italian National Agency for evaluation of research (ANVUR).
Since 2014 he serves as Expert for the European Commission in the Horizon 2020 program and in the 3rd Health Program.

About 5000 surgical procedures in all the subspecialties of Otolaryngology and in particular head and neck oncology.
He introduced in Italy the lengthening temporalis myoplasty (Labbè operation) for long term facial paralysis rehabilitation. He performed more than 60 brachytherapy implants for head and neck malignancies (the largest series in Italy). Expertise in Audiology, Vestibology, Phoniatrics.

He is the head teacher of Otolaryngology in the Sassari School of Medicine, and keeps appointments both in the School of Medicine and in the Schools of Speech Therapy of the Università Cattolica del Sacro Cuore.
HPV Detection in Oropharyngeal Squamous Cell Carcinomas. Clinical Significance and Implications for the Indications of TORS

Francesco Bussu
Azienda Ospedaliera Universitaria di Sassari, Italy

The first works specifically evaluating molecular markers in head and neck squamous cell carcinomas (HNSCC) in a perspective of translational research date back at least to the 70ies 1. Translational research was supposed to be able to widely impact clinical practice, yet, after 40 years, the impact of translational research on the daily clinical practice in head and neck oncology is de facto limited to a single molecular targeted drug approved by FDA (C225).

Anyway, the scientific evidence accumulated in the last 20 years 2-5 about the prognostic significance of high risk Human Papillomavirus (hr-HPV) infection in SCC from a single site, which is the oropharynx, lead this parameter to be included in the AJCC TNM classification and in the main international guidelines guidelines. Still, despite a notable volume of literature hypothesizing treatment modulation through HPV detection in oropharyngeal squamous cell carcinomas (OPSCC),6 the same NCCN justifies at present such approach only in clinical trials. The main reason is probably that, with a proper, careful attitude, the NCCN panel waits for the demonstration in randomized trials that deintensification of treatment in HPV-positive OPSCC, which can be for sure beneficial as for functional results, is also oncologically safe.

Anyway, we do believe that there is also another fundamental concern hampering the safe introduction of most promising molecular markers and especially of HPV in head and neck clinical practice, which is the consensus about the best diagnostic method(s).

We first describe our experience in testing the diagnostic tools for HPV infection in head and neck squamous cell carcinomas.

The clear value of HR HPV infection in predicting improved survival contributed to its inclusion in the work up of OPSCC7 and stimulated an intense debate concerning treatment deintensification in HPV-related OPSCC.

Among the options for treatment deintensification, transoral surgery, in particular using surgical robots, is currently increasing in popularity.

Still, to fully include and recommend TORS as primary treatment in HPV-related OPSCC, in order to deintensify treatments without compromising oncological outcomes, there is a question to answer:

- Is treatment deintensification through primary surgery rational for treating notoriously radiosensitive malignancies, such as HPV-related OPSCC? Is the survival obtained through TORS in this group really equivalent to that obtained with chemoradiation?

The question can be formulated in other terms as: “Is HPV a prognostic marker independently on the primary treatment or is it simply a predictor of response to radiochemotherapy?”

In the second part of this presentation we evaluate literature and personal data to answer to this critical question.

Reference List


Seungwon Kim, MD

EDUCATION AND TRAINING

UNDERGRADUATE

1988-1992 Columbia University, School of Engineering, New York, New York
B.S., Biomechanical Engineering
1992-1994 State University of New York, Graduate School of Arts and Sciences, Buffalo, New York
M.A., Biological Sciences
1998 State University of New York, At Syracuse Health Science Center, Syracuse, New York
M.D.

POSTGRADUATE:

1998 -1999 Internship, Department of General Surgery, State University of New York, Upstate Medical University, Syracuse, New York
Dr. Paul R.G. Cunningham
1999 - 2003 Residency, Department of Otolaryngology - HNS, State University of New York, Upstate Medical University, Syracuse, New York
Dr. Robert Kellman
2003 - 2005 Research Fellowship in Head and Neck, Surgical Oncology, The University of Texas MD Anderson Cancer Center, Houston, Texas
Dr. Jeffrey N. Myers
2005 - 2006 Clinical Fellowship, Department of Head and Neck Surgery, The University of Texas MD Anderson Cancer Center, Houston, Texas
Dr. Jeffrey N. Myers

APPOINTMENTS AND POSITIONS

ACADEMIC

2005 - 2006 Surgical Oncology, U.T. M.D. Anderson Cancer Center, Houston, Texas
Clinical Specialist
2006 - 2015 Department of Otolaryngology, University of Pittsburgh School of Medicine
Assistant Professor
2011-Present Molecular Pharmacology Graduate Program, University of Pittsburgh School of Medicine
Training faculty
2015 - Present Department of Otolaryngology, University of Pittsburgh School of Medicine
Associate Professor
2017 - Present Division of Head and Neck Surgery, Department of Otolaryngology, University of Pittsburgh School of Medicine
Interim Division Chief

CERTIFICATION AND LICENSURE

SPECIALTY CERTIFICATION
American Board of Otolaryngology - Head and Neck Surgery, May 25, 2004 #18333

MEDICAL OR OTHER PROFESSIONAL LICENSURE
2006 Commonwealth of Pennsylvania # MD 429200
2006 DEA License # BK9315020
TORS for Recurrent Oropharyngeal Cancer

Seungwon Kim
University of Pittsburgh, USA

Transoral robotic surgery (TORS) for primary oropharyngeal cancer is a widely-accepted treatment modality. However, the role of TORS in management of recurrent oropharyngeal cancer remain unclear. Surgical and postoperative care of salvage surgery present the surgeons with unique challenges and considerations. In this session, we will discuss the efficacy and safety of TORS as salvage surgery for recurrent oropharyngeal tumors.
Stephen Y. Kang, MD, FACS

Otolaryngology - Head and Neck Surgery, The Ohio State University Wexner Medical Center

EDUCATION AND TRAINING

Undergraduate
BA - Music, Eckerd College, St. Petersburg, FL

Medical School
M.D. - University of Michigan Medical School, Ann Arbor, MI

Residency
Otolaryngology - Head and Neck Surgery
University of Michigan Hospitals, Ann Arbor, MI

Fellowship
Head and Neck Oncologic Surgery and Reconstructive Microsurgery
The Ohio State University
The James Cancer Hospital and Solove Research Institute
Columbus, OH

APPOINTMENTS AND POSITIONS

Positions
2015 - Present Assistant Professor, Otolaryngology-Head and Neck Surgery, The Ohio State University
2015 - Present Associate Residency Program Director
2015 - Present Director of Medical Student Education
2018 - Present Co-Director, Head and Neck Oncologic Surgery and Microvascular Reconstruction Fellowship

PROFESSIONAL HONORS AND AWARDS

Excellence in Teaching Award, awarded by the OSU Otolaryngology Residency Class of 2017
Top 10% Patient Satisfaction Nationally
Top 10% Patient Satisfaction, The Ohio State University
Top 10% Peer Reviewer, Oral Oncology
Merle Lawrence Research Award for Outstanding Research, University of Michigan
Albert Furstenberg Award for most outstanding graduate in Otolaryngology-Head and Neck Surgery, University of Michigan

PROFESSIONAL MEMBERSHIPS

Academy of Otolaryngology-Head and Neck Surgery
American Head and Neck Society (AHNS)
AHINS Scientific Program Committee
AHINS Reconstructive Committee
AHINS Education Committee
AHINS Publications Committee
AHINS Endocrine Surgery Section
Society of University Otolaryngologists - Head and Neck Surgeons
Association for Academic Surgery
Fellow, American College of Surgeons
Transoral robotic surgery for carcinoma of unknown primary.

Stephen Y. Kang, Dustin A. Silverman, Chen Lin, Sonia Zhao, Paul E. Wakely, Ricardo L. Carrau, Theodoros N. Teknos, James W. Rocco, Amit Agrawal, Nolan B. Seim, Matthew O. Old, Enver Ozer.
The Ohio State University Wexner Medical Center, James Cancer Hospital and Solove Research Institute, Columbus, Ohio, USA

Introduction
Carcinoma of unknown primary (CUP) is rising in incidence. Identification of the primary site is of paramount importance in the management of these patients. Transoral robotic surgery (TORS) has emerged as a modality for identification and treatment of the primary tumor.

Methods
Patients were defined as having CUP if they underwent physical examination, flexible laryngoscopy, PET/CT, and direct laryngoscopy and esophagoscopy without definitive identification of the primary site. These patients subsequently underwent TORS palatine and lingual tonsillectomy. A subset of these patients also underwent selective neck dissection.

Results
A total of 56 patients with CUP underwent TORS for identification of the primary tumor. The median age was 56 years, 47 were men (84%), 47 were p16+ (84%), and 42 (75%) had at least 10 pack year history of smoking. TORS identified the primary tumor in 42 of 56 (75%) patients. All primary tumors identified with TORS were located in the oropharynx. Of all patients, 30 (54%) were identified in the palatine tonsil and 12 (21%) were identified in the tongue base while 14 patients (25%) did not have an identifiable primary site. Three patients (5%) had bilateral palatine tonsil primary tumors. 42 patients (75%) underwent selective neck dissection, with a mean of 2.4 positive lymph nodes, and 13 patients (31%) of patients undergoing neck dissection had evidence of pathologic extracapsular spread.

Conclusion
In patients with CUP, TORS palatine tonsillectomy and lingual tonsillectomy resulted in identification of the primary site in 75% of patients. Of those identified, all were in the oropharynx, with 71% identified in the palatine tonsil and 29% identified in the tongue base. 25% of patients in this cohort did not have an identifiable primary site.
Richard Gallagher
St Vincent’s Hospital, Sydney, Australia
Director Head and Neck Service, Director Cancer Services St Vincent’s Hospital Network, Sydney
A/Prof

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
FRACS 1995
Fellowships 1996 Princess Alexandria Hospital, Brisbane, Australia
1997-1998 University of Virginia, Charlottesville, VA, USA
1998 Appointed St Vincent’s Hospital, Sydney, Australia
2013-2017 Chair, Board of Otolaryngology-Head and Neck Surgery, RACS
2013-Present Director Head and Neck Service, St Vincent’s Hospital, Sydney
2015-Present Director Cancer Services, St Vincent’s Health Network, Sydney

RESEARCH INTERESTS
Genomics of metastatic HPV +ive OPSCC
Techniques for Haemostasis and Vascular Anatomy in TORS for Oropharyngeal SCC

Richard Gallagher
Sydney, Australia

The most feared post-operative complication of transoral robotic surgery (TORS) for the management of oropharyngeal squamous cell carcinoma (OPSCC) is severe haemorrhage resulting in death. There are many factors which may contribute to bleeding in the post-operative period. These will be discussed in this presentation including the authors own series of 180 cases.

An understanding of transoral anatomy is the foundation of safe surgical technique which allows a predictable and reproducible approach to the robotic excision of all stages of OPSCC. The literature suggests that surgeon experience significantly impacts on the incidence of post-operative bleeding. Prophylactic transcervical arterial ligation remains an area of controversy with no evidence that it prevents post-operative bleeding. Finally, the introduction of a new reliable vascular appliance will be discussed.
Min Hee Hong, MD

Assistant Professor, Division of Medical Oncology, Department of Internal Medicine, Yonsei Cancer Center, Severance Hospital, Yonsei University College of Medicine

ACADEMIC INTEREST
Lung cancer, EGFR mutation, Head and Neck Cancer, Esophageal Squamous Cell Carcinoma, Targeted agent, Immunotherapy

EDUCATION
Mar 1999 – Feb 2005 Medical Doctor, Yonsei University College of Medicine, Seoul, Korea
Sep 2007 – Aug 2015 Master of Science in Medicine, Yonsei University Graduate School, Seoul, Korea

POSTGRADUATE TRAINING AND JOB CAREER
Internship and Residencies
Mar 2005 – Feb 2006 Severance Hospital, Yonsei University College of Medicine, Seoul, Korea
- Rotating Internship
Mar 2006 – Feb 2010 Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea
- Residency (Specialty: Medical Oncology)

Military Service
May 2010 – Apr 2011 Department of Internal Medicine, Baek-Ryung Hospital, Incheon, Korea
- Department Chief (Alternative Military Service)
May 2011 – Apr 2013 Department of Internal Medicine, Kang-Hwa Hospital, Incheon, Korea
- Department Chief (Alternative Military Service)

Fellowship
May 2013 – Feb 2014 Division of Medical Oncology, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea
- Fellowship
Mar 2014 – Feb 2015 Division of Gastroenterology & Hepatology, Department of Internal Medicine, Seoul National University Boramae Medical Center, Seoul, Korea
- Fellowship

Job Career
Jun 2015 – Feb 2016 Merck Sharp & Dohme Corp. Medical Affairs - Oncology
- Medical Advisor
Mar 2016 – Division of Medical Oncology, Department of Internal Medicine, Yonsei Cancer Center, Severance Hospital, Yonsei University College of Medicine, Yonsei University Health System
- Assistant Professor
Recent Consideration of Adjuvant Therapy after TORS in OPSCC Patient

Min Hee Hong
Yonsei University, Korea
Keynote lecture 10

MODERATOR
Se-Heon Kim, Yonsei University, Korea

The Era of Nanotechnology: How the Nanotechnology Revolution Will Augment Robotic Surgery
Jonathan C Irish, University of Toronto, Canada
Se-Heon Kim, MD, PhD

Demographic
Professor, Chairman & Director
Department of Otorhinolaryngology
Yonsei University College of Medicine
Director
Yonsei Head & Neck Cancer Center, Yosei Cancer Hospital
President
The Korean Society of Head and Neck Surgery, Seoul, Korea

EDUCATION
1988. 3. Received the Academic Degree of M.D. from Yonsei University College of Medicine
1995. 2. Received the Academic Degree of Master of Science from Yonsei University College of Medicine
2000. 2. Received the Academic Degree of PhD. from Yonsei University College of Medicine

POSTGRADUATE TRAINING
1988. 3-1989. 2 Intern in Severance Hospital, Yonsei University
1989. 3-1992. 2 Resident in Otolaryngology Severance Hospital, Yonsei University
1992. 3 Received the Otolaryngology and Head and Neck Surgery Board from Korean Otorhinolaryngological Society

MILITARY SERVICE
1992. 3-1995. 4 Republic of Korea Army, Position: Medical officer (Captain).

ABROAD TRAINING
1995 10.1.-1995.10.31 Institute of Logopedics & Phoniatrics Tokyo University, Tokyo, Japan
As a Special Researcher
1998.3.1-2000.3.31 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2003.5.1-2005.4.30 Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2008.2 Transoral Robotic surgery course (Basic course) University of Pennsylvania, USA
2009.2 Transoral Robotic surgery course (Advanced Course) Certification of Console surgeon
University of Pennsylvania, USA

ACADEMIC APPOINTMENT
1995. 5-1998. 2 Instructor Department of Otorhinolaryngology (H&N Division)
Yonsei University College of Medicine
1998. 3-2000.3 Research Fellow in Surgical Oncology Lab. Head & Neck Surgery
Memorial Sloan-Kettering Cancer Center NY, NY, USA
2000. 4.-2006.2 Assistant Professor Department of Otolaryngology (H&N Division)
Yonsei University College of Medicine
2003.5.-2005.4. Visiting Investigator Head & Neck Surgery Memorial Sloan-Kettering Cancer Center NY, NY, USA
2006. 3.-2010 Associate Professor Department of Otolaryngology (H&N Division) Yonsei University College of Medicine
2011-Now Professor of Department of Otorhinolaryngology Yonsei University College of Medicine
2015.3-Now Director of Yonsei Head & Neck Cancer Center, Yonsei Cancer Hospital
2016.3-Now Chairman & Director of Department of Otorhinolaryngology Yonsei University College of Medicine
Jonathan Irish, MD, MSc, FRCSC, FACS

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

DEGREES
1991 MSc, Molecular Biology, University of Toronto, Toronto, Ontario
1984 MD, University of Toronto

POSTGRADUATE, RESEARCH AND SPECIALTY TRAINING:
Training in Head and Neck Oncology, Head and Neck Surgical Oncology, Department of Otolaryngology-Head and Neck Surgery,
University of Toronto, Ontario, Canada,

QUALIFICATIONS, CERTIFICATIONS AND LICENSES
1996 Fellow, American College of Surgeons
1992 Diplomate, American Board of Otolaryngology
1992 Fellow, American Academy of Otolaryngology-Head and Neck Surgery
1991 Fellow, Royal College of Physicians and Surgeons of Canada
1985 Licentiate, Medical Council of Canada

Dr. Jonathan Irish graduated with his M.D. degree from the University of Toronto. He then completed residency training at the University of California in Los Angeles and the University of Toronto. He completed his Master of Science degree in Molecular Biology at the Institute of Medical Science at the University of Toronto where he studied the molecular biological characteristics of head and neck cancers. Dr. Irish completed the American Head and Neck Society Fellowship in Head and Neck Surgical Oncology, and joined Toronto General Hospital and the Princess Margaret Cancer Centre in 1992.

Dr. Irish is currently a Professor of Otolaryngology - Head and Neck Surgery and the Head of the Head and Neck Oncology and Reconstructive Surgery Division at the University of Toronto. He is a head and neck surgical oncologist and reconstructive surgeon with particular expertise and interest in oral cancer, melanoma and skin cancer, thyroid cancer as well as salivary gland tumors and malignancies.

Dr. Irish served as the Chief of the Department of Surgical Oncology at the Princess Margaret Cancer Centre from 2000 to 2016. Since 2004, he has been a major health policy advisor and responsible for access to care, quality improvement, and health care funding for the Surgical Oncology Program at Cancer Care Ontario. In 2004, he became the Clinical Lead for Access to Care and Strategic Funding Initiatives for the Surgical Oncology Program at Cancer Care Ontario and is responsible for the Cancer Surgery Wait Times portfolio. He was the Provincial Clinical Lead for Access to Services and Wait Times for the province of Ontario from 2008-2012. In 2008, Dr. Irish was appointed as the Provincial Head of the Surgical Oncology Program at Cancer Care Ontario where he has provided leadership and oversight linking volume funding to quality improvement.

Dr Irish has served as the President of the American Head and Neck Society (AHNS) for 2017-2018. He is a double recipient of the American Head and Neck Society Presidential Citation with distinction. This is the highest honour bestowed by the AHNS recognizing contributions to the field of head and neck surgery in research, innovation, leadership and education. He is a recipient of the Honorary Membership Award with distinction from the Israeli Society of Head and Neck Surgery and Oncology, and the Honour Award with distinction from the Canadian Society of Otolaryngology - Head and Neck Surgery for his long-term contributions to otolaryngology - head and neck surgery in Canada. Dr. Irish has received the Distinguished Alumnus Award from the University of Toronto, Department of Otolaryngology - Head and Neck Surgery as one “who has demonstrated an exceptional commitment to the practice and teaching of Otolaryngology - Head and Neck Surgery and whose professional and ethical standards have been of the highest order”
The Era of Nanotechnology: How the nanotechnology revolution will augment robotic surgery

Jonathan Irish
Provincial Head, Surgical Oncology, Cancer Care Ontario, The Kevin and Sandra Sullivan Chair in Surgical Oncology, Professor and Head, Division of Head and Neck Oncology and Reconstructive Surgery, Princess Margaret Cancer Centre, University of Toronto

In an era where “Personalized Cancer Medicine” and the robotic surgery revolution are intersecting, treatment approaches have an opportunity to interact synergistically to maximize patient outcomes.

The “OR of the Future” will merge new real-time image guidance modalities with robotics, photonic imaging technologies, functional molecular imaging and advanced ablative technologies to ensure that the OR of the future will be different than the OR of today. The lecture will concentrate on pre-clinical head and neck studies on phantom, cadaveric and animal models to develop new imaging, tracking and navigation technologies to enable “near real-time” “on-the-table” sub-millimeter imaging and tumour targeting. The result will be an improvement in complete macroscopic ablation of head and neck tumours as surgeons will be better able to delineate tumour boundaries and increasingly enable minimal access approaches for some tumours. The development of new theranostic agents—agents that are diagnostic and therapeutic—will allow the use of photonics and “on the table imaging” modalities to localize tumours and allow these agents to photodynamically or photothermally ablate tumours. This will augment the therapeutic index of robotic surgery.

A look to the future with the integration of nanotechnology, image guidance with intra-operative tracking, robotics and innovative ablative therapies will focus on head and neck cancer treatment with particular application to thyroid and pharyngeal cancer.
9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM

“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”

Keynote lecture 11

MODERATOR
Young Soo Rho, ThanQ Seoul Surgery Center, Korea

Precision Surgery is the Real Impact of Robotic HN Surgery: Beyond Cosmesis and Money
Yoon Woo Koh, Yonsei University, Korea
Young Soo Rho, MD, PhD

Director, Head and Neck -Thyroid Cancer Division, ThanQ Seoul Surgery Center

ACADEMIC EDUCATION
1979 B.M. College of Medicine, Yonsei University, Seoul, Korea
1983 M.S. College of Medicine, Yonsei University, Seoul, Korea
1989 M.D., Ph.D College of Medicine, Hallym University, Seoul, Korea

ACADEMIC APPOINTMENTS
1990-1995 Assistant Professor of ORL-HNS, College of Medicine, Hallym University
1992-1993 Research Fellow of ORL-HNS, Vanderbilt University, USA
1996 Visiting Professor of ORL-HNS, Queen Mary Hospital, Hong Kong
1996-1998 Associate Professor of ORL-HNS, College of Medicine, Hallym University
1998-2014.2 Professor of ORL-HNS, College of Medicine, Hallym University
2001-2011 Chairman of ORL-HNS, College of Medicine, Hallym University
2009-2014.2 Director, Ilsong Memorial Institute of Head and Neck Cancer, Hallym University Medical Center
2014.2-2014.2 Director Head and Neck Cancer - Thyroid Center, Ewha Womans University, School of Medicine
2015-2018 Director, Department of Otorhinolaryngology-Head and Neck Surgery
Ilsong Memorial Head and Neck-Thyroid Cancer Hospital
Hallym University Medical Center
2019– ThanQ Seoul Surgery Center
2018-2019 Director, Head and Neck -Thyroid Cancer Division, Dain ENT Special Hospital

PROFESSIONAL ACTIVITIES
Membership, American Academy of Otolaryngology-Head and Neck Surgery
Membership, International Academy of Oral Oncology
Scientific Program Chairman, The 4th IFHNOS World Congress (2013)
Program Chairman, The 20th IFOS world congress (2013)
Scientific Program Chairman, The 30th Anniversary International Conference of Korean Society for Head and Neck Oncology (2014)
President, The Korean Thyroid Association (2015)
Yoon Woo Koh

Dr. Yoon Woo Koh M.D., Ph. D. is the professor of Otorhinolaryngology and professor of thyroid cancer clinic at Yonsei University College of Medicine Seoul, Korea and Chair, Endoscopic & Robotic Surgery Committee, Korean Society of Thyroid-Head and Neck Surgery. He is also serving as General Secretary of International Guild of Robotic & Endoscopic Head and Neck Surgery and Director of Research Committee, Korean Thyroid Association. He completed his training with a clinical fellowship at Yonsei University College of Medicine in Seoul, Korea.

Dr. Yoon Woo Koh is a pioneer in Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. He has substantial contribution in developing “Minimally invasive Head & Neck surgery and Thyroid surgery with Retroauricular approach” in particular. He has written over 100 original articles, book chapters regarding endoscopic and robotic Thyroid and Head & Neck surgery. He has the largest experience in the world with Robotic Retroauricular Neck Dissection for Thyroid and Head & Neck cancer. His research interests have focused on clinical outcome research related to Thyroid and Head & Neck patients. His laboratory research focus elucidating the mechanism of crosstalk signaling after targeted therapy and Development of Treatment Platform to overcome the Drug resistance in Thyroid and Head & Neck Cancer.
Precision Surgery is the Real Impact of Robotic HN Surgery: Beyond Cosmesis and Money

Yoon Woo Koh
Yonsei University, Korea
Keynote Lecture 12

MODERATOR
Jeong Hun Hah, ThanQ Seoul Surgery Center, Korea

TORs in Difficult Access Conditions. Decision Making, Tips and Tricks for Successful Surgery
Georges Lawson, CHU Dinant Godinne/UCL Namur, Belgium
Jeong Hun Hah

Founder and Director, ThanQ Seoul Thyroid-Head and Neck Surgery Center, Seoul, Korea

EDUCATION
2004-2013 Seoul National University College of Medicine; PhD (Molecular Oncology)
1999-2004 Seoul National University College of Medicine; Master of Science (Otorhinolaryngology)
1989-1995 Seoul National University College of Medicine; Doctor of Medicine

POSTDOCTORAL TRAINING
Aug. 2010 - Jan. 2012 Postdoctoral Fellow, Dr. Myer’s Head & Neck Cancer Lab, Head and Neck Surgery, The University of Texas M.D. Anderson Cancer Center, Houston, TX
Jul. - Aug. 2003 Visiting Fellow, Otolaryngology, University of Pittsburgh School of Medicine, Pittsburgh, PA
2003-2005 Fellowship, Thyroid-Head & Neck Surgery, Otolaryngology - Head and Neck Surgery, SNUH
1996-2000 Residency Otolaryngology - Head and Neck Surgery, SNUH
1995-1996 Internship Seoul National University Hospital (SNUH)

APPOINTMENTS
Oct. 2016-present Founder and Director, ThanQ Seoul Thyroid Head & Neck Surgery Center, Seoul, Korea
2015-2016 Associate Professor, Otolaryngology-Head and Neck Surgery, Seoul National University College of Medicine
2012-2016 Associate Clinical Professor, Otolaryngology-Head and Neck Surgery, SNUH
2005-2012 Assistant Clinical Professor, Otolaryngology-Head and Neck Surgery, SNUH

RESEARCH INTERESTS
Optimal treatment and active surveillance of thyroid cancer
Quality of life in patients with head and neck cancers
Early diagnosis of head and neck cancers

PUBLICATIONS
Georges Lawson

ENT Head & Neck Cancer and Thyroid Surgeon: Specialist in voice & swallowing disorder at Université Catholique de Louvain – CHU UCL Namur (BELGIUM), a pioneer university Hospital in minimally invasive surgical options to patient with ENT&HN disease.

CURRENT ACTIVITIES AND EXPERTISE


• Patients with benign and/or malignant diseases of head and neck (including mouth, throat, larynx, trachea, neck, salivary and thyroid glands.
• Patients presenting any dysfunction on voice production and/or swallowing process.
• Dysphagia & swallowing disorder
• Research activities on the same fields

Special Interests: Head and neck cancer, salivary glands, thyroid gland, robotic surgery, Voice care, Swallowing disorder, Airway diseases management

BIOGRAPHY AND EDUCATION

• Graduated from Calavi University Medical School – BENIN - & Université Catholique de Louvain UCL Medical School BELGIUM
• ENT & HN Surgery training at Université Catholique de Louvain -BELGIUM
• Voice Care & Swallowing disorder management at Université Catholique de Louvain
• Bachelor in public health care, Bachelor in Law, bachelor in General microsurgery and reconstructive surgery.
• Author and co-author of various publications
• Former Head of surgical Department CHU ucl Namur

CURRENT POSITION:

• ENT Emeritus professor : Université Catholique de Louvain -BELGIUM
• ENT&HN Surgeon; Senior Consultant ENT H & N Surgery Department CHU UCL Namur
• ENT & HN surgeon : Réhabilitation center (Centre Audiophonologie Reine Mathilde) CHU UCL Namur
• Member of several European & American ENT and HN Society, AHNS, B-ENT, CEORL-HNS,EHNS, ELS, ESSD, SFORL, SFPL
TORS in Difficult Access Conditions. Decision Making, Tips and Tricks for Successful Surgery

Georges Lawson
CHU Dinant Godinne/UCL Namur, Belgium
Distinguished Speaker for Developing the Retractor System for Transoral Surgery

MODERATOR
Il-Seok Park, Hanyang University, Korea

Satou’s Retractor: Application to TORS for Larynx and Hypopharynx Cancer
Taro Sugimoto, Tokyo Metropolitan Cancer, Japan
Il-Seok Park, MD, PhD

DEPARTMENT OF OTOHRINOLARYNGOLOGY-HEAD & NECK SURGERY, HALLYM UNIVERSITY, DONGTAN SACRED HEART HOSPITAL, HWASEONG, KOREA

EDUCATION
1987-1993 M.D. College of Medicine, Hallym University, Chuncheon, Gangwon-Do, Korea
1995-1997 M.S. Otorhinolaryngology-Head and Neck Surgery, Hallym University, Chuncheon, Gangwon-Do, Korea
2001-2003 Ph.D. Otorhinolaryngology-Head and Neck Surgery, Hallym University, Chuncheon, Gangwon-Do, Korea

PROFESSIONAL ACTIVITIES
1994-1998 Resident Trainee, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
1998-2001 Captain, Department of Aerospace Medicine, Korean Air Force 3251 Unit, Korea
2001-2002 Head&Neck Surgery Fellow, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2002-2003 Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2003-2008 Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Hangang Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2008-2009 Visiting Professor, Head and Neck Cancer Research Center, Johns Hopkins University, School of Medicine, Baltimore, USA
2008-2012 Associate Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Hangang Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2012-2013 Associate Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2013-present Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2014-2014 Planning Manager, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2015-2018 Chief Medical Officer, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2018-present Chief of CA & PR Committee, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2018-present Director of Cancer Center, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea

FIELDS OF INTEREST
Clinical research on HPV - related Head and Neck Cancer
Epigenetics on Head and Neck Cancer
Tumor Angiogenesis in Advanced Head and Neck Cancer
- Microsatellite Alterations in Oral Cavity and Oropharyngeal Squamous Cell Carcinoma

SOCIETIES
1. Korean Academy of Otolaryngology-Head and Neck Surgery, Director, Social Responsibility
2. Korean Society of Head and Neck Oncology
3. Korean Society of Head and Neck Surgeons, Director, Medical Insurance Committee
4. Korean Bronchoesophagology Society, Director, Computing Committee
5. Korean Society of Logopedics and Phoniatrics, Director, Medical Affairs Committee, Director, Financial Committee
6. Korean Rhinologic Society
7. Korean Skull Base Society
8. Korean Cancer Association
Taro Sugimoto

Department of Otolaryngology - Head and Neck Surgery,
Tokyo Metropolitan Cancer and Infectious Diseases Center, Tokyo, Japan

EDUCATION
1987 M.D. Tokyo Medical and Dental University School of Medicine

LICENSE AND CERTIFICATION
1987 - Japanese Medical License (Ministry of Health, Labour and Welfare Japan)
1994 - Board-Certified Otalaryngologist (Oto-Rhino-Laryngological Society of Japan)
2010 - Board-Certified Head and Neck Surgeon (Japan Society for Head and Neck Surgery)
2013 - Board-Certified General Clinical Oncologist (Japanese Board of Cancer Therapy)

ACADEMIC APPOINTMENTS
1994-2000 Instructor in Medicine Tokyo Medical and Dental University, Department of Otolaryngology
2000-2004 Clinical Junior Associate Professor, Tokyo Medical and Dental University, Department of Otolaryngology
2004-2015 Junior Associate Professor, Tokyo Medical and Dental University, Department of Otolaryngology
2015-2016 Junior Associate Professor, Tokyo Medical and Dental University, Department of Head and Neck Surgery
2016- Clinical Professor, Tokyo Medical and Dental University, Department of Head and Neck Surgery

HOSPITAL/AFFILIATED INSTITUTION APPOINTMENTS:
1987 - 1989 resident / Tokyo Medical and Dental University Hospital
1989 - 1990 fellow / Tokyo Hospital of National Printing Bureau (ENT)
1990 - 1991 fellow / Tokyo Metropolitan Tama Geriatric Hospital (ENT)
1991 - 1994 attending / Tokyo Metropolitan Toshima Hospital (ENT)
1994 - 1996 attending / Tokyo Medical and Dental University Hospital (ENT)
1996 - 2000 Chief of inpatient ward / Tokyo Medical and Dental University Hospital (ENT)
2000 - 2004 Chief / Nakano General Hospital (ENT)
2004 - 2016 Chief of inpatient ward / Tokyo Medical and Dental University Hospital (ENT)
2016 - Director, Department of Otolaryngology - Head and Neck Surgery, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital

MAJOR COMMITTEE ASSIGNMENTS
2004 - 2014 A Chief Secretary of Japan Society for Head and Neck Cancer
2005 A Secretary General of Japan Society for Head and Neck Cancer 29th Annual Meeting
2007 - 2011 A Member of Scientific Committee of Japan Society for Head and Neck Cancer
2012 - 2017 A Member of Japanese Board of Medical Specialties for Head and Neck Oncology
2013 - The board member of Japan Society for Head and Neck Superficial Cancer
2014 - 2017 The chairperson of examination test preparation of Japanese Board of Medical Specialties for Head and Neck Oncology
2014 - 2018 The chief spokesperson of Japan Society for Head and Neck Cancer
2016 - 2018 The councilor of Japan Broncho-esophagological Society
2016 - The board member of APOST (Asia Pacific Otorhinolaryngologic Surgical Training Group)
2018 - The councilor of Japan Society for Head and Neck Cancer
**Satou's Retractor: Application to TORS for Larynx and Hypopharynx Cancer**

Taro Sugimoto  
Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital, Japan

I started transoral surgery for larynx, oropharynx and hypopharynx cancer in 2005 by TLM (transoral laser microsurgery) and have been performing the minimally invasive transoral surgery for these cancers completely changing the surgical procedure from TLM to ELPS (endoscopic laryngo-pharyngeal surgery) in 2009. And I have been participating in the IRSS almost every year from the first symposium held in 2011 recognizing the potential of robotic surgery for head and neck cancer although this innovative surgical procedure was considered to be impossible to perform as a practical one in Japan for the time being. These experiences led me to the idea that combining and utilizing the techniques of robotic surgery and ELPS could make the transoral surgery become more refined one.

Satou's retractor (Satou's curved laryngopharyngoscope) is one of the most essential instruments to perform ELPS. Currently we have two types of Satou's retractor: original one without mouth gag (type S1) and new one with mouth gag (type S2). We have been using type S1 for the transoral resection for pharynx and larynx cancer and it is especially useful for hypopharynx cancer surgery because it can distend the hypopharynx widely and easily. However, it was impossible to apply type S1 to TORS because type S1 doesn't have mouth gag and we cannot get enough space to perform TORS using type S1. And TORS of the hypopharynx was challenging because the shape of the conventional robotic system was difficult to apply TORS to hypopharynx cancer due to the anatomical reason. But these problems have been overcome by the technological inventions: the da Vinci SP and type S2.

We had conducted the cadaveric study to explore the efficacy of type S2 used in combination with the da Vinci SP to access and resect the hypopharynx. The preclinical data suggests that using type S2 in combination with the da Vinci SP will facilitate and enable successful transoral surgery of the hypopharynx.

In this presentation I would like to talk about the future application of Satou's retractor to TORS for larynx cancer as well as hypopharynx cancer.
Grand Debate 3: Larynx and Hypopharynx Cancer: Endoscopic vs Robot

MODERATOR
Akihiro Shiotani, National Defense Medical College, Japan
Giuseppe Spriano, Humanitas University, Italy

PANELIST
Akira Shimizu, Tokyo Medical University, Japan
Taro Sugimoto, Tokyo Metropolitan Cancer, Japan
Sebastien Van der Vorst, CHU Dinant Godinne, Belgium
Yo Kishimoto, Kyoto University, Japan
Stefan Mattheis, University Hospital Essen, Germany
Anatoli Pataridou, Hygeia and Mitera Hospital, Greece
Han Su Kim, Ewha University, Korea
Chen Chi Wang, Taichung Veterans General Hospital, Taiwan
Koji Araki, National Defense Medical College, Japan
Akihiro Shiotani

Professor and Chairman, Dept of Otolaryngology-Head and Neck Surgery, Director, Dept of Academic Affairs, National Defense Medical College, Saitama, Japan

EDUCATION

1987 M.D. Keio University, School of Medicine, Tokyo
1995 Ph.D. Keio University, School of Medicine, Tokyo

PROFESSIONAL TRAINING AND EMPLOYMENT

1987-1989 Resident, Keio University Hospital, Tokyo
1989-2000 Instructor, Dept of Otolaryngology-HNS, Keio University, School of Medicine, Tokyo
1995-1998 Visiting Research Scientist, Dept of Otolaryngology-HNS, Johns Hopkins University, School of Medicine, Baltimore, Maryland
2000-2005 Assistant Professor, Dept of Otolaryngology-HNS, Keio University, Tokyo
2005-2006 Associate Professor, Dept of Otolaryngology-HNS, Keio University, Tokyo
2006-present Professor and Chairman, Dept of Otolaryngology-HNS, National Defense Medical College, Saitama
2012-2015 Deputy Director, National Defense Medical College Hospital
2015-present Director, Dept. of Academic Affairs, National Defense Medical College
2016-present Visiting Professor, Keio University, School of Medicine, Tokyo

SOCIETIES

President, Japan Bronchoesophagological Society
Past President, Japan Society of Laryngology
Giuseppe Spriano, MD

EDUCATION AND TRAINING
Medical Degree University of Milan 1978
Otolaryngology Head and Neck Surgery University of Milan (Chief: Prof. Ettore Bocca) 1981
Oncology University of Genova (Chief: Prof Leonardo Santi) 1984

VISITING DOCTOR (MAIN)
Institute Gustave Roussy Paris 1990
House Ear Institute Los Angeles 1991
University of Pittsburgh 1992
Memorial Sloan Kettering Cancer Center New York 1993
Mount Sinai New York 1994
M.D. Anderson Cancer Center Houston 1995
Loyola University Chicago 1996

VISITING PROFESSOR
Memorial Sloan Kettering Cancer Center New York 2009
MD Anderson Cancer Center Houston 2014
University of Toronto 2014
University of Stanford Palo Alto 2016

TEACHING ACTIVITY
Professor of Head and Neck Surgery at the Universities of:
Varese, Rome (Sapienza), Rome (Cattolica), Pisa, Brescia

SCIENTIFIC ACTIVITY
Author more than 150 articles in Peer-Reviewed Journals
Member of Editorial and Review Boards of several scientific journals
Author of 16 book chapters and 6 books
More than 450 invited scientific oral presentations in Italy, Europe, USA, Canada, South America, Asia, Africa, Australia.

PROFESSIONAL SOCIETY MEMBERSHIPS (MAIN)
President of AOOI (Italian Association of Otolaryngologists) 2008-2010
President of Italian Society of Otolaryngology Head and Neck Surgery (2014 - 2015)
Member of the Council of IAOO (International Academy of Oral Oncology)
Honorary Member of the Foundation for Head and Neck Oncology
Conference Chairman of European Congress of EHNS 2018 (European Head and Neck Society)
Conference Chairman of World Congress of IAOO 2019 (International Academy of Oral Oncology)
Conference Chairman of World Congress of IFHNOS 2022 (International Federation of Head and Neck Oncological Societies)
Akira Shimizu

Tokyo Medical University
Position & Title: Associate Professor at the Department of Otorhinolaryngology/head and neck surgery

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
- 2015: TMU Associate Professor
- 2015-2010: TMU Assistant Professor
- 2002-2010: TMU Instruction
- 1996-2002: TMU fellow

TRANSORAL SURGERY
Salivary gland cancer
Taro Sugimoto

Department of Otolaryngology - Head and Neck Surgery,
Tokyo Metropolitan Cancer and Infectious Diseases Center, Tokyo, Japan

EDUCATION
1987 M.D. Tokyo Medical and Dental University School of Medicine

LICENSE AND CERTIFICATION
1987 - Japanese Medical License (Ministry of Health, Labour and Welfare Japan)
1994 - Board-Certified Otalaryngologist (Oto-Rhino-Laryngological Society of Japan)
2010 - Board-Certified Head and Neck Surgeon (Japan Society for Head and Neck Surgery)
2013 - Board-Certified General Clinical Oncologist (Japanese Board of Cancer Therapy)

ACADEMIC APPOINTMENTS
1994-2000 Instructor in Medicine Tokyo Medical and Dental University, Department of Otolaryngology
2000-2004 Clinical Junior Associate Professor, Tokyo Medical and Dental University, Department of Otolaryngology
2004-2015 Junior Associate Professor, Tokyo Medical and Dental University, Department of Otolaryngology
2015-2016 Junior Associate Professor, Tokyo Medical and Dental University, Department of Head and Neck Surgery
2016- Clinical Professor, Tokyo Medical and Dental University, Department of Head and Neck Surgery

HOSPITAL/AFFILIATED INSTITUTION APPOINTMENTS:
1987 - 1989 resident / Tokyo Medical and Dental University Hospital
1989 - 1990 fellow / Tokyo Hospital of National Printing Bureau (ENT)
1990 - 1991 fellow / Tokyo Metropolitan Tama Geriatric Hospital (ENT)
1991 - 1994 attending / Tokyo Metropolitan Toshima Hospital (ENT)
1994 - 1996 attending / Tokyo Medical and Dental University Hospital (ENT)
1996 - 2000 Chief of inpatient ward / Tokyo Medical and Dental University Hospital (ENT)
2000 - 2004 Chief / Nakano General Hospital (ENT)
2004 - 2016 Chief of inpatient ward / Tokyo Medical and Dental University Hospital (ENT)
2016 - Director, Department of Otolaryngology - Head and Neck Surgery, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital

MAJOR COMMITTEE ASSIGNMENTS
2004 - 2014 A Chief Secretary of Japan Society for Head and Neck Cancer
2005 A Secretary General of Japan Society for Head and Neck Cancer 29th Annual Meeting
2007 - 2011 A Member of Scientific Committee of Japan Society for Head and Neck Cancer
2012 - 2017 A Member of Japanese Board of Medical Specialties for Head and Neck Oncology
2013 - The board member of Japan Society for Head and Neck Superficial Cancer
2014 - 2017 The chairperson of examination test preparation of Japanese Board of Medical Specialties for Head and Neck Oncology
2014 - 2018 The chief spokesperson of Japan Society for Head and Neck Cancer
2016 - 2018 The councilor of Japan Broncho-esophagological Society
2016 - The board member of APOST (Asia Pacific Otorhinolaryngologic Surgical Training Group)
2018 - The councilor of Japan Society for Head and Neck Cancer
Sebastien Van der Vorst

M.D.
Ph.D. (Université catholique de Louvain - September 2012): “p53 Functional Assay (FASAY) in Head and Neck Squamous Cell Carcinoma: preanalytical issues and value as indicator of field cancerization?”

MEDICAL EDUCATION

1993-1996 Bachelor of Medical Science at the Catholic University of LOUVAIN (UCL)
1996-2000 Doctor of Medicine at the Catholic University of LOUVAIN (UCL)
July 2000 Graduated (cum laude): Doctor of Medicine, Surgery and Obstetrics
2000-2006 Specialization in ENT and Head and Neck Surgery
2012 Ph.D. (Université catholique de Louvain - September 2012): “p53 Functional Assay (FASAY) in Head and Neck Squamous Cell Carcinoma: preanalytical issues and value as indicator of field cancerization?”

TEACHING & RELATED ACTIVITIES (UNIVERSITÉ CATHOLIQUE DE LOUVAIN)

Tenure of the following courses
- WMDTR 3150 - Lessons in Otorhinolaryngology 15 hours
- LLOGO 1214 - Anatomy of upper aerodigestive tract and phonation 30 hours
- WORL 2130 - Phoniatrics (With Prof. G. Desuter) 30 hours
- WORL 2112 - Lessons in Otorhinolaryngology (With Prof. P Eloy) 5 hours

Promotor of the following Master's Degree theses in Medicine and Logopedics
2015 - Dr G. Delahaut: “Prognostic impact of tumor growth velocity in oropharyngeal squamous cell carcinoma treated by radiotherapy”.

HONORARY DISTINCTIONS, SCIENTIFIC SOCIETIES AND JOURNALS

Honorary Distinctions
Royal Belgian Society for ENT, Lecturer’s Award in Laryngology and Head & Neck Pathology 2008
Pfizer Educational Grants 2006

Scientific Societies
Member of the « Société Belge d’ORL et de Chirurgie Cervico-Faciale »
Member of the « Société Française de Carcinologie Cervico-Faciale »
Member of GETTEC (Groupement d’Etude des Tumeurs de la Tête et du Cou),
Member of the « Groupe Belge Tête et Cou » (FNRS),
Member of the Reading Committee of the journal (Acta ORL Belgica),

List of international conferences by invitation:
Yo Kishimoto

Assistant Professor,
Department of Otolaryngology, Head and Neck Surgery, Graduate School of Medicine, Kyoto University

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

~2015  Kyoto University, Assistant Professor
2013-2015  Kyoto University, Clinical Staff
2009-2013  University of Wisconsin-Madison, Visiting Researcher
2007-2011  Graduate School of Medicine, Kyoto University, PhD
2002-2007  Tenni Hospital, Clinical Staff
2001-2002  Kyoto University, Resident
1005-2001  Faculty of Medicine, Kyoto University, MD

RESEARCH INTERESTS

Less invasive treatments for head and neck cancer, Mucosal biology of the vocal folds, Tissue engineering and regenerative medicine of head and neck organs

PUBLICATIONS

Stefan Mattheis, MD

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2019 Full Professor Endoscopic Head and Neck Surgery and Robotic
2015-2019 Ass. Professor Otorhinolaryngology
from 2012 Vice Chair ENT Department, University Hospital Essen, Germany
2009-2012 Consultant ENT Department, University Hospital Essen, Germany
2000-2009 Vice Chair, ENT Department, Recklinghausen, Germany
1994-2000 Resident and Fellow, ENT Department, University Hospital Bochum, Germany

RESEARCH INTERESTS
Head and Neck Surgery, Robotics in ENT, Plastic and Reconstructive Surgery, Skull base and Orbit Surgery

PUBLICATIONS
Anatoli Pataridou, MD

ENT Surgeon, Kids and Adults
Hygeia and Mitera Hospital

EDUCATION

Medical School of Aristotle University of Thessaloniki
Royal Infirmary of Edinburg

CLINICAL & RESEARCH FIELD OF INTEREST

Transoral Robotic Surgery for benign and malignant diseases of head and neck area
Transoral endoscopic laser CO2 Surgery for benign and malignant diseases of head and neck area
Functional Endoscopic Surgery of paranasal sinuses
Fiberoptic Endoscopic Evaluation and research in patients with Dysphagia

REPRESENTATIVE RECENT PRESENTATIONS

“TORS, a New Surgical Technique in the ENT Field”, 1st Seerss International Congress in Robotic Surgery, 30/11 - 2/12 2012, Cyprus
“Robotic Surgery in Otorhinolaryngology”, 3o Postgraduate seminar - Current options in Otorhinolaryngology, 10 - 12 May 2013, Dimsitsana
“TORS, a New Surgical Technique in the ENT Field”, 4th Word Congress of the International Academy of Oral Oncology, 15 - 18 May 2013, Rhodes
“Tracheostomy and dysphagia”, EGDG Annual meeting, 24-26 September 2010, Thessaloniki
“Management of Early Glottic Carcinoma T1N0M0 with CO2 laser”, Scientific Seminar of Hygeia Hospital, 19 June 2010, Syros

MEMBER OF THE

Panhellenic Society of Otorhinolaryngology - Head & Neck Surgery
Panhellenic Society of Otorhinolaryngology - Head & Neck Surgery of Northern Greece
Scientific Dysphagia group, under the auspices of the National Society of Logopedists
Panhellenic society of Allergy and Immunology
French society of Head and Neck Surgery
European Study Group for Dysphagia and Globus (EGDG)
European Rhinologic Society
South Eastern European Robotic Surgery Society (SEERS)
Robotic Da Vinci Surgery Community
GRAND DEBATE 3: LARYNX AND HYPOPHARYNX CANCER: ENDOSCOPIC VS ROBOT

Han Su Kim, MD, PhD

CLINICAL SPECIALTY
Laryngology
Head and Neck Surgery- Thyroid Surgery

RESEARCH FIELD
Tissue engineering and regenerative medicine: Trachea/Parathyroid gland
Stem cell: Tonsil-derived stem cells

EDUCATION
Mar. 1991 - Feb. 1997 College of Medicine, Yonsei University, Seoul, Korea (M.D.)
Sept. 2001 - Aug. 2003 Graduate School, Yonsei University, Seoul, Korea (M.S.)
Sept.2004 - Feb. 2007: Graduate School, Yonsei University, Seoul, Korea (Ph.D.)

POSTDOCTORAL TRAININGS & EXPERIENCES
Mar. 1997 - Feb.1998 Internship in Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
Mar. 1998 - Feb. 2002 Residency in the Dept. of Otolaryngology-HNS, Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
Mar. 2002 - Feb. 2004 Fellowship in the Subdivision of Head & Neck Surgery, Laryngology, Yongdong Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
Mar. 2004 - Feb. 2009 Assistant Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
Mar. 2009 - Feb. 2014 Associate Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
Mar. 2014 - Present Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
Mar. 2015 - Present Director in Head & Neck Cancer Center, Ewha Womans Univ. Mokdong Hospital
Feb. 2019 - Present Director in in the Dept. of Otolaryngology-HNS, Ewha Womans Univ. Mokdong Hospital, Seoul, Korea
Feb. 2019 - Present Chairperson in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea

PROFESSIONAL EXPERIENCES
Jan. 2003 Visiting Fellowship in the Dept. of Otolaryngology-HNS, College of Medicine, Kumamoto University, Kumamoto, Japan
Feb. 2003 Visiting Fellowship in Noguchi thyroid clinic, Beppu, Japan
Feb. 2004 Visiting Fellowship in Dept. of Otolaryngology-HNS, College of Medicine, Goettingen University : Laser surgery course
Aug. 2013- Aug 2014 Visiting Fellowship in WFIRM(Wake Forest University Institute for Regenerative Medicine), Winston-Salem, NC, USA
Chen Chi Wang

EDUCATION BACKGROUND
1. School of Medicine, National Yang-Ming University. 1994.
4. Visiting Fellow, Voice Disorders Center, Massachusetts Eye & Ear Infirmary, Harvard University, May 2004

PROFESSIONAL CAREER
1. Clinical Professor, Department of Audiology and Speech-Language Pathology, Asia University, Taichung, Taiwan
2. Associate Prof., Medical school of National Yang-Ming University, Taipei
3. Secretary General, Asia-Oceania Association of Oto-Rhino-Laryngological Societies
4. Standing Director, Taiwan Head & Neck Society
5. Standing Director, Taiwan Voice Society
6. Executive Member, Asia-Pacific Society of Thyroid Surgery

RECENT PUBLICATIONS
Koji Araki, MD, PhD

Associate Professor, MD, PhD.
National Defense Medical College

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2016-Present  National Defense Medical College, Associate Professor
2009-2016  National Defense Medical College, Assistant Professor
2006-2009  The University of Pennsylvania School of Medicine, Research Fellow
2006  Keio University School of Medicine, Ph.D.
2004-2006  Ohtawara Red Cross Hospital, Director
2001-2004  Keio University, Fellow in Otolaryngology-Head and Neck Surgery
1997-2001  Keio University, Resident in Otolaryngology-Head and Neck Surgery
1997  Keio University School of Medicine, M.D.

RESEARCH INTERESTS

Head & Neck Surgery, Laryngology
Organ preservation surgery for head and neck cancer (Transoral surgery)
Sentinel node navigation surgery for head and neck cancer
Gene therapy for head and neck cancer and laryngeal diseases

PUBLICATIONS

IRSS New Frontier Session 1: Future of “Precision Surgery”: New Platform of Surgical Robot

MODERATOR
Xiaoming Li, Bethune International Peace Hospital, China
Somasundaram Subramanian, Eurasian Federation of Oncology, Russia

Development of the Next Generation Robot for TORS
Chwee Ming Lim, Singapore General Hospital, Singapore

An Alternative Robotic Surgery Platform, Revo-i
Jae Lee, Meerecompany, Korea

Flexible Endoscopic Robot for HN Surgery
Joonhwan Kim, KAIST, Easy-Endo Surgical, Korea

The Future of Digital Surgery
Sam Yoo, Digital Surgery, Ethicon, Korea

How to Develop Korea Surgical Robot
Chang Moo Kang, Yonsei University, Korea
Xiaoming Li

Xiaoming Li, MD, PhD is now Professor and Director of Department of Otolaryngology Head & Neck Surgery, Bethune International Peace Hospital, China. He is now the President of Head and Neck Surgery Section, Chinese Medical Doctor Association of Otolaryngologist. His special interest in clinic is surgical management of head and neck cancers including tumor resection and one-stage reconstruction. He is also experienced in microsurgery for head and neck cancers. His expertise in surgical salvage for advanced recurrent head and squamous cell carcinomas (HNSCC) is recognized in that he gave one symposium lecture and one keynote lecture on salvage surgery of recurrent HNSCC in recent two IFOS world congresses. Over the years, he devoted himself to in-depth investigation on molecular aspects of tumor invasion and progression, and therapeutic resistance of HNSCC. He put his emphasis on studies on relationships between therapeutic resistance and factors in tumor microenvironments, including hypoxia, STAT3, chemokines and cancer stem cells (CSC). He published a paper in Nature in 2002 for definition of a new pathway on TNF receptor signaling. As an editor, he published a book entitled “Squamous Cell Carcinoma” in English in 2013, focusing on genetic and molecular aspects of squamous cell carcinoma. He is also the editor-in-chief of an English journal named “Cancer Studies and Therapeutics”.

Somasundaram Subramanian

Somasundaram SUBRAMANIAN, better known as Dr. Soma in Russia and abroad is a Surgical Oncologist, Founder and CEO of Eurasian Federation of Oncology and EAFO Educational & Research Center. He is the Founder of Eurasian Cancer Foundation (EACF), Eurasian Cancer Research Council (ECRC) and Eurasian Society of Head & Neck Oncology (EASHNO). He is a cancer survivor. So, he knows the challenges facing oncological science also from the patient’s point of view. He believes that education and high-quality training at all levels are the key elements for success of any society.

He was born in India in 1973 in the city of Coimbatore, Tamil Nadu, India. His father was a famous pathologist in India; his mother is an economist and worked as director of a diagnostic center. Dr. S. Subramanian moved to USSR in 1990 where he joined the preparatory faculty to learn Russian language in N. I. Pirogov State Medical Institute in the city of Vinnitsa, Ukrainian Soviet Socialist Republic. In 1991 he moved to Moscow and joined the II Moscow State Medical Institute. In 1995, for his research paper on “Enzymatic & Ultrastructural changes in Skin Papillomas” [Associated with Human Papilloma Virus] presented at the Russian National Students’ Competition in Medical Sciences, he was awarded the Medal of Russian Academy of Medical Sciences.

In 1997 he obtained MD (Physician) Degree with Honours from Moscow Medical Stomatological Institute (presently A. I. Evdokimov Moscow State University of Medicine & Dentistry). Further he underwent training in the specialties of Surgery, Oncology, Maxillofacial Surgery, Otorhinolaryngology, Plastic Surgery and Public Health & Healthcare Management.

Dr. S. Subramanian has done fellowships at various leading medical centers of Asia, Europe and USA. Till April 2012 Dr. S. Subramanian served as a Surgical Oncologist and Senior Clinical Researcher at the N. N. Blokhin Russian Cancer Research Center, Moscow, Russian Federation. Meanwhile Dr. S. Subramanian served as Assistant to Director and later Director (Program Coordinator) of European School of Oncology (Russia-CIS) from 1999-2007 and 2007-2009 respectively. From July 2012 to June 2014 he served as Senior Clinical Researcher & Surgical Oncologist at the Federal Clinical & Research Center for Otorhinolaryngology, Moscow, Russian Federation. From May 2012 till November 2018 he served as consultant Surgical Oncologist at the Academician Blokhin Diveyevo District Central Hospital, Diveyevo, Nizhniy Novgorod Region, Russian Federation.

Since May 2017, he is the Principal Investigator of research projects at the Republic Clinical Cancer Hospital, Cheboksary, Chuvash Republic. He is also a visiting Surgical Oncologist at various Public (Free-charity Surgeries) and Private hospitals in Russia, Kazakhstan & Abkhazia. From January 2019 Dr. Somasundaram SUBRAMANIAN is engaged in establishing the Oncology Service of the MEDINCENTER of the GlavUpDK-Main Administration for Service to Diplomatic Corps, Russian Ministry of Foreign Affairs.

On 03 February 2016, marking the eve of the World Cancer Day, he announced the formation of the Eurasian Cancer Foundation (EACF) with the support of famous Russian Celebrities including Lev LESHCHENKO (Singer), Natalya KASPESKAYA (Co-Founder of Kaspersky Anti-Virus Program) and Anatoly KARPOV (Chess Grand Master).

In July 2017 in collaboration with other colleagues from different countries, he founded the Eurasian Cancer Research Council (ECRC) to promote collaborative Basic, Translational, Clinical and Population cancer research.

His scientific and professional interests include management of head & neck cancer, thyroid cancer, melanoma, lung cancer, breast cancer, gynecologic cancers, metastases, cancer control, tobacco control, educational & research projects in oncology and allied disciplines. Dr. S. Subramanian has above 100 publications to his credit including articles in “Lancet Oncology” Journal and has taken part in more than 10 international clinical trials as a Principal Investigator or Investigator on head & neck cancer, melanomas, lung cancer and breast cancer. He has also been co-principal investigator of population studies in smokers.
Chwee Ming Lim

Department of Otolaryngology - Singapore General Hospital

EDUCATION AND TRAINING

UNDERGRADUATE
1993-1998  National University of Singapore  MBBS  Medicine & Surgery
Singapore  1998

GRADUATE
Royal College of Surgeons  MRCS  Surgery
Edinburgh  2003
Scotland, United Kingdom
National University of Singapore  M.Med  Otorhinolaryngology
Singapore  2006

POSTGRADUATE
1999 - 2000  CGH/TTSH  Intern, Medicine, General Surgery and Orthopedic Surgery
2000 - 2001  SGH  Medical Officer, Surgery, Otolaryngology
2003 - 2009  SGH/NUH/CGH/TTSH  Resident, Otolaryngology - Head & Neck Surgery
2010 - 2012  University of Pittsburgh Medical Center  Fellow, Head & Neck Oncology
Pittsburgh, Pennsylvania

APPOINTMENTS AND POSITIONS

ACADEMIC
2013 - 2019  Yong Loo Lin School of Medicine  Assistant Professor
National University of Singapore
Singapore

NON-ACADEMIC
2012 - 2019  Department of Otolaryngology - Head & Neck Surgery  Senior Consultant
National University Hospital
Singapore
2017  National Institute of Health  Head & Neck CTPM
Bethesda, USA
2018  Institute of Bioengineering and Nanotechnology A-Star  Adjunct Clinician Scientist

CERTIFICATION AND LICENSURE

SPECIALTY CERTIFICATION
2009  Specialist Accreditation Board - Otorhinolaryngology

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES
2014-present  Asian Society of Head & Neck Oncology, Member
2014-present  Asia Pacific Society of Thyroid Surgery, Executive Member
2012-present  American Head and Neck Society, International Corresponding member
2015-present  International Guild of Robotic and Endoscopic Head and Neck Surgery
2016-present  Board Member, Robotic Surgery Society of Singapore
Development of a next generation robot for TORS

Chwee Ming Lim
Singapore General Hospital, Singapore

The development of the da Vinci robot has seen the paradigm change of removing oropharyngeal tumor from the transoral route, rather than the traditional open lip-split mandibulotomy approach. The initial prototype of the rigid robotic system is now gradually transiting to the flexible robotic platforms such as the SP system and FLEX robot. This improvement facilitates a wider selection of patients who may benefit from transoral resection; and allow surgeons to remove tumors of the larynx and hypopharynx with better ease and maneuverability. A next generation robot for TORS can be developed further by providing with real-time tissue analysis, haptic developments and semi-autonomous systems that equip surgeons to perform TORS more efficiently. In this lecture, some of the possible developments of a next generation robot are presented, highlighting some of the bio-engineering aspects that could be translated to the next generation robotic system.
Jae Lee, PhD

Executive VP, Surgical Robot Division
Company: Meerecompany

[EDUCATION]
Ph.D in Biomedical Engineering, University of Iowa
MS in Biomedical Engineering, Yonsei University

CAREER
2017-Current  Executive VP, Surgical Robot Division, Meerecompany
2011-2017    CEO, BR Holdings
2003-2010    Technical & Scientific Affairs Manager, Boston Scientific
2001-2003    Principal R&D Engineer, Advanced Bionics
1999-2001    Biomedical Researcher (Post Doc), UC Irvine
Introduction to Korean Surgical Robot, Revo-i

Jae Lee
Meerecompany, Korea

In 2005, robotic surgery was first introduced in Korea with da Vinci Surgical Robot from American company, Intuitive Surgical. Globally, more than 877,000 robotic surgeries have been done and its number has been growing 12% annually for the past five years. In Korea, 17,000 cases were reported as of last year and are growing more than 15% every year.

Robotic surgery is a surgical procedure that a surgeon in the console moves 3D endoscope and robotic arms. Because the robotic arms can be finely controlled by the surgeon watching the magnified 3D image, more precise surgery is possible, and the postoperative complications are smaller than those of other surgical methods, and the patient recovers quickly. It is widely used for the treatment of diseases that require sophisticated surgery such as prostate cancer, thyroid cancer, uterine cancer, gastric cancer, and rectal cancer.

In March 2018, meere company launched Korea’s first laparoscopic surgical robot system, ‘Revo-i’ after 10 years of development efforts. Clinical trials have proven the safety, effectiveness, performance and convenience of the equipment. Along with 13 basic instruments and a virtual training simulator called Revo-Sim is offered. The instruments reflected the names and functions of existing laparoscopic instruments as much as possible. The simulator is equipped with not only basic motion practice modules but also modules for practicing real surgery with virtual organs.

meere Company will not only sell ‘Devices’ including the system and the disposables, but will also offer robotic surgery programs for both hospitals and patients to enter the monopolized surgical robot market.
Joonhwan Kim

Postdoctoral researcher
Korea Advanced Institute of Science and Technology (KAIST)

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2018- Korea Advanced Institute of Science and Technology (KAIST, Korea)
Postdoctoral researcher

2014-2018 The University of Tokyo (Japan) Doctor of Philosophy

2012-2014 The University of Tokyo (Japan) Master of Engineering

2008-2012 Kyushu University (Japan) Bachelor of Engineering

RESEARCH INTERESTS

His research deals with medical robotics and devices for minimally invasive surgery. He is currently working on a development of flexible endoscopic surgery robot with a particular attention on manipulator design and performance validation.

PUBLICATIONS


Flexible Endoscopic Robot for HN Surgery

Joonhwan Kim
Postdoctoral researcher, Center for Future Medical Robotics, Korea Advanced Institute of Science and Technology, Daejeon, Korea

Surgical robot for HN surgery is required to be developed to satisfy both flexibility for high lesion accessibility and high payload for stable tissue manipulation. It also needs to be able to perform a complex surgical task in confined space. In order to meet these requirements, a new flexible endoscopic surgery robot platform has been developing that can perform dexterous robotic surgery through a curved and narrow pathway by adding dexterous robot arms to the flexible overtube. Since the overtube can flexibly bend during the insertion whereas it can turn to rigidly hold its posture during the surgery, the proposed robot platform can be usefully used to access and perform an intervention to the lesion that is located at the deep area in HN surgery. The robot arm provides dexterous motion for performing a surgical task in confined space. An attractive feature of the robot arm is that its arm can exert a great deal of force to manipulate organs and tissues with specially designed joint. We aim to provide a modular flexible endoscopic robot system that can compatible with various size and length of surgical instruments according to a target surgery. With these robot technologies, we believe that surgeons can conduct a challenging surgery in many field that has not been tried before.
Sam Yoo

Ethicon Asia Pacific Regional Marketing Director for Digital Surgery
The Future of Digital Surgery

Sam Yoo
Digital Surgery, Ethicon, Korea
Chang Moo Kang, MD, PhD

Professor
Division of Hepatobiliary and Pancreatic surgery,
Department of Surgery, Yonsei University College of Medicine, Seoul, Korea

DIRECTOR
Yonsei Pancreatobiliary Cancer Center, Severance Hospital, Seoul, Korea

1997 Graduated Yonsei University College of Medicine, Seoul, Korea
2005-2006 Research fellow, department of surgery, Yonsei University College of medicine
2006-2007 Instructor, Department of surgery, Yonsei University College of medicine
2007-2015.2 Assistant professor, Department of surgery, Yonsei University College of medicine
2011.8 -2012.8 Clinical and Research Fellowship in Division of Surgical Oncology, UCSD Moores Cancer Center, San Diego, USA
2015.3-2018.2 Associate professor, Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Yonsei University College of medicine
2019.3- Professor, Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Yonsei University College of medicine
2019.3- Director, Pancreatobiliary Cancer Center, Yonsei Cancer Center, Severance Hospital, Seoul, Korea

MAJOR RESEARCH FIELD:
Pancreatic cancer surgery
Minimally invasive (robotic & laparoscopic) pancreatic surgery
RON receptor tyrosine kinase in pancreatic cancer carcinogenesis
Tumor metabolism-targeted therapy in pancreatic cancer
Pancreatic cancer biomarker
Potential application of ketogenic diet in pancreatic cancer

LIVE DEMONSTRATION
Robotic spleen-preserving distal pancreatectomy 2010-07-15, Yonsei Robotic Surgery Live, Korea
Robotic central pancreatectomy 2013-09-05, IAP & KPBA, Korea
Robotic single site cholecystectomy 2013-10-21, Yonsei Robotic Surgery Live, Korea
Laparoscopic distal pancreateosplenectomy 2014-09-18, 6th Japan-Mongolia International Symposium in GI tract cancer, Mongolia
Laparoscopic pancreaticojejunostomy (duct-to-mucosa)-Unedited video 2014-08-29 Korea-Japan collaborative international symposium, Korea
Robotic single site cholecystectomy- Yonsei Robotic Surgery Live 2014
Robotic single site cholecystectomy-Yonsei Robotic Surgery Live 2015 [Unedited video]
Robotic PPPD (laparoscopic resection+ robotic PJ, HJ) International Robotic Surgery Liver 2017
How to Develop Korea Surgical Robot

Chang Moo Kang
Yonsei University, Korea
Distinguished Speaker for De-escalation Strategy for HPV Oropharyngeal Cancer

MODERATOR
Juichi Ito, Shiga Medical Center, Japan

Is It Time to Deescalate Treatment for HPV Associated Oropharynx Cancers?: What Should You Say at TB
Cherie-Ann Nathan, Feist-Weiller Cancer Center, USA
Juichi Ito

Professor Emeritus Kyoto University
Director of Shiga Medical Center Research Institute

EDUCATION
1975/3/31 Department of Medicine, Faculty of Medicine, Kyoto University M.D.
1983/3/31 Graduate School of Medicine, Kyoto University Ph.D.

POSITIONS AND EMPLOYMENT
1975-1976 Intern in Department of Otolaryngology Head and Neck Surgery, Kyoto University Hospital
1976-1979 Resident in Department of Otolaryngology Head and Neck Surgery, Hyogo Prefectural Amagasaki Hospital
1983-1985 Assistant Professor in Neurology, University of California, Los Angeles
1985-1990 Lecturer in Department of Otolaryngology Head and Neck Surgery Kyoto University Hospital
1990-2000 Chief in Otorhinolaryngology and Broncho-Esophagology, Otsu Red-Cross Hospital
2000-2015 Professor and Chairman of Department of Otolaryngology Head and Neck Surgery, Graduate School of Medicine, Kyoto University
2015– Director of Shiga Medical Center Research Institute

PROFESSIONAL MEMBERSHIPS
The Society of Practical Otolaryngology (Counselor)
The Oto-Rhino-Laryngological Society of Japan (Senior Counselor)
Japan Otological Society (Counselor)
American Otological Society (USA) (Member)
Association for Research in Otolaryngology (USA) (Member)
Barany Society (Sweden) (Member)
Collegium Otorhinolaryngologicum Amicitiae Sacrum (Member)

HOST DOMESTIC AND INTERNATIONAL CONFERENCES
President of
The 69th Annual Meeting of the Japan Society for Equilibrium Research (2010)
The 112th Annual Meeting of the Oto-Rhino-Laryngological Society of Japan (2011)
The 57th Annual Meeting of the Japan Audiological Society (2012)
The 25th the Barany Society Meeting (2008)
The 6th International Symposium on Meniere’s Disease and Inner Ear Disorders (2010)
Inner Ear Biology Workshop 2014 in Kyoto (2014)
Cherie-Ann Nathan, MD, FACS

POSITION/TITLE
Jack W Pou Endowed Professor and Chairman Department of Otolaryngology/Head and Neck Surgery, Louisiana State University Health Science Center and Director of Head & Neck Surgical Oncology and Cancer Research Feist-Weiller Cancer Center Shreveport
Chief of Service: Otolaryngology/HNS University Health

EDUCATION
1979-1981 Premedical; University of Bombay, Jai-Hind College H.S.C., Sciences
1981-1987 Medical School; University of Bombay, T.N.M.C., M.B.B.S. (M.D.)

PROFESSIONAL EXPERIENCE
1987-1988 Residency in Otolaryngology at University of Bombay, T.N.M.C.
1988-1989 Post-Doctoral Research Fellow in Otolaryngology-Head and Neck Surgery at Johns Hopkins University School of Medicine.
1989-1990 Internship in General Surgery at Butterworth Hospital / Michigan State University.
1994-1995 Clinical Instructor and Head and Neck Fellow-Otolaryngology/Head & Neck Surgery at University of California, San Diego.
2015 Harvard T.H. Chan School of Public Health Business of Medicine Certificate

EMPLOYMENT
1994-1995 Clinical Instructor & Head and Neck Fellow-Otolaryngology/Head & Neck Surgery at University of California, San Diego.
1995-1997 Chief of ENT, VAMC Shreveport and Assistant Professor in the Dept. of Otolaryngology/ Head & Neck Surgery, LSUHSC, Shreveport.
1997-2000 Assistant Professor & Director of Head and Neck Surgical Oncology and Director of Research in the Department of Otolaryngology/HNS & the Feist-Weiller Cancer Center.
2000-2004 Associate Professor & Director of Head and Neck Surgical Oncology & Director of Research in the Department of Otolaryngology/HNS & the Feist-Weiller Cancer Center.
2004-2011 Professor, Vice-Chairman & Director of Head and Neck Surgical Oncology & Director of Research in the Department of Otolaryngology/HNS & the Feist-Weiller Cancer Center.
2007-present Faculty for the Center for Molecular and Tumor Virology, Microbiology, LSUHSC
2011-present Professor, Chair & Director of Head and Neck Surgical Oncology & Director of Research in the Department of Otolaryngology/HNS & the Feist-Weiller Cancer Center.
2013-2014 Chief of Staff: University Health
2013-present Chief of Otolaryngology/Head and Neck Surgery, University Health Hospital
Is It Time to Deescalate Treatment for HPV Associated Oropharynx Cancers?: What Should You Say at TB

Cherie-Ann Nathan
Feist-Weiller Cancer Center, USA

The epidemic of HPV associated head and neck cancers seen in younger patients poses an important question. Should we deescalate therapy as survival is significantly better in this patient cohort and standard therapy traditionally used in HPV negative cancer patients results in long term morbidity. Transoral robotic surgery and transoral laser surgery have allowed for surgical management to be at the forefront of treatment of HPV associated tumors. A number of retrospective studies and prospective database trials support equally good outcomes with treatment protocols that have already deescalated therapy, whether it be radiation dose reduction, alternate chemotherapy regimens or targeted therapy. However results of prospective randomized clinical trials are still awaited. We will discuss the pros and cons and the various approaches used to de-escalate therapy for HPV associated head and neck cancer patients.
Distinguished Speaker for Laser Physics & Transoral Laser Surgery

MODERATOR
Seung-Kuk Baek, Korea University, Korea

Laser Physics & Transoral Laser Surgery
Phil-Sang Chung, Dankook University, Korea
Seung-Kuk Baek

EDUCATION
1988.3 - 1990.2 Premedical Course, Korea University College of Medicine, Seoul, Korea
1990.3 - 1994.2 Medical School and M.D. Degree, Korea University College of Medicine, Seoul, Korea
2000.9 - 2002.8 Master Degree, Korea University Graduate School, Seoul, Korea
2003.3 - 2005.9 Ph.D. Degree, Korea University Graduate School, Seoul, Korea

MEDICAL TRAINING
2002.3 - 2003.2 Clinical Fellowship, Hallym University Hospital, Seoul, Korea
2003.3 - 2004.2 Clinical Fellowship, Korea University Hospital, Seoul, Korea
2004.3 - 2005.8 Clinical Assistant Professor, Korea University College of Medicine, Seoul, Korea
2005.3 - 2005.8 Clinical training, Head and Neck Oncology Division, Cancer Institute Hospital, Tokyo, Japan
2005.9 - 2008.8 Assistant Professor, Korea University College of Medicine, Seoul, Korea
2008.9 - 2013.2 Associate Professor, Korea University College of Medicine, Seoul, Korea
2009.9 - 2010.8 Visiting scholarship, Beckman laser institute, University of California, Irvine
2013.3 - present Professor, Korea University College of Medicine, Seoul, Korea

SOCIETY MEMBERSHIP
Korean Society of Otolaryngology
Korean Society of Head and Neck Surgery
Korean Society for Head and Neck Oncology
Korean Bronchoesophagological Society
Korean Thyroid Association
Korean Society of Laryngology, Phoniatrics, and Logopedics
The Korean Dysphagia Society
Korean Society for Laser Medicine and Surgery
Korean Society of Pediatric Otorhinolaryngology
Phil-Sang Chung

Professor, Department of Otolaryngology-Head and Neck Surgery, Dankook University College of Medicine

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

1985 graduated Seoul National University College of Medicine
1989 Otolaryngology-Head and Neck Surgery Specialist Board
1997 PhD at Medicine, Graduate School of Medicine, Seoul National University
1994-present Professor, Department of Otolaryngology-Head and Neck Surgery
Dankook University College of Medicine
1997-1998 Visiting scholar, UCLA laser lab
2012-present Director, Beckman Laser Institute Korea
2015-present Director, Dankook Laser Translational Clinical Trial Center
2017. 02 -2019.02 President, Korean Society of Head and Neck Surgery
2017. 12 - present President, Korean Society for Lasers Medicine and Surgery

RESEARCH INTERESTS

Head and Neck
Medical photonics

PUBLICATIONS

Laser Physics and Transoral Laser Surgery

Phil-Sang Chung
Department of Otorhinolaryngology-Head and Neck Surgery, Dankook University Hospital, Cheonan, Korea

Understanding laser-tissue interactions is the most important for successful laser surgery. The variety of interaction mechanisms may occur when applying laser light to biological tissue due to specific tissue characteristics by chromophores as well as laser parameters. The medical laser systems offer the physician high technology which facilitate a lot of clinical and therapeutic applications.

In the past, achieving optimal oncologic outcomes was the first goal of head and neck cancer treatment. But with the progress of medical equipment and desire for preserving functional and cosmetic status, transoral surgery is one of the major surgical tool for carcinoma in oral cavity, pharynx and larynx.

Strong and Jako introduced the CO2 laser into microsurgery of the larynx in the early 1970s. The CO2 laser was increasingly utilized in the 1980s in the treatment of benign lesions in the larynx, particularly recurrent laryngeal papillomatosis. However, lasers were introduced more slowly in the treatment of malignancies and were restricted to only a few centers throughout the world. Furthermore, the application of lasers was mostly limited to the excision of early vocal cord tumors. As early as the beginning of the 1980s, Steiner expanded the indications for curative laser treatment to all regions and all tumor types. This expansion was based on the excellent results obtained with both the microsurgical laser resection of early tumors and the palliation of advanced disease. Meanwhile, laser surgery achieved a key position in minimally invasive treatment concepts in the ears, nose, and throat (ENT) area, especially for the treatment of malignancies of the upper aerodigestive tract.

Key word
laser tissue interaction, transoral laser surgery
IRSS New Frontier Session 2: Future of “Precision Surgery”: VR, 3D Printing and Surgical Navigation

CHAIRMAN
Uttam K. Sinha, Keck School of Medicine of USC, USA

MODERATOR
Mohd Razif Mohamad Yunus, Pusat Perubatan UKM, Malaysia
Young Jun Chai, Seoul National University, Korea

3D Virtual Planning and More for Head and Neck Reconstruction to Promote Patient’s QOL
Hyung Jun Kim, Yonsei University, Korea

Application of Virtual Reality Tracking and 3D Modeling to Improve Safety and Efficiency of TORS
Steven Wang, University of Arizona Cancer Center, USA

Integrating Navigation with TORS for the Skull Base and Parapharyngeal Space
Raymond K. Tsang, University of Hong Kong, Hong Kong

Standard Medical 3D: Modeling, Simulation and Printins
Young Lae Moon, Chosun University, Korea
Uttam K. Sinha, MD, MS, FACS

After completion of college education, Dr. Uttam Sinha joined University of Southern California as a Research Fellow in 1986 where he studied molecular oncology for four years. He then finished residency in Otolaryngology-Head and Neck Surgery at USC in 1995. He continued to pursue academic career and completed a clinical fellowship in Microvascular and Plastic and Reconstructive Surgery in Mount Sinai Hospital, New York. He then went to Leon, France for another clinical fellowship in laryngology. After completion of clinical fellowships, Dr. Sinha joined the Department of Otolaryngology-Head and Neck Surgery at USC as faculty in 1996 and soon became Chief and Residency Program Director. In 2011, University of Southern California established Watt Chair in Head and Neck Cancer Research for Dr. Sinha in recognition of his academic achievements, and outstanding performance in leadership, teaching and research. Dr. Sinha became Director of Head and Neck Surgery and Associate Dean of Surgical Simulation in 2013.

Dr. Sinha is an accomplished head and neck surgeon with national and international reputation. By using his expertise in nanoscience, Dr. Sinha and his team have developed a technology for early detection of cancer and other acute and chronic diseases using saliva. Targeting cancer stem cells, his team is studying prevention of recurrence of cancer and reduction of dose of radiation. Dr. Sinha and his team introduced a novel treatment called neuromuscular electrical stimulation (NMES) for rehabilitation of swallowing using another platform technology called BION. He received multiple federal and foundation grants and published extensively in peer-reviewed journals. Dr. Sinha serves multiple national and international professional organizations in leadership roles. Recently, he was selected as President of Society of University Otolaryngologists-Head and Neck Surgeons, one of the most prestigious organizations in the disciplines of Otolaryngology-Head and Neck Surgery. Dr. Sinha works closely with National Cancer Institute (NCI) to maximize Survival and Quality of Life in head and neck cancer patients. In 2005, Dr. Sinha and his team launched a Patient Survivorship Program (http://hncsupport.org).

The Survivorship Program promotes patient education and awareness about head and neck cancer globally.
Mohd Razif Mohamad Yunus

Professor
Consultant Otorhinolaryngologist Head and Neck Surgeon
President Elect for Asian Society of Head and Neck Oncology
President Elect for Malaysia Society of Otorhinolaryngology Head and Neck Surgeon

MEDICAL EDUCATIONS
1. MBBS from The University of Queensland Australia 1999
3. Fellowship in Head and Neck Oncology Surgery from The Netherlands Cancer Institute Amsterdam . 2009

HONOUR AND AWARDS RECEIVED
2003 Head Of Department Award ( 2003) , Sultanah Fatimah Specialist Hospital , Johor.
2009 Third prize award (Free Paper) Prevalence of High Intraculor Pressure in Patient with Obstructive Sleep Apnoea Syndrome Singapore & Malaysia ENT Joint Clinical Meeting 25th October 2009
2010 Third prize award, Pre emptive analgesia with Oral Ultraceat to Reduce Post Tonsillectomy pain;prospective trial, Annual Scientific Meeting 2010
2012 Anugerah Perkhidmatan Cemerlang UKM

PUBLICATIONS AND RESEARCH
Has published more than 60 articles with 41 SCOPUS INDEXED. Accumulative research grant of more than RM 300 000 since 2007.

JOURNAL
International
Young Jun Chai, MD, PhD

**EDUCATION**
- 1999.3-2003.2 M.D., School of Medicine, Seoul National University College of Medicine, Seoul, Korea
- 2012.3-2014.2 Master Degree, Graduate school, Seoul National University College of Medicine, Seoul, Korea
- 2015.3-2017.2 Ph.D. Course, Graduate school, Seoul National University College of Medicine, Seoul, Korea

**TRAINING**
- 2003.3-2008.2 Internship & Resident Course, Department of Surgery, Seoul National University Hospital, Seoul, Korea
- 2012.3-2013.2 Clinical Fellow, Department of Surgery, Seoul National University Hospital, Seoul, Korea
- 2013.3-2014 Assistant Professor, Department of Surgery, Seoul National University Hospital, Seoul, Korea
- 2014.3-2019.2 Assistant Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea
- 2019.3-present Associate Professor, Department of Surgery, Seoul National University Boramae Medical Center, Seoul, Korea

**NATIONAL SOCIETIES**
- 2008-present The Korean Surgical Society, Member
- 2012-present The Korean Association of Endocrine Surgeons, Vice secretary
- 2012-present The Korean Thyroid Association, Member
- 2013-present The Korean Association of Robotic Surgeons, Member
- 2014-present Korea Intraoperative Neural Monitoring Society, Secretary
- 2016-present Korean Society of Head and Neck Oncology, Member

**INTERNATIONAL SOCIETIES**
- 2012-present International Society of Oncoplastic Endocrine Surgeons, Member
- 2014-present Intraoperative Neural Monitoring Study Group, Member
- 2016-present Journal Clinics in Oncology- Head and Neck Oncology, Editorial Board
- 2019-present American Head and Neck Society, Member

**INTERNATIONAL CONFERENCE PRESENTATION**
- Expression of the embryonic morphogen Nodal in differentiated thyroid carcinomas: Immunohistochemistry assay in tissue microarray and The Cancer Genome Atlas data analysis. Oral Presentation at the 35th Annual Meeting of the American Association of Endocrine Surgeons, Boston, April 2014
- Upregulation of SLC2 (GLUT) family genes is related to poor survival outcomes in papillary thyroid carcinoma:Analysis of data from The Cancer Genome Atlas. Oral Presentation at the 37th Annual Meeting of the American Association of Endocrine Surgeons, Baltimore, April 2016
- Ultrasound image analysis using artificial intelligence for the diagnosis of thyroid nodules. Poster Presentation at the 39th Annual Meeting of the American Association of Endocrine Surgeons, Durham, April 2018
Hyung Jun Kim

Professor, DDS, MSD, Dr.med.dent.
Department of Oral and Maxillofacial Surgery, College of Dentistry, Yonsei University, Seoul, Korea

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

Sep. 2014 - Professor and Chairman in Oral and Maxillofacial Surgery
Oct. 2013 Visiting Professor, Oral and Maxillofacial Surgery, Technical University of Munich, Germany.
Mar. 2001 - Professor in Oral and Maxillofacial Surgery
Feb. 2006 - Jan. 2007 Visiting Professor, Institute of Surgical Experiment, Ludwig-Maximilians University, Munich, Germany
Mar. 2006 - Feb. 2011 Associate Professor in Oral and Maxillofacial Surgery
Mar. 2000 - Feb. 2006 Assistant Professor in Oral and Maxillofacial Surgery
Oct. 1997 - Sep. 1999 Visiting Scholar, Oral and Maxillofacial Surgery, Ludwig-Maximilians University, Munich, Germany

RESEARCH INTERESTS

3D Bioprinting
Anti-cancer viral therapy
Clinical trial

PUBLICATIONS

1. Deep learning-based survival prediction of oral cancer patients, Scientific Reports, 2019
2. Effects of locally administered rhBMP-2 and bisphosphonate on bone regeneration in the rat fibula, Oral Diseases, 2018
4. Machine learning to predict the occurrence of bisphosphonate-related osteonecrosis of the jaw associated with dental extraction: A preliminary report, Bone, 2018
5. Frequent oncogenic BRAF V600E mutation in odontogenic keratocyst, Oral Oncology 2017
3D Virtual Planning and More for Head and Neck Reconstruction to Promote Patient's QOL

Hyung Jun Kim
Yonsei University, Korea

The reconstruction of mandibular defects poses many difficulties due to the unique, complex shape and function of the mandible and the temporomandibular joints. With development of microvascular anastomosis, free tissue transplantation techniques, such as deep circumflex iliac artery (DCIA) flap and fibular free flap (FFF), were developed. Both offers good quality and quantity of bone tissue for mandibular segmental defect and implant for dental rehabilitation. Three dimensional virtual surgical planning (3D-VSP) and stereolithography guided osteotomy are currently successfully applied in three-dimensional mandibular reconstruction. Based on our experience, we offer considerations and logically consistent protocols by classification of mandibular defects, and demonstrate the benefits in 3D-VSP and stereolithographic modeling of mandibular reconstructive surgery with DCIA and FFF flaps.
Steven Wang, MD

Professor and Chair
Department of Otolaryngology-Head and Neck Surgery, University of Arizona College of Medicine
Tucson, Arizona, USA

Dr. Steven J. Wang, MD, is Professor and Chair of the Department of Otolaryngology - Head and Neck Surgery at the University of Arizona College of Medicine - Tucson. He is also the Head and Neck Cancer Disease Team Leader at the University of Arizona Cancer Center.

Dr. Wang graduated summa cum laude from Harvard University in 1991 and received his medical degree from Harvard Medical School in 1995. He completed his Otolaryngology-Head and Neck Surgery residency at the University of California, Los Angeles in 2001, followed by a Head and Neck Oncologic and Microvascular Reconstructive Surgery fellowship at the University of Michigan in 2003.

Prior to coming to the University of Arizona in 2016, Dr. Wang was a Professor in the Department of Otolaryngology - Head and Neck Surgery at the University of California, San Francisco. At UCSF, he established and directed the first transoral robotic surgery program and was program director of the Advanced Head and Neck Oncologic Surgery Fellowship.

Dr. Wang has co-authored more than 80 peer reviewed articles and 9 book chapters. He was recipient of the prestigious Mosher Award for Excellence of Clinical Research Thesis from the Triological Society in 2009. A frequently invited speaker, Dr. Wang has given more than 100 presentations at medical conferences and academic institutions throughout the United States, Asia, and Europe.

Dr. Wang is a fellow of the American Academy of Otolaryngology-Head and Neck Surgery, the American Head and Neck Society, the Triological Society, the American College of Surgeons, and a member of the Society of University Otolaryngologists (SUO). In 2018, Dr. Wang was named Chair-elect of the Skin Cancer and Melanoma Section of the American Head and Neck Society. Dr. Wang is Chair of the Robotic Surgery Committee for the University of Arizona Medical Center, Tucson.

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2016 - present  Professor and Chair, Department of Otolaryngology, University of Arizona
2015 - 2016  Professor, Department of Otolaryngology, University of California, San Francisco
2009 - 2015  Associate Professor, Department of Otolaryngology, University of California, San Francisco
2003 - 2009  Assistant Professor, Department of Otolaryngology, University of California, San Francisco
2001 - 2003  Fellow, Advanced Head and Neck Oncologic Surgery and Microvascular Reconstructive Surgery, Department of Otolaryngology, University of Michigan
1995 - 2001  Resident, Otolaryngology-Head and Neck Surgery, University of California, Los Angeles
1991 - 1995  Harvard Medical School, Boston, MA
1987 - 1991  Harvard University, Cambridge, MA

RESEARCH INTERESTS

Dr. Wang has expertise conducting clinical and translational research studies of head and neck cancers, including HPV-related head and neck cancer, transoral robotic surgery, and quality of life outcomes after head and neck cancer treatment. He was PI of a multi-year VA-funded grant to study the role of CD44 receptors in head and neck squamous cell carcinoma progression and chemotherapy resistance. At UCSF, Dr. Wang was the principal investigator of an NIH-funded prospective study of the role of HPV in head and neck cancer. He is currently the Disease Team Leader of the Head and Neck Oncology Program at the University of Arizona Cancer Center, which oversees multiple clinical research trials for head and neck cancer patients.
Virtual Reality and 3D Models to Improve Safety and Efficiency of Transoral Robotic Surgery

Steven J. Wang
University of Arizona, USA

Minimally invasive surgical techniques such as Transoral Robotic Surgery (TORS) have led to a resurgence of primary surgery for the treatment of many oropharynx cancers. In the ten years since receiving US FDA approval, TORS has been shown to be a safe and efficient surgical technique. But can TORS be made even safer? What is the best method to train new TORS surgeons?

Simulation with virtual reality (VR) models would seem ideal for robotic surgery. But while VR simulators exist for the da Vinci system, none are TORS or head and neck specific. Augmented Reality (AR) is a type of VR technology that combines real-world environments with virtual objects. VR and AR models using medical imaging data could improve 3D visualization of surgical anatomy. 3D rendered VR models can be created by manual segmentation of standard axial CT scans.

VR and AR have been applied to other areas of surgery. Our team at the University of Arizona has developed VR models and 3D-printed instruments for simulation of minimally invasive skull base surgery. Recently, we have explored applying these simulation techniques to oropharyngeal cancers and TORS. There are multiple challenges that become evident when attempting to apply VR models for TORS. A considerable challenge is the deformable nature of soft tissues of the pharynx, in contrast to the relatively fixed bony anatomy of the skull base. In addition, any useful AR modeling would need to interface with the da Vinci or other robotic system console.

We present case examples to illustrate the capability to create simple yet practical VR 3D interactive models of oropharyngeal tumors for surgical margin planning and for assessment of proximity to major vessels.

In summary, future utilization of VR and 3-D models may improve the efficiency of training new robotic surgeons. The use of patient-specific pre-operative VR and AR models by all surgeons may improve the safety of TORS in the future.
Raymond Tsang

Clinical Associate Professor, University of Hong Kong

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

2018-Present  University of Hong Kong, Clinical Associate Professor
2010-2017  University of Hong Kong, Clinical Assistant Professor
2007-2009  Union Hospital, Hong Kong, Consultant ENT Surgeon
2005-2007  Prince of Wales Hospital, Hong Kong, Associate Consultant ENT Surgeon
2015  Master of Surgery, University of Hong Kong
2001  Fellow of Royal College of Edinburgh
1994  Bachelor of Medicine and Bachelor of Surgery, Chinese University of Hong Kong

RESEARCH INTERESTS

Robotic head and neck surgery
Endoscopic head and neck surgery
Minimally invasive surgery for early head and neck cancer
Swallowing problem in head and neck cancer patients

PUBLICATIONS

Integrating Navigation with TORS for the Skull Base and Parapharyngeal Space

Raymond K. Tsang
University of Hong Kong

Background
Transoral robotic surgery (TORS) of the skull base has been established as a form of minimally invasive surgery to the skull base with distinct advantages. Use of a navigation system is recommended in minimally invasive skull base surgery to improve the safety and efficacy of the operation. However, simultaneous deployment of the surgical robot and navigation system is a challenge. We describe our technique and set up in using a electromagnetic navigation system with the da Vinci surgical robot for TORS skull base surgeries.

Method
Three TORS nasopharyngectomies and one TORS parapharyngeal tumor resection was performed with navigation. The electromagnetic navigation system was setup as per manufacturer’s protocol. The robotic arms and sensors of the navigation system were arranged to avoid interference of the electromagnetic field of the navigation system. The video signal of the navigation system was fed into the surgeon’s console of the robot to allow simultaneous visualization of the endoscopic view and navigation scans during use of the navigation probe.

Results
Intraoperative navigation was successful in all four cases. The navigation system assisted the surgeon in identifying the location of the internal carotid artery and ensuring completeness of resection. The accurate of the navigation was within 2mm with reference to bony landmarks of the skull base and the internal carotid artery was confirmed with florescence angiography.

Conclusion
We described our technique of deploying an EM navigation system for TORS skull base surgery, which should improve the safety and efficacy of this type of robotic surgery.
Young Lae Moon, MD (Orthopaedic)

YM Orthopaedic Hospital
Academic Degree: Medical Doctor
Position: Director

CARRIER
Ex-president of Korean Shoulder and Elbow Society from 2017 to 2018
The head physician of KIA Tigers Professional Baseball team since 2016.
Research Scholar of the Orthopedic Department, Shoulder and Elbow Service, Columbia University Hospital, New York, USA. (2005-2006)
Chair of Medical 3D Application Work Group, IEEE-SA (P3333.2), he is performing the standardization of medical 3D applications
Professor of Chosun University Hospital

RESEARCH FIELD
Shoulder, Elbow and Sports Medicine
Medical Informatics,
Medical 3D Application
Standard Medical 3D: Modeling, Simulation and Printings

Young Lae Moon
YM Orthopaedic Hospital

Standardization of medical 3D Application has not been pioneered.
Additive manufacturing, otherwise known to medical 3D, is driving major innovations in many areas, such as manufacturing, engineering, art, education and medicine. Especially, the medical field is greatly becoming interested in this technology with the ability to create solutions specific tailored to the patient. From the creation of 3D models that help surgeons plan operations to the fabrication of patient-specific titanium implants, 3D printing is already changing traditional medical industry.

In our working group, sponsored by IEEE Engineering in Medicine and Biology Society (EMBS) as a primary sponsor for the 3D Based Medical Application Working Group (EMB/Std Com/3333.2) with the Computer Society as joint sponsor, practical applications of medical 3D has been suggested to a technical standards for clinical and educational utilities.

Medical imaging and modeling procedures for solid organ 3D printing
Medical images from hospitals consist of a two-dimensional (2D) dataset and provide human body information as a slice, but the human body has three-dimensional (3D) morphology. If we should simulate this 3D morphology, we might be able to obtain more information about the body as well as contribute in the clinical environment to both treatment and surgical outcomes. The objective for solid organ 3D printing is to generate 3D medical data from 2D images. Although doctors expend a great deal of time and effort in this process, the resultant 3D data are different in each institute. This procedure, therefore, provides standard, easy, and accurate 3D data for solid organ 3D printing.

The procedure for hard and soft tissue 3D printing
Standardization involves the use of medical scanning devices to acquire physical data models with density and size characteristics and to develop comparative analysis data. Moreover, in order to outcome an accurate segmentation, it is necessary to apply some segmentation algorithms, with the pre-processing step, such as extracting bone features with image enhancement and density selection. Finally, the standard for hard and soft tissue 3D printing defines a procedure that increases the precision of 3D printing model output of hard or soft tissues in medical images. In addition, medical imaging and modeling procedures for hard and soft tissue 3D printing will include the following features: 1) Modeling for image enhancement, 2) Visualization in medical image, 3) Data management, 4) Simulation and 5) 3D printing (Fig. 1).

Figure 1. The procedure for hard and soft tissue 3D printing
Standardization of personalized artificial joint implant 3D model design
The goal of medical 3D printing in the orthopedic field is to replace the normal biomedical functions of missing bones. It is necessary to output and apply the artificial joint replacement as the presently feasible intermediate step. This standard is to apply the output to the operation by individually optimizing the shape of the implants of the lost joint based on the rotation data of the positional rotation of the mirrored motion in the normal joint. The use of CAD based on medical image is essential, and a designing technique that minimizes the modeling error is needed. Therefore, definition of optimal design elements for medical 3D printing and development of technical standards based on the analysis of medical elements of artificial joint output are required for analysis of patient’s three-dimensional model data, artificial joint template and other technical factors. In order to maximize the patient and physician’s satisfaction with implant surgery, the accuracy of artificial prosthesis placement is important, and surgical guide model design techniques are required to minimize errors.

Standard for in vivo evaluation of three-dimensional printed polymeric scaffolds in bone defects
The standard specifies the in vivo experimentation required for the biological assessment of three-dimensional (3D) bioprinted polymeric scaffolds intended for use in bone regeneration. 3D bioprinted scaffolds are gaining increased attention, and animal experiments are fundamental in assessing their performance prior to potential clinical use. This international standard can be applied to the preclinical assessment such as animal experiments to evaluate the in vivo performance of 3D bioprinted porous polymeric scaffolds.

IRSS New Frontier Session 3:
Future of “Precision Surgery”: VR, 3D Printing and Surgical Navigation

CHAIRMAN
Il-Seok Park, Hanyang University, Korea

MODERATOR
Han Su Kim, Ewha University, Korea

Medical AI Application to the 3D Printing and AR/VR
Sang Joon Park, Seoul National University, Korea

The Introduce of Emerging Optical Imaging Modalities to Improve Precision Surgery
Seung Hee Han, University of Toronto, Canada

Application of VR in Medicine
Yong Gi Jung, Sungkyunkwan University, Korea

MRI-based Guidance for Robot-assisted Interventions
Ka-Wai Kwok, The University of Hong Kong, Hong Kong
Il-Seok Park, MD, PhD

Dept. of Otorhinolaryngology-Head & Neck Surgery, College of Medicine, Hallym University,
Dongtan Sacred Heart Hospital, Hwaseong, Korea

EDUCATION
1987-1993 M.D. College of Medicine, Hallym University, Chuncheon, Gangwon-Do, Korea
1995-1997 M.S. Otorhinolaryngology-Head and Neck Surgery, Hallym University, Chuncheon, Gangwon-Do, Korea
2001-2003 Ph.D. Otorhinolaryngology-Head and Neck Surgery, Hallym University, Chuncheon, Gangwon-Do, Korea

PROFESSIONAL ACTIVITIES
1994-1998 Resident Trainee, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
1998-2001 Captain, Department of Aerospace Medicine, Korean Air Force 3251 Unit, Korea
2001-2002 Head&Neck Surgery Fellow, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2002-2003 Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Kangdong Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2003-2008 Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Hangang Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2008-2009 Visiting Professor, Head and Neck Cancer Research Center, Johns Hopkins University, School of Medicine, Baltimore, USA
2008-2012 Associate Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Hangang Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2012-2013 Associate Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2013-present Professor, Department of Otorhinolaryngology-Head and Neck Surgery, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2014-2014 Planning Manager, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2015-2018 Chief Medical Officer, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2018-present Chief of CA & PR Committee, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea
2018-present Director of Cancer Center, Dongtan Sacred Heart Hospital, College of Medicine, Hallym University, Korea

FIELDS OF INTEREST
Clinical research on HPV - related Head and Neck Cancer
Epigenetics on Head and Neck Cancer
Tumor Angiogenesis in Advanced Head and Neck Cancer
- Microsatellite Alterations in Oral Cavity and Oropharyngeal Squamous Cell Carcinoma

SOCIETIES
1. Korean Academy of Otolaryngology-Head and Neck Surgery, Director, Social Responsibility
2. Korean Society of Head and Neck Oncology
3. Korean Society of Head and Neck Surgeons, Director, Medical Insurance Committee
4. Korean Bronchoesophagology Society, Director, Computing Committee
5. Korean Society of Logopedics and Phoniatrics, Director, Medical Affairs Committee, Director, Financial Committee
6. Korean Rhinologic Society
7. Korean Skull Base Society
8. Korean Cancer Association
Han Su Kim, MD, PhD

**CLINICAL SPECIALTY**
Laryngology
Head and Neck Surgery- Thyroid Surgery

**RESEARCH FIELD**
Tissue engineering and regenerative medicine: Trachea/Parathyroid gland
Stem cell: Tonsil-derived stem cells

**EDUCATION**
- Mar. 1991 - Feb. 1997: College of Medicine, Yonsei University, Seoul, Korea (M.D.)
- Sept. 2001 - Aug. 2003: Graduate School, Yonsei University, Seoul, Korea (M.S.)
- Sept. 2004 - Feb. 2007: Graduate School, Yonsei University, Seoul, Korea (Ph.D.)

**POSTDOCTORAL TRAININGS & EXPERIENCES**
- Mar. 1997 - Feb. 1998: Internship in Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
- Mar. 1998 - Feb. 2002: Residency in the Dept. of Otolaryngology-HNS, Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
- Mar. 2002 - Feb. 2004: Fellowship in the Subdivision of Head & Neck Surgery, Laryngology, Yongdong Severance Hospital, College of Medicine, Yonsei University, Seoul, Korea
- Mar. 2004 - Feb. 2009: Assistant Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
- Mar. 2009 - Feb. 2014: Associate Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
- Mar. 2014 - Present: Professor in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea
- Mar. 2015 - Present: Director in Head & Neck Cancer Center, Ewha Womans Univ. Mokdong Hospital
- Feb. 2019 - Present: Director in the Dept. of Otolaryngology-HNS, Ewha Womans Univ. Mokdong Hospital, Seoul, Korea
- Feb. 2019 - Present: Chairperson in the Dept. of Otolaryngology-HNS, School of Medicine, Ewha Womans University, Seoul, Korea

**PROFESSIONAL EXPERIENCES**
- Jan. 2003: Visiting Fellowship in the Dept. of Otolaryngology-HNS, College of Medicine, Kumamoto University, Kumamoto, Japan
- Feb. 2003: Visiting Fellowship in Noguchi thyroid clinic, Beppu, Japan
- Feb. 2004: Visiting Fellowship in Dept. of Otolaryngology-HNS, College of Medicine, Goettingen University : Laser surgery course
- Aug. 2013 - Aug 2014: Visiting Fellowship in WFIRM(Wake Forest University Institute for Regenerative Medicine), Winston-Salem, NC, USA
Sang Joon Park

Research Associate Professor, Dept. of Radiology and Biomedical Research Institute, Seoul National University (SNU) Hospital and SNU College of Medicine, Seoul, Korea

APPOINTMENT AND TRAINING

Mar. 2016 – Present  Research Associate Professor, Department of Radiology and Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea
Nov. 2015 – Present  Vice Director, Medical Device Innovation Center, Seoul National University Hospital, Seoul, Korea
Mar. 2014 - Feb. 2016  Research Assistant Professor, Department of Radiology and Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea
Sep. 2012 – Feb. 2014  Adjunct Professor, Department of Radiology, Seoul National University Hospital, Seoul, Korea
Sept. 2011 – Aug. 2012  Senior Researcher (Postdoctoral Research Instructor), Department of Radiology and Biomedical Research Institute, Seoul National University, Seoul, Korea
Feb. 2009 – Aug. 2011  Researcher, Institute of Radiation Medicine, Seoul National University, Seoul, Korea
Sept. 2004 - Jan. 2009  Research Assistant, Institute of Radiation Medicine, Seoul National University, Seoul, Korea

EDUCATION

Mar. 2005 - Feb. 2008  MS (Ph.D. Candidate), Unified Course of the Master’s and the Doctor’s, Interdisciplinary Program in Radiation Applied Life Science, Seoul National University

AWARDS

- Best Poster Award, Seoul National University College of Medicine 2017 Institute of Radiation Medicine Symposium, Republic of Korea, 19, Sep. 2017
- Scientific Presentation Award, 1st AOWPFI & 8th JSPFI, Japan, 31, Jan. 2016
- Best Poster Award, The Korean Society of Medical & Biological Engineering (KOSOMBE), Republic of Korea, 8, Nov. 2013
- Convergence Computing Session 1st Award, The Institute of Electronics and Information Engineers (IEIE), Republic of Korea, 5, Jul. 2013
- Certificate of Merit, 3rd World Congress of Thoracic Imaging (WCTI), Republic of Korea, 11, Jun. 2013
- Academic Award, Intelligent Lung Image Processing Contest in Korean Society of Imaging Informatics in Medicine (KSIIM), Republic of Korea, 7, Jul. 2012
- SCI Paper Award, Seoul National University College of Medicine 2011 Institute of Radiation Medicine Symposium, Republic of Korea, 29, Sep. 2011
- Best Poster Award, International Forum on Medical Imaging in Asia (IFMIA), Japan, 19, Jan. 2011
- 1st Prize, Computer Assisted Radiology and Surgery (CARS), Spain, 28, Jun. 2008
- Prize for Excellence in Student Paper Competition, The Korean Society Medical and Biological Engineering (KOSOMBE), Republic of Korea, 9, Nov. 2007
- Prize for Encouragement, Association for Computer-aided Diagnosis, Republic of Korea, 2, Jun. 2007
- Student Travel Fund Award, Asia Pacific Association for Medical Informatics (APAMI), Taiwan, 29, Oct. 2006
Medical AI Application to the 3D Printing and AR/VR

Sang Joon Park
Seoul National University, Korea

The safe and effective practice of surgery requires an intimate knowledge of anatomy. A thorough understanding of human anatomy empowers medical doctors to plan a suitable approach, predict possible complications, prepare necessary equipment, and properly counsel the patient. Recently, 3D additive manufacturing (AM), known as 3D printing technology, has dramatically changed how we think about making things, thus it has been used for scientific discoveries to develop practical applications based on patient-specific information in real clinical medicine. However, there are practical difficulties such as long working time, various and complex work procedures, and communication delay due to participation of various experts in 3D AM. To solve this problem, efficient convergence system is indispensable. The based convergence system built on diverse knowledge bases (AI, AR/VR, GPU computing technique, etc.) can bring a tremendous impact when 3D printing technology is applied at the hospital. In this lecture, we'll talk about efficient 3D printing works and AR/VR applications based on AI techniques including fundamental knowledge in medicine.
Seung Hee Han

EDUCATION
1998.03 - 2002.02 School: Department of System Engineering & Medical School, Ajou University & Department of Biophysics, Massachusetts Institute of Technology (MIT) & HST (Health Science Technology) in Medical College Harvard University.
Major: Ph.D. Theses in Course of Bio-Medical Physics (M.D & Ph.D course)
Title of Thesis: The Development of a real time optical non-invasive diagnostic technique in vivo

1990.09 - 1994.02 School: Graduate School, Department of Physics, Yonsei University
Major: Master Degree
Title of Thesis: The Study of energy transfer from Ce to Eu in CaS phosphor using ns laser

1986.03 - 1990.02 School: Department of Physics, Yonsei University, Seoul, Korea
Major: Bachelor

WORK EXPERIENCE
2010.01 - Now Institution: Department of Medical Biophysics, University of Toronto
Princess Margaret Hospital, Ontario Cancer Institute, University Health Network.
Role: Faculty Member as a scientist position / Visiting Professor (since 01.2010).
Major Achievements:
1. Development of a Photodynamic Therapy System for Gynecologic Cancer Treatment.
   - Design a PDT System and Diffuser for Cervix Cancer PDT
   - Clinical Study including Animal Study
2. Clinical Study of Multimodal Imaging guided Cancer Treatment using Nanoparticle
   - Clinical study of Nanoparticle based multimodal imaging guided surgery in thyroid, breast cancer.
   - Nanoparticle delivered multimodal therapy with HiFU and Gene therapy at Brain and Breast
   - Test of non-hormonal drug candidate for molecular diagnosis of endometriosis
3. Development of a Novel Multi-modal in vivo Imaging system for Animal-to-Human Use
   - Photoacoustic Imaging for diagnosis and monitoring of cancer treatment
   - Development of portable Molecular PA imaging system with LED and Diode laser
   - Application of Breast, and Prostate Cancer treatment.
   - Charge of: Making a project and design of system
4. Development of Optical Molecular imaging methods; for monitoring of Disease
   - US combined Photoacoustic Imaging guided Gene therapy with microbubble
   - OCT monitoring of cosmetic or drug delivery in skin in vivo.
   - Monitoring of Cancer therapy in both Radiotherapy and Photodynamic therapy
5. International co work in the field of Multimodal Cancer Therapy
   - Nanotechnology based multimodal endoscopic cancer therapy combined with both photodynamic and adenovirus gene therapy
   - Multimodal cancer therapy using both Oncolytic Adenovirus gene therapy and HiFU therapy
   - The study of Oncolytic Adenovirus mediated Radiation Therapy

2017.01 - 2018.12 Institution: MaRS Innovation
Role: Adviser for Canada - Korea Co-work Program.

2009.10 - 2015.09 Institution: Medical Solution Institute,
Sogang Institutes of Advanced Technology (SIAT), Sogang University
Role: Research Professor,
Major Achievements:
   Charge of: Making a project and design of system
2. Established the international co-work program [U of Toronto - Sogang Univ-Pittsburg]
   Charge of: Making a project and design of program
3. Development of Ultrasound guided HiFU therapy
   Charge of: Design of Planning for treatment & Clinical Study
The Introduce of Emerging Optical Imaging Modalities to Improve Precision Surgery

Seung Hee Han1,2
1Department of Medical Biophysics, University of Toronto, 2Princess Margaret Hospital, University Health Network

Biomedical Optical imaging techniques have significant potential as effective intraoperative imaging tools to visualize tissues, cells, and biochemical events aimed at objective assessment of the tumor margin and guiding the surgeon to adequately resect the tumor while sparing critical tissues. Biomedical optical imaging is a broadly interdisciplinary field at the interface of optical technology, biophysics, computer science, medicine, biology, and chemistry, helping us understand light-tissue interactions to create applications with diagnostic and therapeutic value in medicine.

Intraoperative imaging technologies including computed tomography and fluorescence optical imaging are becoming routine tools for precision surgery in the surgery operating room. They constitute an enabling platform for high performance surgical resections that assure local control while minimizing morbidity. New contrast agents that can increase the sensitivity and visualization power of existing intraoperative imaging techniques will further enhance their clinical benefit.

Implementation of optical imaging tools and principles in the surgical operating theater dates back to the early part of the 20th century, when a scientist, Dr. Moore, used fluorescein sodium as a fluorescent biomarker for intraoperative identification of gliomas. Applications of biomedical optical techniques have had a notable scientific and clinical resurgence in recent years in the surgical community. The most well-known example is the use of fluorescence imaging for surgical guidance in brain tumor resection, culminating in a Phase III clinical trial by Stummer and colleagues using 5-aminolevulinic acid–induced protoporphyrin IX (ALA-PpIX) fluorescence for glioblastoma multiform (GBM) resection.

In addition to this initial performance of fluorescence technology and biomarker use in major trials to date, multiple additional biomedical optical tools or technologies are beginning to enter the clinical arena, including diffuse reflectance spectroscopy and imaging, optical coherence tomography (OCT), Photoacoustic imaging, Raman spectroscopy imaging, and quantitative methods, including quantitative fluorescence, lifetime imaging, and beyond laser therapy as like photodynamic therapy.

Here I’d like to present a clinically relevant and technologically informed overview and discussion of some of the major clinical implementations of biomedical optical imaging technologies as tools in precision surgery based on the study in University Health Network.
Yong Gi Jung, MD, PhD

Associate professor, Department of Otorhinolaryngology and Head & Neck Surgery, Samsung Chang-won Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea

EDUCATION
AUG. 2013 - JUL. 2014 Postdoctoral fellow in Dept. of Otorhinolaryngology and Head & Neck Surgery, Johns Hopkins University Hospital, MD, USA
MAR. 2010 - FEB. 2013 Ph.D. in Medicine, Pusan National University Hospital, Dept. of Otorhinolaryngology and Head & Neck Surgery, Pusan, Korea
MAR. 2002 - FEB. 2004 M.S. in Medicine, Chungbuk National University Hospital, Dept. of Otorhinolaryngology and Head & Neck Surgery, Chungbuk, Korea
MAR. 1993 - FEB. 1999 M.D. Korea University, College of Medicine, Seoul, Korea

BOARD CERTIFICATION
2004 Korean Board of Otorhinolaryngology and Head & Neck Surgery

ACADEMIC & HOSPITAL POSITIONS
MAR. 2009-MAR. 2014 Assistant Professor in Dept. of Otorhinolaryngology and Head & Neck Surgery, Samsung Changwon Hospital, Changwon, Korea
APR. 2014-Present Associate Professor in Dept. of Otorhinolaryngology and Head & Neck Surgery, Samsung Changwon Hospital, Changwon, Korea
JAN. 2015-DEC. 2016 Director of public relation committee, Korean Association of Facial Plastic and Reconstructive Surgery
DEC. 2015-Present Department Chair, Dept. of Otorhinolaryngology and Head & Neck Surgery, Samsung Changwon Hospital
SEP. 2016-Present CIO (Chief Information Officer), Samsung Changwon Hospital
FEB. 2019-Present Deputy manager, Planning and Coordination Department, Samsung Changwon Hospital
JAN. 2017-DEC. 2018 Editor in chief, Korean Association of Facial Plastic and Reconstructive Surgery
JAN. 2019-Present Director of research committee, Korean Association of Facial Plastic and Reconstructive Surgery
APR. 2017-Present Director of public relation committee, Korean Rhinology Society
Application of VR in Medicine

Yonggi Jung
Department of Otorhinolaryngology - Head and Neck Surgery, Samsung Changwon Hospital Sungkyunkwan University School of Medicine

Rapid advances in the development of medical devices in the 21st century are contributing to healthier lives, but bring with them a new challenge: teaching clinicians how to use these often-complicated technologies.

A surgeon once needed to perform 10 to 20 cases to reach proficiency in a new procedure. But as complexity has increased, that number has grown to 50 to 100 cases. Also, surgeries using endoscopes or microscopes are increasing, and surgeons are in a situation of understanding the complex anatomical structures viewed from a new perspective, in addition to the previously learned anatomical knowledge.

Virtual reality (VR) has proven to be of real benefit in surgery where it has played (and continues to) an important role in training surgeons. Several examples of this include education of complex 3-dimensional anatomy and non-naked eye procedures, such as endoscopic, microscopic and robotic surgery.

Simulators are a way for surgeons to practice, but they are usually expensive and typically simulate only a single procedure. VR has revolutionized simulation by being more accessible, effective, and affordable. Its portability and ease of use open the door for practicing skills and techniques anytime, anywhere with no risk of patients.

It’s been more than a decade since VR was introduced into medicine, but it’s still not widely used in medicine, especially in surgery. The reality of replacing the actual surgery is not yet completed, and the most important factor, haptic feedback in acquiring the surgical technique is limited in VR simulator. Besides, a lot of time, manpower, and money are spent on developing VR equipment and software, but not many companies are interested in the market because there is only a small market to sell these products.

While there are still many limitations, VR is an essential technique in medical education, especially surgical training, and will replace much of the medical curriculum in the near future. Therefore, while VR technology is still lacking in many parts, it is necessary to pay attention to it without rejecting it.
Ka-Wai Kwok

Assistant Professor
Department of Mechanical Engineering, The University of Hong Kong (HKU)

PROFESSIONAL EXPERIENCE

2014- present The University of Hong Kong (HKU) Assistant Professor
2016- present The Chinese University of Hong Kong (CUHK) Adjunct Assistant Professor
2016- present Aptomr Therapeutics Limited Scientific Assessment Committee
2018- present Signate Life Sciences (HK) Limited Scientific Advisory Committee
2018- present Shenzhen ROBO Medical Technology Co., Ltd Consultant
2015- 2017 Bio-Medical Engineering (HK) Limited Consultant

EDUCATIONAL BACKGROUND

2013- 2014 Harvard Medical School (HMS) and Croucher Postdoctoral Fellow
University of Georgia (UGA)
2012- 2013 Imperial College London Postdoctoral Research Associate
2011- 2012 Imperial College London Postgraduate Research Assistant
2007- 2012 Imperial College London PhD
2003- 2005 The Chinese University of Hong Kong (CUHK) MPhil
2000- 2003 The Chinese University of Hong Kong (CUHK) BEng

RESEARCH INTERESTS

1) Surgical robotics;
2) MR-safe/conditional robotic devices;
3) Human-robot control interface;
4) Intra-operative medical image processing;
5) Healthcare intelligence system.

PUBLICATIONS


[Finalist (out of 3) for ICRA 2018 Best Medical Robotics Paper Award]

Robot-assisted Interventions under MRI-based Guidance

Ka-Wai Kwok
The University of Hong Kong, Hong Kong

Advanced surgical robotics has attracted significant research interest in supporting image guidance, even magnetic resonance imaging (MRI) for effective navigation of surgical instruments. In situ effective guidance of access routes to the target anatomy, rendered based on imaging data, can enable a distinct awareness of the position of robotic instrument tip relative to the target anatomy in various types of minimally invasive interventions. Therefore, such MRI-guided robots will rely on real-time processing the co-registration of surgical plan with the imaging data captured during the intervention, as well as real-time localization of the instrument relative to the anatomy of surgical interest. This talk will overview recent advances in image-guided robotics which potentially resolve surgical challenges of providing a safe, precise and effective surgical manipulation by imposing visual feedback on robotic instruments in soft tissue surgeries.
Distinguished Speaker for Application of NBI in Robotic & Endoscopic HNS

MODERATOR
Marco De Vincentiis, La Sapienza University

Application of NBI in Robotic & Endoscopic HNS
Ichiro Tateya, Kyoto University
Marco De Vincentiis

ESPERIENZA LAVORATIVA
- Date (da – a) 1990 - OGGI
- Nome e indirizzo del datore di lavoro UNIVERSITA' DEGLI STUDI DI ROMA LA SAPIENZA
- Tipo di azienda o settore UNIVERSITA'
- Principali mansioni e responsabilità PROFESSORE ORDINARIO
- Date (da – a) 1982 -TECNICO LAUREATO – IV CATTEDRA CLINICA ORL
- Nome e indirizzo del datore di lavoro UNIVERSITA' DI ROMA LA SAPIENZA
- Date (da – a) 1984 – RICERCATORE CLINICA ORL
- Nome e indirizzo del datore di lavoro UNIVERSITA' DI ROMA LA SAPIENZA
- Date (da – a) 1987- PROFESSORE DI II FASCIA
- Nome e indirizzo del datore di lavoro UNIVERSITA' DEGLI STUDI “G. D’ANNUNZIO” DI CHIETI CON RELATIVO INSEGNAMENTO DI OTORINOLARINGIOATRIA PRESSO IL CORSO DI LAUREA DI ODONTOIATRIA E P.D.
- Date (da – a) 1994-2010 COORDINATORE DEL DOTTORATO DI RICERCA IN “BIOCOMPATIBILITA’”
- Nome e indirizzo del datore di lavoro UNIVERSITA' DI ROMA LA SAPIENZA.
- Date (da – a) 2001-2010 DIRETTORE DIPARTIMENTO DI OTORINOLARINGIOATRIA, AUDIOLOGIA E FONIATRIA “G. FERRERI”
- Nome e indirizzo del datore di lavoro UNIVERSITA' DI ROMA LA SAPIENZA.
- Date (da – a) 2001-2004 DELEGATO RETTORALE
- Nome e indirizzo del datore di lavoro UNIVERSITA' DI ROMA LA SAPIENZA
- Date (da – a) 2014 – DIRETTORE UOC UNIFICATA ORL
- Nome e indirizzo del datore di lavoro AZIENDA POLICLINICO UMBERTO I DI ROMA

ISTRUZIONE E FORMAZIONE
- Date (da – a) 1980
- Nome e tipo di istituto di istruzione o formazione LAUREA MEDICINA E CHIRURGIA UNIVERSITA’ DI ROMA ‘LA SAPIENZA’ VOTAZIONE 110/110 E LODE DISCUENDO LA TESI DAL TITOLO “LE VIE DI ACCESSO CHIRURGICO DEL RINOFARINGE”
- Date (da – a) 1983
- Nome e tipo di istituto di istruzione o formazione SPECIALIZZAZIONE IN CLINICA OTORINOLARINGIOATRICA E PATOLOGIA CERVICO-FACCIALE UNIVERSITA’ DEGLI STUDI DI FIRENZE CON VOTAZIONE 70/70 E LA LODE DISCUENDO LA TESI DAL TITOLO “CISTOADENOLINFOMA DELLA PAROTIDE”
- Date (da – a) 1983
- Nome e tipo di istituto di istruzione o formazione MASTER ANATOMIA UMANA UNIVERSITA’ DI MONTPELLIER
ICHIRO TATEYA

EDUCATION
1994 M.D., Faculty of Medicine, Kyoto University
1999-2003 Ph.D., Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University

POSTGRADUATE TRAINING
1994-1995 Residency, Otolaryngology-Head and Neck Surgery, Kyoto University
1995-1998 Fellow, Otolaryngology, Shiga Medical Center for Adults
1998-1999 Fellow, Phonosurgery and Head & Neck Surgery, Kyoto University

EMPLOYMENT HISTORY AND FACULTY APPOINTMENTS
2003-2006 Postdoctoral Fellow, Department of Surgery, Division of Head & Neck, Surgery, University of Wisconsin-Madison, USA
2006-2008 Chief Physician, Department of Otolaryngology, Kyoto Katsura Hospital
2008-2013 Assistant professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2013-2019 Associate professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2019- Professor and Chairman, Department of Otolaryngology, School of Medicine, Fujita Health University

LICENSURE AND CERTIFICATIONS
1994 Japanese Medical License Registration
1999 Board certified otolaryngologist by the ORL Society of Japan
1999 Board certified broncho-esophagologist by the Japan, Broncho-esophagological Society
2012 Board certified head and neck surgeon by the Japan Society for Head and Neck Surgery
2012 Certification of Advanced Course. Advanced Course for TORS in Severance Robot & MIS Center, Yonsei University, Korea. March 20-21

HONORS AND AWARDS
2004 Young Faculty Research Award, the American Laryngological Association
2005 The Broyles-Malony Award, the American Bronchoesophagological Association
2006 The Casselberry Award Honorable Mention, the American Laryngological Association
2007 1st place poster award, the American Bronchoesophagological Association
2013 Excellent paper award, Japan Head & Neck Basic Research Society
2019 1st place poster award, the American Laryngological Association

DOMESTIC MEMBERSHIP IN JAPAN
1994- Present The Oto-Rhino-Laryngological Society of Japan
1999- Present The Japan Laryngological Association
1995- Present The Japan Broncho-esophagological Society
1994- Present The Society of Practical Otolaryngology, Japan
1995- Present The Japan Head and Neck Cancer Society

INTERNATIONAL MEMBERSHIP AND ACTIVITIES
2008- Present Active member of American Broncho-esophagological Association (ABEA)
2017- Present Council, International Guild of Robotic & Endoscopic Head and Neck Surgery
Training of TORS in Japan

Ichiro Tateya1, Akira Shimizu2, Kazunori Fujiwara3, Yo Kishimoto4, Yasushi Fujimoto5, Kyoaki Tsukahara6, Koichi Omori4, Nobuhiko Oridate6, Hiroya Kitano3

1Fujita Health University, Japan, 2Tokyo Medical University, Japan, 3Tottori University, Japan, 4Kyoto University, Japan, 5Nagoya University, Japan, 6Yokohama City University, Japan

da Vinci surgical system has successfully been approved for transoral surgery by Pharmaceuticals and Medical Devices Agency (PMDA) on August 21, 2018 in Japan. Japan Society for Head and Neck Surgery created and announced a guideline and recommendations for transoral robotic surgery for the safe introduction and spread of transoral robotic surgery in the country. Japanese head and neck surgeons are currently starting transoral robotic surgery in accordance to the training program. Current status of the training system in Japan will be presented at the symposium.
Distinguished Speaker for Rehabilitation of Head and Neck Cancer Patients after TORS

**MODERATOR**

Stéphane Hans, Université Paris 5, France

Rehabilitation of Head and Neck Cancer Patients after TORS

Uttam K. Sinha, Keck School of Medicine of USC, USA
Stéphane Hans

Dr. Stéphane Hans (MD, PhD) is Professor ENT - Head and Neck Surgery at Versailles Saint-Quentin-en-Yvelines University (Paris Saclay University) - Foch Hospital (Suresnes, France). He leads the Program in Minimally Invasive and Endoscopy Head and Neck Surgery: Transoral Laser Microsurgery and TransOral Robotic Surgery.

Dr. Hans’s surgical practice focuses on the surgical management of head and neck cancers. His areas of research interest include endoscopic head and neck surgery, transoral laser microsurgery, transoral robotic surgery including robotic skull base surgery and robotic thyroidectomy.

Dr. Hans has authored or co-authored more than hundred twenty articles.
DISTINGUISHED SPEAKER FOR REHABILITATION OF HEAD AND NECK CANCER PATIENTS AFTER TORS

Uttam K. Sinha, MD, MS, FACS

After completion of college education, Dr. Uttam Sinha joined University of Southern California as a Research Fellow in 1986 where he studied molecular oncology for four years. He then finished residency in Otolaryngology-Head and Neck Surgery at USC in 1995. He continued to peruse academic career and completed a clinical fellowship in Microvascular and Plastic and Reconstructive Surgery in Mount Sinai Hospital, New York. He then went to Leon, France for another clinical fellowship in laryngology. After completion of clinical fellowships, Dr. Sinha joined the Department of Otolaryngology-Head and Neck Surgery at USC as faculty in 1996 and soon became Chief and Residency Program Director. In 2011, University of Southern California established Watt Chair in Head and Neck Cancer Research for Dr. Sinha in recognition of his academic achievements, and outstanding performance in leadership, teaching and research. Dr. Sinha became Director of Head and Neck Surgery and Associate Dean of Surgical Simulation in 2013.

Dr. Sinha is an accomplished head and neck surgeon with national and international reputation. By using his expertise in nanoscience, Dr. Sinha and his team have developed a technology for early detection of cancer and other acute and chronic diseases using saliva. Targeting cancer stem cells, his team is studying prevention of recurrence of cancer and reduction of dose of radiation. Dr. Sinha and his team introduced a novel treatment called neuromuscular electrical stimulation (NMES) for rehabilitation of swallowing using another platform technology called BION. He received multiple federal and foundation grants and published extensively in peer-reviewed journals. Dr. Sinha serves multiple national and international professional organizations in leadership roles. Recently, he was selected as President of Society of University Otolaryngologists-Head and Neck Surgeons, one of the most prestigious organizations in the disciplines of Otolaryngology-Head and Neck Surgery. Dr. Sinha works closely with National Cancer Institute (NCI) to maximize Survival and Quality of Life in head and neck cancer patients. In 2005, Dr. Sinha and his team launched a Patient Survivorship Program (http://hncsupport.org).

The Survivorship Program promotes patient education and awareness about head and neck cancer globally.
Rehabilitation of Head and Neck Cancer Patients After TORS

Uttam Sinha
Keck School of Medicine of USC, USA

The primary goal of performing minimally invasive surgery (TORS/TLM) for oropharyngeal carcinoma (OPC) is to improve Quality of Life (QOL) while maintaining or improving oncologic outcome and survival. Majority of the patients who undergo TORS for OPC, also receive radiation therapy (RT) with or without chemotherapy. Radiation-induced fibrosis (RIF) significantly compromises QOL. Understanding molecular mechanism of RIF and prevention of collateral damage to the normal tissue during RT is of utmost importance to maximize QOL after TORS. In addition, impact of life-style modification to enhance immunomodulation must be emphasized to prevent recurrence of disease or development of a second primary lesion. Timing of rehabilitation is quite important. Active intervention for rehabilitation of swallowing and speech during RT enhances long-term outcome of TORS.
IRSS Symposium 4: “Start-Up” of Robotic HN Surgery in the World

CHAIRMAN
Pei Jen Alex Lou, National Taiwan University, Taiwan

MODERATOR
Cheerasook Chongkolwatana, Siriraj Hospital, Thailand

TORS Experiences in Malaysia
Sek Wee Yeo, Prince Court Medical Centre & Gleneagles Kuala Lumpur, Malaysia

Minimally Invasive Head and Neck Surgery: Experience in Peru-South America "Exploring New Frontiers"
Edgar Jesús Salas Moscoso, AUNA-ONCOSALUD CLINIC, Peru

Basic Training for Residents in Robotic Surgery in the Head and Neck.
A Nation-wide Program
Jose Granell, Rey Juan Carlos University, Spain

Training of TORS in Japan
Ichiro Tateya, Kyoto University, Japan

The Role of Robotic Surgery in Diagnosis and Treatment of Unknown Primary Cancers: The Candiolo Cancer Institute Experience in the Year 2019
Erika Crosetti, Candiolo Cancer Institute, FPO IRCCS, Candiolo, Italy
Pei Jen Alex Lou

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE
2011~ NTU, Professor
2007-2011 NTU, Associate Professor
2006-2007 NTU, Assistant Professor
2000-2006 NTU, Clinical Assistant Professor
1995-2000 NTUH, Attending Surgeon
1991-1995 NTUH, Resident

RESEARCH INTERESTS
Prof. Lou's major interest is the diagnosis and treatment of head and neck cancers. He is in charge of the Taiwan Head and Neck Cancer Consortium, and is the Principle Investigator of the Taiwan Head and Neck Cancer Biosignature Project. Prof. Lou is actively involved in head and neck cancer related clinical and translational studies. He has also served as an Principle Investigator of domestic and global clinical trials on head and neck squamous cell carcinomas and nasopharyngeal carcinoma.

PUBLICATIONS
Cheerasook Chongkolwatana

Associate Professor, Department of Otorhinolaryngology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

1981 MD. Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
1987 Dip. Thai Board of Otolaryngology
1989 Laryngology and esophageal speech Inst. Logopedics and Phoniatric, Tokyo university and Ginreikai Japan
1993 Clinical observer: Case Western Reserve Univ., Cleveland, Ohio USA
1993-4 Research fellow in laryngology/ Visiting instructor Vanderbilt University, Nashville, Tennessee, USA
2012-2016 Chairman, Department of Otorhinolaryngology, Faculty of Medicine Siriraj Hospital, Mahidol University:
2012-2015 Scientific Chair: The Royal College of Otolaryngologists Head and Neck Surgeons of Thailand;
2014-2016 President Head and Neck Society, Thailand
2014-present Committee of Asia-Pacific Society of Thyroid Surgery:

RESEARCH INTERESTS

Benign and malignant diseases of larynx
Head and neck surgeries, Thyroid surgery
Laryngeal injuries, Laryngotracheal stenosis
Laser surgery and robotic surgery

PUBLICATIONS

IRSS SYMPOSIUM 4: “START-UP” OF ROBOTIC HN SURGERY IN THE WORLD

Sek Wee Yeo

EDUCATION
February 1995
Section A, FRCSI (Dublin)
6th December 1998
FRCS (B) General Surgery
6th December 1999
FRCS (B) Otolaryngology (Belfast)
1987-1993
Royal College Of Surgeons In Ireland
Date Of Graduation: 4th June 1993
Degrees awarded: M.B. B.Ch. B.A.O.
L.R.C.P. & S.I.
(National University Of Ireland)
Certificate in Radiology.

1981-1987
Bethany School, Kent, U.K.
GCE ‘A’ Levels: Mathematics(A)
Chemistry(A)
Physics(B)

CLINICAL ELECTIVE EXPERIENCE
Summer 1989
General Medicine (4 Weeks)
Singapore General Hospital
Consultant: Dr. Teh Lip Bin
General Surgery (3 weeks)
National University Hospital, Singapore
Consultant: Mr. Kesavan Nathan.

Summer 1990
Accident & Emergency Department (4 weeks)
James Connolly Memorial Hospital, Dublin 9.
Consultant: Mr. Derek Barton
A significant part of the work was in the resuscitation and immediate management of General Medicine emergencies and trauma patients.

December 1991
Obstetrics & Gynaecology (4 weeks)
General Hospital, Kuala Lumpur.
University Kebangsaan Malaysia
Consultant: Dr. Abdul Aziz Yahaya

1995-2000
Irish Higher Surgical Training in Otolaryngology/ Head & Neck Surgery
6 months rotation between various subspecialty in Otolaryngology
FRCSI in Otolaryngology (2000)

2000-2005
Monash Medical Centre, Melbourne
Fellow in Head & Neck Surgical Oncology

2005-2008
Consultant in Head & Neck Surgical Oncology
National University Hospital, Malaysia

2008-Current
Private Consultant in Gleneagles and Prince Court Medical Centre, Kuala Lumpur
TORS Experiences in Malaysia

Sek Wee Yeo
Prince Court Medical Centre & Gleneagles Kuala Lumpur, Malaysia

Trans Oral Robotic Surgery started in Malaysia using the da Vinci S system since the middle of 2016. This was first introduced at Prince Court Medical Centre and later in mid 2018 to Gleneagles Kuala Lumpur with the later version of the Si system.

Face with the cost of owning the system and its maintenance as well as poor insurance payout to patients for utilising the DaVinci for Trans Oral Robotic Surgery, I am presenting the small number of cases from 2016 to the current date.

To date, a total of 19 cases were performed in these institutions with 16 cases for tongue base obstructive sleep apnoea (OSA) and 3 cases for oropharyngeal cancers.

The distributions for gender, age and benign versus malignant cases are represented in a chart. The average weight of the excised tongue base for OSA patients are also tabulated.
Edgar Jesús Salas Moscoso


PROFESSIONAL BACKGROUND

2019 Minimally Invasive Thyroid Surgery Bangkok, Thailand
Police General Hospital

2018 Head and Neck Surgery Lima, Peru
-head and Neck Surgery

2017 Minimally Invasive and Robotic Head and Neck Surgery Seoul, Korea
Yonsei University, Severance Hospital

2017 Transoral Robotic Thyroidectomy (TORT) Seoul, Korea
Korea University College of Medicine

2016 Advanced Endoscopic Skull Base Surgery Sao Paulo, Brazil
IRCAD – Latin America, Barretos Cancer Hospital

2015 Head and Neck Surgery and Oncology Sao Paulo, Brazil
AC Camargo Cancer Center

2012 Head and Neck Surgery Lima, Peru
National Institute of Neoplastic Diseases

SOCIETY MEMBERSHIPS

2017 International Guild of Robotic and Endoscopic Head and Neck Surgery
2017 Brazilian Society of Head and Neck Surgery
2013 Peruvian Society of Head and Neck Surgery
2013 Peruvian Society of Cancer

RESEARCH ACTIVITIES

2018 Nodal involvement and p16 staining in upper alveolar ridge and hard palate cancer.
Journal of Cancer Metastasis and Treatment.

LECTURES AND TEACHING RESPONSIBILITY

2018 Minimally Invasive Head and Neck Surgery: Technique and Patient Selection
2018 External Branch of The Superior Laryngeal Nerve In Robotic Thyroidectomy:
Minimally Invasive and Microscopic Surgery.

2018 Minimally Invasive Surgery for Benign Head and Neck Tumors
2018 Minimally Invasive Surgery for Benign and Malignant Tumors of the Oral Cavity
2017 Minimally Invasive Thyroid Surgery: Technique and Patient Selection

ABSTRACTS AND PRESENTATIONS

2019 Transoral Endoscopic Thyroidectomy Vestibular Approach: First Case in Peru
2018 Minimally Invasive Parathyroidectomy Via Retroauricular Approach: First Case in Peru
2017 Minimally Invasive Parotidectomy Via Retroauricular Approach.
2017 Transoral Thyroglossal Duct Cyst Excision: First Case in the American Continent.
2017 Transoral Endoscopic Pharyngectomy: First Case in Peru.
2017 Endoscopic Submandibular Gland Excision Via Retroauricular Approach: First
Minimally Invasive Head and Neck Surgery: Experience in Peru – South America “Exploring New Frontiers”

Edgar Jesus Salas Moscoso
AUNA-ONCOSALUD CLINIC, Peru

There is no doubt that patients have been benefited from Minimally Invasive surgical techniques. We have proceeded cautiously, questioned and reviewed our results and introduced radical modifications to conventional surgery. We will show the next frontiers in Minimally Invasive Surgery in South America.

When the minimally invasive method to perform surgeries started, a new patient centered approach was replacing the paternalistic structures of modern medicine. The historical problem is that surgeons applaud large incisions and denigrate keyhole surgery. Patients, in contrast, want the smallest wound possible.

Minimally invasive head and neck surgery is a safe and effective technique that can treat the surgical needs of many patients. Many surgeons around the world have come to prefer it to traditional open surgery because it uses smaller surgical incisions, few incisions, or no incisions; less damage of skin, muscles and surrounding tissues; less pain, low risk of infection, short hospital stay, quick recovery time, less scarring, reduced blood loss and it has generally the same risks than traditional surgery. But even with minimally invasive surgery there are risks. if the patient is not candidate for it.

Continual innovations in minimally invasive surgery make it beneficial for people with a wide range of conditions. Not all procedures can (or should) be done through minimally invasive methods.

The experience in Peru - South America introduces to the world the feasibility of the retroauricular and transoral approaches using conventional or endoscopic instrumentation during surgery in patients: 6 months to 68 years of age with some conditions treated with minimally invasive surgery for the first time all over the world. This experience extends the range of patient’s age and pathologies to be treated and shows that probably in a near future there will be no limits for minimally invasive surgery.
Jose Granell

Organization: Rey Juan Carlos University Hospital
Position & Title: Associate Director, Department of Otorhinolaryngology

Organization: HLA Moncloa University Hospital
Position & Title: Head, Department of Otolaryngology - Head and Neck Surgery

Organization: European University of Madrid
Position & Title: Associate Professor, School of Medicine.

EDUCATIONAL BACKGROUND & PROFESSIONAL EXPERIENCE

~ 2017 European University of Madrid  A Professor
~ 2017 HLA Moncloa UH (Madrid)  Head.
~ 2015 Rey Juan Carlos UH (Madrid)  Associate Director
2012-2015 Rey Juan Carlos UH (Madrid)  Consultant Otolaryngology
2011-2013 National School of Health (Madrid)  Master Medical Management
2004-2012 NS Sonsoles Hospital (Avila)  Consultant Otolaryngology
1999-2004 S Barbara Hospital (Ciudad Real)  Consultant Otolaryngology
1995-1998 12 de Octubre Hospital (Madrid)  Resident Otolaryngology
1987-1993 Univ Autonoma (Madrid)  Medical School

RESEARCH INTERESTS

Jose Granell, MD, is associate chairman of the Department of Otorhinolaryngology at Rey Juan Carlos University Hospital, Madrid, Spain, since 2017. He attained his medical degree from Universidad Autonoma, Madrid, in 1993, and completed his ENT residency at 12 de Octubre Hospital in Madrid. Since 1999 he has been a faculty member of several hospitals in the Public Health System in Spain. Since June 2017 he is also chairman of the Department of Otolaryngology - Head and Neck Surgery at HLA Moncloa University Hospital, a national reference hospital in the private sector. He is associate professor at Rey Juan Carlos University (public) and European University (private) in Madrid.

His main clinical interests relate to head and neck oncologic surgery, with special focus on open and minimally invasive functional surgery, as well as reconstructive procedures, including a wider concern in facial plastic surgery. He is member of the European Academy of Facial Plastic Surgery (EAFPS) since 2009. Since November 2017 he is member of the board of the Spanish Head and Neck Society (SECYC), and correspondingly otorhinolaryngology representative for Spain at the European Head and Neck Society (EHNS). Currently he champions the development of robotics applied to head and neck surgery in Spain and other Spanish speaking countries, and since 2017 acts as proctor in transoral robotic surgery. He runs the only hands-on course in the country in Robotic Surgery in the Head and Neck.

In recent years he has intensified the focus on thyroid surgery. In November 2017 he was invited to become a member of the board of the Asia-Pacific Society of Thyroid Surgery (APTS).

PUBLICATIONS

Basic training for residents in robotic surgery in the head and neck. A nation-wide program.

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2Department of Otorhinolaryngology - Head and Neck Surgery, HLA Moncloa University Hospital, Madrid, Spain
3Virgen Macarena University Hospital, Sevilla, Spain.

Introduction
Although minimally invasive surgery with robotic instrumentation is indeed a type of endoscopic surgery, the fact is that it requires specific competences that are different from those of conventional surgery. Currently, robotic surgery is not included in official training program for Otorhinolaryngology in Spain, a national program depending on the Ministry of Health. Actually, given the yet limited availability of surgical robotic systems, most residents do not even approach robotic surgery.

Material and Methods
With experience in proctoring in robotic surgery and the support of the Spanish Society of Otorhinolaryngology – Head and Neck Surgery (SEORL-CCC) and resident’s representatives, we designed a modular program to provide nation-wide basic training in robotic surgery for residents.

Results
The program has three sequential steps. The first one is theoretic, with a module taking advantage of powerful on-line training resources. It does not entail associated costs for the trainees and it should be universally available. The second step is experimental training. It is composed of modules dedicated to simulator training, dry-lab and experimental surgical training with animal and cadaver modules. Access to this second step should be facilitated by a nation-wide web of trainers coordinated by the SEORL-CCC. The last step is introduction to clinic (case observation and bedside assistance) and is designed for motivated residents, to be done in departments with a robotic surgery program. The scientific society will keep records of the program, evaluate residents in coordination with their local programs when required, and issue the corresponding certificates.

Conclusions
Although there is previous experience with residents training in some centers around the world, there is no program with a wider scope. It is likely that residents currently on training will be exposed to robotic surgery in their clinical practice. Introducing basic training early should be helpful.
Ichiro Tateya

EDUCATION
1994 M.D., Faculty of Medicine, Kyoto University
1999-2003 Ph.D., Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University

POSTGRADUATE TRAINING
1994-1995 Residency, Otolaryngology-Head and Neck Surgery, Kyoto University
1995-1998 Fellow, Otolaryngology, Shiga Medical Center for Adults
1998-1999 Fellow, Phonosurgery and Head & Neck Surgery, Kyoto University

EMPLOYMENT HISTORY AND FACULTY APPOINTMENTS
2003-2006 Postdoctoral Fellow, Department of Surgery, Division of Head & Neck, Surgery, University of Wisconsin-Madison, USA
2006-2008 Chief Physician, Department of Otolaryngology, Kyoto Katsura Hospital
2008-2013 Assistant professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2013-2019 Associate professor, Department of Otolaryngology-Head & Neck Surgery, Kyoto University
2019- Professor and Chairman, Department of Otolaryngology, School of Medicine, Fujita Health University

LICENSURE AND CERTIFICATIONS
1994 Japanese Medical License Registration
1999 Board certified otolaryngologist by the ORL Society of Japan
1999 Board certified broncho-esophagologist by the Japan, Broncho-esophagological Society
2012 Board certified head and neck surgeon by the Japan Society for Head and Neck Surgery
2012 Certification of Advanced Course. Advanced Course for TORS in Severance Robot & MIS Center, Yonsei University, Korea. March 20-21

HONORS AND AWARDS
2004 Young Faculty Research Award, the American Laryngological Association
2005 The Broyles-Malony Award, the American Bronchoesophagological Association
2006 The Casselberry Award Honorable Mention, the American Laryngological Association
2007 1st place poster award, the American Bronchoesophagological Association
2013 Excellent paper award, Japan Head & Neck Basic Research Society
2019 1st place poster award, the American Laryngological Association

DOMESTIC MEMBERSHIP IN JAPAN
1994- Present The Oto-Rhino-Laryngological Society of Japan
1999- Present The Japan Laryngological Association
1995- Present The Japan Broncho-esophagological Society
1994- Present The Society of Practical Otolaryngology, Japan
1995- Present The Japan Head and Neck Cancer Society

INTERNATIONAL MEMBERSHIP AND ACTIVITIES
2008- Present Active member of American Broncho-esophagological Association (ABEA)
2017- Present Council, International Guild of Robotic & Endoscopic Head and Neck Surgery
Training of TORS in Japan

Ichiro Tateya¹, Akira Shimizu², Kazunori Fujiwara³, Yo Kishimoto⁴, Yasushi Fujimoto⁵, Kiyoaki Tsukahara⁶, Koichi Omori⁷, Nobuhiko Oridate⁸, Hiroya Kitano³

¹Fujita Health University, Japan, ²Tokyo Medical University, Japan, ³Tottori University, Japan, ⁴Kyoto University, Japan, ⁵Nagoya University, Japan, ⁶Yokohama City University, Japan

The da Vinci surgical system has successfully been approved for transoral surgery by Pharmaceuticals and Medical Devices Agency (PMDA) on August 21, 2018 in Japan. Japan Society for Head and Neck Surgery created and announced a guideline and recommendations for transoral robotic surgery for the safe introduction and spread of transoral robotic surgery in the country. Japanese head and neck surgeons are currently starting transoral robotic surgery in accordance to the training program. Current status of the training system in Japan will be presented at the symposium.
Erika Crosetti, MD

AWARDS
2004, April winner of the scientific award “Academy ORL”
2005, December winner of the scientific award for the best poster in the LI Congress Alta Italia
May, 2009, winner of the best video in head and neck oncological surgery in the 96° Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Rimini
May, 2018 winner of the best video in head and neck oncological surgery in the 105° Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Napoli
May, 2018 winner of the First Award SIO 2018, “Patterns of recurrence after OPHL type II and III: univariate and multivariate analysis of risk factors”, in the 105° Italian National Congress of the Italian Society of Otorhinolaryngology and Head and Neck Surgery, Napoli

STAGES
From 2002, April to June she attended a scientific stage in the Plastic and Reconstructive Surgery Unit of the Canniesburn Hospital of Glasgow (Scotland) (Chief: D. Soutar, MD, PhD).
From 2002, October to November she attended a scientific stage in the ENT Department of National Institute of Tumors of Milan (Chief: Giulio Cantù, MD PhD)
From, 2007, June, 1 to July, 31 she attended a scientific stage in the Head and Neck Department (Chief J. P. Shah, MD, PhD), Memorial Sloan Kettering Cancer Center, New York (USA)
From 2010, August, 16 to September, 18 she performed a fellowship at the Department of Plastic and Reconstructive Surgery (Chief: Prof. Fu-Chan Wei), Chang Gung Memorial Hospital - Linkou, Taipei, Taiwan
The role of robotic surgery in diagnosis and treatment of unknown primary cancers: the Candiolo Cancer Institute experience in the year 2019

E. Crosetti1, G. Succo1,2
1 Head and Neck Oncology Service, Candiolo Cancer Institute—FPO IRCCS, Candiolo – Turin - Italy, 2 Department of Oncology, University of Turin, Orbassano – Turin – Italy

The diagnosis of cervical node metastases from an unknown primary cancer (CUP) occurs in 2%-4% of all head and neck squamous cell carcinoma.

The standard diagnostic work-up of CUP is based on physical examination with flexible videoendoscopy (white light and NBI) and morphologic imaging (CT-scan, MRI, PET-CT).

If the primary cancer remains unknown after the work-up the treatment of these patients consists in neck dissection and panendoscopy and several biopsies on the nasopharynx, oropharynx (palatine tonsil, BOT) and hypopharynx.

In case of biopsies' negativity the patient will be finally addressed to radiotherapy, with or without chemotherapy. The extent of the irradiated mucosa varies from ipsilateral oropharyngeal mucosa to all oropharyngeal mucosa and sparing the nasopharynx, to complete upper aerodigestive tract mucosa, with a direct impact on functional outcomes and finally on quality of life.

Recently the transoral robotic surgery (TORS) has emerged as a new interesting weapon to further reduce the number of patients classified as CUP after the diagnostic-therapeutic work-up.

In Candiolo Cancer Institute we started our robotic program on November 2018, using a platform DaVinci XI. Until June 2019 we carried out 42 procedures. Eight male patients (19.04%), had undergone TORS for oropharyngeal resection (transoral robotic tonsillectomy and transoral robotic assisted tongue base mucosectomy) for unknown primary tumors and simultaneous ipsilateral selective neck dissection. All patients were deemed to be HPV positive based in p16 immunohistochemistry on the neck nodes fine needle aspiration biopsy.

All patients underwent the same diagnostic work-up: flexible videoendoscopy (white light / NBI), CT-scan /MRI, PET-CT with no evidence of the primary tumor. After the first diagnostic step a bilateral diagnostic tonsillectomy was carried out sending the specimen to the frozen section → if positive a lateral oropharyngectomy by TORS was carried out, if negative a ipsilateral BOT mucosectomy by TORS was performed sending the specimen to frozen section → if the resection is radical the procedure is considered sufficient, in case of positive margins the resection is enlarged until reaching a complete radicality. The primary tumor was found in the palatine tonsil in 4 patients (50%) and in the lingual tonsil in the remaining patients. In all patients the surgical excision resulted radical and the surgical margins were negative. No post-operative complications were reported. The median lenght of hospitalization was 4.2 days. Patients started to eat in the second post-operative day with a soft diet. Six patients underwent post-operative radiotherapy (IMRT), within 4 to 6 weeks following the procedure; two patients concomitant chemoradiotherapy for extracapsular spread of cervical node metastases.

At the last follow-up (September, 28th, 2019) all patients are alive without evidence of disease.

In Literature several studies has demonstrated that the identification of the primary cancer of the upper aero-digestive tract (UADT) has significant therapeutic impact with a significant improvement in 5-year survival rates, allowing possible complete surgical excision, limited radiation fields and a potential deintensification of adjuvant therapy.

Our preliminary data are in line with Literature ones. The protocol thanks to the improved visualization and wide freedom of motion by TORS allows identification and resection of unknown oropharyngeal cancer reducing the treatment morbidity. TORS resulted also an highly efficacious tool for detecting subcentimeter, HPV-positive, tonsil and BOT primaries when facing with unknown primary patients for whom a traditional diagnostic work-up has failed.
Efficacy and safety of novel minimally invasive neck dissection techniques in oral head and neck cancer: A systemic review and meta-analysis

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Fortis hospital, Bangalore Surgical Oncology1

Purpose
Oral malignancies have good survival compared to other malignancies but complex surgical procedures will cause disfigurement and also has significant morbidity. Minimally invasive neck dissection (MIND) is used to perform neck dissection to minimise surgical morbidity and cosmetic outcome. Despite MIND being popular technique, there is paucity of literature emphasising its safety and efficacy.

Methods
We systematically searched PUBMED, MEDLINE and Embase from database inception to January 2019 for relevant studies comparing MIND and CND and also single arm studies performing MIND alone. Two independent reviewers performed quality check and data were extracted for primary outcomes to assess length of hospital stay, duration of surgery, intraoperative blood loss and retrieved lymph nodes. Drainage volume and duration, length of incision, satisfaction of scar and safety were secondary outcomes.

Results
Out of 144 studies, 17 met the final inclusion criteria. In this 9 were 2 arm studies comparing MIND and CND and 8 were single arm with MIND alone. Sample size for MIND and CND ranged from 6-75 and from 16 to 43 respectively. Males ranged from 50% to 85.7% and females ranged from 14.28% to 77.77% for the MIND group. Median age ranged from 27.33 to 62.5 in MIND group. MINORS scale used for quality assessment of the comparative studies showed score ranging from 18-20 of which 26 being ideal score. MIND technique has shown better overall efficacy with outcomes compared to CND except with duration (SMD 1.82, 95% CI 0.47 to 3.17). Lesser hospital stay, better nodal yield and less intra-operative blood loss was observed with MIND with smaller length of incision. Post operative complications were less tolerable with MIND approach with superior outcomes.

Conclusions
MIND via endoscopic or robotic approach is safe and efficacious with better oncological outcomes compared to CND, it requires significantly longer duration of surgery but provides excellent cosmetic benefits.

Keywords
Minimally Invasive, endoscopic, Robotic, head and neck cancer, neck dissection
Transoral robotic surgery with Medrobotics Flex robotic system for bilateral hilo-parenchymal submandibular stone

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Purpose
The trans-oral approach to hilo-parenchymal submandibular stones is nowadays considered the preferred conservative technique alternative to traditional sialadenectomy; the main purpose is to obtain gland preservation and to eliminate the risk of the cervical scar and the damage of the marginal mandibular branch of the facial nerve. The spread of transoral robotic surgery favoured its application not only for oropharynx but also for the anterior oral cavity. We describe a transoral robotic approach for bilateral hilo-parenchymal submandibular stones by using the Medrobotics Flex Robotic System.

Methods
In June 2019 a 68 years old female with recurrent submandibular swelling due to a bilateral hilo-parenchymal submandibular stone (15x11 mm right side; 11x8 mm left side), diagnosed at CT, underwent the removal of the stones with transoral robotic surgery using the single port Medrobotics Flex Robotic System; the first surgeon positioned behind the head of the patient as well as the single port system.

Results
The procedure was successfully performed and tolerated and the patient was discharged on postoperative day 2; no major complications were observed except for lingual hypoesthesia and moderate painful swelling of the right gland immediately after the procedure. The patient was followed up clinically and ultrasonographically one week and one month after the procedure to verify symptom relief and the persistence of stones; no residual stones were observed while the patient referred persistence of tingling of the tip of the tongue.

Conclusions
The transoral robotic surgical approach with Medrobotics Flex Robotic System seems to be safe and adequate for the conservative management of large hilo-parenchymal submandibular stones; the functional preservation of the gland becomes important especially for a patient with bilateral parenchymal involvement. Moreover, an adequate diagnosis together with a proper docking and approach to the oral floor is mandatory.

Keywords
submandibular stones, transoral surgery, transoral robotic surgery, Medrobotics flex robotic system
Incidence of contralateral nodal metastasis in recurrent oral cavity cancers and its impact on overall survival

Mansih Mair
Tata Memorial Hospital Head and neck surgery

Purpose
Nodal metastasis is an important prognostic factor for oral cancers. However, there is no evidence for the management of contralateral nodes when there is recurrence on the same side as of index tumor.

Methods
1658 oral cancer patients operated during March 2012 to January 2017 were screened. Among them, 78 recurrent oral cavity cancer patients were included in the study. All these patients had their previous index tumor on the same side and ipsilateral neck was addressed during the initial surgery. Moreover, contralateral neck was addressed in all these patients during curative intent surgery for these recurrent tumors. Statistical analysis was done using the software SPSS21.0 (IBM, Armonk, NY). To identify factors associated with nodal metastasis in the contralateral neck, analysis was done using chi-square test and binary logistic regression. For survival analysis, the variables for univariate analysis were selected based on their clinical relevance and done using log-rank test. All significant (P<0.05) variables were subsequently tested (multivariate) with cox-regression analysis using forward stepwise selection.

Results
The study patient included 63 males (83.3%) and 13 females (15.7%) with median age of 54 years. Depth of invasion (> 10 mm) was found to be the only significant factor influencing contralateral nodal metastasis. We also found that patients with inadequate margins(33.3% vs 22.5%), perineural invasion(30.9% vs.20.9% ) and lymphovascular emboli(33.3% vs. 23.3%) had higher probability of contralateral nodal metastasis. The sensitivity of imaging modality in detecting contralateral node was 64.29% and negative predictive value was 88.10%. Contralateral Nodal metastasis significantly affected overall and disease free survival.

Conclusions
It is important to address the contra-lateral neck in recurrent oral cancer patients in view of its high incidence. This may be due to the formation of cross lymphatics in previously operated ipsilateral neck

Keywords
Contralateral, Nodal Metastasis, Recurrent oral cancers
9th INTERNATIONAL ROBOTIC SURGERY SYMPOSIUM
“New Era of Robotic Head and Neck Surgery Using a Flexible Single Port System”

Printed on October 21, 2019
Publication on October 25, 2018

Published by Korean Society of Head and Neck Surgery
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Printed by The WITHIN
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