5th International Congress of the World Federation of Skull Base Societies & 19th Annual Meeting of the North American Skull Base Society

Final Program
Joint Meeting
September 11th - 14th, 2008
Hyatt Regency Vancouver
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Dear Friends and Colleagues,

It is my distinct honor and great pleasure as President of the North American Skull Base Society to welcome you to the 19th Annual meeting of the North American Skull Base Society, this year proudly held in conjunction with the 9th International Congress of the World Federation of Skull Base Societies. The meeting promises to be a spectacular educational, social and cultural event.

The scientific program chairs for the meeting, Saleem Abdulrauf, Moises Arriaga, and Daniel Nuss have organized an outstanding scientific event with contributions from experts around the globe. A highlight of the meeting will be a special lecture by Dr. Joe MacInnis, renowned explorer, oceanographer and physician on leadership and teamwork in extreme conditions – something we will all be able to relate to. The meeting will also highlight the seminal contributions to skull base surgery of our honored guests – Ossama Al-Mefty, Derald Brackmann, Charles Drake, John Leonetti, Albert Rhotion and Madjid Samii.

I welcome you to enjoy and be active participants in the scientific and social programs, and hope that you come away from the meeting with all your expectations fulfilled.

Best Regards,

Franco DeMonte, MD, FRCS, FACS
President, North American Skull Base Society
**Officer and Committees of NASBS**

**Scientific Program Co-Chairs**

- Saleem Abdulrauf
- Moses A. Arriaga
- Daniel W. Nuss

**Officers**

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Franco DeMonte, MD  
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University of Texas MD Anderson Cancer Center  
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Gady Har-El, MD  
Norbert Liebsch, MD  
Amin Kassam, MD, FRCS(C)  
Nancy Lee, MD  
Michael Link, MD  
Thom R. Loree, MD  
Christopher H. Rasseha, MD

**Past Presidents**

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<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1990</td>
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<td>1991</td>
<td>Laligam N. Sekhar, MD</td>
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<td>Ivo F. Janacka, MD</td>
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<td>Peter G. Smith, MD</td>
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<td>Albert L. Rhoton Jr., MD</td>
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<td>Hugh D. Curtin, MD</td>
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<td>Derald E. Brackmann, MD</td>
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<td>1997</td>
<td>Ossama Al-Mefty, MD</td>
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<td>Steven A. Newman, MD</td>
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**Board of Advisors**
- Patrick J. Gullane, MD  
- Anil Nanda, MD  
- Guy J. Petruzzielli, MD, PhD  
- Jon H. Robertson, MD  
- Jatin P. Shah, MD

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4 | The North American Skull Base Society & The World Federation of Skull Base Societies
NASBS
2007-2008 Committee Listing

Scientific Program Chairs
Saleem Abdulrauf, MD, Co-Chair
Moises Arriaga, MD, Co-Chair
Dan Nuss, MD, Co-Chair

Scientific Committee Members
Vijay Anand, MD
Ehab Hanna, MD
Jacques Morcos, MD
James Liu, MD
Mark Varvares, MD
Keetan Bulsara, MD
Siviero Agazzi, MD
Benedicta Baronia, MD
Michael O’Dell

Constitution and Bylaws Committee
Gady Har-El, MD

Membership and Credentials Committee
Carl Heilman, MD

Nominating Committee
Guy Petrzzelli, MD

History and Archives Committee
Jatin Shah, MD

Finance Committee
Dennis Kraus, MD

Audit Committee
Suresh Mukerji, MD

Publications Committee
VJ Anand, MD

Distinguished Service Award Committee
Guy Petrzzelli, MD

Research Committee
Ehab Hanna, MD

Continuing Medical Education Committee
Steve Newman, MD
Dear Colleagues,

On behalf of the World Federation of Skull Base Societies, it is my pleasure to welcome you to this joint meeting of the North American Skull Base Society and the World Federation of Skull Base Societies. The WFSBS was established in order to promote Skull Base Surgery as an interdisciplinary specialty in various countries around the world. Since its inception, Skull Base Surgery has become an established subspecialty particularly in the Neurosurgical and Otolaryngological fields. There are a variety of multidisciplinary teams functioning in many centers around the world. Although Skull Base Committees have been established both by Neurosurgery and ENT societies as a multidisciplinary organization, the WFSBS remains very relevant.

Skull Base Surgery has made several important strides in the last 15 years. Many of the approaches are now well established and outcome studies have been conducted and published, at least in some areas. Radiosurgery and high energy particle radiation are becoming important adjuncts and the role of chemotherapy for certain malignant tumors has been proven. Endoscopic surgery is the new development in the field at present. Several advances need to be made in this field cautiously and the results and complications evaluated carefully. Despite the hype of "minimal invasiveness" with endoscopic surgery, standard Skull Base Surgery is minimally invasive to the brain and in good centers, the results are excellent with regard to surgical resection and complications. With good exposure, there is a remarkably good ability to assess the true extent of the tumor and to deal with intraoperative complications, particularly vascular injuries. This is not to say that "Minimal Access Surgery" (as it should be called) will not be important, but it will require an honest and careful evaluation and comparison to standard skull base surgery by good surgeons. This will eventually help us to choose the right modality of treatment for the patient. In this respect, endoscopic surgery is no different from Radiosurgery, or Endovascular Surgery, both of which now have a well defined role as part of the treatment armamentarium for tumors and vascular lesions.

Most of the radically new advances in the field of Skull Base Surgery are likely to happen in the areas of genes, proteins, and tumor antigens. Young surgeons choosing this specialty must be encouraged to pursue basic and translational research in these fields. The senior members of the organization need to be concerned with the validation of outcomes, quality improvements by process improvements, and the training of young surgeons. Rehabilitation of our patients has not received adequate attention and there are several gains which can be made in this area with minimal investment. There is a pressing need to continue well conducted clinical research which will answer specific questions.

I hope that all the delegates to this meeting will enjoy both the scientific and social program, and the beauty of Vancouver. I hope that they will leave with new friends, and a new found enthusiasm and energy.

With best regards,

Laligam N. Sekhar, M.D., F.A.C.S. - Vice Chairman
William Joseph Leedom and Bennett Bigelow and Leedom Professor
Director, Cerebrovascular Surgery, Co - Director, Skull Base Surgery
Department of Neurological Surgery
University of Washington, Harborview Medical Center
325 9th Avenue Box 359924, Seattle, WA 98104 - 2499
President-Elect, World Federation of Skull Base Societies
World Federation of Skull Base Societies

Dear Colleagues,
It is the pleasure of the World Federation of Skull Base Societies (WFSBS) to welcome you to its 5th International Congress meeting in Vancouver. The WFSBS, as part of its strategic goals, aims to increase cooperation and coordination among national and international skull base societies. The WFSBS will also take a more active role in expanding educational opportunities for young skull base surgeons who seek to obtain more specialized training in our specialty throughout the world. Future strategic initiatives will be discussed at the WFSBS assembly meeting in Vancouver.

Laligam N. Sekhar
President-Elect
WFSBS

Paul Fagan, MD, FRCS, FRACS
President, WFSBS
St. Vincent’s Hospital
Sydney, Australia

Saleem I. Abdulrauf, MD, FACS
Secretary General, WFSBS
Saint Louis University School of Medicine
St. Louis, Missouri, USA

Officers

Derald Brackmann, MD
House Ear Clinic
Los Angeles, California, USA

Anthony Cheesman, MD, FRCS
Charing Cross Hospital
London, United Kingdom

Franco DeMonte, MD, FRCSC, FACS
MD Anderson Cancer Center
Houston, Texas, USA

Wolfgang Draf, MD, PhD
International Neuroscience Institute
Hanover, Germany

Takeshi Kawase, MD, DMSce
Keio University School of Medicine
Tokyo, Japan

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Daniel Nuss, MD, FACS
Louisiana State University
New Orleans, Louisiana, USA

Basant Misra, MS, MCh
PD Hinduja National Hospital
Mumbai, India

Ricardo Ramina, MD, PhD
Neurological Institute of Curitiba
Curitiba, Brazil

Majid Samii, MD, PhD
International Neuroscience Institute
Hanover, Germany

Jatin Shah, MD, FACS
Memorial Sloan Kettering Cancer Center
New York, New York, USA
Dr. Joe MacInnis

Dr. Joe MacInnis is a physician scientist and deep-sea explorer who studies human performance in high risk environments. He's led thirty expeditions under the Atlantic, Pacific and Arctic Oceans including the first team of scientists to dive under the North Pole. He has written ten books and numerous articles for magazines including Scientific American, National Geographic and Wired.

In his riveting presentation, Dr. Joe MacInnis describes a harrowing escape from death in a research sub during a three-mile dive under the North Atlantic—and what it taught him about leadership and teamwork. He follows this with four dramatic stories featuring Apollo astronaut Buzz Aldrin, Academy Award winning director and deep-sea explorer James Cameron, and shuttle astronaut Dave Williams. The stories about his three friends focus on their resolute courage, fierce innovation, creative collaboration and hyper-resilience—bringing fresh insights to these vital leadership skills. Dr. MacInnis’ presentation is about leadership and teamwork in extreme environments. It is especially relevant in today’s uncertain economy. It reveals how individuals working with advanced technology under life-threatening conditions are creating new forms of leadership that can be applied to every deadline-driven, management challenge.
Each year, the NASBS honors individuals who have made major contributions to the management of patients with diseases of the skull base. This year, NASBS President, Dr. Franco DeMonte, has chosen to honor Dr. Ossama Al-Mefty, Dr. Charles G. Drake, and Dr. John P. Leonetti.

Dr. Ossama Al-Mefty is Professor and Chairman of the Department of Neurosurgery at the University of Arkansas for Medical Sciences, a position he has held since 1993. He began his medical education at the Damascus University Medical School, graduating in 1972. Following an internship in Cleveland, Ohio and a year of general surgical residency at the Medical College of Ohio at Toledo he joined the residency program in neurosurgery at the West Virginia University Medical Center in Morgantown, West Virginia. After finishing his residency Dr. Al-Mefty spent 4 years in private practice in Richmond, Virginia. He next traveled to Saudi Arabia where he became a staff neurosurgeon and subsequently acting Chairman of the Neurosciences Department at the King Faisal Specialist Hospital in Riyadh. It was during this time that his abiding fascination with the treatment of skull base tumors began. He returned to the United States and academic surgery in 1985, joining the Department of Neurosurgery at the University of Mississippi where he rose through the academic ranks to professor. After a short tenure as professor of neurosurgery at Loyola University of Chicago he assumed his current position as the Robert Watson Endowed Chair in Neurosurgery at the University of Arkansas.

Dr. Al-Mefty is a pioneer in the field of skull base surgery and his expertise is well recognized and highly sought-after throughout the world. He has given over 650 presentations and has had over 320 invited lectures at meetings and courses around the globe and has been honored with 66 visiting professorships. He is a dedicated teacher and has been faculty and director of well-over 50 workshops and hand-on courses. He is on the editorial boards of numerous prestigious journals including Neurosurgery, Contemporary Neurosurgery, Skull Base Surgery, Critical Reviews in Neurosurgery and Neurosurgical Review. He has received numerous honors including being named the Penfield Lecturer, the first Sugita Memorial Lecturer, the Hakuba Memorial Lecturer and the Dr. Khalifa Bo Rashid Memorial Lecturer. He has authored 189 peer-reviewed papers, an astonishing 74 chapters and 8 books including the seminal textbook “Meningiomas.”

Dr. Al-Mefty is a member of The Society of Neurological Surgeons, The American Association of Neurological Surgeons, The Congress of Neurological Surgeons, and The American College of Surgeons among others. He is a past-president and founding member of the North American Skull Base Society.
Charles G. Drake, CC, MD

Dr. Charles Drake graduated in 1944 from the Medical School of the University of Western Ontario, in the small town of London, Ontario, Canada. He was a rotating intern at the Toronto General Hospital in 1944 – 1945 but returned to Western to complete a Masters of Science in neurophysiology. He subsequently spent a year with John Fulton at Yale University where he studied the physiology of the anterior cerebellum. He began his residency in general surgery but after 2 years was greatly influenced by Kenneth McKenzie, Canada’s first full-time neurosurgeon and former resident of Harvey Cushing, to switch to neurosurgery. Following his residency he studied at various centers throughout Europe and with Sir Hugh Cairns in Oxford.

Dr. Drake returned to London, Ontario in 1952. By 1961 he published his first results in treating patients with ruptured basilar artery aneurysms. This became the great work of his career and by his retirement he had operated on over 1700 patients with this disease. Although best known for his work in cerebral aneurysms and vascular malformations his other clinical interest was in the surgical treatment of acoustic neuromas with preservation and reconstruction of the intracranial portion of the facial nerve. He first published this work in the early 1960s and debated frequently with Bill House over the relative merits of the retrosigmoid and translabyrinthine approaches. He combined the highest professional standards with uncommon modesty, stressing his failures as lessons rather than his triumphs.

Dr. Drake had a consuming interest in interdisciplinary collaboration and was instrumental in the creation of a multidisciplinary department of neurologists, neurosurgeons, neuroradiologists and neuropathologists. He was chairman of this newly formed Department of Clinical Neurological Sciences at the University of Western Ontario from 1969 - 1974 and chairman of the Department of Surgery from 1974 - 1984.

Charles Drake has served as president of the Royal College of Physicians and Surgeons of Canada, president of the American Association of Neurological Surgeons, president of the American College of Surgeons, president of the World Federation of Neurosurgical Societies and president of the Society of Neurological Surgeons. He was awarded the Harvey Cushing Medal by the American Association of Neurological Surgeons. His province decorated him with the Order of Ontario, and his country appointed him an Officer of the Order of Canada. One month prior to his death in September of 1998 he was installed as a Companion of the Order of Canada, an honor given for a lifetime of outstanding achievement and merit of the highest degree, especially in service to Canada or to humanity at large.
John P. Leonetti, MD

Dr. John P. Leonetti graduated Magna Cum Laude from Augustana College in Rock Island, Illinois prior to attending Loyola University of Chicago, Stritch School of Medicine. He graduated from Loyola in 1982 and stayed on as first a surgical intern and later a resident in Otolaryngology-Head and Neck Surgery. He completed a research fellowship at the House Ear Institute and a clinical fellowship in Otology, Neuro-otology and Skull Base Surgery at Barnes Hospital in St. Louis, Missouri. Dr. Leonetti joined the faculty at Loyola University in 1988 and is currently Professor in the Division of Otology, Neuro-otology and Skull Base Surgery in the Department of Otolaryngology-Head and Neck Surgery.

Dr. Leonetti’s clinical interests reside in the diagnosis and management of benign and malignant diseases of the temporal bone and skull base and he has published over 125 peer-reviewed papers and 15 book chapters on his work.

Dr. Leonetti has received numerous honors and awards including the 2004 and 2005 Ronald Reagan Republican Gold Medal and The American Academy of Otolaryngology-Head and Neck Surgery Distinguished Service Award. He serves on the editorial boards of the American Journal of Otology, Archives of Otolaryngology, Skull Base Surgery and LaryngoScope. He is a past-president of the North American Skull Base Society.

Past Honored Guests

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<th>Guest</th>
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<td>1990</td>
<td>Edwin W. Cocke Jr., MD</td>
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<td>Leonard I. Malis, MD</td>
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<td>1992</td>
<td>Madjid Samii, MD</td>
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<td>1993</td>
<td>Michael E. Glasscock III, MD</td>
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<td>1994</td>
<td>Johannes Lang, MD</td>
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<td>Robert G. Ojemann, MD</td>
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<td>Kurt F. Schurmann, MD</td>
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<td>1995</td>
<td>Peter M. Som, MD</td>
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<td>1996</td>
<td>William E. Hittelberger, MD</td>
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<td>William F. House, MD</td>
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<td>1997</td>
<td>Ugo Fisch, MD</td>
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<td>1998</td>
<td>Kil Soo Choi, MD</td>
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<td>Dwight Parkinson, MD</td>
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<td>Naoaki Yanagihara, MD</td>
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<td>2001</td>
<td>Peter J. Jannetta, MD</td>
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<td>T.A.H. (Rab) Hide, FRCS</td>
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<td>2003</td>
<td>Wolfgang Draf, MD</td>
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<td>2004</td>
<td>Albert L. Rhoton Jr., MD</td>
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<td>2005</td>
<td>Paul J. Donald, MD</td>
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<td>Alfred S. Ketchum, MD</td>
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<td>2006</td>
<td>John S. Lewis, MD</td>
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<td>Anthony D. Cheeseman, MD</td>
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<td>Robert Jackler, MD</td>
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<td>2007</td>
<td>Victor L. Schramm Jr., MD</td>
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<td>Bohman Emami, MD</td>
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Derald E. Brackmann, MD

Dr. Brackmann was born in a small town in central Illinois in 1937. He attended the University of Illinois for undergraduate training and graduated from the University of Illinois College of Medicine in 1962. After one year of internship and residency in Chicago, he was inducted into the United States Air Force, where he served as a flight surgeon from 1964-1966. Following completion of his military duty, he had residency training in Otolaryngology Head and Neck Surgery at the University of Southern California, Los Angeles County Medical Center in Los Angeles, completing that training in 1970. Following a clinical fellowship in Otology and Neurology at the House Ear Clinic and Institute, Dr. Brackmann joined the House Clinic. He is also Clinical Professor of Otolaryngology Head and Neck Surgery and Neurosurgery at the Los Angeles County USC Medical Center.

Dr. Brackmann has received many awards, including Medical Alumnus of the Year at the University of Illinois, University of Illinois Alumni Achievement Award and the Award of Merit of the American Otologic Society. He has served as president of the majority of the societies of his specialty, including the American Academy of Otolaryngology Head & Neck Surgery, the American Otological Society, the American Otologic Society, the North American Skull Base Society and the International Skull Base Society. He is a member of numerous societies of his specialty and is also an honorary member of the Otolaryngology Society of Australia and the Royal Society of Medicine of England. In addition to authoring nearly 300 scientific articles and book chapters, he is the editor or co-editor of four textbooks and is a co-editor of yearly series entitled Advances in Otolaryngology Head and Neck Surgery.

Dr. Derald Brackmann specializes in diseases of the ear, facial nerve, dizziness and acoustic neuromas. Dr. Brackmann resides with his wife of forty-two years in South Pasadena, California. They have four sons: David, Douglas, Mark and Steven; and two grandchildren: Lauren and Nick. Recreational interests include hunting and fishing with his family and good friends.

Dr. Brackmann continued the development of neuro otology after the departure of William House from the House Ear Institute. He has trained countless neurootologists who have become famous in their own right, and has taught neurootology to surgeons all over the world. He has also embodied the spirit of collaboration between the various specialties in skull base surgery, starting with and still continuing his work with William Hilselberger.
Dr. Albert L. Rhoton, Jr. was born in Parvin, Kentucky. He attended Washington University School of Medicine graduating with the highest academic standing in the class of 1959. He completed his neurological training at Washington University and joined the staff of the Mayo Clinic in Rochester, Minnesota in 1965. He became Professor and Chairman of the Department of Neurological Surgery at the University of Florida in 1972, a position which he held until his retirement.

He is currently an Emeritus Professor in that Department.

Dr. Rhoton has served as President of the American Association of Neurological Surgeons, the Congress of Neurological Surgeons, the Society of Neurological Surgeons, the North American Skull Base Society, the International Interdisciplinary Congress on Craniofacial and Skull Base Surgery, the Florida Neurosurgical Society, and the International Society for Neurosurgical Technology and Instrument Invention. He served as the Honored Guest of the Congress of Neurological Surgeons in 1993. In 1998 he was the recipient of the Cushing medal, the highest honor granted by the American Association of Neurological Surgeons. In 2001, he was awarded the Medal of Honor by the World Federation of Neurosurgical Societies. He has served as the Honored Guest or been elected to Honorary Membership in neurological societies in Africa, Asia, Australia, Europe, and North and South America. He has published more than 360 scientific papers. He recently completed the Millennium and Anniversary Issues of Neurosurgery and a book entitled “Cranial Anatomy and Surgical Approaches.” He has received an Alumni Achievement Award from Washington University School of Medicine and both a Distinguished Faculty Award and a Lifetime Achievement Award from the University of Florida. Friends, colleagues, and former residents contributed nearly $2 million to the University of Florida Foundation to create the Rhoton Chairman’s Endowed Professorship at the University of Florida, and that gift has grown to more than 6 million. This is in addition to 11 endowed chairs which Dr. Rhoton has raised for neurosurgery over the years. He has been cited as being among the best doctors in America in several books and also in publications by Good Housekeeping, America’s Health, and Town and Country. His special interests include Trigeminal Neuralgia, Hemifacial Spasm, Pituitary Tumors, Acoustic Neuromas, Microsurgical Anatomy.

He and his wife, Joyce, have four children all of whom are in the medical field, including one son, who is a neurosurgeon.

Dr. Rhoton is one of the founding members of the North American Skull Base Society. His pioneering anatomical studies of microsurgical anatomy, and innovations in the art of microsurgery have made it possible for many in the younger generation to learn and practice high quality microsurgery of the skull base. He has been extremely involved in the teaching of microsurgical anatomy through his fellows, lectures, and courses all over the world.
Madjid Samii, MD, PhD

Madjid Samii was born in Tehran on June 19, 1937, graduated in medicine and biology from the University of Mainz, Federal Republic of Germany, in 1963. Under Professor Dr. Kurt Schurmann, he completed his training at the Neurosurgical Clinic of the University of Mainz in 1970 and was nominated Associate Professor and Vice Director of the Neurosurgical Clinic in the same year. In 1972 he became Professor of Neurosurgery. In 1977 he established the first micro neurosurgical training laboratory in Germany with support of Volkswagen Foundation and since then he is the Director of the Neurosurgical Clinic, Nordstadt Hospital in Hannover. In 1988, he also accepted the Chair of Neurosurgery at the Medical School of Hannover.

In 1979 he was co-founder of the Skull Base Study Group and was President from 1988-1992. In 1992 he was elected as President of the International Skull Base Society as well as the 1st President of the World Federation of Skull Base Societies. In 1994 he was nominated as President-elect of the German Society of Neurosurgery, and became President from 1996-1998. He was the President of the World Federation of Neurosurgical Societies from 1997-2001.

He was awarded the “Order of Merit First Class of the Federal Republic of Germany” for the practical development of neurosurgery and special efforts for the international scientific cooperation in this field, as well as the “Lower Saxony Prize 1988 for Science” for the dedication, work, achievement and research in the field of neurosurgery. In 1990 he initiated the International Course on Clinical Neurosurgery in Hannover as a Continuing Education Project of the World Federation of Neurosurgical Societies twice a year, which is being continued successfully.

He has given more than 1,000 lectures as invited and/or honored guest of numerous national and international congresses. He is Honorary Professor of the Medical School of Military Academy in Beijing, University of Uruguay, and University of Alexandria, Egypt. He is Doctor Honoris Causa of the Catholic University do Rio Grande de Sul in Porto Alegre, Brazil, and University of Antioquia, Medellin, Colombia. He is an honorary and/or corresponding member of 57 national and international scientific societies. He has more than 401 papers and 15 books.

In July 2000, with the inauguration of the International Neuroscience Institute (INI) - in a unique building in the shape of a brain - Madjid Samii realized his dream to create a center of excellence with worldwide connections. He is President of the International Neuroscience Institute (INI) and Honorary President of the World Federation of Neurosurgical Societies. In July 2004, he was nominated as President of the China International Neuroscience Institute at the Capital University of Medical Sciences in Peking, China.

Professor Samii is one of the founders of the Skull Base Surgical Specialty and by his innovation, art of surgery, collaboration, education, and the establishment of three neurosurgical centers in Germany, and one in China he has been instrumental in firmly establishing skull base surgery as a subspecialty of Neurosurgery. His early efforts in Europe, and subsequently all over the world, led to the establishment of skull base surgery societies in many countries, and in the establishment of the World Federation of Skull Base Societies, of which he was the first President. He has trained many young surgeons from all over the world, who have gone on to become famous in their own right, and have established skull base surgery firmly as a distinct surgical discipline.
Meeting Location
All scientific sessions for the Annual Meeting of the World Congress will be held at the Hyatt Regency Vancouver, BC, Canada.

Practical Courses
The practical courses are on Tuesday, September 9th and Wednesday, September 10th.

Registration
On-site registration for the meeting will be held at the Hyatt Regency Vancouver at the following times:

- Wednesday, September 10: 2:30 p.m. – 6:00 p.m.
- Thursday, September 11: 6:30 a.m. – 6:00 p.m.
- Friday, September 12: 6:30 a.m. – 6:00 p.m.
- Saturday, September 13: 6:30 a.m. – 6:00 p.m.
- Sunday, September 14: 6:30 a.m. – 12 noon

Guest Registration
Spouses or guests of registrants, who do not attend the scientific sessions, may register as a guest.

The guest registration fee includes the President’s Reception, Wine & Cheese Reception, and the Annual Banquet. Additional banquet tickets can be purchased at $75 each.

Exhibit Hours
- Thursday, September 11: 8:00 a.m. – 8:00 p.m.
- Friday, September 12: 8:00 a.m. – 4:15 p.m.
- Saturday, September 13: 8:00 a.m. – 4:15 p.m.

Speaker Ready Room
A Speaker Ready Room, located in King George, will be available for all presenters to use. You are urged to visit the Speaker Ready Room to reconfirm your audio/visual needs and review your presentation. An audio/visual technician will be available to assist you. Hours of operation:

- Thursday, September 11: 6:30 a.m. – 5:30 p.m.
- Friday, September 12: 6:30 a.m. – 5:30 p.m.
- Saturday, September 13: 6:30 a.m. – 5:30 p.m.
- Sunday, September 14: 6:30 a.m. – 11:00 a.m.
Disclosure of Commercial Relationships
As an ACCME accredited provider, the Society and the Continuing Medical Education Committee of the North American Skull Base Society must ensure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational activities. As part of an overall management of potential conflicts of interest, the North American Skull Base Society expects all speakers and faculty to disclose to the activity participants any significant financial interest or other relationship with commercial interests (any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients).

The management of potential conflicts of interest, including disclosure, are implemented by the North American Skull Base Society to ensure that these educational activities focus on the scientific and clinical advances from a context of improving patient care.

Faculty and presenters are also expected to disclose if their content includes a discussion of non-FDA approved uses of pharmaceutical and/or medical devices.

Membership In The North American Skull Base Society
The fee for membership in the North American Skull Base Society is $275.00 per year. Membership in the society includes a discounted fee to the annual meeting, practical courses, the society newsletter, and the journal Skull Base: An Interdisciplinary Approach. For information on joining NASBS, please call the society’s headquarters at 703-437-4377 or visit the website at www.nasbs.org. See page 42 for a membership application.

Support To The Society
We gratefully acknowledge the following companies for providing financial support for the World Congress:

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Annual Meeting Educational Objectives
Through participation in this Annual Meeting, members of the North American Skull Base Society and other attendees will have the opportunity to:
- Recount the history of skull base surgery and its origins;
- Discuss the education of our residents and fellows in skull base surgery;
- Recognize the potential complications of skull base surgery with particular emphasis on identifying pre-operative risk factors and intra-operative warning signs;
- Describe the importance of short-term care and recognize the potential and limitations in long-term rehabilitation for patients with skull base lesions;
- Explore the trends and directions of the future that will change the face of skull base surgery;
- Discuss the evolving role of minimally invasive and endoscopic skull base surgery; identify the potential of new technologies in neuro-navigation and stereotaxis;
- Discuss the developing alternative treatment modalities, such as stereotactic radio surgery that can be utilized for management of tumors of the skull base;
- Review the status of medical alternatives to traditional surgery, such as medical and hormonal therapy and gene manipulation.
- Recognize the potential complications of skull base surgery with particular emphasis on identifying pre-operative risk factors and intra-operative warning signs;
- Describe the importance of short-term care and recognize the potential and limitations in long-term rehabilitation for patients with skull base lesions;
- Discuss the recent advances in skull base pathology and surgery.

CME Accreditation
The North American Skull Base Society is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians. The NASBS Designates Category 1 credit towards the AMA Physician’s Recognition Award for the World Congress for up to 27.5 hours and for the one-day practical courses – Endoscopic Approaches will be up to 8.0 hours and Skull Base Approaches Course up to 8.75 hours. Rhoto 3-D Surgical Anatomy Course will be up to 4.0 hours. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Badges
Badges should be worn at all times during scheduled meeting activities. Your badge is your admission pass for all meeting sessions, social events, and exhibit hall.

Meeting Language
The language used at the meeting will be English.

Smoking
Smoking is not permitted in any room or area in which a meeting is sponsored or an organized activity is held. This prohibition includes the registration area, the exhibit hall, and rooms in which meetings and social events are held.
Tuesday September 9th

Endoscopic Approaches PC (Director: V. Anand)

8:00 am Sinus Anatomy and Corridors to The Skullbase – Vijay K. Anand
8:20 am Overview of Endonasal Skull Base Approaches – Theodore H. Schwartz
8:40 am Skullbase Surgery: Endoscopic Versus Open – The Otolaryngologists Perspective – Wolfgang Draf
9:00 am Endoscopic Pituitary and Craniopharyngioma Surgery – John Jane Jr.
9:20 am Current Indications and Limitations in Endoscopic Surgery of the Skull Base – TBA
9:50 am Discussion
10:00 am Coffee Break
10:30 am Decision Making in the Management of Meningiomas of the Skull Base and Suprasellar Lesions – James Evans
11:00 am Endoscopic Management of Paranasal Neoplasms – Wolfgang Draf
11:20 am Endoscopic Skull Base Reconstruction – Vijay K. Anand
11:40 am Successful Management of Complications of Endoscopic Skull Base Surgery – Carl Heilman
12:00 pm Discussion
12:15 pm Lunch
1:15 pm Surgical Demonstration
1:45 pm Lab Dissection by Participants
5:30 pm Adjourn

Lab Faculty for Day 1 and Day 2:
Ben Baronia, Vladimir Hufana, Genvieve Lapoint, Justin Sweeney, Dennis Velez, Micael Kupferman, Paul Gidley, Abtin Tabae, Seth Brown, Ameet Singh, Gunston Nyquist

Wednesday September 10th

Skull Base Approaches Practical Course
Co-Directors: E. Hanna & J. Morcos

8:00 - 8:10 am Introduction

Anterior Module
8:10 am Anterior transfacial approaches – Dan Nuss
8:30 am Transfronto-orbita approaches – Carlos David
8:50 am Participants dissect, concomitantly with Daniel Nuss and Carlos David
10:30 am Break

Middle Module
10:45 am Lateral preauricular infratemporal approaches – Ehab Hanna
11:05 am Middle fossa approaches – Atul Goel
11:25 am Participants dissect, concomitantly with Ehab Hanna and Atul Goel
1:00 pm Lunch

Posterior Module
2:00 pm Postauricular transtemporal approaches. Neurootology perspective – Sean McMenomy
2:20 pm Postauricular transtemporal approaches. Neurosurgery perspective – Mustafa Baskaya
2:20 pm Participants dissect, concomitantly with Sean McMenomy and Mustafa Baskaya
4:20 pm Break and Questions
4:45 - 6:00 pm Case presentations by Hanna/Morcos, to be discussed by panel of invited faculty

Rhoton 3-D Surgical Anatomy Course
Coordinators: Raul Olivera and Benedicto Baronia
1:00 – 5:00 pm

Evening program: Welcome Reception
6:30 pm

Practical Course will be held at:
Centre of Excellence for Surgical Education and Innovation
Vancouver General Hospital
902 West 10th Ave.
Vancouver, BC V5Z 1M9

NOTE: Transportation to the NASBS Practical Courses will depart promptly from the Hyatt Regency lobby at 7:00 a.m. each day.

Hyatt Regency Plaza A
Perspective Level 34th Floor
Thursday September 11th

7:00 – 8:00 am  Breakfast Seminars

Decision Making in Anterior Cranial Base Malignancies: Who is Operable?  
Mark Varvares (Moderator), Michael O’Dell and G. Danesi  
Plaza A

“How I do it” Endoscopic Transphenoidal Surgery  
James Chandler (Moderator), K. Turel, Axel Perneczky and John Jane Jr.  
Plaza B

“How I do it” Resection of Petroclival Meningiomas  
Jacques Marcos (Moderator), Mario Ammirati, Ahmed Al-Feryan and P. Calbucci  
Plaza C

Vertebral Artery Aneurysms: Surgical Approaches  
Chris Getch (Moderator), John Diaz-Day and Renato Golzio  
Georgia A

Management Decisions for Patients with Acoustic Tumors  
John Golfinos (Moderator), Anthony Mikulec, Eduard Zverina, Koo Van Overbeeke and Ryo Akagami  
Georgia A

8:00 am  Break  
8:15 - 10:00 am  Plenary Sessions

Meningiomas  
Moderators: Franco DeMonte and Paul Aguiar  
• Skull Base Meningiomas: When to Operate – Christer Lindquist  
• Petroclival Meningiomas: Goals and Outcomes of Microsurgical Resection – Ossama Al-Mefty  
• The Role of Endoscopic Surgery for Meningiomas – Amin Kassam  
• Radiosurgery of Skull Base Meningiomas – Hee Wonsung  
Regency D

Acoustic Neuromas  
Moderators: M. Arrigaga and TBA  
• Managing Recurrent Tumors after Surgical Excision – Carl Heilman  
• Managing Post Radiation Growth – Rick Friedman  
• Role of Incomplete Tumor Resection – Koo Van Overbeeke  
• The Tiny Acoustic Neuroma in Young and Older Patients – Jens Tompsoon  
Regency E/F

10:00 - 10:30 am  Break  
10:30 - 10:50 am  WFSBS President-elect Address – Laligam Sekhar  
10:50 -11:05 am  Honored Guests Presentation: Franco DeMonte and Laligam Sekhar  
(Presenting Professors Ossama Al-Mefty and Al Rhoton.)  
Regency D/E/F

11:05 - 12:00 pm  Invited Presidential Lecture: The Bright Stuff – Joseph Maclnnis  
12:00 - 1:00 pm  Lunch with NASBS Business meeting  
1:00 - 2:00 pm  Special Topic Session

Session A

Skull Base Radiosurgery:  
Moderators: Michael Link  
Topics: Proton Beam for Head and Neck Cancer, Annie Chan; Long-term Patient Outcomes Following Proton Beam Therapy for Skull Base Tumors, Eugen Hug; Radiosurgery for Meningiomas, Jason Sheehan; Radiation Therapy for Lesions Affecting the Optic Nerves: When to Radiate?, Steven Newman  
Regency D
Session B

Craniofacial Resection: Techniques and Teams
Moderators: John Diaz-Day and Mark Varvares
Topics: Incision Design and How to Avoid Complications, Peter Nelligan; Preservation of Vascular Territories, Jatin Shah; Team Approach, Outcomes, and Complication Avoidance, Kiyoshi Saito; Skull Base Closure: Selection of Biomaterials, Dan Nuss

2:15 - 3:45 pm  Scientific Paper Session

Session A

#181
Image fusion in Image Guided Endoscopic Skull Base Surgery.
Edward J Chisholm (Presenter), Nigel Mendoza, William E Grant
2:15 - 2:25 pm

#010
The Development of Flexible Arm for Holding Brain Spatula
Hiromu Hadeishi (Presenter), Junta Moroi, Kifumi Suzuki
2:25 - 2:35 pm

#013
Management of Traumatic Facial Palsy
Tony Cheesman (Presenter)
2:35 - 2:45 pm

#191
Gadolinium induced Nephrogenic Fibrosis and Skull Base Imaging
Moises A Arriaga (Presenter)
2:45 - 2:55 pm

#120
Application Accuracy of CT Based Image Guided Navigation of Temporal Bone
Promod Pillai (Presenter), Steffen Sammet, Mario Ammirati
2:55 - 3:05 pm

#067
Intraoperative Imaging and Computer-assisted Surgery using the O-arm™ Imaging System in Pediatric Skull Base Surgery
Ken Kazahaya (Presenter), Brian Dunham
3:05 - 3:15 pm

#038
Digitalization of Surgical Technique: Application into Microsurgical Robotics and Surgical Simulation
Akio Morita (Presenter), Sigeo Sora, Taichi Kim, Masahiro Shin, Naohiko Sugita, Mamoru Mitsui, Ryo Mochizuki
3:25 - 3:35 pm

#040
Databases for Skull Bases
Mitchell G Maltenfort (Presenter), James J Evans, Marc R Rosen
3:35 - 3:45 pm

Session B

#096
Recurrent Pituitary Adenomas – Choice of Surgical Procedure Case Report
Jamil A Rzaev (Presenter), Victor V Rudenko, Olga V Rzaeva
2:15 - 2:25 pm

#020
Pituitary Gland Surgery and Results at King Hussein Cancer Center
Maher Ahmed Elayyan (Presenter), Amer Abd olzaq Al Shurbaji
2:25 - 2:35 pm

#029
Gamma Knife Radiosurgery for Acromegaly: Outcomes Following Failed Transsphenoidal Surgery
Jason Sheehan (Presenter), Jay Jagannathan, Nader Pouratian, Edward Law, Ladislau Steiner, Mary Lee Vance
2:35 - 2:45 pm

#097
Endoscopic Endonasal Pituitary Surgery: Analysis of 135 Cases
Jens Conrad (Presenter), Robert Reisch, Patra Charalampaki, Ali Ayyad, Axel Pernecky
2:45 - 2:55 pm

#146
Endoscopic Transsphenoidal Approach for Pituitary Tumors
Mariangela Barbi Gonçalves (Presenter), José Alberto Landeiro, Mario Steiner Flores, Maria Helena Melo
2:55 - 3:05 pm

#168
Endoscopic Surgery for Pituitary Adenomas: Outcome and Analysis of Over 125 Consecutive Cases from a Prospective Database
Stavropoulou T Tzounakaros (Presenter), Benedict Tan, Mark R Rosen, James J Evans
3:05 - 3:15 pm
#214
Outcome of Purely Endoscopic Surgery for Pituitary Adenoma: a systematic review of the literature.
Orphee Makiese (Presenter), Promod Pillai, Venko Filipce, Mario Ammirati
3:15 - 3:25 pm

#219
Endoscopic Transsphenoidal Approach for Removal of Tumors of the Pituitary: Indications and Complications
James K Fortson (Presenter), Paul King
3:25 - 3:35 pm

#231
Invasive Pituitary Adenoma, Personal
Ibrahim Sbeih (Presenter)
3:35 - 3:45 pm

Session C

#023
Long Term Follow-up of Microvascular Decompression in the Treatment of Trigeminal Neuralgia
Vivian A Elwell (Presenter), Nigel D Mendoza, Robin Dillingworth
2:15 - 2:25 pm

#196
Microvascular Decompression for Hemifacial Spasm and Trigeminal Neuralgia: Lessons Learned after 1,000 Operations
Kwan Park (Presenter)
2:25 - 2:35 pm

#166
Surgical Treatment of Trigeminal Neuralgia in Bulgaria: Status Quo?
Christo St. Rangelov (Presenter)
2:35 - 2:45 pm

#074
Surgical Strategy and Results for 54 Cases of Trigeminal Schwannoma
Raita Fukaya, Kazunari Yoshida, Takeshi Kawase (Presenter)
2:45 - 2:55 pm

#135
Surgery for Trigeminal Schwannomas: A Success Story of Skull Base
Suresh, Ravi Mohan Rao, Girish Menon, Mathew Abraham, Easwer Harihar, Krishnakumar, Biji Bahuleyan (Presenter)
2:55 - 3:05 pm

#024
The Tumors Originated from Meckel's Cave
Jun Muto (Presenter)
3:05 - 3:15 pm
#085
Posterior Fossa Epidermoid Cysts: Complications after Uncomplicated Surgery
Scott A Rutherford (Presenter), Stephen P MacNally, Shakeel R Saeed, Richard T Ramsden, Andrew T. King
3:15 - 3:25 pm

#129
Surgical Experience with Skull Base Chordomas/Chondrosarcomas
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon, Mathew Abraham, Easwer Harihar
3:25 - 3:35 pm

#195
Percutaneous Approach to the Skull Base: Complication Avoidance and Management
Siviero Agazzi (Presenter), Mitchell D Drucker, Ashraf S Youssef, Harry R van Loveren
3:35 - 3:45 pm
3:45 - 4:15 pm Break
4:15 - 5:45 pm Scientific Paper Session

Session A
Regency A

#204
Skull Base Injury and Closed Head Injury Increase Poor Outcome in Fractures of the C2 Vertebra: A Trauma Data Base Registry Analysis
Prashant Chittilboina (Presenter), Prasad Vannemreddy, Patsy Warren, Cuthbert Simpkins, Anil Nanda
4:15 - 4:25 pm

#209
Skull Base Communicating Tumor Surgery: Surgical Approach and Reconstruction
Shengde Bao (Presenter), Dapeng Mo, Zhiqiang Yi, Liang Li, Jiayong Zhang, Shuifang Xiao, Jianguo Zhang, Guangyan Yu
4:25 - 4:35 pm

#186
Extradural Transcavernous Approach to Cavernous Sinus Hemangiomas: Series of Ten Cases and Review
Ashish Suri (Presenter)
4:35 - 4:45 pm

#005
Imaging Findings of Rhinocerebral Mucormycosis
Diego A Herrera (Presenter), Arthur B Dublin, Eleanor Ormsby, Shervin Aminpour, Lydia P Howell
4:45 - 4:55 pm

#047
The Skull Base Surgery and the Venous Problems
Jan Hemza (Presenter), František Maršík, Jakub Otáhal, Stanislav Otáhal
4:55 - 5:05 pm

#066
Intracranial Management of Giant Mucoceles of the Frontal Sinus.
Alfredo Vega Alarcon (Presenter), Juan Luis Gomez Amador, Marite Palma Diaz, Carlo Pane Pianese
5:05 - 5:15 pm

#077
Incidence of Endoscopic Sinus Surgery for Rhinosinusitis after Treatment of Anterior Skull Base Malignancies
Stacey T Gray (Presenter), William T Curry, Derrick T Lin
5:15 - 5:25 pm

#198
Transpalpebral Modification of the Suprachallicary Craniotomy
Khalid Aziz (Presenter), Erik M Happ, Sanjay Bhatia
5:25 - 5:35 pm

Session B
Regency E/F

#199
A Novel Modification of the Island Palatal Flap based on Radiologic and Cadaveric Investigations Which Allows for Pedicled Reconstruction of the Skull Base
Christopher L Oliver (Presenter), Trevor G Hackman, Ricardo L Carrau
4:15 - 4:25 pm

#156
Initial Experience with Endoscopic Reconstruction Using the Pedicled Nasal Septal Flap
Ivan H El-Soyed (Presenter), Andrew N Goldberg, Fredrick C Roediger, Andrew T Parsa, Michael M. McDermott
4:25 - 4:35 pm

#106
Nasoseptal Flap Takedown and Reuse in Endoscopic Skull Base Reconstruction
Adam M Zanation (Presenter), Carl H Snyderman, Ricardo Carrau, Paul Gardner, Daniel Prevedello, Amin Kassam
4:35 - 4:45 pm

#109
Prospective Evaluation of the Nasoseptal Flap for Endoscopic Reconstruction of High Flow Intraoperative CSF Leaks During Endoscopic Skull Base Surgery
Adam Zanation (Presenter), Carl Snyderman, Ricardo Carrau, Paul Gardner, Daniel Prevedello, Amin Kassam
4:45 - 4:55 pm
#052 Evolution of Extended Anterior Skull Base Reconstruction
Ameet S Singh (Presenter), Vijay K Anand, Abtin Tabaei, Seth M Brown, Theodore H Schwartz
4:55 - 5:05 pm

#163 Middle Turbinectomy Preservation in Endoscopic Transsphenoidal Surgery of the Anterior Skull Base
Seth M Brown (Presenter), Abtin Tabaei, Vijay K Anand, Ameet Singh, Theodore H Schwartz
5:05 - 5:15 pm

#101 Middle Turbinectomy: Is It Necessary?
Bharat Guthikonda (Presenter)
5:15 - 5:25 pm

#149 Sellar Floor Reconstruction with Concha Bullosa Autograft and Nasal Septal Flap
Andrew J Fabiano (Presenter), Nestor R Riguad, Robert A Fenstermaker
5:25 - 5:35 pm

#171 Presentation and Endoscopic Treatment of Cholesterol Granulomas in the Sellar and Suprasellar Regions: A Case Report
Stavropoulou I Tjoumakaris (Presenter), Shiveindra B Jeyamohan, Mark R Rosen, James J Evans
5:35 - 5:45 pm

Session C

#090 Intraorbital Tumor Procedures – The Use of Cryosurgery
Franz Marhold (Presenter), Bita Pakrah-Bodbingauer, Walter Saringer, Wolfgang Hauff, Christian Matula
4:45 - 4:55 pm

#118 Temporal Craniotomy for Surgical Access to the Infratemporal Fossa
Steven W Hwang (Presenter), Jason Rahal, Carl B Heilman
4:55 - 5:05 pm

#123 Development of Virtual Navigation in Skull Base Surgery
Eiji Ito (Presenter), Kiyoshi Saito, Tetsuya Nagatani, Masumi Fujii, Shigenori Takebayashi, Jun Yoshida, Kensaku Mori, Yuichiros Hayashi
5:05 - 5:15 pm

#137 Frontotemporal / Subtemporal Interdural Approach to Middle Fossa – Posterior
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon
5:15 - 5:25 pm

#145 Approaches to the Foramen Magnum
Jose A Landeiro (Presenter), Carlos H Ribeiro
5:25 - 5:35 pm

#226 Modified Occipital Transtentorial Approach to Pineal Region
Sin-Soo Jeun (Presenter), Wan-Soo Yoon, Kwan-Sung Lee, Yong-Kil Hong
5:35 - 5:45 pm

Evening program: WFSBS Welcome Reception Regency A/B/C
Wine and cheese in the Exhibit Hall

Friday September 12th

7:00 - 8:00 am Breakfast Seminars

Reconstruction of the Skull Base Following Surgery Plaza A
Dan Fliss (Moderator), Peter Neligan, J. Bederson and G. Cantu

Cranio-Cervical Pathology and Cranio-Cervical Fixation Plaza B
Ricardo Hanel (Moderator), Hiroshi Nakagawa, Atul Goel and Martin Sames

Endoscopic Management of CSF Leaks Plaza C
Paul Gardner (Moderator) Amir Dehdashti, Charles-rosen and Pete Batra

Molecular Biology for Skull Base Surgeons Georgia A
Andy Parsa and Bradley Welling
Management Decisions for Complex Skull Base Aneurysms
Georgina B
Aaron Dumont (Moderator), Giuseppe Lanzino, Ketan Bulsara and Paolo Ferroli

8:00 - 8:15 am Break with Exhibitors
8:15 - 10:00 am Plenary Sessions

Vascular Lesions of the Skull Base
Regency D
Moderators: J. Bederson and Mario Zuccarello
• How to Handle Vertebral and Basilar Artery Involvement in Posterior Fossa Tumors – Giuseppe Lanzino
• Endovascular Treatments for Vascular Skull Base Tumors and Giant Aneurysms – Giuseppe Lanzino
• Extracranial to Intracranial Bypass in Skull Base Surgery – Saleem Abdulrauf
• Direct Surgical Clipping of Giant Skull Base Aneurysms – Renato Galzio

Anterior Cranial Base Malignancies
Regency E/F
Moderators: Dennis Kraus and Kiyoshi Saito
• Anterior Cranial Base Malignancy: Indications for Craniofacial Resection and QOL Indicators – Jatin Shah
• Outcomes of Craniofacial Resection for Malignancy: Does the End Justify the Means? – Fernando Dias
• Endonasal Endoscopic Approach for Anterior and Central Skull Base Malignancies – Indications and Limits – Wolfgang Draf
• Contemporary Management of CSF Leaks and Encephaloceles of the ACB – Vijay Anand

10:00 - 10:30 am Break with Exhibitors
New and Innovative Products by Industry presentations
10:30 - 10:50 am
NASBS Presidential Address – Franco DeMonte
Regency D/E/F
10:50 - 11:05 am Honored Guests Presentation: Laligam Sekhar (Presenting Professors Derald Brackmann and Madjid Samii.)
11:05 - 12:00 pm
Invited Honored Guest Lecture:

Sixty Years of Acoustic Surgery
Derald Brackmann, and Madjid Samii
Regency D/E/F
12:00 - 1:00 pm Lunch in Exhibit Hall
1:00 - 2:00 pm Special Topic Session

Session A
Regency D

Meningiomas
Moderators: Lee Kyu-Sung and Imad Kanaan
Topics: Medial Sphenoid Wing Meningiomas: Technical Nuances, Jong Lee; Meningiomas of the Cavernous Sinus: Decision Making Process, Sergey Spector; Meningiomas of the Cranio-cervical Junction, Jose Alberto Landeiro; Evolution of Skull Base Meningioma Treatment Over the Past 3 Decades, Prof. Giombini

Session B
Regency E/F

Endoscopic Skull Base Surgery
Moderators: Paul Gardner and Marc Schwartz
Topics: Endoscopic Surgery in the Pediatric Population, Ken Kazahaya; Endoscopic Sinus Surgery, Derrick T. Lin; Evolving Technologies for Endoscopic Equipment, Ted Schwartz; Endoscopic Resection of Clival Based Lesions, James Chandler
2:15 - 3:45 pm Scientific Paper Session

Session A
Regency D

#139
Craniofacial Resection for Malignant Tumors: Are Complication Trends Changing?
Ziv Gil (Presenter), Snehal G Patel, Mark Bilsky, Jatin P Shah, Dennis H Kraus
2:15 - 2:25 pm

#183
Sinonasal Adenocarcinoma. The M.D. Anderson Cancer Center Experience
Alex D Sweeney (Presenter), Gabriel G Calzada, Ehab Y Hanna
2:25 - 2:35 pm

#043
Posterior Atlantoaxial Fixation: Can We Improve the Success and Reduce Failure?
Marco Marchioni (Presenter), Anthony Ghosh, M. Sam Eljamel
2:35 - 2:45 pm

#009
Reconstruction Deep Invasion of Scalp Carcinoma Using Skull Base Techniques
Paul J Donald (Presenter), Donald G Farwell, Danny Enepekides, James Boggan, Arthur Dublin, Richard Bennett
2:45 - 2:55 pm

#027
Cavernous Sinus Resection for Skull Base Malignancies
Paul J Donald (Presenter), Donald G Farwell, Danny Enepekides, James E Boggan, Arthur Dublin
2:55 - 3:05 pm

#039
Anterior Craniofacial Resection for Malignant Tumors of the Paranasal Sinuses: A Series of 382 Patients
Stefano Riccio (Presenter), Sarah Colombo, Giulio Cantù
3:05 - 3:15 pm

#053
Craniofacial Approach to Skull Base Lesions
Seiji Kishimoto (Presenter), Atsunobu Tsunoda
3:15 - 3:25 pm
#060
A Systematic Review: The Clinical Presentation, Association with Malignancy, and Management of Sphenoid Sinus Inverted Papilloma
Jennifer P Guillemaud (Presenter), Ian J Witterick
3:25 - 3:35 pm

#087
Craniofacial Resections
Torstein R Meling (Presenter), Beate Kragerud, Terje Osnes
3:35 - 3:45 pm

Session B
Regency E/F

#115
A Direct Corridor to the Clivus: The Expanded Endonasal Approach. A Review of the Transclival Module in Endoscopic Skull Base Surgery
Ricky Madhok (Presenter), Daniel Prevedello, Paul Gardner, Ricardo Carrau, Carl Snyderman, Amin Kassam
2:15 - 2:25 pm

#080
Endoscopic Endonasal Approach for Resection of Chordoma
Amin B Kassam (Presenter), Paul A Gardner, Carl Snyderman, Ricardo Carrau, Daniel Prevedello, Martina Stippler
2:25 - 3:35 pm

#221
Endoscopic Transphenoidal Surgery of Chordoma
Zhang Yazhuo (Presenter), Zhongcheng Wang, De-an Zhao, Yimin Zhou, Shiyuan Zhang, Xuyi Zong, Peng Zhao
3:35 - 3:45 pm

#081
Endonasal Surgery of the Upper Cervical Spine: A Morphometric Analysis
Harinder Singh (Presenter), Bartosz Grobelny, Adam Flanders, Marc Rosen, Schiffmacher Paul, James Evans
2:45 - 2:55 pm

#164
Defining the Nasopalatine Line: Anatomic Limitations for Endoscopic Endonasal Surgery of the Odontoid Process and Upper Cervical Spine
John R de Almeida (Presenter), Adam M Zanation, Ricardo L Carrau, Amin B Kassam, Carl H Snyderman
2:55 - 3:05 pm

#111
Endoscopic Anatomy of the Petrous and Parasellar Carotid Artery
Lee A Zimmer (Presenter), Philip V Theodosopoulos
3:05 - 3:15 pm

#161
Surgical Treatment of the Cranio cervical Junction Tumors
Martin Sames (Presenter), Petr Yachta, Robert Bartos, Tomas Radovnicky
3:15 - 3:25 pm

#173
Endoscopic Transcervical Ventral Decompression of Cranio cervical Deformities
Jean-Paul Wolinsky (Presenter), Gokaslan L Ziya, Matthew J McGirt
3:25 - 3:35 pm

#114
A Look Beyond the Sella: The Expanded Endonasal Approach and a Systematic Arrangement of the Coronal Plane in Skull Base Surgery
Ricky Madhok (Presenter), Daniel Prevedello, Paul Gardner, Carl Snyderman, Ricardo Carrau, Amin Kassam
3:35 - 3:45 pm

Session C
Georgia A

#125
Petrolival-Premeatal Meningiomas: Are Skull Base Approaches Mandatory?
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon
2:15 - 2:25 pm

#126
Anterior Transpetrosal Approach to Petroclival Meningiomas
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon
2:25 - 2:35 pm

#105
Surgery for Petroclival Meningiomas: A Comprehensive Review of Outcomes in the Skull Base Surgery Era
Michael L. DiLuna (Presenter), Ketan R. Bulsara
2:35 - 2:45 pm

#032
Perioperative Differences between Large Acoustic Neuromas and Cerebellopontine Angle Meningiomas
Suresh Nair (Presenter), Biji Bahuleyan, Girish Menon, Gopalakrishnan, Dilip Mohan, Ravin Mohan Rao, Easwar Harihar, Krishnakumar, Mathew Abraham
2:45 - 2:55 pm

#015
Petroclival Meningiomas: Clinical Characteristics and Surgical Results
Shunsuke Terasaka (Presenter), Yutaka Sawamura, Yoshinobu Iwasaki
2:55 - 3:05 pm
#016 Petroclival Meningiomas of Various Origins: Differences in Symptoms and Operative Findings
Shinya Ichimura (Presenter), Takeshi Kawase, Satoshi Onozuka, kazunari Yoshida, Takayuki Ohira
3:05 - 3:15 pm

#134 Foramen Magnum Meningioma
Suresh Nair (Presenter), Mathew Abraham, Ravi Mohan Rao, Girish Menon, rishnakumar, Easwer Harihar
3:15 - 3:25 pm

#058 Importance of Epidural Microsurgical Working in Surgery for Medial Sphenoid Wing Meningiomas
Yutaka Mine (Presenter), Kazunari Yoshida, Takeshi Kawase
3:25 - 3:35 pm

#069 Surgical Tips for Medial Sphenoid Wing Meningioma
Eiji Kohmura (Presenter)
3:35 - 3:45 pm

Session D

#035 Microsurgical Anatomy of the Posterior Spinal Artery
Andrew M Bauer (Presenter), Ozkan Ates, Hakan Seckin, Mustafa K Baskaya
2:15 - 2:25 pm

#062 Evaluation of Optic Strut Location and Orientation: An Anatomic Morphometric Study and a Proposed Classification Schema
Robert G Kerr (Presenter), William Tobler Jr, Hasan Kocaeli, Philip V Theodosopoulos, Mario Zuccarello, Jeffrey T Keller
2:25 - 2:35 pm

#073 Comparison of the Traditional Posterior Petrosal with a Selective Posterior Petrosal Technique for Access to Petroclival Lesions: A Cadaveric Study
Robert Kerr (Presenter), Matt Hearst, John Tew Jr., Jeffrey Keller, Myles Penzak, Philip Theodosopoulos
2:35 - 2:45 pm

#099 Effect of Adding Posterolateral Orbitotomy to Pterional Craniotomy: An Anatomic Study
Benjamin Brown (Presenter), Rishi Wadhwa, Bharat Guthikonda, Anil Nanda
2:55 - 3:05 pm

#104 Analytical Evaluation of Pericavernous and Transcavernous Surgical Avenues to the Basilar Apex Region: A Cadaveric Study
Carlo Alberto Benech (Presenter), Antonio Bernardo, Philip E Stieg
3:05 - 3:15 pm

#130 Quantitative Analysis of Surgical Exposure and Angle of Surgical Freedom Obtained by Endoscope and Microscope in the Retrosigmoid and Various Posterior Petrosecomy Approaches to the Petroclival Region Using CT-Based Frameless Stereotaxy
Kazuhiko Kurozumi (Presenter), Promod Pillai, Venko Filipce, Matt Pigiot, E Antonio Chiocca, Mario Ammirati
3:15 - 3:25 pm

#147 Quantitative Analysis of Surgical Exposure and Angle of Surgical Freedom Obtained by Endoscope and Microscope in Various Approaches to the Anterior Communicating Artery Complex Using CT-Based Frameless Stereotaxy
Venko Filipce (Presenter), Promod Pillai, Orphée Makiese, Kazuhiko Kurozumi, Matt Pigott, Mario Ammirati
3:25 - 3:35 pm

#194 Image-Guided Comparative Morphometric Study of the Supraorbital, Transorbital, and Pterional Approaches to the Sellar and Perisellar Regions
Norberto Andaluz (Presenter), Federica Beretta, Chiraz Chaalala, Claudio Bernucci, Leo Salud, Mario Zuccarello
3:35 - 3:45 pm

3:45 - 4:15 pm Break with Exhibitors
4:15 - 5:45 pm Scientific Poster Session

Session A

#182 Proton Therapy of Paranasal Sinus Tumors: The UFPTI Experience
Robert S. Malyapa (Presenter), William M. Mendenhall, Daniel Yeung, Zuofeng Li, Craig McKenzie, Donald Lanza, Nancy P. Mendenhall
4:15 - 4:25 pm
#48
Radiosurgery of Malignant Tumors of the Skull Base
Nicholas D Coppa (Presenter), Daniel M Raper, Brian T Collins, K. William Harter, Gregory J Gagnon, Sean P Collins, Walter C Jean
4:25 - 4:35 pm

#061
Investigations for Estimating Angiogenesis and Clinical Aggressiveness of Adenomatous Neoplasias of the Temporal Bone
Hans J Weikoborsky (Presenter), Petra Vogt, Helmut Ostertag
4:35 - 4:45 pm

#072
Retrospective Study of Complications in Radical Surgery for Malignant Skull Base Tumors
Hidehito Kimura (Presenter), Eiji Kohmura, Ken-ichi Nibu, Yoshio Sakagami, Haruhiko Ishida, Shinya Tahara
4:45 - 4:55 pm

#076
The Evolution of Craniofacial Resection over the Last Three Decades
G. Alusi (Presenter), Tony Cheesman, David Howard, Valerie Lund, William Wei
4:55 - 5:05 pm

#092
Results of Proton Beam Radiotherapy for Locally Advanced Squamous Cell Carcinoma of the Paranasal Sinus
Minh T Truong (Presenter), Derrick T Lin, William T Curry, Urmila R Kamat, Annie W Chan
5:05 - 5:15 pm

#098
Surgery for Skull Base Malignancies—Preoperative Work-Up to Minimize Complications
Andrew T King (Presenter), Stephen P MacNally, Jarrod Homer, Richard T Ramsden, Shakeel R Saeed, Richard Morgan, Sheila Basu, Scott A Rutherford
5:15 - 5:25 pm

#103
Surgical Outcome of Invasive Anterior Skull Base Tumors
Kuniki Eguchi (Presenter), Takaharu Tatsukawa, Satoshi Yamaguchi, Eiichiro Sakoda, Masaaki Takeda, Prabin Shrestha, Tsuyoshi Okubo, Katsuhiro Hirakawa, Kaoru Kurisu
5:25 - 5:35 pm

#110
Proton Beam Therapy for Unresectable Adenoid Cystic Carcinoma of the Skull Base
Annie W Chan (Presenter), Paul M Busse, Urmila R Kamat, Derrick T Lin, Norbert B Liebsch
5:35 - 5:45 pm

Session B

#162
Expanded Endoscopic Endonasal Approach for Esthesioneuroblastomas: The Toronto Western Hospital Experience
Amir R. Dehdashti (Presenter), Giorgio Carrabba, Allan Vescon, Ian Witterick, Fred Gentili
4:15 - 4:25 pm

#142
Minimally Invasive Endoscopic Resection of Anterior Skull Base Tumors: Surgical Correlates and Patient Outcomes
Pete S Batra (Presenter), Amber Luong, Seth J Kanowitz, Burak Sade, Donald C Lanza, Martin J Citardi
4:25 - 4:35 pm

#143
Endoscopic Management of Paranasal Sinus Mucoceles with Skull Base and/or Orbital Erosion
Pete S Batra (Presenter), Nathan B Sautter, Julian Perry, Martin J Citardi
4:35 - 4:45 pm

#169
Endoscopic Anterior Maxillotomy Approach to the Infratemporal Fossa
Ivan H El-Sayed (Presenter), Andrew T Parsa, Michael M McDermott
4:45 - 4:55 pm

#208
Transnasal Endoscopic Image-Guided Orbital Apex Surgery
Chester F. Griffiths (Presenter), Howard R Krauss
4:55 - 5:05 pm

#122
Endoscopic Endonasal Transpterygoid Nasopharyngectomy
Adam M Zanation (Presenter), Salma Al-Sheibany, Ricardo Carrau, Carl Snyderman, Paul Gardner, Daniel Prevedello, Amin Kassam
5:05 - 5:15 pm

#197
Endoscopic CT-Guided Nasopharyngectomy for Recurrent Nasopharyngeal Carcinoma
Peter D Costantino (Presenter), David H Hiltzik, Rohith Saravanan
5:15 - 5:25 pm

#193
Comparison of Endoscopic versus Open Resection of Skull Base/Sinonasal Mucous Membrane Melanoma
5:25 - 5:35 pm
Clinical Outcomes of Sinonasal Cancers Treated with Endoscopic Endonasal Resection
Adam M Zanation (Presenter), Carl Snyderman, Ricardo Carrau, Paul Gardner, Daniel Prevedello, Amin Kassam
5:35 - 5:45 pm

Session C

Operative Complications of Incidental Meningiomas
Burak Sade (Presenter), Joung H Lee
4:15 - 4:25 pm

Operative Outcome of Intracranial Meningiomas: The Impact of a Learning Curve
Joung H Lee (Presenter), Burak Sade
4:25 - 4:35 pm

Surgery for the Apically Located Orbital Lesion
Yoshihiro Natori (Presenter)
4:35 - 4:45 pm

Meningiomas Involving the Orbit: Surgical Technique and a Series of 17 Patients Operated between 2004 and 2007
Nevo Margalit (Presenter), Erez Nossek, Dan Fliss
4:45 - 4:55 pm

Outcome of Ophthalmoplegia for Patients with Cavernous Sinus Tumor Resection
Junting Zhang (Presenter), Zhen Wu, Liwei Zhang, Guijun Jia, Jie Tang, Liang Wang, Xinru Xiao
4:55 - 5:05 pm

Frontobasal Interhemispheric Approach for Tuberculum Sellae Meningiomas
Amir R. Dehdaashti (Presenter), Ahmed Ganna, Fred Gentili
5:05 - 5:15 pm

Posterior Cavernous Anterior Transpetrosal Posteromedial Rhomboid (Dolenc-Kawase Rhomboid) Approach to Posterior Cavernous and Petroclival Lesions
Ashish Suri (Presenter)
5:15 - 5:25 pm

Predictors of Surgical Outcome in Anterior Skull Base Meningiomas
Nabil Mansour (Presenter), Mohammed Mansour, Hatem Badr, Ashraf Abdelmonem
5:25 - 5:35 pm

Management of Large Clinoidal Meningiomas
Sergey Spektor (Presenter), Yigal Shoshan, Felix Umansky
5:35 - 5:45 pm

Session D

Three-Dimensional Model for Virtual Surgical Simulation, during Complex Skull Base Surgery and Aneurysm Surgery
Akio Morita (Presenter), Toshikazu Kimura, Shigeo Sora, Kengo Nishimura, Hisayuki Sugiyama, Hidenori Ono
4:15 - 4:25 pm

High-Grade Intracranial Dural Arteriovenous Fistulas at the Skull Base: A 14-Year Experience
James K. Liu (Presenter)
4:25 - 4:35 pm

Transclinoidal Exposure of the Basilar Artery: Dural Tailoring Technique
A Samy Youssif (Presenter), Siviero Agazzi, Harry van Loveren
4:35 - 4:45 pm

Craniotomy and Clipping of Intracranial Aneurysm in a Stereoscopic Virtual Reality Environment: Technical Note and Illustrations
George Wong (Presenter)
4:45 - 4:55 pm

PICA Aneurysms: Operative Outcome
Suresh Nair (Presenter), Girish Menon, Ravi Mohan Rao, Gopalakrishnan, Easwer Harihar, Krishnakumar
4:55 - 5:05 pm

Surgical Outcome of Ophthalmic Segment Aneurysms
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon, Krishna Kumar, Mathew Abraham, Easwer Harihar, Biji Bahuleyan
5:05 - 5:15 pm

Hydrocephalus and Posterior Circulation Aneurysms: Predisposing Factors and Prognostic Value in Operative Management Prasad SSV V annemreddy
Anil Nanda (Presenter)
5:15 - 5:25 pm
Progressive Occlusive Cerebral Vasculopathy
(Moyamoya Disease)
Tomas Hrbac (Presenter), Václav Procházka
5:25 - 5:35 pm

Microvascular Decompression for Superior Oblique Myokymia: Case Report and Review of the Literature
Katsuaki Asaoka (Presenter), Shunsuke Terasaka, Yasuo Suzuki
5:35 - 5:45 pm

Evening on your own. Enjoy Vancouver!

Advanced Practice Nurses and PAs Course
1:00 - 5:00 pm
Coordinator: Allison Coury RN, MSN, MBA, FNPBC
- Temporal Bone: Anatomy, Pathology and Surgical Approaches – Paul Gidley
- Foraminal Anatomy of the Skull Base (Osseous and Cranial Nerve Anatomy) – Nicholas Levine
- Endoscopic Anatomy and Resection of Sino-nasal/Skull Base Tumors – Ehab Hanna
- Reconstruction of the Skull Base – Matthew Hanasono
- Vascular Anatomy, Surgical Approaches and Special Considerations – Saleen Abdulrauf
- Intraoperative Monitoring: CNAP/ABR and Lower Cranial Nerve Monitoring, Facial, MEP and SSEP Monitoring by Ryojo Akagami

Saturday September 13th

7:00 - 8:00 am Breakfast Seminars

Decision Making for Patients with Pituitary Tumors
Dan Fefer (Moderator), Imad Kanaan, M. Guthikonda and Khalid Aziz

Robotics and Technological Innovations in Skull Base Surgery
Michael Schuler (Moderator), Ehab Hanna, M. Eljamel and Tomokatsu Hori

Foramen Magnum Tumors
Kadir Erkman (Moderator), Tomio Sasaki, Pablo Ajler and Ashish Suri

How to Decide when ICA Sacrifice should be Considered for Skull Base Tumors and Vascular Lesions
Pat Han (Moderator), Aaron Dumont, Louis Kim

Tumor Board: Skull Base Malignancies
Dennis Kraus (Moderator), Fernando Dias and Kiyoshi Saito

8:00 - 8:15 am Break with Exhibitors
8:15 - 10:00 am Plenary Sessions

Sellar/Suprasellar Tumors
Moderators: Tom Oriitano and Prof. Calbucci
- Role of Endoscopic Surgery for Pituitary Tumors –
- The Extended Trans-Sphenoidal Approach – M. Ammirati
- Giant Pituitary Tumors: Surgical Management Strategies – Atul Goel
- Extent of Resection of Large suprasellar Tumors: How to Decide –

Paragangliomas
Moderators: Fred Gentili and Eiji Kohmura
- Jugular Surgery: Otology Perspective – Derald Brackman
- Jugular Surgery: Neurosurgery Perspective – Laligham Sekhar
- Radiation Therapy for Glomus Tumors – Jason Sheehan
- Embolization of Glomus Tumors – Dan Fliss

10:00 - 10:45 am Break with Exhibitors
10:45 - 11:00 am Honored Guests Presentation: Franco DeMonte (Presenting Professors Charles Drake and John Leonetti.)
11:00 am - 12:00 pm Invited Special Lecture: Radiology of the Skull Base – Hugh Curtin
12:00 - 1:00 pm Lunch with General Assembly of the World Federation Skull Base Society
1:00 - 2:00 pm Special Topic Session

Session A

“How I Do It”: Acoustic Tumor Surgery
Panel: Keki Turel, H. J. Welkoborsky and Stefano Riccio

Session B

“Meet the Experts” Special Session
Topics: The Use of Endoscopy in Cerebral Aneurysm Surgery, Renato Galizio; The Separation of Cranioptagus (Conjoined Twins), Ahmed Al-Ferayni; The Young Patient with a 5mm Acoustic Tumor: What I Would Recommend, Jens Thomsen; The Combination of Endoscopy and Microsurgery in Skull Base Surgery, Axel Perneczky

2:15 - 3:45 pm Scientific Paper Session

Session A

#153
Polyethylene Methacrylate Cranioplasty in Lateral and Posterior Lateral Skull Base Approaches – Long Term Results of 107 Cases
Petr Vachata (Presenter), Martin Sames
2:25 - 2:33 pm

#170
Orbital Reconstruction with Implant Retained Prosthesis
Stephen B Lewis (Presenter), Emma L Lewis, Stephanie L Reeder, Robert Mann, John Werning
2:35 - 2:45 pm
#176
Vascularised Mastoid Bone Flap Cranioplasty After Trans-labyrinthine Vestibular Schwannoma Surgery
Heng-Wai Yuen (Presenter), Joseph M. Chen
2:45 - 2:55 pm

#178
Rapid Prototype Modelling for Maxillofacial and Skull Base Reconstruction Prostheses
Moderator: Matthew Hanasono, MD, Stephen B Lewis (Presenter), David Peace, Emma L Lewis, John Werning, Didier A Rajon, Frank J Bova
2:55 - 3:05 pm

#007
Tisseel Fibrin Glue Improves Degree of Graft Take and Biomechanical Strength of CSF Leak Repairs: A New Porcine Anterior Skull Base Model
John R de Almeida (Presenter), Khemel Ghotme, Iona Leong, James Drake, Adrian L James, Ian J Witterick
3:05 - 3:15 pm

#014
Treatment for Postoperative Intracranial Infection after Duraplasty with Expanded Polytetrafluoroethylene Sheet
Nobutaka Yoshioka (Presenter), Yoshiko Tominaga
3:15 - 3:25 pm

#213
Composite Skull Base Reconstruction using the Anterolateral Thigh Flap
Matthew M Hanasono (Presenter), Roman J Skoracki, Justin M Sacks, Neha Goel, Martina Ayad, Petrong Yu
3:25 - 3:35 pm

#033
Microvascular Free-Tissue Transfer for Facial Reanimation Following Lateral Skull Base Resection
John P Leonetti (Presenter), Sam J Marzo, Chad Zender, Daryl Vandevender, Matthew Kircher
3:35 - 3:45 pm

Session B

#049
Converting a Cranial Base Surgery Program From Traditional to Endoscopic Methods in Pituitary Surgery
Marc A Cohen (Presenter), Gregory G Heuer, Brandon Gabel, M. S. Grady, Bert W O’Malley Jr,
2:15 - 2:25 pm

#095
Extended Endoscopic Transnasal Hypophysectomy
Ghassan H. Alusi (Presenter), Ian Sabin, William M. Drake
2:25 - 2:35 pm

#059
Transnasal Endoscopic Approaches to the Sella Turcica.
Juan Luis Gomez Amador (Presenter), Alfredo Vega Alarcon, Juan Barges Colli, Erasmo Vallesster Gonzalez, Marite Palma Diaz, Javier Avendano Mendez Padilla, Carlo Pane Pianese
2:35 - 2:45 pm

#218
Endoscopic Skull Base Surgery: Complication Avoidance and Management
James P Chandler (Presenter), Robert Kern, David Conolly
2:45 - 2:55 pm

#078
Endoscopic Resection of Solitary Fibrous Tumours of the Nose and Para-nasal Sinuses
Ian J Witterick (Presenter), Arif Janjua
2:55 - 3:05 pm

#160
Endoscopic Skull Base Surgery Program Development at Roswell Park
Andrew J Fabiano (Presenter), Nestor R Rigual, Saurin R Popat, Robert A Fenstermaker
3:05 - 3:15 pm

#088
Feasibility and Outcomes of Concomitant Endoscopic Sinus Surgery and Endonasal Resection of Skull Base Lesions
Christopher R. Grindle (Presenter), James J. Evans, Marc R. Rosen, Leela Lavasani, Peter Seymour
3:15 - 3:25 pm

#089
Endoscopic Transsphenoidal Endonasal Approach for Large Pituitary Adenoma with Suprasellar Extension
Ali M. Ayyad (Presenter), Cleopatra Charalampaki, Jens Conrad, Axel Remczky
3:25 - 3:35 pm

#151
The Learning Curve in Fully Endoscopic Transnasal Transsphenoidal Surgery: A Single Surgeon Experience
Ethan A. Benardete (Presenter)
3:35 - 3:45 pm

Session C

#210
Small Vestibular Schwannomas with No Serviceable Hearing: Microsurgery vs. Stereotactic Radiation
2:15 - 2:25 pm
#192
The Treatment Dilemma of Small Acoustic Neuroma and the Role of Hearing Preservation Surgery
Francesco FB. Biroli (Presenter), Antonio AM Mazzoni, Camillo CF Foresti, Antonio AS Signorelli
2:25 - 2:35 pm

#207
Tumour Control Rate Using LINAC Radiosurgery in the Treatment of Growing Vestibular Schwannomas
Peter A Gooderham (Presenter), Albert Tu, Brian Westerberg, Brian Toyota, Ryojo Akagami
2:45 - 2:55 pm

#034
Prospective Comparison of Quality of Life Before and After Observation, Surgery or Radiotherapy for Vestibular Schwannomas
Salvatore DiMaio (Presenter), Brian D Westerberg, Ryojo Akagami
2:55 - 3:05 pm

#037
Clinical Outcome of Consecutive Surgical Series of 100 Vestibular Schwannomas
Akio Morita (Presenter), Shigero Sora, Toshikazu Kimura, Kengo Nishimura, Chikayuki Ochiai
3:05 - 3:15 pm

#054
Giant Acoustic Neurinomas: A Change of Mind
Sergey Spektor (Presenter), Yigal Shoshan, Felix Umansky
3:15 - 3:25 pm

#212
Impairments, Disabilities, Handicaps and Quality of Life Following Vestibular Schwannoma Management: A Prospective Study
Michael Gleeson (Presenter), Dosh Sandooram, Nicholas Thomas, Neil Kitchen, Beth Grunfeld
3:25 - 3:35 pm

#064
Revision Surgery for Residual or Recurrent Vestibular Schwannoma.
Simon R. Freeman (Presenter), Richard T. Ramsden, Shakeel R. Saeed, Firas Q. Alzoubi, Ricard Simo, Scott A. Rutherford, Andrew T King
3:35 - 3:45 pm

Session D

#113
Standard Procedures for Malignant Skull Base Tumors: From Experience of 150 Patients
Kiyoshi Saito (Presenter), Eiji Tachibana, Takeshi Okada, Eiji Ito, Yasushi Fujimoto, Yuzuru Kamei
2:15 - 2:25 pm

#185
Utility of a Herpes Oncolytic Virus for the Detection of Neural Invasion by Cancer
Ziv Gil, Kaitlyn Kelly (Presenter), Peter Brader, Jatin P Shah, Yuman Fong, Richard J. Wong
2:25 - 2:35 pm

#190
Treatment of Parameningeal Rhabdomyosarcoma at Children.
Bolotin V. Mihail (Presenter), Osipova A. Mary
2:35 - 2:45 pm

#211
Mucocles of the Paranasal Sinuses: a 10 Year Single Institution Review
Mahdi A. Shkoukani (Presenter), Lucio Pereira, Michael Carron, Adam Folbe, Robert H. Mathog
2:45 - 2:55 pm

#165
Spot Scanning Based Proton Radiotherapy for Paraspinal and Skull Base Chordomas and Chondrosarcomas: Presentation of the Next-Generation Proton Delivery System and 5-year Clinical Data from the First Spot Scanning-based Proton Facility.
Eugen B. Hug (Presenter), Antony J. Lomax, Carmen Ares, Hans Peter Rutz, Beate Timmermann, Gudrun Goitein
2:55 - 3:05 pm

#004
Visual Recovery Following Optic Nerve Decompression for Chronic Compressive Neuropathy
Emad F. Shenouda (Presenter), Diederik Bulters, N V. Mathad, Barrie T. Evans, Dorothy A. Lang
3:05 - 3:15 pm

#230
Treatment of Malignant Tumors of the Skull Base with Multi-Session Radiosurgery
Dan Raper (Presenter)
3:15 - 3:25 pm

#232
Suprasellar Meningiomas, Personal Experience in 37 Cases
Ibrahim Sbeih (Presenter)
3:25 - 3:35 pm

#233
Petrolival Meningiomas, Personal Experience
Ibrahim Sbeih (Presenter)
3:35 - 3:45 pm

3:45 - 4:15 pm Break
4:15 - 5:45 pm Scientific Paper Session

Georgia B
Session A

#002 Treatment Options for Patients with Longstanding Facial Paralysis
John P Leonetti (Presenter), Sam J Marzo, Karen Fahey, Ryan Porter, Lisa Burkman
4:15 - 4:25 pm

#082 Delayed Extrusion of Hydroxyapatite Cement after Transpetrosal Reconstruction
Robert G Kerr (Presenter), Matt Hearst, Ravi Samy, Harry van Loveren, John M Tew Jr, Myles Pennazak, Philip V Theodosopoulos
4:25 - 4:35 pm

#071 Oculomotor Synkinesis with Skull Base Tumors and Surgery – Frequency and Treatment Strategies
Eric D Weber (Presenter), Steven A Newman
4:35 - 4:45 pm

#215 Facial to Hypoglossal Nerve Anastomosis with Parotid Release
J. Thomas Roland, Jr. (Presenter), Joel Jacobson, Jordon Rihon
4:45 - 4:55 pm

#228 Customized Polyethylene Implant for the Reconstruction of the Orbital Roof and Lateral Orbital Wall in Orbito-zygomatic Craniotomies
Benedicto C. Baronia (Presenter), Peter Basta, Raoul Olivera, Saleem I. Abdulrauf
4:55 - 5:05 pm

#063 The Auditory Brainstem Implant in Neurofibromatosis type 2: Experience from the Manchester Programme
Simon R. Freeman (Presenter), Richard T. Ramsden, Shakeel R. Saeed, Martin O’Driscoll, Deborah Mawman, Scott Rutherford, Andrew King, Michel Neef
5:05 - 5:15 pm

#225 The Anterior Hinge and Posterior Hinge Techniques for Mobilising the Intratemporal Facial Nerve
Patrick R. Axon (Presenter)
5:15 - 5:25 pm

#220 Intraoperative Monitoring of the Cochlear Nerve During Vestibular Schwannoma Surgery
Anand V. Kasbekar (Presenter), YuChuen Tam, Simon Lloyd, Robert Macfarlane, David Baguley, David A. Moffat, Patrick R Axon
5:25 - 5:35 pm

Session B

#022 Spontaneous Regression of Contralateral Vestibular Schwannomas after Resection of an Ipsilateral Tumor in Neurofibromatosis Type II.
Kajetan L von Eckardstein (Presenter), Charles W Beatty, Colir LW Driscoll, Michael J Link
5:35 - 5:45 pm

#112 The Endoscopic Endonasal Approach as the Focus of a Multicorridor Operative Strategy for Skull Base Meningiomas: Experience from 100 Cases
Nestor Tomyycz (Presenter), Daniel Prevedello, Paul Gardner, Adam Zahar, Carl Snyderman, Ricardo Carrau, S. Tonya Stefko, Amin Kassam
4:15 - 4:25 pm

#116 Expanded Endonasal Approaches in Skull Base Surgery – A Review of the Transcribiform Module in 112 Patients
Ricky Madhok (Presenter), Paul Gardner, Daniel Prevedello, Carl Snyderman, Amin Kassam, Ricardo Carrau
4:25 - 4:35 pm

Ricky Madhok (Presenter), Daniel Prevedello, Paul Gardner, Carl Snyderman, Ricardo Carrau, Amin Kassam
4:35 - 4:45 pm

#119 Endoscopic Transcranial Skull Base Surgery
Tadashi Watanabe (Presenter), Kiyoshi Saito, Tetsuya Nagatani, Satoshi Maesawa, Norimoto Nakahara
4:45 - 4:55 pm

#124 Less Invasive Endoscopic and Microscopic Pituitary Surgery
Kaoru Kurisu (Presenter), Atsushi Tominaga, Tetsuhiko Sakoguchi, Yasuyuki Kinoshita, Kazuhiko Sugiyama, Kazunori Arita
4:55 - 5:05 pm

#155 Clinical Utility of Intraoperative Volume CT Scanner for Endoscopic Sinonasal and Skull Base Procedures
Pete S. Batra (Presenter), Seth J. Kanowitz, Martin J. Citardi
5:05 - 5:15 pm

#217 Neuronavigation-guided Endoscopic Decompression of Superior Orbital Fissure Fracture
Kris Hooten (Presenter), Jaime Gasto-Tamarit, Ryan W. Ridley, Leonardo Rangel-Castilla, Raleigh F. Johnson, Hong J. Nauta, Vicente A Resto
5:15 - 5:25 pm
#108
Techniques in Endoscopic Endonasal Transorbital Tumor Surgery
Adam M. Zanation (Presenter), Tonya Stefko, Carl Snyderman, Ricardo Carrau, Paul Gardner, Daniel Prevedello, Amin Kassam
5:25 - 5:35 pm

#121
The Combined Use of CT Based Frameless Stereotaxy and Endoscope for Exposure of IAC and Fundus with Preservation of Integrity of Labyrinth
Promod Pillai (Presenter), Steffen Sammet, Mario Ammirati
5:35 - 5:45 pm

Session C
Georgia A

#065
Vestibular Schwannoma—The Role of Conservative Management
R. Suryanarayanan (Presenter), Richard T. Ramsden, Shokeel R. Saeed, Rohini Aggarwal, Andrew T. King, Scott A. Rutherford, Gareth Evans, James E. Gillespie
4:15 - 4:25 pm

#070
Large or Giant Vestibular Schwannomas - Analysis of Factors Affecting Postoperative Facial Function
Eiji Kohmura (Presenter)
4:25 - 4:35 pm

#084
Regrowth Rate after Resection of Small Vestibular Schwannoma (Koos grade I-III) and Prognostic Factor
Masahito Kobayashi (Presenter), Takayuki Ohira, Kazunari Yoshida, Ryuzo Shiobara, Takeshi Kawase
4:35 - 4:45 pm

#102
Radiosurgery Versus Fractionated Stereotactic Radiotherapy for the Treatment of Vestibular Schwannoma
Annie W. Chan (Presenter), Fred G. Barker, Michael J. McKenna, Urmila R. Kamat, Robert Martuza, Jay S. Loefler
4:45 - 4:55 pm

#127
Large Acoustic Neuromas – Multimodality Therapy
John YK Lee (Presenter), Michael Ruckenstein
4:55 - 5:05 pm

#128
Cystic Vestibular Schwannomas
Suresh Nair (Presenter), Biji Bahuleyan, Gopalakrishnan, Dilip Mohan, Mathew Abraham
5:05 - 5:15 pm

#132
Surgery For Large Vestibular Schwannomas in Developing Countries
Suresh Nair (Presenter), Biji Bahuleyan, Girish Menon, Gopalakrishnan, Dilip Mohan, Ravi Mohan Rao, Easwer Harihar, Krishnakumar, Mathew Abraham
5:15 - 5:25 pm

#141
Vestibular Schwannomas – Challenges of Surgical Salvage after Failed Stereotomography
Eduard Zverina (Presenter), Jan Betka, Martin Chovanec, Jan Klue, Tomas Smilauer, Josef Kraus
5:25 - 5:35 pm

Session D
Georgia B

#008
Gamma Knife Radiosurgery for Glomus Jugulare Tumors
Moziar Azar (Presenter), Farid Kazemi Gazik, Mehrnoush Gorjian
4:15 - 4:25 pm

#133
Surgical Experience With Skull Base Paragangliomas
Suresh Nair (Presenter), Ravi Mohan Rao, Girish Menon, Mathew Abraham, Krishnakumar, Easwer Harihar
4:25 - 4:35 pm

#167
Glomus Jugular Tumor: Experience in our Department of Otolaryngology, Head & Neck and Skull Base Surgery at King Faisal Specialist Hospital
Abdullah Turki Al Otieschan (Presenter), Suresh Velagapudi
4:35 - 4:45 pm

#157
Trans-Arterial Embolization Using Onyx For Unresectable Paragangliomas
Dan M. Fliss (Presenter), Noam Weizman, Oren Cavel, Nevo Margolit, Ziv Gil, Shimon Maimon
4:45 - 4:55 pm

#158
Direct Percutaneous Embolization of Carotid Body Tumors Using Onyx
Hamad Farhat (Presenter), Mohamed Samy Elhamady, Jacques Morcos, Ali Sultan
4:55 - 5:05 pm
Current Management of Head and Neck Cancers
Involving the Skull Base: An Interactive Forum  Georgia A
Dan Nuss (Moderator), Sandeep Samant and Ehab Hanna

Management of Cranioopharyngioma  Georgia B
Ibrahim Sbieh (Moderator), J Landeiro, Asish Suri and Suresh Nair

8:00 - 8:15 am Break
8:15 - 10:00 am Plenary Sessions

Chordomas  Regency D
Moderators: Dan Nuss and Michael Gleeson
• Natural History of Chordomas – Anthony Cheesman
• Technical Aspects and outcomes of Chordoma Surgery – Harry van Loveren
• Endoscopic Resection of Clival Chordomas – Fred Gentili
• From Radiosurgery to Protons: The Role of Radiation in Chordoma Management – Norbert Leibsch

Operative Techniques with the Masters: How to Avoid Complications  Regency E/F
Moderators: Peter Nelligan and Jon Robertson
• Endoscopic Approaches to the Skull Base -
• Craniofacial Approaches - Jatin Shah
• Anterior Petrosectomy - Takeshi Kawase
• Translabyrinthine Approaches - John Leonetti
• Transcondylar Approaches - Laligam Sekhar

10:00 - 10:30 am Refreshment Break
10:30 - 11:30 am Scientific Paper Session – Award Winning Abstracts

#034. Prospective Comparison of Quality of Life before and after Observation, Surgery or Radiotherapy for Vestibular Schwannomas – Salvatore DiMaio (presenter), Brian D. Westerberg, Ryojo Akagami (Vancouver, Canada)

#107. Clinical Outcomes of Sinonasal Cancers Treated with Endoscopic Endonasal Resection – Adam M. Zonation (presenter), Carl Snyderman, Ricardo Carrau, Paul Gardner, Daniel Prevedello, Amin Kassam (Pittsburgh, USA)

#183. Sinonasal Adenocarcinoma. The M.D. Anderson Cancer Center Experience – Alex D. Sweeney (presenter), Gabriel G. Calzada, Ehab Y. Hanna

# 074. Surgical Strategy and Results for 54 Cases of Trigeminal Schwannoma – Raita Fukaya (presenter), Kazunari Yoshida, Takeshi Kawase

#184. Three-Dimensional Model for Virtual Surgical Simulation, During Complex Skull Base Surgery and Aneurysm Surgery – Akio Morita (presenter), Toshikazu Kimura, Shigeo Sora, Kengo Nishimura, Hisayuki Sugiyama, Hidenori Ono (Shinagawa, Japan)

#211. Mucocles of the Paranasal Sinuses: A 10-Year Single-Institution Review – Mahdi A. Shkoukani (presenter), Lucio Pereira, Michael Carron, Adam Folbe, Robert H. Mathog (Detroit, USA) 034.

11:30 am Meeting Adjourns
Abstract # 3
Recurrent inverted papilloma of the paranasal sinuses with synchronous malignant change
A Mazita, SHA Primuharsa Putra, MS Kenali, AAR Zuri, AB Azizi

Abstract # 11
Petroclival Meningiomas: Complications of surgical treatment
Paulo Henrique Aguiar, Adriana Tahara, Marcos Maldaum, Pedro Santana Junior,

Abstract # 17
Surgical Salvage After Failed Radiation Therapy for Acoustic Neuromas
Ryan Porter, Sam Marzo, John Leonetti

Abstract # 21
A new technique for single person fascia lata graft harvesting
Larry Converse, William Lanier, Michael Link

Abstract # 31
Importance of understanding drainage patterns of the cavernous sinus for venous sampling in patients with Cushing syndrome
Nakamasa Hayashi, Masanori Kurimoto, Michiya Kubo, Naoya Kuwayama, Shunro Endo

Abstract # 44
An Orthotopic Model of Sinonasal Malignancy.
Alexander Gelbard, Samar Jasser, Michael Kupferman, Jeffrey Myers, Ehab Hanna

Abstract # 45
Osteoplastic monobloc pterional craniotomy: a technical note
Ealmaan Kim, Sung-Il Nam

Abstract # 46
Intrasellar arachnoid cysts
Ante Melada, Vjerislav Peterkovi, Andrej Desnica, Marko Radoš, Ranko Mladina

Abstract # 50
Hemangiopericytoma of the Cavernous Sinus: Case Report and Surgical Strategy Reviewed
John Floyd, Sujit Prabhu

Abstract # 68
Transnasal Repair of Cerebrospinal Fluid Fistula
Sung-Il Nam, Ealmaan Kim, Myunghee Lee, Byung-Hoon Ahn, Sun-Ho Park

Abstract # 79
Acinic Cell Carcinoma of the Cavernous Sinus
Christine Tschoe, Lawrence Chin, Vartan Mardirossian, Scharukh Jalisi

Abstract # 86
Complete Restoration of Hearing after Removal of Large Jugular Foramen Schwannoma
Katsuyuki Asaoka, Shunsuke Terasaka

Abstract # 93
Ocular Neuromyotonia Secondary to Gamma Knife
Jason Much, Eric Weber, Steven Newman

Abstract # 94
Unusual Manifestation of Metastatic Prostate Carcinoma – Endoscopic Biopsy
Eric Weber, Spencer Payne, Steven Newman
Abstract # 138
Synovial Sarcoma of the Maxillary Sinus Arising from Fibrous Dysplasia: A Case Report
Adam Mariotti, Kamil Muzaffar, Darl Vandevender, Chad Zender

Abstract # 140
Refractory CSF Rhinorrhea Secondary to Occult Superior Vena Cava Syndrome and Benign Intracranial Hypertension – Diagnosis and Management.
Jonathan Bledsoe, Eric Moore, Michael Link

Abstract # 174
A Novel Mechanism for Sudden Vision Loss in Adenoid Cystic Carcinoma
Anitha Raghunath, Linda Chi, Franco Monte, Jade Schiffman

Abstract # 175
Imaging and clinical findings of the temporal bone giant cell tumors.
Masoud Matasaddi Zarandy, Mohammad Khorsandi Ashtiani, Nasrin Yazdani

Abstract # 180
Metastatic Renal Cell Carcinoma Masquerading as Pituitary Macroadenoma
Carl Moeller, Chad Zender, Edward Duckworth

Abstract # 188
Petro-clival meningiomas: a clinicopathological correlation
Vaishali Suri, Deepak Gupta, Ashish Suri, Chitra Sarkar, Ashok Mahapatra

Abstract # 203
Metastatic Renal Cell Carcinoma of the Sphenoid Sinus: Case Report
Ryusuke Ogawa, Shin-ichi Wakabayashi, Hiroshi Kajikawa, Kunio Yamamura, Akira Sugie, Toshihiko Kuroiwa

Abstract # 216
Surgical approaches and techniques of tuberculum sellae meningiomas
Jiankang Shen, Weiguo Zhao, Liuguan Bian, Yu Cai

Abstract # 222
Cavernous sinus melanocytoma; Case report and review of literature
Justin Sweeney, Seth Dannis, Amit Singla, Benedicto Baronia, Saleem Abdulrauf

Abstract # 224
Endocrine outcome of endoscopic endonasal tranasphenoidal approach in functioning pituitary adenoma patients
Yong-Kil Hong, Sin-Soo Jeun, Keun-Soo Lee, Seung-Ho Yang, Sang-Won Lee

Abstract # 227
An Anatomic Study on the Asterion as a Landmark for the Location of the Transverse-Sigmoid Sinus Junction in Filipinos
Mitchell Gonzales, Vladimir Hufana
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