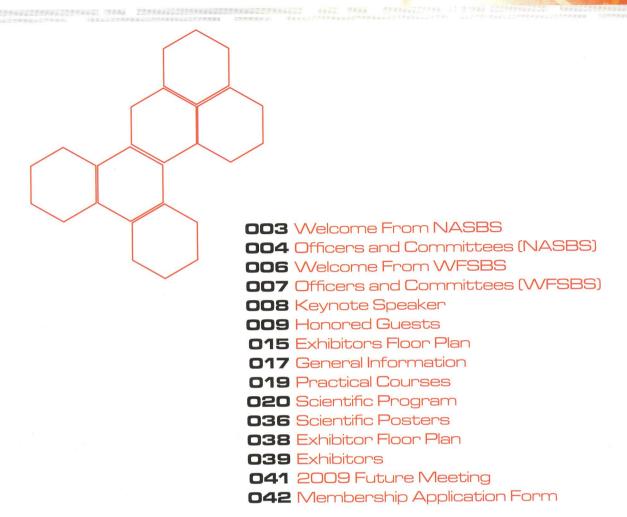
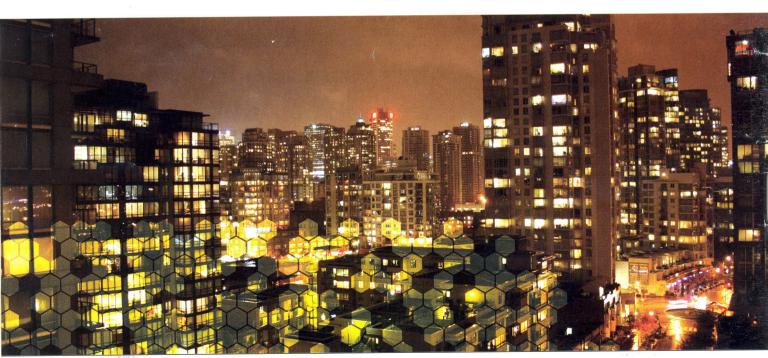


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Dear Friends and Colleagues,

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 5th International Congress of the World Federation of Skull Base Societies. The meeting promises to be a spectacular educational, social and cultural event.

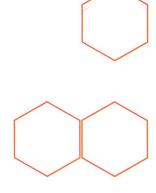
The scientific program chairs for the meeting, Saleem Abdulrauf, Moises Arriaga, and Daniel

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 Rhoton 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, FRCSC, FACS President, North American Skull Base Society



Officers and Committees of NASBS

Scientific Program Co-Chairs



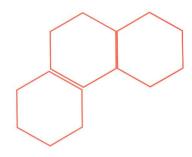




Moises Arriaga



Daniel W. Nuss



Officers

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1993	Peter G. Smith, MD, PhD
1994	Albert L. Rhoton Jr., MD
1995	Hugh D. Curtin, MD
1996	Derald E. Brackmann, MD
1997	Ossama Al-Mefty, MD
1998	Steven A Newman MD

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NASBS Headquarters

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Director of Communications

Micki Francis

Direct line: 703-234-4060 Email: Mfrancis@drohanmgmt.com

Director of Finance

Glenn Beales

1999

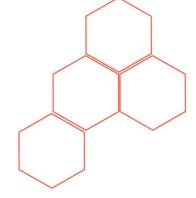
Direct line: 703-234-4090

Email: Gbeales@drohanmgmt.com

John P. Leonetti, MD

2000	Robert F. Spetzler, MD
2001	Ian T. Jackson, MD
2002	Vinod K. Anand, MD
2003	Jon H. Robertson, MD
2004	Jatin Shah, MD
2005	Patrick J. Gullane, MD
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NASBS

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Ehab Hanna, MD

Continuing Medical Education Committee

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Welcome From WFSBS





Dear Collegues,

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. Endosopic 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,

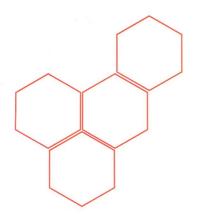
Laligam N. Sekhar, M.D., F.A.C.S. - Vice Chairman William Joseph Leedom and Bennett Bigelow and Leedom Professor Director, Cerebrovascular Surgery, Co - Director, Skull Base Surgery Department of Neurological Surgery University of Washington, Harborview Medical Center 325 9th Avenue Box 359924, Seattle,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



Laligam N. Sekhar President-Elect WFSBS



Saleem Abdulrauf Secretary General WFSBS



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.

Officers

Laligam N. Sekhar, MD, FACS President-Elect, WFSBS University of Washington School of Medicine Seattle, Washington, USA

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

Jatin Shah, MD, FACS Memorial Sloan Kettering Cancer Center New York, New York, USA

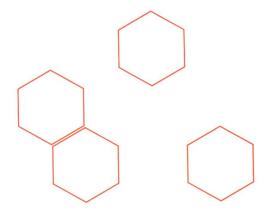
Keynote Speaker

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 deadlinedriven, 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.

Ossama Al-Mefty, MD



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.

NASBS Honored Guests

Charles G. Drake, CC, MD



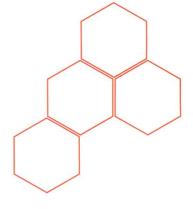
Dr. Charles Drake graduated in 1944 from the Medical School of the University of Western Ontario, in the small town of London, Ontario, Canada. He was a rotating intern at the Toronto General Hospital in 1944 – 1945 but returned to Western to complete a Masters of Science in neurophysiology. He subsequently 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 know 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

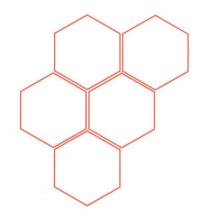


Dr. John P. Leonetti graduated Magna Cum Laude from Augustana College in Rock Island, Illinois prior to attending Loyola University of Chicago, Stritch School of Medicine. He graduated from Loyola in 1982 and stayed on as first a surgical intern and later a resident in Otolaryngology-Head and Neck Surgery. 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 peerreviewed 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

1990		2000	Derald Brackmann, MD Peter J. Jannetta, MD
1992		2001	T.A.H. (Rab) Hide, FRCS
1993		2002	Wolfgang Draf, MD
1994			Albert L. Rhoton Jr., MD
	Robert G. Ojemann, MD	2003	Paul J. Donald, MD
	Kurt F. Schurmann, MD	2004	Alfred S. Ketchum, MD
1995	Peter M. Som, MD		John S. Lewis, MD
1996	6 William E. Hitselberger, MD	2005	Anthony D. Cheeseman, MD
	William F. House, MD		Alan Hudson, OC
1997	- 5 - 1 - 1 - 1 - 1		Joram Raveh, MD, DMD
1998	Kil Soo Choi, MD	2006	Robert Jackler, MD
	Dwight Parkinson, MD		Robert Spetzler, MD
	Naoaki Yanagihara, MD	2007	Victor L. Schramm Jr., MD
			Bahman Emami, MD

At each of its Congresses, the WFSBS honors individuals who have made major contributions to the management of patients with diseases of the skull base. At this, the 5th International Congress, WFSBS President, Dr. Laligam N. Sekhar, has chosen to honor Dr. Derald E. Brackmann, Dr. Albert L. Rhoton, and Dr. Madjid Samii.

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 Neurotology 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 Hitselberger.

Albert L. Rhoton, Jr., MD



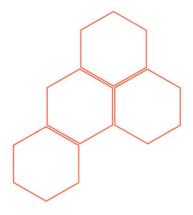
Dr. Albert L. Rhoton, Jr. was born in Parvin, Kentucky. He attended Washington University School of Medicine graduating with the highest academic standing in the class of 1959. He completed his neurosurgical training at Washington University and joined the staff of the Mayo Clinic in Rochester, Minnesota 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 of the World Federation of Neurosurgical Societies. He has served as the Honored Guest or been elected to Honorary Membership in neurosurgical 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.

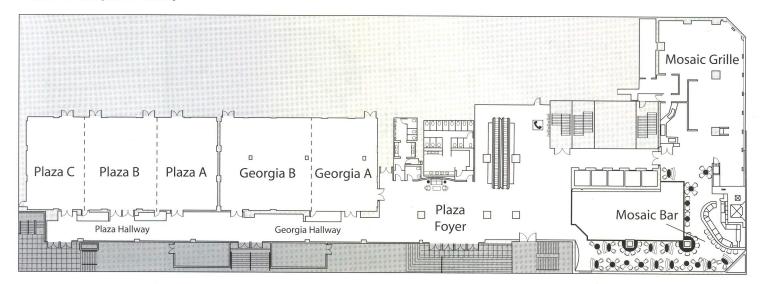
He has given more than 1,000 lectures as invited and/or honored guest of numerous national and international congresses. He is Honorary Professor of the Medical School of Military Academy in Beijing, University of Uruguay, and University of Alexandria, Egypt. He is Doctor Honoris Causa of the Catholic 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.

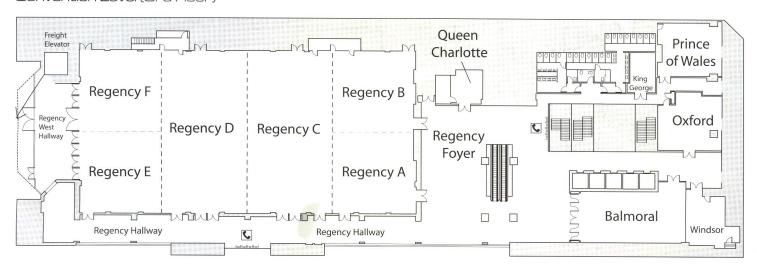
Professor Samii is one of the founders of the Skull Base Surgical Specialty and by his innovation, art of surgery, collaboration, education, and the establishment of three neurosurgical centers in Germany, and one in China he has been instrumental in firmly establishing skull base surgery as a subspecialty 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.



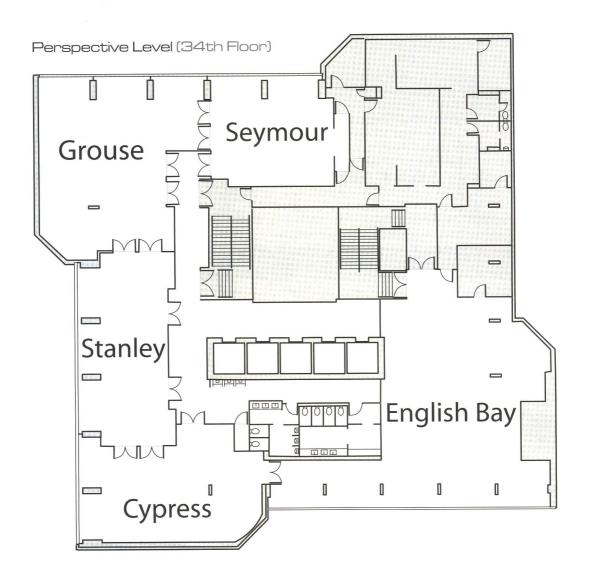
Plaza Level (2nd Floor)



Convention Level (3rd Floor)







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 Wendesday, 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

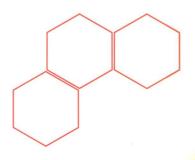
Thursday, September 11 8:00 a.m. – 8:00 p.m. Friday, September 12 8:00 a.m. – 4:15 p.m. Saturday, September 13 8:00 a.m. – 4:15 p.m.

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
Friday, September 12
Saturday, September 13
Sunday, September 14

6:30 a.m. – 5:30 p.m.
6:30 a.m. – 5:30 p.m.
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 (A 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. Rhoton 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.

Please note: Faculty are invited speakers, confirmation is pending

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 Endoscopic Pituitary and Craniopharyngioma Surgery – 9:00 am

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, Micahel Kupferman, Paul Gidley, Abtin Tabaee, Seth Brown, Ameet Singh, Gurston Nyquist

Practical Course will be held at:

Centre of Excellence for Surgical Education and Innovation Vancouver General Hospital 902 West 10th Ave. Vancouver, BC V521M9

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

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-orbital 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

11:25am Participants dissect, concomitantly with Ehab Hanna and Atul Goel

1:00pm Lunch

Posterior Module

2:00 pm Postauricular transtemporal approaches. Neurootology perspective - Sean McMenomy

Postauricular transtemporal approaches. Neurosurgery 2:20 pm perspective – Mustafa Baxkaya

Participants dissect, concomitantly with Sean McMenomy 2:20 pm and Mustafa Baxkaya

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

Hyatt Regency Coordinators: Raul Olivera and Benedicto Baronia Plaza A

1:00 - 5:00 pm

Evening program: Welcome Reception

6:30 pm

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

"How I do it" Endoscopic Transphenoidal Surgery

James Chandler (Moderator), K. Turel, Axel Perneczky and John Jane Jr.

"How I do it" Resection of Petroclival Meningiomas

Jacques Marcos (Moderator), Mario Ammirati, Ahmed Al-Feryan and P. Calbucci

Plaza A

Plaza B

Plaza C

Georgia A

Georgia A

Regency D

Regency E/F

Regency D/E/F

Regency D/E/F

Plaza A/B/C

Vertebral Artery Aneurysms: Surgical Approaches

Chris Getch (Moderator), John Diaz-Day and Renato Galzio

Management Decisions for Patients with Acoustic Tumors

John Golfinos (Moderator), Anthony Mikulec, Eduard Zverina, Koo Van Overbeeke and Ryojo Akagami

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 Wort Jung

Acoustic Neuromas

Moderators: M. Arriaga 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 Tompson

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.)

11:05 - 12:00 pm Invited Presidential Lecture: The Bright Stuff – Joseph MacInnis

12:00 - 1:00 pm Lunch with NASBS Business meeting

1:00 - 2:00pm Special Topic Session

Regency D

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

Session A

Session B

Regency E/F

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

Regency D

#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

#036

Percutaneous Image Guided Intracranial Surgical Tool Placement in a Simulated Brain Tumor Using Flat Panel Cone-beam Computed Tomography (FP-CBCT) and Digital Fluoroscopy: a Feasibility Study

Beverly Aagaard-Kienitz (*Presenter*), Brian E. Nett, Andrew M. Bauer, Mustafa K. Baskaya, Guang-Hong Chen

3:15 - 3:25 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 Mitsuishi, 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

Regency E/F

#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 alrazaq 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 Laws, 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 Perneczky

2:45 - 2:55 pm

#146

Endoscopic Transsphenoidal Approach for Pituitary Tumors

Mariangela Barbi Gonçalves (*Presenter*), José Alberto Landeiro, Marlo Steiner Flores, Maria Helena Melo

2:55 - 3:05 pm

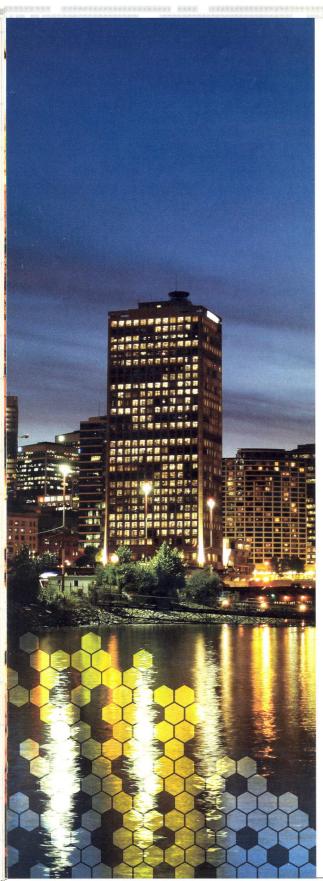
#168

Endoscopic Surgery for Pituitary Adenomas : Outcome and Analysis of Over 125 Consecutive Cases from a Prospective Database

Stavropoula I Tjoumakaris (*Presenter*), Benedict Tan, Mark R Rosen, James J Evans

3:05 - 3:15 pm

Scientific Program



#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

Georgia A/B

#023

Long Term Follow-up of Microvascular Decompression in the Treatment of Trigeminal Neuralgia

Vivian A Elwell (*Presenter*), Nigel D Mendoza, Robin Dlllingworth

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. Ranguelov (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

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 Chittiboina (*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 Supraciliary 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 Cadevaric Investigations Which Allows for Pedicled Reconstruction of the Skull Base

Christopher L Oliver (*Presenter*), Trevor G Hackman, Ricadro L Carrau **4:15 - 4:25 pm**

#156

Initial Experience with Endoscopic Reconstruction Using the Pedicled Nasal Septal Flap

Ivan H El-Sayed (*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, Daneil Prevedello, Amin Kassam

4:45 - 4:55 pm

Evolution of Extended Anterior Skull Base Reconstruction

Ameet S Singh (*Presenter*), Vijay K Anand, Abtin Tabaee, Seth M Brown, Theodore H Schwartz

4:55 - 5:05 pm

#163

Middle Turbinate Preservation in Endoscopic Transsphenoidal Surgery of the Anterior Skull Base

Seth M Brown (*Presenter*), Abtin Tabaee, 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 Rigual, 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

Stavropoula I Tjoumakaris (*Presenter*), Shiveindra B Jeyamohan, Mark R Rosen, James J Evans

5:35 - 5:45 pm

Session C

Georgia A/B

#055

Surgical Strategy for the Tumor Located at or Extending to the Infratemporal Fossa.

Kazunari Yoshida (Presenter), Takeshi Kawase

4:15 - 4:25 pm

#056

Anteriolateral Craniotomy: A Technique for Improved Aesthetic Outcome

Sergey Spektor (*Presenter*), Amos Adeleye, Yigal Shoshan, Felix Umansky **4:25 - 4:35 pm**

#179

Temporal Lobe Changes Following Middle Fossa Craniotomy: Clinical Significance

Rick Friedman (*Presenter*), Maroun Semaan, John Go, Marc Schwartz 4:35 - 4:45 pm #090

Intraorbital Tumor Procedures – The Use of Cryosurgery

Franz Marhold (*Presenter*), Bita Pakrah-Bodingbauer, 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, Yuichiro 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 SurgeryPlaza 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 Dehdashtií Charles-kosen and Pete Batra

Molecular Biology for Skull Base Surgeons Andy Parsa and Bradley Welling

Georgia A

Management Decisions for Complex Skull Base Aneurysms

Georgia 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 –
- Endovascular Treatments for Vasc√lar Skull Base Tumors and Giant Aneurysms – Giuseppe Lanzino
- Extracranial to Intracranial Bypass in Skull Base Surgery Saleem Abdulrauf
- Direct Surgical Clipping of Ginat 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

Regency D/E/F

Derald Brackmann, and Madjid Samii

12:00 - 1:00 pm Lunch in Exhibit Hall 1:00 - 2:00pm Special Topic Session

Session A

Regency D

Meningiomas

Moderators: Lee Kyu-Sung and Imad Kanaan
Topics: Medial Sphenoid Wing Meningiomas: Technical Nuances,
Joung 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

Resection 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

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 - 2:35 pm

#221

Endoscopic Transsphenoidal Surgery of Chordoma

Zhang Yazhuo (*Presenter*), Zhongcheng Wang, De-an Zhao, Yimin Zhou, Shiyuan Zhang, Xuyi Zong, Peng Zhao

2:35 - 2:45 pm

#081

Endonasal Surgery of the Upper Cervical Spine: A Morphometric Analysis

Harminder 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 Craniocervical Junction Tumors

Martin Sames (*Presenter*), Petr Vachata, Robert Bartos, Tomas Radovnicky 3:15 - 3:25 pm

#173

Endoscopic Transcervical Ventral Decompression of Craniocervical 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

Petroclival-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, Easwer 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**

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

Georgia B

#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 Zucarello, 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

#091

Analytical Evaluation of Trans- and Perimastoid Access to Brainstem Targets: A Cadaveric Study

Carlo Alberto Benech (*Presenter*), Antonio Bernardo, Philip E. Stieg **2:45 - 2:55 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 Petrosectomy Approaches to the Petroclival Region Using CT-Based Frameless Stereotaxy

Kazuhiko Kurozumi (*Presenter*), Promod Pillai, Venko Filipce, Matt Pigiot, E Antionio 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, Orphee 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 Paper Session

Session A

Regency D

#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** 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 Clinicial Aggressiveness of Adenomatous Neoplasias of the **Temporal Bone**

Hans J Welkoborsky (Presenter), Petra Voat, Helmut Ostertaa 4:35 - 4:45 pm

#072

Retrospective Study of Complications in Radical Surgery for Malianant 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, Jarod 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

Regency E/F

#162

Expanded Endoscopic Endonasal Approach for Esthesioneuroblastomas: The Toronto Western Hospital Experience

Amir R. Dehdashti (Presenter), Giorgio Carrabba, Allan Vescan, 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-Sheibaini, 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

Shaheen M. Counts (Presenter), Anand K. Devaiah, Christopher G. Larsen, Ossama Tawfik, Luke Buchman, Larry A. Hoover 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

Georgia A

#025

Operative Complications of Incidental Meningiomas

Burak Sade (Presenter), Joung H Lee

4:15 - 4:25 pm

#026

Operative Outcome of Intracranial Meningiomas: The Impact of a Learning Curve

Joung H Lee (Presenter), Burak Sade

4:25 - 4:35 pm

#152

Surgery for the Apically Located Orbital Lesion

Yoshihiro Natori (Presenter)

4:35 - 4:45 pm

#159

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

#189

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

#154

Frontobasal Interhemispheric Approach for Tuberculum Sellae Meningiomas

Amir R. Dehdashti (Presenter), Ahmed Ganna, Fred Gentili

5:05 - 5:15 pm

#187

Posterior Cavernous Anterior Transpetrosal Posteromedial Rhomboid (Dolenc-Kawase Rhomboid) Approach to Posterior Cavernous and Petroclival Lesions

Ashish Suri (Presenter)

5:15 - 5:25 pm

#223

Predictors of Surgical Outcome in Anterior Skull Base Meningiomas

Nabil Mansour (*Presenter*), Mohammed Mansour, Hatem Badr, Ashraf Abdelmonem

5:25 - 5:35 pm

#018

Management of Large Clinoidal Meningiomas

Sergey Spektor (*Presenter*), Yigal Shoshan, Felix Umansky 5:35 - 5:45 pm

Session D

Georgia B

#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

4:15 - 4:25 pm

#234

High-Grade Intracranial Dural Arteriovenous Fistulas at the Skull Base: A 14-Year Experience

James K. Liu (Presenter)

4:25 - 4:35 pm

#205

Transclinoidal Exposure of the Basilar Artery: Dural Tailoring Technique

A Samy Youssef (*Presenter*), Siviero Agazzi, Harry van Loveren 4:35 - 4:45 pm

#229

Craniotomy and Clipping of Intracranial Aneurysm in a Stereoscopic Virtual Reality Environment: Technical Note and Illustrations

George Wong (Presenter)

4:45 - 4:55 pm

#131

PICA Aneurysms: Operative Outcome

Suresh Nair (*Presenter*), Girish Menon, Ravi Mohan Rao, Gopalakrishnan, Easwer Harihar, Krishnakumar

4:55 - 5:05 pm

#136

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

#201

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

#083

Microvascular Decompression for Superior Oblique Myokymia: Case Report and Review of the Literature

Katsuyuki Asaoka (Presenter), Shunsuke Terasaka, Yasuo Suzuki 5:35 - 5:45 pm

Evening on your own. Enjoy Vancouver!

Advanced Practice Nurses and PAs Course

Plaza A

1:00 - 5:00 pm

Coordinator: Alison 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 Sinonasal/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 Plaza A Dan Pieper (Moderator), Imad Kanaan, M. Guthikonda and Khalid Aziz

Robotics and Technological Innovations in Skull **Base Surgery**

Michael Schulder (Moderator), Ehab Hanna, M. Eljamel and Tomokatsu Hori

Foramen Magnum Tumors Plaza C

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 Georgia A Pat Han (Moderator), Aaron Dumont, Louis Kim

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

Georgia B

Plaza B

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

Regency A/B/C

Sellar/Suprasellar Tumors

Regency D

Moderators: Tom Origitano and Prof. Calbucci

- Role of Endoscopic Surgery for Pituitary Tumors –
- The Extended Trans-Sphenoidal Approach M. Amnirati
- Giant Pituatary Tumors: Surgical Management Strategies Atul Goel
- Extent of Resection of Large suprasellar Tumors: How to Decide -

Paragangliomas

Regency E/F

Moderators: Fred Gentili and Eiji Kohmura

- Jugulare Surgery: Otology Perspective Derald Brackman
- Jugulare Surgery: Neurosurgery Perspective Laligham Sekhar
- Radiation Therapy for Glomus Tumors Jason Sheehan
- Embolization of Glamus 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.) Regency D/E/F 11:00 am - 12:00 pm Invited Special Lecture: Radiology of the Skull Base - Hugh Curtin Regency D/E/F

12:00 - 1:00 pm Lunch with General Assembly of the World Federation Skull Base Society Regency A/B/C

1:00 - 2:00pm Special Topic Session

Session A

Regency D

"How I Do It": Acoustic Tumor Surgery

Moderators: Andy Parsa and J. Thomas Roland, Jr. Panel: Keki Turel, H. J. Welkoborsky and Stefano Riccio

Session B

Regency E/F

"Meet the Experts" Special Session

Topics: The Use of Endoscopy in Cerebral Aneurysm Surgery, Renato Galzio; The Separation of Craniopagus (Conjoined Twins), Ahmed Al-Ferayan; 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

Regency D

#153

Polymethylmethacrylate Cranioplasty in Lateral and Posterolateral Skull Base Approaches – Long Term Results of 107 Cases

Petr Vachata (Presenter), Martin Sames 2:25 - 2:35 pm

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

Vascularised Mastoid Bone Flap Cranioplasty After Translabyrinthine 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

1/#213

Composite Skull Base Reconstruction using the Anterolateral Thigh Flap

Matthew M Hanasono (*Presenter*), Roman J Skoracki, Justin M Sacks, Neha Goel, Martina Ayad, Peirong Yu

3:25 - 3:35 pm

#033

Microvascular Free-Tissue Transfer for Facial Reanimation Following Lateral Skull Base Resections

John P Leonetti (*Presenter*), Sam J Marzo, Chad Zender, Daryl Vandevender, Matthew Kircher

3:35 - 3:45 pm

Session B

Regency E/F

#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 Coll, Erasmo Vallester Gonzalez, Marite Palma Diaz, Javier Avendaño 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

lan 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), Cleopetra Charalampaki, Jens Conrad, Axel Pemeczky

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

Georgia A

#210

Small Vestibular Schwannomas with No Serviceable Hearing: Microsurgery vs. Stereotactic Radiation

Daniel H. Coelho (*Presenter*), John G. Golfinos, J. T. Roland Jr. **2:15 - 2:25 pm**

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

¹Peter 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*), Shigeo 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 Vestbular 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

Georgia B

#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. Mihael (*Presenter*), Osipova A. Mary

2:35 - 2:45 pm

#211

Mucoceles 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

Petroclival 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

Session A

Regency D

#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 Penzak, 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, Raul 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

#,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

Session B

Regency E/F

#112

The Endoscopic Endonasal Approach as the Focus of a Multicorridor Operative Strategy for Skull Base Meningiomas: Experience from 100 Cases

Nestor Tomycz (*Presenter*), Daniel Prevedello, Paul Gardner, Adam Zanation, 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 Snydeman, Amin Kassam, Ricardo Carrau

4:25 - 4:35 pm

#117

Expanded Endonasal Approach – A Review of the Transsellar Approach to Skull Base Pathology in 306 Patients.

Ricky Madhok (*Presenter*), Daniel Prevedello, Paul Gardner, Carl Snyderman, Ricardo Carrau, Amin Kassam

4:35 - 4:45 pm

#119

Endoscopic Transcranial Skullbase 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 Gasco-Tamarit, Ryan W. Ridley, Leonardo Rangel-Castilla, Raleigh F. Johnson, Haring J.Nauta, Vicente A Resto 5:15 - 5:25 pm

Techniques in Endoscopic Endonasal Tranorbital Tumor SurgeryAdam 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, Shakeel 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. Loeffler

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 Sterioradiosurgery

Eduard Zverina (*Presenter*), Jan Betka, Martin Chovanec, Jan Kluh, Tomas Smilauer, Josef Kraus

5:25 - 5:35 pm

#172

Subsequent Growth Patterns in Growing Vestibular Schwannomas

Paul T. Mick (*Presenter*), Brian Westerberg, Ryojo Akagami **5:35 - 5:45 pm**

Session D

Georgia B

#008

Gamma Knife Radiosurgery for Glomus Jugulare Tumors

Maziar Azar (*Presenter*), Farid Kazemi Gazik, Mehrnoush Gorjian, 4:15 - 4:25 pm

4:15 - 4:25 pii

#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 Margalit, Ziv Gil, Shimon Maimon

4:45 - 4:55 pm

#158

Direct Percutaneous Embolization of Carotid Body Tumors Usina Onyx

Hamad Farhat (*Presenter*), Mohamed Samy Elhammady, Jacques Morcos, Ali Sultan

4:55 - 5:05 pm

Rehabilitation of the Patient with a Postoperative Jugular **Foramen Syndrome**

Tony Cheesman (Presenter), Annette Kelly

5:05 - 5:15 pm

#051

A Case of Catecholamine-Secreting Glomus Jugulare Tumor: **Treatment Strategy and Perioperative Management**

Hiroaki Motegi (Presenter), Shunsuke Terasaka, Shigeru Yamaguchi, Hiroyuki Kobayashi, Katsuyuki Asaoka, Yoshinobu Iwasaki

5:15 - 5:25 pm

#012

Ewing Sarcoma of the Petrous Temporal Bone: Case Report and Review of Literature

Aleem A. Kadar (Presenter), Matthew J Hearst, Margaret H. Collins, Ravi N. Samy

5:25 - 5:35 pm

#028

Petrosal Cholesteatoma Presenting with Facial Twitching

Scharukh Jalisi (Presenter), Alphi Elackattu

5:35 - 5:45 pm

Evening program: Annual Banquet

6:00 - 7:00 pm 7:00 - 10:00 pm

Reception

Banquet

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Sunday September 14th

7:00 - 8:00 am Breakfast Seminars

Cavernous Sinus Meningiomas

Kyu-sung Lee (Moderator), James Evans, Prof. Giombini and Zhen Wu

How to Develop a Multi-Disciplinary Skull Base Team

Michael Gleeson (Moderator), Ian Jackson, and William Gormley, TBA

Temporal Bones Lesions

Plaza C

Peter Roland (Moderator), Michael Holliday, Patrick Axon and Sam Marzo

Current Management of Head and Neck Cancers Involving the Skull Base: An Interactive Forum

Dan Nuss (Moderator), Sandeep Samant and Ehab Hanna

Management of Craniopharyngioma

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. Zanation (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. Mucoceles 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 Zurin, 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

Anitha Raghunath, Linda Chi, Franco Monte, Jade Schiffman

Abstract # 175

Imaging and clinical findings of the temporal bone giant cell tumors.

Masoud Motasaddi 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

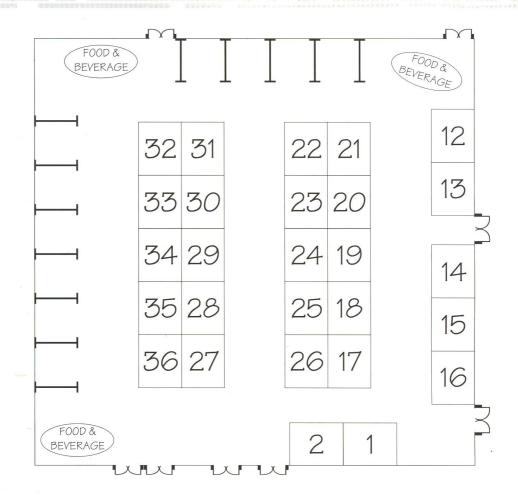
Abstract # 224

Endocrine outcome of endoscopic endonasal tranassphenoidal 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





27 EXHIBIT BOOTHS EACH 8' X 10'



Company Names and Booth Numbers:

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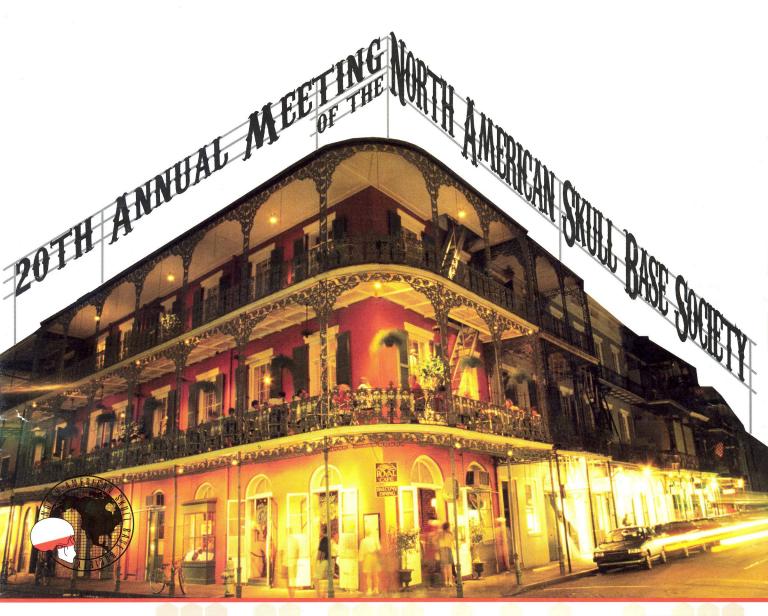
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