22nd ANNUAL NORTH AMERICAN SKULL BASE SOCIETY MEETING

Managing Risk at the Skull Base

February 17-19, 2012
Pre-Meeting Courses: February 15-16, 2012
Planet Hollywood — Las Vegas, Nevada

PRESIDENT: Dennis Kraus, MD

SCIENTIFIC PROGRAM CHAIRS: Carl Synderman, MD, MBA, John Golfinos, MD, Rick Friedman, MD, PhD, & Daniel Pieper, MD

PRACTICAL COURSE DISSECTION WORKSHOP CHAIRS: Vijay K. Anand, MD, Ehab Hanna, MD, Jacques Morcos, MD & James Evans, MD, Sandeep Samant, MD

www.NASBS.org
Welcome!

Las Vegas is a city that is associated with risk; characterized by myriads types and venues for gambling. The theme for this year’s meeting of the NASBS is “Managing Risk”. As a society, we manage risk by disseminating the latest advances in the management of patients with skull base disease and promoting the adoption of best practices. A meeting is an opportunity to share ideas, develop collaborations, and chart a direction for the future. We hope that this year’s meeting will achieve these goals and meet all of your expectations.

The Program Committee consisting of myself, Rick Friedman, MD, PhD, John Golfinos, MD, and Daniel Pieper, MD, has labored to create an educational program that captures the wealth of experience of our senior members but also displays the talents of the latest generation of skull base surgeons. Each day begins with Breakfast Seminars with presentations of surgical techniques by master surgeons in cranial base surgery. Concurrent Sessions offer a wide variety of topics that are designed to provide state-of-the-art reviews of controversial topics and encourage audience participation.

A highlight of every NASBS meeting is the opportunity to hear from invited speakers outside of our specialty. This year, we are extremely fortunate to have two prominent and highly respected keynote lecturers. Mary Meeker is a venture capitalist and former Wall Street securities analyst who has been dubbed the “Queen of the Net” for her overviews of Internet industry. She will be addressing “The State of the US Economy” on Friday. Steve Charles, MD is a vitreoretinal surgeon, mechanical and electrical engineer, inventor, educator, innovator, and founder of medical device companies. On Saturday, he will be speaking about “The Impact of Emerging Technologies on Skull Base Surgery”. Another highlight of the meeting is “Skull Base Jeopardy” where you will have the opportunity to test your skull base knowledge while Dr. Golfinos hosts competing teams of grand masters and young skull base surgeons. Finally, the program will close with one of the most popular events in last year’s program: a Plenary Session on “3D Anatomy of the Skull Base”, presented by Albert Rhoton, MD and Juan Fernandez-Miranda, MD.

As evidenced by the record number of abstract submissions (395) for the 2012 Vegas meeting, cranial base surgery is a dynamic and growing surgical subspecialty. The Program Committee is indebted to all of the reviewers who performed blinded reviews of the abstracts and ranked them according to quality and preference for oral or poster presentation. The oral presentations (153) will be accommodated in 19 Proffered Paper Sessions. A record number of poster presentations (152) will be available for viewing throughout the meeting. Please support the presenters through your attendance and discussions.

This is one meeting where we hope that what happens in Vegas does not stay in Vegas. We hope that you will return home with new knowledge that you can apply to the care of your own patients.

Dennis Kraus, MD, NASBS, President

Carl Snyderman, MD, MBA, NASBS Chair
LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

• Describe the critical radiologic and pathologic assessment of patients with skull base neoplasms.
• Demonstrate an understanding of the anatomic intricacies in skull base anatomy and skull base surgery.
• Elucidate the treatment options available in skull base surgery: with an emphasis on the risk and benefits of each treatment option.
• Demonstrate an understanding of the surgical approaches including open surgical access, endoscopic and robotic means of performing skull base surgery.
• Explain reconstructive options in skull base surgery.
• Determine adjuvant therapies as they relate to skull base neoplasms.
• Recognize the basic science components of skull base neoplasms and surgery.

WHO SHOULD ATTEND

The NASBS meeting is open to NASBS members and Non-members.

TARGET AUDIENCE

Head and neck surgeons, neurosurgeons, reconstructive surgeons, radiotherapists, radiologists, medical oncologists, physical rehabilitation physicians, ophthalmologists, neurologists, maxillofacial surgeons, maxillofacial prosthetists and endocrinologists.

Targeted allied health professional will include physical therapists, oncology nurses, oral health specialists, occupational therapists, speech and language pathologists, optometrists, psychologists and anaplasalogists.

JOIN SPONSORSHIP ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council of Continuing Medical Education through joint sponsorship of Science Care and the North American Skull Base Society. Science Care is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

DESIGNATION STATEMENT Reflecting the Number of Credit Hours (AMA)

General Meeting: Science Care designates this educational activity for a maximum of 20.5 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This activity has been approved for AMA PRA Category 1 Credit™.

COURSE DESCRIPTION/PURPOSE & NEED

The skull base is a complicated area where nerves, blood vessels, bone, the eyes, muscles and other soft tissues converge in a small area which is difficult to access. Treatment of both benign and malignant disease processes in this location represents one of the most difficult areas in the body to treat given the complex mix of structures, anatomy, and proximity to other critical organs. The specialists looking after patients afflicted in this area include head and neck surgeons, neurosurgeons, plastic and reconstructive surgeons, ophthalmologists, radiation oncologists and medical oncologists. These specialists need to understand what is pertinent in their own specialty with regards to skull base disease as well as the therapeutic options other specialties have to offer. There is an important need for physicians managing skull base disease to stay current with best practices in managing this patient population. This conference will bring together leaders in the field of skull base disease from all of the specialties listed above to discuss best practices and the latest research in this area.

This activity has been designed to change attendee knowledge and competence.
MEETING HOURS

REGISTRATION HOURS
Thursday, February 16, 2012
2:00 pm – 6:00 pm
Friday, February 17, 2012
6:30 am – 7:00 pm
Saturday, February 18, 2012
6:30 am – 5:30 pm
Sunday, February 19, 2012
7:30 am – 11:00 am

SPEAKER PREP HOURS
Thursday, February 16, 2012
2:00 pm – 6:00 pm
Friday, February 17, 2012
6:30 am – 5:00 pm
Saturday, February 18, 2012
6:30 am – 5:00 pm
Sunday, February 19, 2012
7:30 am – 10:00 am

EXHIBIT HALL/POSTER HOURS
Friday, February 17, 2012
10:00 am – 7:00 pm  Hall Open
10:15 am – 10:30 am  Break in Exhibit Hall
12:00 pm – 1:00 pm  Lunch for Non Members in Exhibit Hall
3:30 pm – 4:00 pm  Break in Exhibit Hall
4:00 pm – 5:30 pm  Break for Exhibitors/Exhibit Hall Closed
5:30 pm – 7:00 pm  Reception in Exhibit Hall

Saturday, February 18, 2012
10:00 am – 4:00 pm  Hall Open
10:30 am – 11:00 am  Break in Exhibit Hall
12:00 pm – 1:00 pm  Lunch in Exhibit Hall
3:30 pm – 4:00 pm  Break in Exhibit Hall

Sunday, February 19, 2012
7:00 am – 11:00 am  Hall Open
7:30 am – 8:00 am  Breakfast in Exhibit Hall
10:00 am – 10:30 am  Break in Exhibit Hall

WHY JOIN NASBS?

Membership is based on an interest in skull base surgery and related sciences. Individuals with backgrounds in neurosurgery, otolaryngology-head and neck surgery, radiology, neuroradiology, otology, neurotology, plastic and reconstructive surgery, and others interested in skull base diseases are welcome to apply.

MEMBERSHIP BENEFITS

- **Scientific Journal**: Members will receive the official journal of the society, *Skull Base Surgery*, a quarterly publication that contains peer reviewed original articles, review articles, and position papers. It will also present news and information on an international scope to keep members aware of recent and upcoming events, activities, and evolving developments in skull base surgery.

- **Continuing Medical Education**: Members will receive listings of continuing medical educational opportunities in skull base surgery as well as scientific courses sponsored by NASBS and will receive reduced registration fees for national scientific meetings.

- **Petrinous Pulse**: Members will receive copies of *Petrinous Pulse*, the official newsletter of the Society. The newsletter includes a report of the Society President, information updates on the Society, announcements and information on upcoming events and other news as appropriate.

- **Membership Directory**: An annual directory of the membership will be provided.

- **NASBS Website Access**: Members will have access to Member-Only discussion areas on the Society’s website.

Please visit [www.nasbs.org/about/membershipinfo.php](http://www.nasbs.org/about/membershipinfo.php) for more information or send an email to [membership@nasbs.org](mailto:membership@nasbs.org)
Recognized Guests

Every year, the North American Skull Base Society recognizes individuals who have played an instrumental role in skull base surgery. This year, the NASBS would like to recognize Doctors Michael Gleeson, Anil Nanda, and Jatin Shah. They have been innovators in skull base surgery and are teachers to colleagues, residents and students around the world.

Michael Gleeson, MD, FRCS, FRACS (Hon), FDS (Hon)
Professor of Otolaryngology and Skull Base Surgery to the National Hospital for Neurology and Neurosurgery, University College Hospital, London, UK
Emeritus Consultant Otolaryngologist to Guy’s, Kings and St. Thomas’ Hospitals, London, UK
Honorary Consultant Skull Base Surgeon to the Great Ormond Street Hospital for Sick Children, London, UK

Professor Gleeson was born and educated in London. He studied both Dentistry and Medicine at Guy’s Hospital, London, graduating with distinctions and a number of prizes. After internships at Guy’s Hospital, he undertook preliminary training in Otolaryngology and Neurosurgery at the University of Southampton before returning to Guy’s for his residency in Otolaryngology, Head & Neck Surgery. In 1983, he was seconded to the University of Washington in Seattle as Chief resident to Professor Charles Cummings. Returning to London in 1984, he was awarded a scholarship to work as Fellow to Professor Ugo Fisch in Zurich the following year. Upon return to the UK, he was appointed Consultant surgeon to Guy’s Hospital and Senior Lecturer to the then United Medical and Dental Schools of Guy’s and St. Thomas’ Hospitals. In 1994, he was appointed Hunterian Professor to the Royal College of Surgeons of England and a year later became Professor of Otolaryngology and Skull Base Surgery to Kings College London. In 2002, he was awarded the chair of Skull Base Surgery within the Institute of Neurology at University College London.

To date, he has published 8 books, over 100 peer-reviewed papers and contributed in excess of 60 chapters to learned texts. He has delivered more than 200 presentations all over the world. In 1992, with others, he founded the European Skull Base Society and has held office on the Executive Board almost continuously since. Professor Gleeson has served as Editor-in-Chief of Skull Base: An Interdisciplinary Approach for over 10 years and is currently President-Elect of the World Federation of Skull Base Societies.

Anil Nanda, MD, FACS
LSU Health Science Center, Shreveport, Louisiana

Dr. Anil Nanda is Professor and Chairman of the Department of Neurosurgery at LSU Health Sciences Center in Shreveport. Appointed Chief of Neurosurgery in 1990 and then the first Neurosurgery Department Chairman with its establishment in 1995, Dr. Nanda has ushered the growth and development of University Neurosurgery through the vision he continues to share with the department’s faculty and staff. Committed to the expansion of higher education, in Spring of 2002, Dr. Nanda successfully established accreditation of a neurosurgery residency program at LSUHSC in Shreveport. He has been the invited guest lecturer and visiting professor at over 70 national institutions and international venues. He has over two hundred peer review publications and book chapters and he has published two books. In addition, Dr. Nanda continues to promote the importance of safety and prevention to both adults and children through his involvement in local community service efforts. He has been consecutively named among the Best Doctors in America from 1996 to 2010. Currently, the Department of Neurosurgery is one of the busiest in the south with over 2,800 cases this past year. Dr. Nanda is married to Laura Nanda, an attorney, and has three children; Alexander, Christopher, and Mary Catherine.

Jatin P. Shah, MD, PhD, (Hon), FACS, FRCS (Hon), FDSRCS (Hon), FRACS (Hon)
Memorial Sloan-Kettering Cancer Center, New York, USA

Professor Jatin P. Shah graduated from the Medical College of MS University in Baroda, India, and received his training in Surgical Oncology and Head and Neck Surgery at Memorial Sloan Kettering Cancer Center. He is Professor of Surgery, at the Weil Medical College of Cornell University, and Chief of the Head and Neck Service, Leader of the Head and Neck Disease Management Team, and holds The Elliott W. Strong Chair in Head and Neck Oncology at Memorial Sloan-Kettering Cancer Center in New York City.

Dr. Shah is a national and international leader in the field of head and neck surgery, having served as President of The New York Cancer Society, The New York Head and Neck Society, The Society of Head and Neck Surgeons, The North American Skull Base Society and the International Academy of Oral Oncology. He is Founder of The International Federation of Head and Neck Oncologic Societies, and serves as it’s Chief Executive Officer (CEO).

Professor Shah has been the recipient of numerous awards from various parts of the world. He has been continuously listed in the “Best Doctors in America” directories for the past two decades. He serves on the Editorial and Review Boards of 18 scientific journals and has published over 400 peer-reviewed articles, 60 book chapters and 8 books. His textbook of Head and Neck Surgery and Oncology, now in it’s 4th Edition, has won numerous prizes for the best published book in otolaryngology.
DISCLAIMER
The opinions and recommendations expressed by faculty, authors and other experts whose input is included in this program are their own and do not necessarily represent the viewpoint of Science Care or the North American Skull Base Society.

DISCLOSURE POLICY
As a provider accredited by the ACCME, Science Care must ensure balance, independence, objectivity and scientific rigor in all its activities. All course directors, faculty, planners, and any other individual in a position to control the content of this educational activity are required to disclose to the audience any relevant financial relationships with any commercial interest. Science Care must determine if the faculty’s relationships may influence the educational content with regard to exposition or conclusion and resolve any conflicts of interest prior to the commencement of the educational activity. In accordance with the Accreditation Council for Continuing Medical Education requirements on disclosure, information about relationships of presenters with commercial interests (if any) will be included in materials distributed at the time of the conference.

UNLABELED OR UNAPPROVED USE OF DRUGS OR DEVICES
It is the policy of Science Care to require the disclosure of all references to unlabeled or unapproved uses of drugs or devices prior to the presentation of educational content. The audience is advised that this CME activity may contain reference(s) to unlabeled or unapproved uses of drugs or devices. Please consult the prescribing information for full disclosure of approved uses.

EVIDENCE BASED CONTENT
As a provider of CME accredited by the ACCME, it is the policy of Science Care to review and certify that the content contained in this CME activity is valid, fair, balanced, scientifically rigorous and free of commercial bias.

2012 MEETING FACULTY

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SAVE THE DATES!

Mark your calendars for these upcoming NASBS Meetings and Workshops

**Summer Resident and Fellows Practical Dissection Workshop**
LSU Health Sciences Center • New Orleans, LA

**23rd NASBS Annual Meeting**
February 15-17, 2013
Pre-Meeting Practical Dissection Workshop on February 13-14th
The Doral Hotel • Miami, FL
Awards

Awards will be presented to recipients immediately following the Presidential Address on February 17, 2012

On behalf of Dr. Dennis and Daryl Kraus and the North American Skull Base Society, the following awards were given this year:

**Best Paper by a Medical Student**

Abhiram Gande, MD
2nd Year Medical Student
University of Pittsburgh

“Intraoperative CT-Guidance to Confirm Decompression Following an Endonasal Approach for the Treatment of Cervicomedullary Compression”

**Best Clinical Paper by a Resident**

1st Place: Raj C. Dedhia, MD
PGY-3, University of Pittsburgh

“Endoscopic Endonasal Pituitary Surgery: Impact of Surgical Education on Operation Length and Patient Morbidity”

2nd Place: Jamie J. Van Gompel, MD
PGY-7, Mayo Clinic Rochester

“Long Term Outcomes of Esthesioneuroblastoma: Hyams Grade Predicts Patient Survival”

3rd Place: Hussein Alahmadi, MD
University of Toronto

“A Comparison of the Outcomes of Endoscopic and Microsurgical Surgery for Cushing’s Disease”

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**Bruce L. Tai, PhD**
University of Michigan
Ann Arbor, MI, USA

**Jie Tang, MD**
Beijing Tiantan Hospital, China
Beijing, China

**Jai D. Thakur, MD**
LSUHSC-Shreveport
Shreveport, LA, USA

**Parthasarathy Thirumala, MD, MS**
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Saint-Petersburg, Russia

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Vancouver General Hospital,
British Columbia Cancer Agency
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Children’s Hospital of Pittsburgh
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**Mark A. Varvares, MD, FACS**
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Professor and Chairman, Department of Otolaryngology – Head and Neck Surgery
Director, Saint Louis University Cancer Center
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**Allan Vescan, MD, FRCSC**
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University Health Network
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**Eric W. Wang, MD**
University of Pittsburgh School of Medicine
Pittsburgh, PA, USA

**William Wei, MD**
Li Shu Pui Professor of Surgery
Chair in Otorhinolaryngology
Department of Surgery
The University of Hong Kong
Pokfulam, Hong Kong

**Allison Grace Weyer, MD**
West Penn Allegheny Health System,
Pittsburgh, Pennsylvania
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**Matthew Whitley, MD**
Children’s Hospital of Philadelphia
Philadelphia, PA, USA

**Michelle D. Williams, MD**
University of Texas MD Anderson Cancer Center
Houston, TX, USA

**Jeffrey H. Wisoff, MD**
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**Ian Witterick, MD, MSc, FRCSC**
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Toronto, ON, Canada

**Richard Wong, MD**
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**Vicky Yamamoto**
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Drexel College of Medicine
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**Eugene Yu, MD**
Princess Margaret Hospital University Health Network
Toronto, ON, Canada

**Gelareh Zadeh, MD, PhD**
University of Toronto
Toronto, Canada

**Adam Zanation, MD**
University of North Carolina at Chapel Hill
Chapel Hill, NC, USA

**Lee Zimmer, MD, PhD**
University of Cincinnati
Cincinnati, OH, USA
The following presenters, faculty, and program committee members have provided information indicating they have financial relationships with a proprietary entity producing healthcare goods or services with the exemption of non-profit or government organizations and non-healthcare related companies. (Financial relationships include such things as grants, research support, employer or consultant, major stockholder, member of speaker’s bureau):

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<th>Name</th>
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<td>Ricardo Carrau</td>
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<td>John G. Golfinos</td>
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Mizuh...
Steve Charles, MD is one of the world’s leading vitreoretinal surgeons and has developed many of the techniques and devices used by vitreoretinal surgeons worldwide. He has performed over 29,000 vitreoretinal surgeries, lectured in 50 countries and operated in 25, delivered 14 named lectures, and over 1000 speaking trips. He authored a leading textbook in the field which is now in the 5th edition and in 5 languages, authored over 140 articles in medical literature, and 44 book chapters. He is a Fellow in the American College of Surgeons and International College of Surgeons and a member of the Retina Society, Macular Society, American Society of Retinal Specialists, Club Jules Gonin, American Society of Cataract and Refractive Surgery, American Academy of Ophthalmology and the Dowling Society. He is on the editorial board of Retina and a reviewer for Ophthalmology, Archives of Ophthalmology, American Journal of Ophthalmology, and British Journal of Ophthalmology, writes a column for Retina Physician and is an editor for eMedicine. He is a mechanical and electrical engineer and has 106 issued or pending patents. He is a consultant for Alcon Laboratories and the principal architect of the Alcon Accurus and Alcon Constellation Vision System. He is the Founder of MicroDexterity Systems, developing robots for dexterity enhancement for minimally invasive knee and hip replacement, spine surgery, and skull base neurosurgery. He is the President of Infinity Research, Inc., a medical device and avionics consulting company. He has received the Wacker Medal from the Club Jules Gonin, the first Founders Medal from the Vitreous Society, was inducted into the University of Miami School of Medicine Medical Alumni Association Hall of Fame, and was named by Ocular Surgery News as one of the top ten innovators in the past 25 years. He is consistently listed in Best Doctors in America and Becker’s Top 34 Ophthalmologists in America. He is a Clinical Professor at the University of Tennessee and an Adjunct Professor at Columbia College of Physicians and Surgeons.

Mary Meeker is partner at Kleiner Perkins Caufield & Byers and joined the firm in January 2011. She focuses on investments in the firm’s digital practice and helps lead KPCB’s Digital Growth Fund, targeting high-growth Internet companies that have achieved rapid adoption and scale. Mary serves on the board of Square and is actively involved in KPCB’s investments in Groupon, Legalzoom, Waze, 360buy.com, Spotify, Jawbone, One King’s Lane and Trendyol.

From 1991 to 2010 worked at Morgan Stanley and served as managing director and research analyst. Since beginning her career as a securities analyst in 1986, Mary has focused on discovering and understanding emerging technology trends, building relationships with visionary entrepreneurs and supporting category-defining companies during their critical phases of market adoption and growth.

A prolific writer, Mary is the co-author of the industry-defining books The Internet Report (1995) and The Internet Advertising Report (1996). She is also the co-author of The Internet Retailing Report (1997), The Online Classified Advertising Report: It’s About Search/Find/Obtain (SFO) (2002), The China Internet Report (2004), The Mobile Internet Report (2009), and The Technology IPO Yearbooks. Beyond technology, Mary created USA, Inc. (2011), a non-partisan report/video that looks at the U.S. government (and its financials) from a business perspective. Mary’s reports (including her annual Internet Trends presentations) are widely read around the world.

While at Morgan Stanley, Mary covered companies that created more than 200,000 jobs over the past two decades while the companies increased their collective market value by more than US$900 billion, as of February 2011. These companies include Activision, Adobe, Alibaba, Amazon.com, Apple, Dell, eBay, Electronic Arts, Google, Intuit, Microsoft, priceline.com and Yahoo!. Mary is credited with having a deep understanding of what makes businesses succeed and fail.

Mary graduated from DePauw University with B.A. degree. She also received an M.B.A. from Cornell University and an Honorary Doctor of Letters degree from DePauw.

Professor William I. Wei is the Li Shu Pui Professor of Surgery, Chair in Otorhinolaryngology at The University of Hong Kong, and Assistant Medical Superintendent and Head of Department of Surgery at Hong Kong Sanatorium & Hospital.

Professor Wei graduated in 1974 with an MBBS from The University of Hong Kong. In 1979, he obtained the FRCSE in general surgery, followed by FACS in 1984 and FRCS in otorhinolaryngology in 1986. He was granted fellowship of the Hong Kong Academy of Medicine in both otorhinolaryngology and surgery in 1995 and 1997, respectively. In recognition of his distinguished achievements, Professor Wei was elected Fellow of the Royal College of Surgeons of England in 2000, awarded Honorary Fellowship of the Royal Australasian College of Surgeons in 2003, Honorary Fellowship of the Hong Kong College of Otorhinolaryngologists in 2005, Honorary Membership of the German Ear, Nose and Throat Association in 2006, and Honorary Fellowship by the American College of Surgeons in October 2010.

To date, Professor Wei has authored more than 37 book chapters and over 370 publications including 264 articles in peer-reviewed journals, covering the whole range of topics in head and neck surgery. He has also delivered more than 339 invited and keynote lectures in different countries, including the prestigious Eugene Myers International Lecture in 1994, the Hayes Martin Lecture in 2001, the Helmuth Goepfert Lecture in 2007, and the Yearsley Lecture in 2009. He was the only Asian surgeon among the six international leaders who conducted the Head and Neck Education World Tour Program in 2008.
THURSDAY, FEBRUARY 16, 2012
2:00 pm – 6:00 pm  Registration/Speaker Prep

FRIDAY, FEBRUARY 17, 2012
6:30 am – 7:00 am  Breakfast/Registration
7:00 am – 8:00 am  BREAKFAST SEMINARS (Technique Oriented)

#1: Otology (Middle Fossa) – MODERATOR: Rick Friedman, MD, PhD, PANELISTS: Sam Marzo, MD & Marc Schwartz, MD

#2: Sinonasal Malignancy – MODERATOR: Roy Casiano, MD, PANELISTS: Ricardo Carrau, MD & Franco DeMonte, MD

#3: Vascular – MODERATOR: Howard Riina, MD, PANELISTS: Murali Guthikonda, MD & Jacques Morcos, MD

#4: Brain Tumor (Temporal Bone, Far-Lateral Approach)
MODERATOR: Carl Heilman, MD, PANELISTS: James Liu, MD & Chandra Sen, MD

8:15 am – 9:15 am  CONCURRENT SESSIONS

#1: Vascular – Dealing with Risk: Vascular Injury
MODERATOR: Jacques Morcos, MD, PANELISTS: Anand Germanwala, MD, Michael Lawton, MD & Laligam Sekhar, MD

#2: Intracranial Neoplasia – Minimizing Risk: Making Choices for Craniopharyngioma (Consensus Panel)
MODERATOR: John Jane, Jr., MD, PANELISTS: Marvin Bergsneider, MD, Elizabeth Tyler-Kabara, MD & Jeffrey Wisoff, MD

#3: Extracranial Neoplasia: Managing Risks of JNA
MODERATOR: Ehab Hanna, MD, PANELISTS: Gustavo Nogueira, MD, Carl Snyderman, MD & Lee Zimmer, MD

#4: Postoperative Complications
MODERATOR: Emiro Caicedo, MD, PANELISTS: Vijay Anand, MD, Giovanni Danesi, MD & Michael Gleeson, MD

9:15 am – 10:15 am  PLENARY SESSION I
Managing Risk (Panel of senior skull base surgeons discussing cases)
MODERATOR: Anil Nanda, MD, PANELISTS: James Boggan, MD, Michael Gleeson, MD, Joung Lee, MD & William Wei, MD

10:15 am – 10:30 am  Break in Exhibit Hall

10:30 am – 12:00 pm  PLENARY SESSION I
10:30 am: Presidential Address – Dennis Kraus, MD
GUESTS OF HONOR: Michael Gleeson, MD, Anil Nanda, MD & Jatin Shah, MD

11:00 am: Keynote Lecture #1: Internet Trends + a Dose of ‘USA, Inc.’ – Mary Meeker

12:00 pm – 1:00 pm  NASBS Business Meeting/Lunch
All NASBS members welcome, lunch will be provided. Lunch for nonmembers is available in Exhibit Hall.

1:00 pm – 2:00 pm  CONCURRENT SESSIONS

#5: Neuro-Otology: Minimizing Risk: Making Choices for Vestibular Schwannoma (Consensus Panel)
MODERATOR: Daniel Pieper, MD, PANELISTS: Michael LaRouere, MD, Michael Link, MD & Parthasarathy Thirumala, MD

#6: Pituitary – MODERATOR: John Y. K. Lee, MD, PANELISTS: Khaled Aziz, MD, Ricky Madhok, MD & Daniel Prevedello, MD

#7: Dural Reconstruction: Dealing with Risk
MODERATOR: Ian Witterick, MD, PANELISTS: Peter Neligan, MD, James Netterville, MD & Adam Zanation, MD

#8: Imaging – MODERATOR: Erin McKean, MD, PANELISTS: Hilda Stambuk, MD, Steve Sullivan, MD & Eugene Yu, MD

2:00 pm – 3:30 pm  PROFFERED PAPER SESSIONS

Proffered Paper Session I: Anterior Cranial Base – MODERATORS: Khaled Aziz, MD & Pete Batra, MD
Proffered Paper Session II: Chordoma – MODERATORS: Gary Gallia, MD & Chris Rassak, MD
Proffered Paper Session III: Endoscopic Techniques – MODERATORS: Jean Eloy, MD & John Y. K. Lee, MD
Proffered Paper Session IV: General – MODERATORS: Ehab Hanna, MD & Daniel Prevedello, MD

3:30 pm – 4:00 pm  Break in Exhibit Hall

4:00 pm – 5:30 pm  PROFFERED PAPER SESSIONS

Proffered Paper Session V: H&N Tumors, Endoscopic Techniques – MODERATORS: Ricardo Carrau, MD & Alex Vandergrift, MD
Proffered Paper Session VI: Innovative Technologies – MODERATORS: Ricky Madhok, MD & Eric Wang, MD
Proffered Paper Session VII: Meningioma – MODERATORS: Ketan Bulsara, MD & Melvin Field, MD
Proffered Paper Session VIII: Rehab, Temp Bone – MODERATORS: Peter Costantino, MD & Giovanni Dansei, MD

5:30 pm – 7:00 pm  Welcome Reception in Exhibit Hall
SATURDAY, FEBRUARY 18, 2012

6:30 am – 7:00 am  Breakfast/Registration

7:00 am – 8:00 am  BREAKFAST SEMINARS

#5: Otology – MODERATOR: John Golfinos, MD, PANELISTS: Roberto Cueva, MD, John Leonetti, MD & J. Thomas Roland, MD  Sunset 2

#6: Trauma – MODERATOR: Timothy McCulloch, MD, PANELISTS: Paul Donald, MD, Bob Kellman, MD & Chris Rassekh, MD  Sunset 3/4

#7: Intracranial – MODERATOR: Anand Germanwala, MD, PANELISTS: Fred Gentili, MD & Daniel Pieper, MD  Sunset 5/6

#8: Brain Tumor – MODERATOR: Alex Vandergrift, MD, PANELISTS: Ossama Al-Mefty, MD & Carl Hardwidge, MD  Celebrity 1/2

8:05 am – 10:30 am  PLENARY SESSION II

8:05 am: Keynote Lecture #2: The Impact of Emerging Technologies on Skull Base Surgery – Steve Charles, MD
9:00 am: Keynote Lecture #3: Robotic Nasopharyngectomy – William Wei, MD
9:30 am: Skull Base Jeopardy
   MODERATOR: John Golfinos, MD
   JUDGES: Juan Fernandez-Miranda, MD, Daniel Fliss, MD & Albert Rhoton, MD
   TEAM #1: Harshita Pant, MD, PhD, Jatin Shah, MD & Steve Sullivan, MD
   TEAM #2: John Y. K. Lee, MD, James Liu, MD, William Wei, MD & Lee Zimmer, MD
   TEAM #3: Emiro Caicedo, MD, Daniel Kelly, MD & Laligam Sekhar, MD
   TEAM #4: Fred Gentili, MD, Erin McKeon, MD & Arturo Solares

10:25 am: Skull Base Journal Update

10:30 am – 11:00 am  Break in Exhibit Hall  Mezzanine

11:00 am – 12:00 pm  CONCURRENT SESSIONS

#9: Ophthalmology Potpourri
   MODERATOR: Steven Newman, MD, PANELISTS: Mario Ammirati, MD, Peter Cordeiro, MD & Howard Krauss, MD  Sunset 2

#10: Intracranial: Managing Risk: Chordoma (Consensus Panel) – MODERATOR: Paul Gardner, MD  Celebrity 1/2
   PANELISTS: Ossama Al-Mefty, MD, Norbert Liebsch, MD, Laligam Sekhar, MD & Chandra Sen, MD

#11: Extracranial – MODERATOR: Anand Deviah, MD  Sunset 3/4
   PANELISTS: Vijay Anand, MD, Pete Batra, MD, Derrick Lin, MD, Eric Wang, MD & Adam Zanation, MD

#12: Proffered Papers IX: Sellar SupraSellar – MODERATORS: Marvin Bergsneider, MD & Trevor Hackman, MD  Sunset 5/6

12:00 pm – 1:00 pm  Lunch in Exhibit Hall  Mezzanine

1:00 pm – 2:00 pm  CONCURRENT SESSIONS

#13: Otology: Temporal Bone Resection (Consensus Panel) – MODERATOR: Barry Hirsch, MD  Sunset 2
   PANELISTS: Derald Brackmann, MD, Giovanni Danesi, MD, Norbert Liebsch, MD & Chandra Sen, MD

#14: Intracranial – MODERATOR: Juan Carlos Fernandez-Miranda, MD  Sunset 3/4
   PANELISTS: Melvin Field, MD & Daniel Kelly, MD

#15: Quality of Life  Sunset 5/6
   MODERATOR: Harshita Pant, MD, PANELISTS: Ziv Gil, MD, Stephen Haines, MD & Allan Vescan, MD

#16: Diagnostic Dilemmas  Celebrity 1/2
   MODERATOR: James Evans, MD, PANELISTS: Ketan Bulsara, MD, Benjamin Judson, MD, Snehal Patel, MD & Marc Rosen, MD

2:00 pm – 3:30 pm  PROFFERED PAPER SESSIONS

Proffered Papers X: Anatomy – MODERATORS: Juan Carlos Fernandez-Miranda, MD & Arturo Solares, MD  Celebrity 1/2
Proffered Papers XI: Radiosurgery – MODERATORS: John Leonetti, MD & Thomas Roland, MD  Sunset 2
Proffered Papers XII: Vascular Lesions – MODERATORS: Anand Germanwala, MD & James Liu, MD  Sunset 3/4
Proffered Papers XIII: Otology – MODERATORS: Rick Friedman MD, PhD & Barry Hirsch, MD  Sunset 5/6

3:30 pm – 4:00 pm  Break in Exhibit Hall  Mezzanine

4:00 pm – 5:30 pm  PROFFERED PAPER SESSIONS

Proffered Papers XIV: Anterior Cranial Base – MODERATORS: Erin McKeon, MD & Steve Sullivan, MD  Sunset 2
Proffered Papers XV: Endoscopic Techniques – MODERATORS: Paul Gardner, MD & Adam Zanation, MD  Sunset 3/4
Proffered Papers XVI: General – MODERATOR: Allan Vescan, MD  Celebrity 1/2
Proffered Papers XVII: Sellar/Suprasellar – MODERATORS: Mario Ammirati, MD & Lee Zimmer, MD  Sunset 5/6

7:00 pm – 10:00 pm  Social Event  Celebrity 3

It's an offer you can't refuse... Come by the juice joint for a flapper-style fling. Provide the password and travel back in time for an evening filled with moonshine, jazz and Charleston dancers. Whisper “Skull Base” to enter. Zoot suits and fedoras encouraged.
SUNDAY, FEBRUARY 19, 2012

7:30 am – 8:00 am  Breakfast/Registration

8:00 am – 9:00 am  CONCURRENT SESSIONS

#17: Training – MODERATOR: Daniel Nuss, MD, PANELISTS: Anil Nanda, MD, Jakakar Nayak, MD & Ian Witterick, MD  Sunset 3/4
#18: Perineural Invasion – MODERATOR: Richard Wong, MD  Sunset 5/6
    PANELISTS: Ehab Hanna, MD, Chris Rassekh, MD & C. Arturo Solares, MD
Proferred Papers XVIII: Reconstruction – MODERATORS: Amir Dehdashti, MD & Ziv Gill, MD  Sunset 5/6

9:00 am – 10:00 am  CONCURRENT SESSIONS

#19: Cranial Reconstruction – MODERATOR: Lawrence Marentette, MD  Celebrity 1/2
    PANELISTS: Peter Costantino, MD, Trevor Hackman, MD, Kris Moe, MD & Mark Varvares, MD
#20: Keynote/Panel/Tumor Board etc: "Sometimes, it is better to say no: Deciding when NOT to operate"  Celebrity 1/2
    MODERATOR: Amir Dehdashti, MD, PANELISTS: Paul Donald, MD, Fred Gentili, MD & Daniel Nuss, MD
Proferred Papers XIX: General – MODERATORS: Harshita Pant, MD & Daniel Pieper, MD  Sunset 5/6

10:00 am – 10:30 am  Break in Exhibit Hall

10:30 am – 12:00 pm  PLANERY SESSION

3D Anatomy Talk – Juan Fernandez-Miranda, MD & Albert Rhoton, MD  Celebrity 1/2
Day One: FEBRUARY 15, 2012 COURSE CHAIRS: Dr. Vijay Anand & Dr. James Evans

7:50 am Welcome – Vijay Anand, MD
8:00 am Surgical Anatomy and Skull Base Approaches – Juan Fernandez Miranda, MD
8:20 am Sellar and Supra Sellar Approachess – Theodore Schwartz, MD
8:40 am Endoscopic Approaches to Craniopharyngiomas – John Jane, MD
9:00 am Indications and Limitations for Endoscopic Skull Base Surgerys – Brent Senior, MD
9:20 am Decision Making in Meningioma Managements – James Evans, MD
9:40 am Endoscopic Skull Base Reconstruction – Marc Rosen, MD
10:00 am Coffee Break
10:15 am Endoscopic Skull Base Surgery: Quality of Life Evaluations – Edward McCoul, MD
10:30 am Endoscopic Approaches to Infratemporal Fossa and Beyond – Vijay K. Anand, MD
11:00 am Successful Management of Complications of Skull Base Surgeries – Roy Casiano, MD
11:20 am Endoscopic Resection of Sinonasal Malignancies – Ehab Hanna, MD
11:40 am My Most Challenging Cases – MODERATOR: Vijay anand, MD
Roy Casiano, MD, James Evans, MD, John Jane, MD, Marc Rosen, MD, Theodore Schwartz, MD & Brent Senior, MD
12:30 pm Summation – James Evans, MD
Lunch
1:30 pm Prosection and Demonstration
2:00 pm Lab Dissection
6:00 pm Adjourn

Day Two: FEBRUARY 16, 2012 COURSE CHAIRS: Dr. Ehab Hanna & Dr. Jacques Morcos

8:00 am Introductions – Ehab Hanna, MD & Jacques Morcos, MD

ANTERIOR MODULE
8:10 am Lecture: Anterior Transfacial Approachess – Dennis Kraus, MD & Sandeep Samant, MD
8:30 am Lecture: Cranial Orbital Zygomatic Approachess – Carlos David, MD
8:50 am Dissection Lab
10:30 am Break

MIDDLE MODULE
10:45 am Lecture: Lateral Preauricular Infratemporal Approachess – Daniel Nuss, MD
11:05 am Lecture: Middle Fossa Approachess – Chandra Sen, MD
11:25 am Dissection Lab
1:00 pm Lunch

POSTERIOR MODULE
2:00 pm Lecture: Postauricular Transtemporal Approaches. Neurootology Perspectives – Rick Friedman, MD
2:20 pm Lecture: Postauricular Transtemporal Approaches. Neurosurgery Perspectives – Mustafa Baskaya, MD
2:40 pm Dissection Lab
4:20 pm Break & Questions
4:45 pm Case Presentations by Dr. Ehab Hanna & Dr. Jacques Morcos, to be discussed by panel of invited faculty
6:00 pm Shuttle back to hotel
THURSDAY, FEBRUARY 16, 2012
2:00 pm – 6:00 pm  Registration/Speaker Prep
   Registration Desk/Speaker Prep (Sunset 1)

FRIDAY, FEBRUARY 17, 2012
6:30 am – 7:00 am  Breakfast/Registration
   Registration Desk
7:00 am – 8:00 am  BREAKFAST SEMINARS (Technique Oriented)
   #1: Otology (Middle Fossa) – MODERATOR: Rick Friedman, MD, PhD, PANELISTS: Sam Marzo, MD & Marc Schwartz, MD  Sunset 2
   #2: Sinonasal Malignancy – MODERATOR: Roy Casiano, MD, PANELISTS: Ricardo Carrau, MD & Franco DeMonte, MD  Sunset 3/4
   #3: Vascular – MODERATOR: Howard Riina, MD, PANELISTS: Murali Guthikonda, MD & Jacques Morcos, MD  Celebrity 1/2
   #4: Brain Tumor (Temporal Bone, Far-Lateral Approach)  Sunset 5/6
       MODERATOR: Carl Heilman, MD, PANELISTS: James Liu, MD & Chandra Sen, MD
8:15 am – 9:15 am  CONCURRENT SESSIONS
   #1: Vascular – Dealing with Risk: Vascular Injury  Celebrity 1/2
       MODERATOR: Jacques Morcos, MD, PANELISTS: Anand Germanwala, MD, Michael Lawton, MD & Laligam Sekhar, MD
   #2: Intracranial Neoplasia – Minimizing Risk: Making Choices for Craniopharyngioma (Consensus Panel)  Sunset 2
       MODERATOR: John Jane, Jr., MD, PANELISTS: Marvin Bergsneider, MD, Elizabeth Tyler-Kabara, MD & Jeffrey Wisoff, MD
   #3: Extracranial Neoplasia: Managing Risks of JNA  Sunset 3/4
       MODERATOR: Ehab Hanna, MD, PANELISTS: Gustavo Nogueira, MD, Carl Snyderman, MD & Lee Zimmer, MD
   #4: Postoperative Complications  Sunset 5/6
       MODERATOR: Emiro Caicedo, MD, PANELISTS: Vijay Anand, MD, Giovanni Danesi, MD & Michael Gleeson, MD
9:15 am – 10:15 am  PLENARY SESSION I
   Managing Risk (Panel of senior skull base surgeons discussing cases)  Celebrity 1/2
   MODERATOR: Anil Nanda, MD, PANELISTS: James Bogdan, MD, Michael Gleeson, MD, Joung Lee, MD & William Wei, MD
10:15 am – 10:30 am  Break in Exhibit Hall
   Mezzanine
10:30 am – 12:00 pm  PLENARY SESSION I
   10:30 am: Presidential Address – Dennis Kraus, MD
   GUESTS OF HONOR: Michael Gleeson, MD, Anil Nanda, MD & Jatin Shah, MD
   11:00 am: Keynote Lecture #1: Internet Trends + a Dose of ‘USA, Inc.’ – Mary Meeker
12:00 pm – 1:00 pm  NASBS Business Meeting/Lunch
   All NASBS members welcome, lunch will be provided. Lunch for nonmembers is available in exhibit hall.
1:00 pm – 2:00 pm  CONCURRENT SESSIONS
   #5: Neuro-Otology: Minimizing Risk: Making Choices for Vestibular Schwannoma (Consensus Panel)  Sunset 2
       MODERATOR: Daniel Pieper, MD, PANELISTS: Michael LaRouere, MD, Michael Link, MD & Parthasarathy Thirumala, MD
   #6: Pituitary – MODERATOR: John Y. K. Lee, MD, PANELISTS: Khaled Aziz, MD, Ricky Madhok, MD & Daniel Prevedello, MD  Celebrity 1/2
   #7: Dural Reconstruction: Dealing with Risk  Sunset 3/4
       MODERATOR: Ian Witterick, MD, PANELISTS: Peter Neligan, MD, James Netterville, MD & Adam Zanation, MD
   #8: Imaging – MODERATOR: Erin McKean, MD, PANELISTS: Hilda Stambuk, MD, Steve Sullivan, MD & Eugene Yu, MD  Sunset 5/6
2:00 pm – 3:30 pm  PROFFERED PAPER SESSIONS
Proffered Paper Session I: Anterior Cranial Base – MODERATORS: Khaled Aziz, MD & Pete Batra, MD  Sunset 5/6

001 MINIMALLY INVASIVE EYELID INCISION FRONTO-ORBITAL CRANIOTOMY APPROACH TO THE ANTERIOR CRANIAL FOSSA: LESSONS TO LEARN IN FIFTY-EIGHT CASES – Khaled Aziz, Alexander Yu (presenter), Erik Happ, Allegheny General Hospital, Drexel College of Medicine

002 SURGERY VERSUS WATCHFUL WAITING IN PATIENTS WITH CRANIOFACIAL FIBROUS DYSPLASIA – A META-ANALYSIS – Moran Amit (presenter), Michael T. Collins, Edmond J. FitzGibbon, John A. Butman, Dan M. Fliss, Ziv Gil, Tel Aviv Sourasky Medical Center, Sackler Faculty of Medicine, Tel Aviv University, National Institutes of Health, Bethesda, Maryland, USA

003 THE MIDLINE BIORBITOFRONTAL CRANIOTOMY APPROACH TO MENINGIOMAS OF THE OLFACTORY GROOVE AND PLANUM SPHENOIDALE – William R. Miele (presenter), Carl B. Heilman, Department of Neurosurgery, Tufts Medical Center & Tufts University School of Medicine
004 QUALITY-OF-LIFE IMPROVEMENTS AFTER ENDOSCOPIC SKULL BASE SURGERY FOR NON-PITUITARY TUMORS – Edward D. McCoul (presenter), Vijay K. Anand, Jeffrey C. Bedrosian, Theodore H Schwartz, Weill Cornell Medical College, New York, NY

005 COMPARISON OF OUTCOMES FOR ANTERIOR COMMUNICATING ARTERY ANEURYSMS CLIPPED VIA A BASAL INTERHEMISPHERIC APPROACH VS. A PTERIONAL APPROACH – Ravi H Gandhi (presenter), Alex Riccio, Constantine E. Plakas, Junichiro Yamamoto, Alan S. Boulous, Albany Medical Center

006 ACCESSING THE PARAPHARYNGEAL SPACE AND INFRATEMPORAL FOSSA SKULL BASE USING ROBOTIC SURGERY: AN ANATOMIC DESCRIPTIONS AND PRELIMINARY CLINICAL SERIES – Grace G. Kim (presenter), Adam M. Zanation, University of North Carolina Hospitals-Chapel Hill

007 LONG TERM OUTCOME OF ESTHESIONEUROBLASTOMA: HYAMS GRADE PREDICTS PATIENT SURVIVAL – Jamie J. Van Gompel (presenter), Caterina Giannini, Kerry D. Olsen, Eric Moore, Manolo Piccirilli, Robert L. Foote, Jan C. Buckner, Michael J. Link, Mayo Clinic Rochester, MN

008 FUNCTIONAL OUTCOMES OF INDIVIDUALS UNDERGOING SURGERY OF THE INFRATEMPORAL FOSSA, A 14 YEAR EXPERIENCE – Rohit Garg (presenter), David B. Keschner, Jivianne Lee, Joseph Brunworth, Eugene Chu, Marc Vanefsky, Kenneth Krantz, Sooho Choi, Terry Shibuya, Southern California Permanente Medical Group

009 PARanasal Sinus and Skull Base Fibro-Osseous Lesions: WHEN IS BIOPSY INDICATED FOR DIAGNOSIS? – Pete Batra (presenter), Gay Efune, Carlos J. Perez, Liyue Tong, University of Texas Southwestern Medical Center

Proffered Paper Session II: Chordoma – MODERATORS: Gary Gallia, MD & Chris Rassekh, MD  
Sunset 2

010 ABERRANT Mtor REGULATION IN CHORDOMA – Anthony C. Wang, David B. Altschuler (presenter), Shawn L. Hervey-jumper, Khoi D. Than, Xing Fan, Karin M. Muraszko, Erin L. McKeen, Stephen E. Sullivan, University of Michigan

011 ESTABLISHMENT AND INITIAL CHARACTERIZATION OF A PRIMARY HUMAN CHORDOMA XENOGRAFT MODEL – I-Mei Stu, Vafi Salmasi, Brent A. Orr, Qi Zhao, Zev A. Binder, Douglas D. Reh, Masaru Ishii, Christine L. Hann, Gary L. Gallia (presenter), Johns Hopkins Hospital

012 CHONDROID CHORDOMA: IS IT REALLY A CHONDROSARCOMA AND DOES IT MATTER? – Christopher H. Rassekh (presenter), Courtney B. Shires, Virginia A. Livolsi, Laurie A. Loewner, Sean M. Grady, Bert W. O’Malley, University of Pennsylvania

013 SKULL BASE CHORDOMA: RESULTS AND OUTCOMES OF MINIMALLY INVASIVE APPROACHES IN A SINGLE INSTITUTION – Waleed M. Abuzeid (presenter), Nadeem Akbar, Stephen E. Sullivan, Lawrence J. Marentette, Erin L. McKeen, University of Michigan Health System

014 CLIVUS CHORDOMA – Ibrahim Sebei (presenter), Ibn Althyam Hospital

015 MICRO-NEUROSURGICAL MANAGEMENT OF CAVERNOUS SINUS MENINGIOMA: SINGLE SURGEON EXPERIENCE FROM LOUISIANA STATE UNIVERSITY, SHREVEPORT – Jai D. Thakur (presenter), Vijaykumar Javalkar, Shashikant Patil, Imad S. Khan, Mathew Burton, Anil Nanda, LSUHSC-Shreveport

016 SURGICAL RESULTS OF 32 FORAMEN MAGNUM MENINGIOMAS WITH A SPECIAL REFERENCE TO VASCULAR COMPLICATIONS – Soichi Oya, Burak Sade, Bjorn Lobo (presenter), Jong H. Lee, Cleveland Clinic Foundation

017 LONG TERM CLINICAL AND SURGICAL OUTCOMES OF PATIENTS WITH INTRACRANIAL MENINGIOMAS – Winward Choy (presenter), Won Kim, Ashley Osborne, Marko Spasic, Nicole Cremer, Isaac Yang, Department of Neurological Surgery, University of California Los Angeles, David Geffen School of Medicine at UCLA

018 SURGICAL MANAGEMENT OF JUGULAR FORAMEN MENINGIOMA – Junting Zhang, Jie Tang (presenter), Zhen Wu, Liwei Zhang, Guijun Jia, Xinru Xiao, Sumin Geng, Dabiao Zhou, Beijing Tiantan Hospital, China

Proffered Paper Session III: Endoscopic Techniques – MODERATORS: Jean Eloy, MD & John Y. K. Lee, MD  
Sunset 3/4

019 ENDONASAL ENDOscopIC aPproACHES TO LESIONS INVADING THE CAVERNOUS SINUS: REACHING EQUIPOISE – Graeme F. Woodworth, Edward McCoul, Vijay Anand, Theodore H Schwartz (presenter), Weill Cornell Medical College, Johns Hopkins

020 DIRECT HEALTHCARE COST ANALYSIS OF ENDOSCOPIC COMPARED WITH SUBLABIAL TRANSSEPTAL PITUITARY SURGERY – Candace A. Mitchell (presenter), Adam M. Zanation, Brent A. Senior, Matthew G. Ewend, Charles S. Ebert, Jr., University of North Carolina at Chapel Hill


023 ENDOscopIC ENDOnasal VersUS MICROscopIC TRANSSphenoidal AND OPEN TRANscranial APPROACHES FOR GIANT PITUITARY AdENOMAS – Daniel M. Raper, Ricardo J. Komotor, Robert M. Starke (presenter), Vijay K. Anand, Theodore H. Schwartz, Royal North Shore Hospital; University of Miami; University of Virginia; Weill Cornell Medical College

NORTH AMERICAN SKULL BASE SOCIETY 22nd Annual Meeting
024 THE ROLE OF ENDOSCOPIC ENDONASAL APPROACH IN THE TREATMENT OF CAVERNOUS SINUS MENINGIOMA – Daniel M. Prevedello, Ammar Shalikhouni (presenter), Rodrigo Mafaldo, Leo Ditzel Filho, Daniele de Lara, Brad Otto, Ricardo Carrau, The Ohio State University Medical Center

025 DECISION ANALYSIS: ENDOSCOPIC VERSUS OPEN RESECTION OF TUBERCULUM SELLAE MENIINGOMAS – Leif-Erik Bohman, Sherman Stein, Jason G. Newman, James Palmer, Nithin Adappa, Aamir Khan, TT Sitterley, Diana Chang, John Y Lee (presenter), University of Pennsylvania

Proffered Paper Session IV: General – MODERATORS: Ehab Hanna, MD & Daniel Prevedello, MD

026 A PLAUSIBLE MECHANISM FOR OPTIC NERVE DAMAGE: A COMPARATIVE STUDY OF HEAT TRANSFER DURING OPTIC CANAL DECOMPRESSION – Brian C Kelley (presenter), MyLe Shaw, Jason Sokol, Paul J Camarata, University of Kansas

027 TRANSSPHENOIDAL SURGERY FOR ACROMEGALY: METHODS OF SURGICAL RESECTION, REMISSION USING MODERN CRITERIA, AND PREDICTORS OF OUTCOME – Robert M. Starke (presenter), Sebastian Koga, Carrie L. Pledger, Spencer C. Payne, Edward H. Oldfield, John J. Jane, Jr, University of Virginia

028 SURGICAL TREATMENT OF TRIGEMINAL NEURALGIA WITHOUT VASCULAR COMPRESSION: 20 YEARS OF EXPERIENCE – Rogelio Revuelta-Gutierrez, Miguel A. Lopez-Gonzalez (presenter), Jose L Soto-Hernandez, National Institute of Neurology and Neurosurgery (Mexico City), The Cleveland Clinic Foundation (Cleveland, OH)

029 COMPARATIVE OUTCOME ANALYSIS OF SURGICAL PROCEDURES PERFORMED IN ACUTE AND INTERMEDIATE FACIAL PARALYSIS – Yury A. Shulev (presenter), Alexander V. Trashin, Vladimir L. Rychkov, City Hospital #2, Medical Academy of Postgraduate Studies, Saint-Petersburg, Russia

030 EXTRACRANIAL TO INTRACRANIAL BYPASS FOR TREATMENT OF COMPLEX, LARGE AND GIANT ANEURYSMS OF THE MIDDLE CEREBRAL ARTERY: AN ANALYSIS OF 27 YEARS OF EXPERIENCE IN 26 PATIENTS – Yashar Kalani (presenter), Peter Nakaji, Yin Hu, Azam Ahmed, Robert Spetzler, Barrow Neurological Institute


032 EARLY MORNING CORTISOL LEVELS AS PREDICTORS OF SHORT AND LONG-TERM ADRENAL FUNCTION AFTER ENDONASAL TRANSSPHENOIDAL SURGERY FOR PITUITARY ADENOMAS AND RATHKE’S CLEFT CYSTS – Nancy McLaughlin (presenter), Pejman Cohan, Philip Barnett, Amy Eisenberg, Charlene Chaloner, Daniel F. Kelly, Brain Tumor Center, John Wayne Cancer Institute at Saint John’s Health Center, Santa Monica, CA; Department of Medicine, UCLA School of Medicine, Los Angeles, CA

3:30 pm – 4:00 pm Break in Exhibit Hall

4:00 pm – 5:30 pm PROFFERED PAPER SESSIONS

Proffered Paper Session V: H&N Tumors, Endoscopic Techniques – MODERATORS: Ricardo Carrau, MD & Alex Vandergrift, MD

033 ENDOSCOPIC ENDONASAL TRANSPTERYGOID NASOPHARYNGECTOMY – S. Al-Sheibani, A. Zanation, R. L. Carrau (presenter), D. M. Prevedello, C. H. Snyderman, B. A. Otto, M. Old, The Ohio State University Medical Center, University of North Carolina, University of Pittsburgh, University of Ottawa


035 CHONDROSARCOMAS OF THE HEAD AND NECK: A 50 YEAR REVIEW – James P O’Neill (presenter), Justin Elder, Jeffrey C. Liu, Ian Garly, Snehel Patel, Mark Bilsky, Dennis Kraus, Jatin P Shah, Memorial Sloan Kettering Cancer Center

036 SMALL MOLECULE INHIBITOR OF CBP/BETA-CATENIN SIGNALING ENHANCED RADIATION SENSITIVITY IN HEAD AND NECK SQUAMOUS CELL CARCINOMA – Vicky Yamamoto (presenter), Rohit Khanna, Michael Kahn, Vijay Kalra, Uttam Sinha, Keck School of Medicine of USC

037 INCIDENCE AND TIMING OF NECK METASTASES IN ESTHESIONEUROBLASTOMA – Victoria E. Banuchi (presenter), Luc Morris, Mark H. Bilsky, Jatin P. Shah, Dennis H. Kraus, Head and Neck Service, Memorial Sloan Kettering Cancer Center, New York, NY

038 THE USE OF RADIOFREQUENCY ABLATION FOR THE REMOVAL OF JUVENILE NASOPHARYNGEAL ANGIOFIBROMA IN CHILDREN – Matthew Whiteley (presenter), Brian Dunham, Ken Kazahaya, Children’s Hospital of Philadelphia

039 LOSS OF PTEN EXPRESSION IN SINONASAL SQUAMOUS CELL CARCINOMA – Michelle D. Williams (presenter), Diana Bell, Ehab Y. Hanna, University of Texas MD Anderson Cancer Center

040 ENDOSCOPIC ENDONASAL TRANSCRIBIFORM APPROACH FOR ANTERIOR SKULL BASE TUMORS INVOLVING THE CRIBRIFORM PLATE: INDICATIONS, TECHNIQUES, AND RESULTS IN 13 PATIENTS – Smruti K. Patel, Mickey L. Smith, Osamah J. Choudhry, Jean Anderson Eloy, James K. Liu (presenter), Center for Skull Base Surgery, Neurological Institute of New Jersey, Department of Neurological Surgery, Division of Otolaryngology, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, New Jersey

041 NAVIGATED TRANSCONJUNCTIVAL ENDOSCOPIC APPROACHES TO THE ORBIT – Guenther C. Feigl, Boris Krischek (presenter), Rainer Ritz, Kristofer Ramina, Andreas Korn, Marcos Tutarigiba, University Hospital Tuebingen, Department of Neurosurgery, Department of Neuroradiology, Tuebingen, Germany
Proffered Paper Session VI: **Innovative Technologies** – MODERATORS: Ricky Madhok, MD & Eric Wang, MD

- **033 ENDOSCOPIC ENDONASAL TRANSPTERYGOID NASOPHARYNGECTOMY** – S. Al-Sheibani, A. Zanation, R. L. Carrau (presenter), D. M. Prevedello, C. H. Snyderman, B. A. Otto, M. Old, The Ohio State University Medical Center, University of North Carolina, University of Pittsburgh, University of Ottawa

- **034 PROTON THERAPY OF CANCERS OF THE NASAL CAVITY AND PARANASAL SINUSES** – The UFPTI EXPERIENCE – Robert S. Malyapa (presenter), William M. Mendenhall, Daniel Yeung, Craig McKenzie, Zaofeng Li, Chris G. Morris, Nancy P. Mendenhall, Paul Okunieff, University of Florida Proton Therapy Institute, Jacksonville, Florida, USA

- **035 CHONDROSARCOMAS OF THE HEAD AND NECK: A 50 YEAR REVIEW** – James P O’Neill (presenter), Justin Elder, Jeffrey C. Liu, Ian Ganly, Snehl Patel, Mark Bilsky, Dennis Kraus, Jatin P. Shah, Memorial Sloan Kettering Cancer Center

- **036 SMALL MOLECULE INHIBITOR OF CBP/BETA-CATENIN SIGNALLING ENHANCED RADIATION SENSITIVITY IN HEAD AND NECK SQUAMOUS CELL CARCINOMA** – Vicky Yamamoto (presenter), Rohit Khanna, Michael Kahn, Vijay Kalra, Uttam Sinha, Keck School of Medicine of USC

- **037 INCIDENCE AND TIMING OF NECK METASTASES IN ESTHESIONEUROBLASTOMA** – Victoria E. Banuchi (presenter), Luc Morris, Mark H. Bilsky, Jatin P. Shah, Dennis H. Kraus, Head and Neck Service, Memorial Sloan Kettering Cancer Center, New York, NY

- **038 THE USE OF RADIOFREQUENCY ABLATION FOR THE REMOVAL OF JUVENILE NASOPHARYNGEAL ANGIOFIBROMA IN CHILDREN** – Matthew Whiteley (presenter), Brian Dunham, Ken Kazahaya, Children’s Hospital of Philadelphia

- **039 LOSS OF PTEN EXPRESSION IN SINonasal SQUAMOUS CELL CARCINOMA** – Michelle D. Williams (presenter), Diana Bell, Ehab Y. Hanna, University of Texas MD Anderson Cancer Center

- **040 ENDOSCOPIC ENDONASAL TRANSCRIBIFORM APPROACH FOR ANTERIOR SKULL BASE TUMORS INVOLVING THE CRIBIFORM PLATE: INDICATIONS, TECHNIQUES, AND RESULTS IN 13 PATIENTS** – Smruti K. Patel (presenter), Mickey L. Smith, Osamah J. Choudhry, Jean Anderson Eloy, James K. Liu, Center for Skull Base Surgery, Neurological Institute of New Jersey, Department of Neurological Surgery, Division of Otolaryngology, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, New Jersey

- **041 NAVIGATED TRANSCONJUNCTIVAL ENDOSCOPIC APPROACHES TO THE ORBIT** – Guenther C. Feigl (presenter), Boris Krischek, Rainer Ritz, Kristofer Ramina, Andreas Korn, Marcos Tutagiba, University Hospital Tuebingen, Department of Neuroradiology, Tuebingen Germany

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Proffered Paper Session VII: **Meningioma** – MODERATORS: Ketan Bulsara, MD & Melvin Field, MD

- **051 POSTERIOR CAVERNOUS ANTERIOR TRANSPETROSAL POSTEROMEDIAL RHOMBOID (DOLENC-KAWASE RHOMBOID) APPROACH TO POSTERIOR CAVERNOUS AND PTEROCLIVAL LESIONS** – SURI ASHISH (presenter), All India Institute of Medical Sciences, New Delhi, India

- **052 IDENTIFYING RNA AND PROTEIN EXPRESSION PROFILE OF BONE INVADING AND NON-INVADING MENINGIOMAS** – Shahrzad Jalali, Takaumi Wataya, Sidney Croul, Gelareh Zadeh (presenter), Division of Neurosurgery, Toronto Western Hospital, University of Toronto

- **053 MENINGIOMAS INVOLVING THE DURAL VENOUS SINUSES: SURGICAL OUTCOME IN 118 PATIENTS** – George Al shamy (presenter), Loyola Gressot, Dima Sukil, Raymond Sawaya, Franco Demonte, Nicholas B Levine, The department of neurosurgery at The University of Texas M. D. Anderson Cancer Center and Baylor College of Medicine

- **054 LONG-TERM OUTCOMES OF SURGICAL TREATMENT AND PREDICTING THE PROBABILITY OF SKULL BASE MENINGIOMAS RECURRENT** – Yury A Shulev (presenter), Ovanes R Akobyan, City Hospital # 2, Medical Academy of Postgraduate Studies, Saint-Petersburg, Russia

- **055 CLINICAL CHARACTERISTICS AND SURGICAL MANAGEMENT OF MENINGIOMAS INVADING DURAL SINUSES** – Joshua W. Osbun (presenter), Alessandra Mantovani, Salvatore DiMaio, Michael R. Levitt, Manuel Ferreira, Laligam N. Sekhar, The University of Washington, Department of Neurological Surgery

- **056 BONE INVASION IN SKULL BASE MENINGIOMAS RESECTED BY EXPANDED ENDONASAL ENDOSCOPIC APPROACHES** – Leo F. Ditzel Filho (presenter), Danielle de Lara, Rodrigo C Mafaldo, Matthew O. Old, Bradley A. Otto, Ricardo L. Carrau, Daniel M. Prevedello, Departments of Neurosurgery and Otolaryngology, The Ohio State University

- **057 COMPUTER AIDED VOLUMETRIC ANALYSIS AS A SENSITIVE TOOL FOR THE MANAGEMENT OF INCIDENTAL MENINGIOMAS** – Victor Chang (presenter), Jack Rock, Henry Ford Hospital

- **058 EVALUATION OF MOLECULAR ALTERATIONS IN PTEROCLIVAL MENINGIOMAS AND THEIR CORRELATION WITH EXTENT OF TUMOUR RESECTION** – Vaishali Suri (presenter), Sawan Kumar, Laxmi Mohan, Utkarsh Bhagat, Ashish Suri, MC Sharma, Chitra Sarkar, All India Institute of Medical Sciences

- **059 PTEROCLIVAL MENINGIOMAS** – Ibrahim Sbeih (presenter), Ibn Alhytham Hospital

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Proffered Paper Session VIII: **Rehab, Temp Bone** – MODERATORS: Peter Costantino, MD & Giovanni Daneli, MD

- **060 FACIAL REANIMATION WITH MASSETERIC-FACIAL NERVE ANASTOMOSIS FOLLOWING SKULL BASE SURGERY** – Nobutaka Yoshioka (presenter), Saiseikai Nakatsu Hospital
061 DETAILED ANALYSIS OF NEUROLOGICAL STATUS AND FUNCTIONAL OUTCOME AFTER SPINAL ACCESSORY NERVE-FACIAL NERVE ANASTOMOSIS: COMPARISON VERSUS OTHER REINNERVATION PROCEDURES IN REPORTED SERIES – Alexander V Trashin (presenter), Yury A Shulev, Vladimir L Rychkov, City Hospital #2, Medical Academy of Postgraduate Studies, Saint-Petersburg, Russia

062 MICROVASCULAR FREE TISSUE TRANSFER FOR FACIAL REANIMATION OF THE PARALYZED FACE – Amy L. Pittman (presenter), John P. Leonetti, Sam J. Marzo, Douglas Anderson, Darl Vandevender, Richard Borrowdale, Loyola University Medical Center

063 PRACTICAL APPROACH TO MICROVASCULAR RECONSTRUCTION OF SIGNIFICANT SKULL BASE DEFECTS – Matthew Old, Kiran Kakarala (presenter), Amrit Agrawal, Enver Ozer, Ricardo Carrua, Mario Ammirati, Daniel Prevedello, Theodoros Teknos, The Ohio State University

064 GRADING FACIAL NERVE FUNCTION FOLLOWING COMBINED STATIC AND MIMETIC SURGICAL TECHNIQUES – Joshua M. Sappington (presenter), John P. Leonetti, Sam J. Marzo, Douglas Anderson, Loyola University Medical Center

065 MAGNETIC RESONANCE IMAGING AFTER TRANSLABYRINTHINE COMPLETE EXCISION OF VESTIBULAR SCHWANNOMAS – James R. Tysome (presenter), David A. Moffat, Cambridge University Hospitals

066 ENDOSCOPIC ENDONASAL APPROACH TO CHOLESTEROL GRANULOMAS OF THE PETROUS APEX: A SERIES OF 17 PATIENTS – Alessandro Paluzzi (presenter), Matthew Tormenti, Maria Koutourousiou, Carlos D. Pinheiro-Neto, Juan C. Fernandez-Miranda, Paul Gardner, Carl Snyderman, Center for Skull Base Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA

067 COMPARATIVE ANALYSIS OF THE TRANSCRANIAL “FAR LATERAL” VERSUS THE ENDOSCOPIC ENDONASAL “FAR MEDIAL” APPROACH: SURGICAL ANATOMY AND CLINICAL ILLUSTRATION – Arnau F. Benet, Daniel M. Prevedello, Jordina Rincon-Torroella, Ricardo L. Carrua, Juan Carlos Fernandez-Miranda, Leo F. Ditzel Filho (presenter), Alberto Prats-Galino, Amin B. Kassam, Departments of Neurosurgery and Otolaryngology, University of Pittsburgh/The Ohio State University, USA, University of Ottawa, Canada, Surgical Neuroanatomy Lab, University of Barcelona, Spain

5:30 pm – 7:00 pm Welcome Reception in Exhibit Hall Mezzanine

SATURDAY, FEBRUARY 18, 2012

6:30 am – 7:00 am Breakfast/Registration

7:00 am – 8:00 am BREAKFAST SEMINARS

#5: Otology – MODERATOR: John Golfinos, MD, PANELISTS: Roberto Cueva, MD, John Leonetti, MD & J. Thomas Roland, MD Sunset 2

#6: Trauma – MODERATOR: Timothy McCulloch, MD, PANELISTS: Paul Donald, MD, Bob Kellman, MD & Chris Rassekh, MD Sunset 3/4

#7: Intracranial – MODERATOR: Anand Germanwala, MD, PANELISTS: Fred Gentili, MD & Daniel Pieper, MD Sunset 5/6

#8: Brain Tumor – MODERATOR: Alex Vandergrift, MD, PANELISTS: Ossama Al-Mefty, MD & Carl Hardwidge, MD Celebrity 1/2

8:05 am – 10:30 am PLENARY SESSION II

8:05 am: Keynote Lecture #2: The Impact of Emerging Technologies on Skull Base Surgery – Steve Charles, MD

9:00 am: Keynote Lecture #3: Robotic Nasopharyngectomy – William Wei, MD

9:30 am: Skull Base Jeopardy

MODERATOR: John Golfinos, MD, JUDGES: Juan Fernandez-Miranda, MD, Daniel Fliss, MD & Albert Rhoton, MD

TEAM #1: Harshita Pant, MD, Jatin Shah, MD, PhD & Steve Sullivan, MD

TEAM #2: John Y. K. Lee, MD, James Liu, MD, William Wei, MD & Lee Zimmer, MD

TEAM #3: Emiro Caicedo, MD, Daniel Kelly, MD & Laligam Sekhar, MD

TEAM #4: Fred Gentili, MD, Erin McKean, MD & Arturo Solares

10:25 am: Skull Base Journal Update

10:30 am – 11:00 am Break in Exhibit Hall Mezzanine

11:00 am – 12:00 pm CONCURRENT SESSIONS

#9: Ophthalmology Potpourri

MODERATOR: Steven Newman, MD, PANELISTS: Mario Ammirati, MD, Peter Cordeiro, MD & Howard Krauss, MD Sunset 2

#10: Intracranial: Managing Risk: Chordoma (Consensus Panel) – MODERATOR: Paul Gardner, MD

PANELISTS: Ossama Al-Mefty, MD, Norbert Liebsch, MD, Laligam Sekhar, MD & Chandra Sen, MD Celebrity 1/2

#11: Extracranial – MODERATOR: Anand Deviah, MD

PANELISTS: Vijay Anand, MD, Pete Batra, MD, Derrick Lin, MD, Eric Wang, MD & Adam Zanation, MD Sunset 3/4

#12: Proffered Papers IX: Sellar SupraSellar – MODERATORS: Marvin Bergsneider, MD & Trevor Hackman, MD Sunset 5/6

068 LONG-TERM QUALITY OF LIFE OUTCOMES IN MINIMALLY INVASIVE PITUITARY SURGERY – Rounak B. Rawal (presenter), Adam M. Zanation, Brent A. Senior, Matthew G. Ewend, Charles S. Ebert, Department of Otolaryngology/Head and Neck Surgery and Division of Neurosurgery, University of North Carolina Hospitals

069 WEIGHT PROFILE IN CHILDREN FOLLOWING ENDOSCOPIC ENDONASAL APPROACH TO CRANIOPHARYNGIOMA – Kimberly Foster, Maria Koutourousiou, Matthew Tormenti, Nii Addo, Carl Snyderman, Elizabeth Tyler-Kabara (presenter), Paul Gardner, University of Pittsburgh Department of Neurosurgery
070 HIGH INCIDENCE OF DURAL TUMOR INFILTRATION IN ENDOCRINE ACTIVE PITUITARY TUMORS WITHOUT MRI EVIDENCE OF Cavernous Sinus Invasion – Marvin Bergsneider (presenter), Marilene B. Wang, Jeffrey Suh, Anthony Heaney, Tracie Pham, William Yong, UCLA

071 SHORT-TERM RISK OF RECURRENT OF SURGICALLY TREATED, RADIOTHERAPY-NAIVE PITUITARY ADENOMAS – Mark P. Piedra (presenter), Nicholas D. Coppa, Aclan Dogan, Chris Yedinak, Jessica Brzana, Peter E. Andersen, Johnny B. Delashaw, Maria Fleseriu, Oregon Health & Science University

072 THE RELEVANCE OF ACTH MONITORING DURING SURGICAL MANAGEMENT OF CUSHING’S DISEASE – Daniel M. Prevedello, Danielle de Lara (presenter), Leo F.S. Ditzel Filho, Rodrigo C. Mafalda, Bradley A. Otto, Ricardo L. Carrau, The Ohio State University Medical Center

073 PREDICTIVE VALUE OF EARLY POSTOPERATIVE GROWTH HORMONE LEVELS IN DETERMINING LONG-TERM BIOCHEMICAL CURE OF ACMOMEGLY – Tyler J. Kenning (presenter), Peter G. Campbell, Christopher Farrell, David Beahm, Madeline Schaberg, Intekhab Ahmed, Marc Rosen, James J. Evans, Thomas Jefferson University

12:00 pm – 1:00 pm  Lunch in Exhibit Hall

1:00 pm – 2:00 pm  CONCURRENT SESSIONS

#13: Otology: Temporal Bone Resection (Consensus Panel) – MODERATOR: Barry Hirsch, MD  Sunset 2
  PANELISTS: Derald Brackmann, MD, Giovanni Danesi, MD, Norbert Liebsch, MD & Chandra Sen, MD

#14: Intracranial – MODERATOR: Juan Carlos Fernandez-Miranda, MD, PANELISTS: Melvin Field, MD & Daniel Kelly, MD  Sunset 3/4

#15: Quality of Life  Sunset 5/6
  MODERATOR: Harshita Pant, MD, PANELISTS: Ziv Gil, MD, Stephen Haines, MD & Allan Vescan, MD

#16: Diagnostic Dilemmas  Celebrity 1/2
  MODERATOR: James Evans, MD, PANELISTS: Ketan Bulsara, MD, Benjamin Judson, MD, Snehal Patel, MD & Marc Rosen, MD

2:00 pm – 3:30 pm  PROFFERED PAPER SESSIONS

Proffered Papers X: Anatomy – MODERATORS: Juan Carlos Fernandez-Miranda, MD & Arturo Solares, MD  Celebrity 1/2


075 THE ARTERY OF DAVIDOFF AND SCHLECHTER: AN ANATOMICAL STUDY – Christoph J. Griessenauer (presenter), Martin M. Mortazavi, Shane R. Tubbs, University of Alabama at Birmingham

076 THE ARTERY OF PERCHERON: AN ANATOMICAL STUDY – Christoph J. Griessenauer (presenter), Martin M. Mortazavi, Shane R. Tubbs, University of Alabama at Birmingham

077 SECOND STAGE IN PREDICATIVE MEASURE FOR TRANSNasAL TRANSphenoidal APPROACH TO PETROUS APEX CHOLESTEROL GRANULOMA – Angela M. Donaldson (presenter), Naol Shoman, Jeffrey Ksiazek, Myles L. Pensak, Lee A. Zimmer, University of Cincinnati Medical Center

078 ACCESSING THE PARAPHARYNGEAL SPACE: AN ANATOMICAL STUDY COMPARING THE ENDOSCOPIC ENDonasal AND THE SUBtempORAL PreaUricular APPROACHES – Jason Van Rompaey, Marcos Francisco Mirambeaux Casso (presenter), C. Arturo Solares, Georgia Health Sciences University, Department of Otolaryngology, Georgia Skull Base Center, Hospital General Plaza De La Salud - Dominican Republic

079 MAPPING OF TANSVERSE AND SIGMOID SINUS JUNCTION: APPLICATION IN VERTICAL EXTENSION OF SUBoccipital CRANIOTOMY – Ashish Song (presenter), Jai Deep Thakur, Imad Khan, Sashikanth Patil, Cedric Shorter, Anil Nanda, Bharat Bharat Guthikonda, Department of Neurosurgery, Louisiana State University, Shreveport

080 MINIMALLY INVASIVE ACCESS TO THE POSTERIOR CRANIAL FOSSA: AN ANATOMICAL STUDY COMPARING A RETROSigmoidal ENDOSCOPIC APPROACH TO A MICROscoPIC APPROACH – Jason Van Rompaey (presenter), Carrie Bush, Brian McKinnon, C. Arturo Solares, Georgia Health Sciences University, Department of Otolaryngology, Georgia Skull Base Center

081 MENINGIOMAS OF THE CEREBELLOPONTINE ANGLE: APPROACHES AND OUTCOMES – Tarik F. Ibrahim (presenter), John A. Braco, Avinash Y. Mantravadi, Andrew Mueller, John P. Leonetti, Douglas E. Anderson, Loyola University Medical Center

082 ENDOscopIC ENDOnasal SKull BASE surgerY IN tHe PediatRic PoPulaTion – Srinivas Chivukula, Maria Koutourousiou (presenter), Carl H Snyderman, Paul A. Gardner, Elizabeth C Tyler-Kabara, University of Pittsburgh School of Medicine, Department of Neurological Surgery

Proffered Papers XI: Radiosurgery – MODERATORS: John Leonetti, MD & Thomas Roland, MD  Sunset 2

083 COCHLEAR RADIATION DOSE DOES NOT PREDICT HEARING LOSS AFTER SRS FOR GLOMUS JUGULARE TUMORS – Bradley C. Lega, James Stephen (presenter), Michael Ruckinstein, Douglas Bigelow, Michele Alonso-Basanta, Jay Dorsey, John Y. Lee, University of Pennsylvania
<table>
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<tr>
<th>Proffered Papers XII: Vascular Lesions – MODERATORS: Anand Germanwala, MD &amp; James Liu, MD</th>
<th>Sunset 3/4</th>
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<tr>
<td><strong>092</strong> TRANSCRANIAL EXPOSURE OF LARGE DURAL VENOUS SINUSES FOR DIRECT TRANSVENOUS EMBOLIZATION OF HIGH-GRADE DURAL ARTERIOVENOUS FISTULAS – James K Liu (presenter), Osamah J Choudhry, Aclan Dogan, Stanley Barnwell, Johnny Delashaw, Jr., Center for Skull Base and Pituitary Surgery, Neurological Institute of New Jersey, Newark, NJ</td>
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<td><strong>093</strong> META-ANALYSIS OF PUBLISHED DATA ON OUTCOME OF ENDOSCOPIC VERSUS OPEN MANAGEMENT OF JUVENILE NASOPHARYNGEAL ANGIOPHIBROMAS – Ashutosh Kacker (presenter), Joshua Halpern, Jeffery Liu, Theodore H Schwartz, Michael G Stewart, Weill Cornell Medical College, New York, NY, USA</td>
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<td><strong>094</strong> SKULL BASE APPROACHES TO POSTERIOR CIRCULATION ANEURYSMS-A SINGLE SURGEON EXPERIENCE FROM LOUISIANA STATE UNIVERSITY, SHREVEPORT – Ashish Sonig (presenter), Anirban deep banerjee, Imad khan, ANIL NANDA, Department of neurosurgery, Louisiana state university, Shreveport</td>
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<td><strong>095</strong> DISSECTING CIRCLE OF WILLIS ARTERIES VIA ENDOSCOPIC ENDOBASCAL TECHNIQUES – Anand V Germanwala (presenter), Adam M Zanation, Murray Ramanathan, Johns Hopkins School of Medicine, University of North Carolina School of Medicine</td>
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<td><strong>096</strong> SUPRAORBITAL KEY HOLE APPROACH FOR ANEURYSM – Ali Ayyad (presenter), Martin Glaser, department of neurosurgery, Johannes gutenberg university</td>
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<td><strong>097</strong> TECHNICAL NUANCES OF TEMPORAL MUSCLE DISSECTION AND RECONSTRUCTION FOR THE PTERIONAL KEYHOLE CRANIOTOMY – Nancy McLaughlin (presenter), Neil A Martin, Department of Neurosurgery, David Geffen School of Medicine at UCLA</td>
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<td><strong>098</strong> VASCULAR LESIONS OF THE SKULL BASE: CORRELATION WITH IMAGING – Elon Granader (presenter), Ashok Srinivasan, University of Michigan Hospital and Health Systems</td>
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<td><strong>099</strong> WHAT THE BEST APPROACH? A CADAVER-BASED ANATOMIC COMPARISON OF THE IPSILATERAL AND CONTRALATERAL APPROACH TO SUPERIOR HYPOPHYSEAL ARTERY ANEURYSMS – Brian D Milligan (presenter), John Roufail, Gregory Anderson, Johnny B Delashaw, Oregon Health and Science University</td>
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<td><strong>100</strong> EXTRADURAL TRANSCAVERNOUS APPROACH TO CAVERNOUS SINUS HEMANGIOMAS: SERIES OF 12 CASES – Ashish Suri (presenter), All India Institute of Medical Sciences, New Delhi, India</td>
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<tr>
<th>Proffered Papers XIII: Otology – MODERATORS: Rick Friedman MD, PhD &amp; Barry Hirsch, MD</th>
<th>Sunset 5/6</th>
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<tr>
<td><strong>101</strong> SURGICAL SALVAGE OF ACOUSTIC NEUROMA AFTER FAILED RADIATION TREATMENT – Rick A Friedman (presenter), Karen Berliner, Marc Bassim, Joseph Uisic, Marc S Schwartz, Derald E Brackmann, House Clinic and House Research Institute</td>
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<td><strong>102</strong> FACIAL NERVE SCHWANNOMAS OF THE CEREBELLOPONTINE ANGLE: THE MAYO CLINIC EXPERIENCE – Jeffrey T Jacob (presenter), Colin L Driscoll, Michael J Link, Mayo Clinic</td>
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<td><strong>103</strong> THE LEARNING CURVE FOR SURGICAL RESECTION OF VESTIBULAR SCHWANNOMA – Tamir Ailon (presenter), Ryojo Akagami, University of British Columbia</td>
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<td><strong>104</strong> IMPORTANCE OF LOW AMPLITUDE POSITIVE FACIAL NERVE STIMULATION FOLLOWING CP ANGLE TUMOR SURGERY – Bharat Guthikonda (presenter), Cedric Shorter, Jai Thakur, Jamie Toms, Anil Nanda, LSU HSC Shreveport</td>
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3:30 pm – 4:00 pm  Break in Exhibit Hall  
4:00 pm – 5:30 pm  PROFFERED PAPER SESSIONS  

Proffered Papers XIV: Anterior Cranial Base – MODERATORS: Erin McKeen, MD & Steve Sullivan, MD  

110 PATTERNS OF DURAL INVOLVEMENT IN ANTERIOR SKULL BASE TUMORS: PROSPECTIVE CORRELATION OF MRI AND HISTOPATHOLOGIC FINDINGS – Pete S Batra (presenter), John B McIntyre, Carlos L Perez, Mudrula Penta, Liuye Tong, John Truelson, University of Texas Southwestern Medical Center  

111 OUTCOMES OF ENDOSCOPIC ENDONASAL RESECTION OF ESTHESIONEOBLASTOMA – Carlos D Pinheiro-Neto (presenter), Raj Dedhia, Eric Wang, Ricardo L Carrau, Juan C Fernandez-Miranda, Paul A Gardner, Carl H Snyderman, University of Pittsburgh; Ohio State University  

112 COMPUTER MODELED MULTIPORTAL APPROACHES TO THE SKULL BASE – Randall A Bly (presenter), David Su, Manual Ferreira, Kris S Moe, University of Washington School of Medicine, Departments of Otolaryngology and Neurological Surgery, Seattle, Washington  

113 ESTHESIONEOBLASTOMA: UPDATING HISTOLOGIC GRADING AS IT RELATES TO PROGNOSIS – Kelly Gallagher (presenter), Jon Paul Pepper, Emily Light, Erin McKeen, Lawrence Marentette, Jonathan McHugh, University of Michigan  

114 POSTOPERATIVE PERFORMANCE STATUS WITH THE ANTERIOR SUBCRANIAL APPROACH – Andrew G Shuman, Stephen Y Kang (presenter), Jason A Heth, Stephen E Sullivan, Lawrence J Marentette, University of Michigan  

115 “THE ORBITAL ANGLE” – UNDERSTANDING THE ROLE OF SKULL BASE TOPOGRAPHY IN DETERMINING ACCESS TO THE MIDLINE VIA A SUPRAORBITAL CRANIOTOMY – Shaan M Raza (presenter), Alfred P See, Sandra Ho, Alfredo Quinones-Hinojosa, The Johns Hopkins University  

116 EFFICACY AND SAFETY OF FRONTAL SINUS CRANIALIZATION – Gilad Horowitz (presenter), Nevo Margalit, Moran Amit, Ziv Gil, Dan M Fliss, Tel Aviv Sourasky Medical Center, Tel Aviv University  

117 THE TRANSCONJUNCTIVAL TRANSORBITAL APPROACH: A NEW KEYHOLE APPROACH TO THE MIDLINE ANTERIOR SKULL BASE – Shaan M Raza (presenter), Alfredo Quinones-Hinojosa, Kofi D Boahene, The Johns Hopkins University  

118 AN ANALYSIS OF 114 CASES OF SKULL BASE ASPERGILLOSION OVER A DECADE Sandeep Mohindra (presenter), Satyawati Mohindra, Sunil Gupta, Postgraduate Institute of Medical Education and Research, Chandigarh, India  

Proffered Papers XV: Endoscopic Techniques – MODERATORS: Paul Gardner, MD & Adam Zanation, MD  

119 SURGICAL MANAGEMENT OF SKULL BASE ENCEPHALOCELES – Daniel M Prevedello, Danielle de Lara (presenter), Leo F S Ditze Filho, Rodrigo C Mafaldão, Bradley A Otto, Ricardo L Carrau, The Ohio State University Medical Center  

120 RETROSPECTIVE COHORT STUDY OF ENDOSCOPIC VERSUS MICROSCOPIC VASCULAR DECOMPRESSION – Maxwell B Merkow (presenter), Daniel Kramer, John Y K Lee, University of Pennsylvania  

121 COMPLICATIONS ASSOCIATED WITH A TRANSPTERYGOID APPROACH TO MENINGEOENCEPHALOCELE REPAIR – Nadieska Caballero (presenter), Kevin Welch, Lauren Lingenier, Loyola University Medical Center  

122 ENDOSCOPIC APPROACH TO LATERAL SPHENOID ENCEPHALOCELES ORIGINATING IN STERNBERG’S CANAL – Deepak R Dugar (presenter), Rounak Rawal, Brent Senior, Charles S Ebert, Jr, Adam M Zanation, Department of Otolaryngology-Head and Neck Surgery, The University of North Carolina, Chapel Hill, NC, USA  

123 CRITICAL APPRAISAL OF EXTENT OF RESECTION OF CLIVAL LESIONS USING THE EXPANDED ENDOSCOPIC ENDONASAL APPROACH – Aaron R Cutler (presenter), Marilene Wang, Jeffrey Suh, Marvin Bergsneider, UCLA Medical Center Department of Neurosurgery and Division of Otolaryngology
7:00 pm – 10:00 pm Social Event
It's an offer you can't refuse... Come by the juice joint for a flapper-style fling. Provide the password and travel back in time for an evening filled with moonshine, jazz and Charleston dancers. Whisper "Skull Base" to enter. Zoot suits and fedoras encouraged.
SUNDAY, FEBRUARY 19, 2012
7:30 am – 8:00 am  Breakfast/Registration
8:00 am – 9:00 am  CONCURRENT SESSIONS

#17: Training  – MODERATOR: Daniel Nuss, MD, PANELISTS: Anil Nanda, MD, Jakakar Nayak, MD & Ian Witterick, MD  
Sunset 3/4

#18: Perineural Invasion  – MODERATOR: Richard Wong, MD
PANELISTS: Ehab Hanna, MD, Chris Rassekh, MD & C. Arturo Solares, MD  
Sunset 5/6

Proferred Papers XVIII: Reconstruction  – MODERATORS: Amir Dehdashti, MD & Ziv Gill, MD  
Sunset 5/6

148 PROPOSED CLASSIFICATION FOR SKULL BASE RECONSTRUCTION AFTER ENDOSCOPIC ENDONASAL SURGERY – Amir R. Dehdashti (presenter), Geisinger Neurosciences Institute

149 BARRIER-LIMITED MULTIMODALITY CLOSURE FOR RECONSTRUCTION OF WIDE SELLOAR OPENINGS – Aaron R. Cutler (presenter), Kai Xue, Jeffrey D. Suh, Marilene B. Wang, Marvin Bergsneider, Department of Neurosurgery and Division of Head and Neck Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA. Neurosurgery Department of Tianjin Huanhu Hospital, Tianjin, China


9:00 am – 10:00 am  CONCURRENT SESSIONS

#19: Cranial Reconstruction  
MODERATOR: Lawrence Marentette, MD, PANELISTS: Peter Costantino, MD, Trevor Hackman, MD, Kris Moe, MD & Mark Varvares, MD  
Celebrity 1/2

#20: Keynote/Panel/Tumor Board etc: “Sometimes, it is better to say no: Deciding when NOT to operate”  
MODERATOR: Amir Dehdashti, MD, PANELISTS: Paul Donald, MD, Fred Gentili, MD & Daniel Nuss, MD  
Celebrity 1/2

Proferred Papers XIX: General  – MODERATORS: Harshita Pant, MD & Daniel Pieper, MD  
Sunset 5/6

142 PRE-OPERATIVE LUMBAR DRAIN PLACEMENT IN ANTERIOR SKULL BASE SURGERY – Paul D. Ackerman, Drew A. Spencer (presenter), Vikram C. Prabhu, Loyola University Medical Center

143 ENDOSCOPIC ASSISTED MICROSURGICAL APPROACH FOR ANTERIOR SKULL BASE LESIONS  – Ali Ayyad (presenter), Jens Conrad, Department of Neurosurgery, Johannes Gutenberg University

144 “ROUND THE CLOCK” SURGICAL ACCESS TO THE ORBIT  – Alessandro Paluzzi (presenter), Matthew Tormenti, Maria Koutourousiou, Susan Steffo, Juan C. Fernandez-Miranda, Paul Gardner, Carl Snyderman, Joseph Maroon, Center for Skull Base Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA


146 THE CLINICAL IMPORTANCE OF QUALITY OF LIFE SCORES IN PATIENTS WITH SKULL BASE TUMORS  – Moran Amit (presenter), Avraham Abergel, Dan M. Fliss, Nevo Margalit, Ziv Gil, Tel-Aviv Soursy Medical Center, Sackler School of Medicine, Tel Aviv University

147 THE TRANSPALATAL APPROACH TO REPAIR OF CONGENITAL BASAL SPENOETHMOIDAL MENINGOCELES – Stephen R. Hoff (presenter), Peter J Koltal, Northwestern University & Stanford University

10:00 am – 10:30 am  Break in Exhibit Hall  
Mezzanine

10:30 am – 12:00 pm  PLANERY SESSION  
Celebrity 1/2

3D Anatomy Talk – Juan Fernandez-Miranda, MD & Albert Rhoton, MD
154 ENDOSCOPIC CSF REPAIR – NECESSITY OF FIBRIN GLUE’ – Dr. Satyawati Mohindra (presenter), Dr. Sandeep Mohindra, Dr. Jagveer Yadav, Post Graduate Institute of Medical Education and Research

155 ANTERIOR CRANIAL FOSSA MENINGIOMA, OUTCOME OF SURGERY USING DIFFERENT SURGICAL APPROACHES – Sherif M. Elwadi (presenter), Zain Jamjoom, Walid Murshid, College of Medicine, King Saud University

156 MANAGEMENT OF PEDIATRIC NASAL DERMOMIS – Jeffrey Cheng (presenter), Kazahaya Ken, The Children’s Hospital of Philadelphia

157 CALCIFYING PSEUDONEOPLASM OF THE NEURAXIS (CAPNON) OF THE ANTERIOR SKULL BASE: REPORT OF A CASE – Aaron M. Fletcher (presenter), Patricia Kirby, Jeremy Greenlee, Erin K. O’Brien, University of Iowa

158 ISOLATED ORBITAL PLASMACYTOMA WITH PROGRESSION TO MULTIPLE MYELOMA: A CASE PRESENTATION – Vladimir Cortez (presenter), Blake Berman, Javed Siddiqi, Arrowhead Neurosurgical and Neurointerventional Institute, Arrowhead Regional Medical Center, Colton, CA

159 CRANIAl REPAIR OF A STERNBERG CANAL ENCEPHALOCELE FOLLOWING ATTEMPTED ENDOSCOPIC ENDONASAL REPAIR FAILURE – Regis Hoppenot (presenter), Andrew J. Fabiano, Nestor Rigual, Robert A. Fenstermaker, Roswell Park Cancer Institute; SUNY Buffalo School of Medicine

160 SCHWANNOMAS OF THE ANTERIOR SKULL BASE: ANALYSIS OF 41 CASES IN THE LITERATURE – Peter Sunaryo, Osamah J. Choudhry, Leroy Sharer, Jean Anderson Eloy, James K. Liu (presenter), Department of Neurological Surgery, University of Medicine and Dentistry of New Jersey - New Jersey Medical School, Newark NJ

161 PRIMARY EWING’S SARCOMA OF THE ETHMOID SINUS WITH INTRACRANIAL AND ORBITAL EXTENSION: CASE REPORT AND LITERATURE REVIEW – Mingsi Li (presenter), Aaron Hoschar; Thomas Budd, Samuel Chao, Joseph Scharpf, The Cleveland Clinic

162 META-ANALYSIS OF 75 CASES OF SINOSAL TERATOCAARCINOSARCOMA: A RARE NEOPLASM OF THE ANTERIOR SKULL BASE – Poornam Misra, Peter Sunaryo, Ada Baire, Neena Mirani, Jean Anderson Eloy, James K. Liu (presenter), Department of Neurological Surgery and Department of Otolaryngology, University of Medicine and Dentistry of New Jersey - New Jersey Medical School, Newark NJ

163 MULTIMODALITY TREATMENT OUTCOMES OF SINOSAL UNDIFFERENTIATED CARCINOMA OF THE SKULL BASE – Linda N Lee (presenter), Stacey T Gray, William Curry, Annie W Chan, John Clark, Eric H Holbrook, Daniel G Deschler, Derrick T Lin, Massachusetts Eye & Ear Infirmary/Massachusetts General Hospital Cranial Base Center; Department of Neurosurgery, Massachusetts General Hospital; Department of Radiation Oncology, Massachusetts General Hospital

164 ENDOSCOPIC ENDONASAL RESECTION OF A GROOVE MENINGIOMA WITH OLFACTORY PRESERVATION – Bradley A. Otto, Rodrigo C. Mafaldo, Danielle de Lara (presenter), Leo S. Ditzel Filho, Daniel M. Prevedello, Ricardo L. Carrau, The Ohio State University Medical Center; Columbus, OH


166 THE UNILATERAL ENDOSCOPIC ENDONASAL TRANSPHENOIDAL APPROACH TO THE PITUITARY: A RETURN TO THE BEGINNING FOR NASAL PRESERVATION – Madeleine R. Schaberg (presenter), Christopher J. Farrell, Mindy Rabinowitz, James J. Evans, Marc R. Rosen, The New York Eye and Ear Infirmary and Jefferson Medical College

167 THE SUPRAORBITAL APPROACH FOR REMOVAL OF INTRA-AXIAL FRONTAL BRAIN TUMORS: A TECHNICAL NOTE – Leo F. Ditzel Filho (presenter), Nancy McLaughlin, Damien Bresson, Domenico Solari, Amin B. Kassam, Daniel F. Kelly, Brain Tumor Center, John Wayne Cancer Institute at St. John’s Health Center, Santa Monica, CA, USA

168 SURGICAL DECOMPRESSION OF SKULL BASE AND ORBITAL PROSTATE METASTASIS – Miguel A. Lopez-Gonzalez (presenter), Gwynett Hughes, Benjamin Rosenbaum, Jorge A. Gonzalez-Martinez, The Cleveland Clinic Foundation

169 THE COMBINED USE OF PERICRANIAL FLAP AND TITANIUM MESH IN RECONSTRUCTION OF LARGE MEDIAL ORBITAL DEFECTS – Homere Al Moutran (presenter), David Hiltzik, Priyam Vyas, Peter Costantino, New York Head and Neck Institute - Lenox Hill Hospital

170 ENDONASAL ENDOSCOPIC SURGERY FOR ANTERIOR SKULL BASE PATHOLOGIES: A SINGLE CENTER’S INITIAL EXPERIENCE – Gary L. Gallia (presenter), Douglas D. Reh, Masaru Ishii, Johns Hopkins Hospital

171 STUDY OF THE NASOSEPTAL FLAP FOR ENDOSCOPIC ANTERIOR CRANIAL BASE RECONSTRUCTION – Carlos D. Pinheiro-Neto (presenter), Henrique F. Ramos, Peris-Celda Maria, Alessandro Paluzzi, Juan C. Fernandez-Miranda, Paul A. Gardner, Carl H. Snyderman, Luiz U. Sennes, University of Pittsburgh and University of Sao Paulo

172 COMBINED SURGICAL APPROACHES FOR SKULL BASE CHORDOMAS – Maria Koutourosuio (presenter), Stephanie L. Henry, Matthew J. Tormenti, Alexandre Paluzzi, Juan Fernandez-Miranda, Carl H. Snyderman, Paul A. Gardner, Department of Neurological Surgery and Department of Otolaryngology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

173 TREATMENT OF A CLIVAL CHORDOMA USING MAGNETIC RESONANCE GUIDED LASER INDUCED THERMAL THERAPY (LITT): CASE REPORT – James C. Barrere (presenter), Pinakin R. Jethwa, Eric L. Hargreaves, Anil M. Shetty, Shabbar F. Danish, 1) Department of Neurosurgery, UMDNJ - New Jersey Medical School, Newark, NJ, USA, 2) Division of Neurosurgery, UMDNJ - Robert Wood Johnson Medical School, New Brunswick, NJ, USA, 3) Visualase, Inc., Houston, TX, USA


175 ROLE OF DIFFUSION-WEIGHTED MRI IN CLIVAL CHORDOMA – Robert M Lober (presenter), Kristen W. Yeom, Nancy Fischbein, Michael S. Edwards, Griffith R. Harsh, Hannes Vogel, Bret Mobley, Stanford Hospitals and Clinics, Vanderbilt University Medical Center

176 ENDOSCOPIC-ASSISTED SUPRAORBITAL RETROINFUNDIBULAR APPROACH TO THE INTERPEDUNCULAR FOSSA: A CADAVERIC OPERABILITY STUDY – Chi-Tun Tang, Nishanta B. Baidiya (presenter), Mohamed A. Ragaee, Mario Ammirati, Department of Neurological Surgery; Ohio State University Medical Center; Columbus, Ohio
200 A VISUAL INTRODUCTION TO THE ADAPTATION OF THE PEDICLED FLAP IN ENDOSCOPIC RECONSTRUCTION OF CRANIAL BASE - Hooman Pebdani, Soroush Larjani, Idara Edem, Boris Krischek (presenter), Al Vescan, Fred Gentili, Gelareh Zadeh, University of Toronto

201 ENDOSCOPIC INFRATEMPORAL RESECTION AS AN ADJUNCT TO OPEN MIDDLE FOSSA APPROACH FOR RESIDUAL GRADE 2 INFRATEMPORAL FOSSA MENINGIOMA – Sarah Burgin (presenter), Sephen E. Sullivan, Erin L. McKeen, University of Michigan, Department of Otolaryngology, University of Michigan Department of Neurosurgery

202 ENDOSCOPIC RESECTION OF SOLITARY FIBROUS TUMOR OF THE ANTERIOR SKULL BASE – Phillip Chaffin (presenter), Mathew Hunt, Emiro Caicedo-Granados, University of Minnesota

203 MANAGEMENT AND TREATMENT OF ORBITAL Fungal SINUSITIS WITH INTRACRANIAL INVOLVEMENT – James K. Fortson (presenter), Paul King, Vijaykumar Patel, Gillian E. Lawrence, Morehouse School of Medicine

204 MRI FLAIR CHANGES IN TOTAL RESECTION OF OLFACTORY GROOVE MENINGIOMAS THROUGH EXPANDED ENDONASAL ENDOSCOPIC APPROACHES – Leo F. Ditzel Filho (presenter), Juan Carlos Fernandez-Miranda, Danielle de Lara, Bradley A. Otto, Amin B. Kassam, Ricardo L. Carrau, Daniel M. Prevedello, Departments of Neurosurgery and Otolaryngology, The Ohio State University, USA, Department of Neurosurgery, University of Pittsburgh, USA, Department of Neurosurgery, University of Ottawa, Canada

205 JUGULAR FORAMEN SYNDROME AS INITIAL PRESENTATION OF METASTATIC LUNG CANCER – D. M. Hayward (presenter), C. Morgan, J. Biller, B. Emami, V. C. Prabhu, Loyola University Medical Center

206 DIAGNOSIS AND MANAGEMENT OF NASOPHARYNGEAL BRANCHIAL CYSTS – Richard O. Wein (presenter), Tufts Medical Center

207 INFLAMMATORY PSEUDOTUMOR INVOLVING THE PARAPHARYNGEAL SPACE AND SKULL BASE – Sherief H. Garrana, Erin L. McKeen (presenter), Lawrence J. Marentette, University of Michigan

208 MANAGEMENT OF THE NASOLACRIMAL APPARATUS IN PATIENTS UNDERGOING ANTERIOR CRANIOFACIAL RESECTION (ACFR) AND/OR MAXILLECTOMY – Rahmatullah Rahmati (presenter), Gary Linkov, Jatin P. Shah, Mark Bilsky, Dennis H. Kraus, Memorial Sloan-Kettering Cancer Center, New York, NY and Columbia University Medical Center, New York, NY

209 MIDDLE CRANIAL FOSSA APPROACH: PATHOLOGIES AND COMPLICATIONS – Kimon Bekelis (presenter), Ziev Moses, Syneon Missios, Jim Saunders, Kadir Erkmen, Dartmouth-Hitchcock Medical Center

210 ANATOMIC CAUSES FOR TRIGEMINAL AND FACIAL NERVE DYSFUNCTION IN PATIENTS WITH VESTIBULAR SCHWANOMAS – Albert D. Tu (presenter), Ryojo Akagami, University of British Columbia, Vancouver General Hospital

211 MICROVASCULAR DECOMPRESSION SURGERY: NATIONAL TRENDS, OUTCOMES, AND COMPLICATIONS – Anand Veeravagu (presenter), Bowen Jiang, Robert Arrigo, Paul Kalanithi, Melanie Hayden, Chirag Patil, Maxwell Boakye, Shivanand Lad, Stanford School of Medicine, Duke University Medical Center; University of Louisville, Cedars-Sinai Medical Center

212 EXPANDED ENDONASAL ENDOSCOPIC APPROACHES TO SKULL BASE LESIONS IN PEDIATRIC PATIENTS – Vafi Salmasi (presenter), Yuewei Xia, Masaru Ishii, Douglas D. Reh, Gary L. Gallia, Johns Hopkins Hospital

213 KLIPPEL-FEIL SYNDROME IN ASSOCIATION WITH A CERVICOCEPHALIC ARACHNOID CYST: A UNIQUE CASE REPORT – Imad S. Khan (presenter), Osama Ahmed, Jai D. Thakur, Cedric Shorter, Bharat Guthikonda, LSUHC-Shreveport

214 CUSTOM-TAILORED ANTERIOR PETROSECTOMY WITHIN SURGICAL APPROACHES TO THE PETROCLIVAL REGION – Alkaterini Patrona (presenter), Robert Behr, Department of Neurosurgery, Klinikum Fulda

215 MIDDLE CRANIAL FOSSA APPROACH FOR REPAIR OF TEGMEN TYPHANI DEFECTS AND TEMPORAL ENCEPHALOCELE – John A. Braca (presenter), Vikram C. Prabhu, Sam Marzo, Loyola University Medical Center

216 JACQUES BENIGNUS WINSLOW (1669-1760): UNLOCKING THE ‘JEWEL BOX’ OF SKULL BASE – Jai D. Thakur (presenter), Ashish Sonig, Imad S. Khan, Anil Nanda, Bharat Guthikonda, LSUHC-Shreveport

217 SYMPTOMATIC ADULT CHIARI I MALFORMATION: POSTERIOR FOSSA MORMPHOMETRIC ANALYSIS AND CLINICAL OUTCOMES – Jai D. Thakur (presenter), Rishi Wadhwa, Ashish Sonig, Shihao Zhang, Imad S. Khan, Josh Martin, Anil Nanda, Bharat Guthikonda, LSUHC-Shreveport

218 HARVEY CUSHING’S TREATMENT OF SKULL BASE INFECTIONS AT THE JOHNS HOPKINS HOSPITAL, 1896-1912 – Aravind Somasundaram, Shaan M. Raza, Courtney Pendleton, Alfredo Quinones-Hinojosa (presenter), The Johns Hopkins Hospital

219 EFFECT OF PREVIOUS SINONASAL SURGERY ON LONG-TERM RADIOGRAPHIC INCIDENCE OF SINUS DISEASE IN PATIENTS FOLLOWING ENDOSCOPIC SKULL BASE SURGERY – Darshini Vira (presenter), Adam S. DeConde, Marlene B. Wang, Marvin Bergsneider, Jeffrey D. Suh, UCLA

220 ISOLATED MECKEL’S CAVE AND CAVERNOUS SINUS AMYLOIDOMAS MIMICKING CENTRAL SKULL BASE TUMORS – W. W. Chang (presenter), M. E. Jentoft, J. J. Van Gompel, J. E. Hammack, T. J. Sebo, M. J. Link, Departments of Neurosurgery, Pathology, and Neurology Mayo Clinic, MN

221 IDENTIFICATION OF MRI BIOMARKERS AND HISTOPATHOLOGICAL ALTERATIONS IN RESPONSE TO COMBINATORIAL THERAPY WITH ANTI-ANGIOGENIC AGENTS AND RADIATION IN A MURINE MODEL OF GLIOMA TUMOR – Shahzad Jalali, Warren Foltz, Kely Burrell, Caroline Chung, Gelareh Zadeh (presenter), Division of Neurosurgery, Toronto Western Hospital, University of Toronto

222 JUGULAR FORAMEN SCHWANNOMAS: SINGLE INSTITUTIONAL EXPERIENCE OF 28 CASES – Ashish Suri (presenter), Sumit Bansal, Mmohanan Singh, Ashok K. Mahapatra, All India Institute of Medical Sciences

223 ENDOSCOPIC APPROACH TO MALIGNANT TUMORS OF THE SKULL BASE – Brian W. Rotenberg, Jason Franklin (presenter), University of Western Ontario


225 LATE TERM PRESENTATION OF METASTATIC RENAL CELL CARCINOMA TO THE SINONASAL CAVITY – Aaron K. Remenschneider (presenter), Stacey T. Gray, Peter Sadow, Massachusetts Eye and Ear Infirmary
226 \textbf{Ganglioneuroma of the Skull Base Presenting with Multiple Cranial Nerve Deficits; Case Report and Review of the Literature} – Peter C. Revenaugh, Joseph Scharpf (presenter), Cleveland Clinic

227 \textbf{Transcervical Double Mandibular Osteotomy Approach to the Infratemporal Fossa} – Stewart I. Adam, Ketan R. Bulsara, Roger Lowlicht, Benjamin L. Judson (presenter), Section of Otolaryngology, Department of Surgery, Yale School of Medicine, New Haven, CT

228 \textbf{Factors Contributing Toward Delay in Diagnosis of Sinonasal Natural Killer/T-Cell Lymphoma} – David Jung (presenter), Stacey T. Gray, Massachusetts Eye and Ear Infirmary

229 \textbf{Schwannomas of the Nasopharynx and Pterygopalatine Fossa} – Michael Shohet, Shira Koss (presenter), Mount Sinai School of Medicine

230 \textbf{Metastatic Disease to the Clivus Mimicking a Clival Chordoma} – Adam S. DeConde (presenter), Darshini Vira, Marvin Bergsneider; Marilene B. Wang, UCLA

231 \textbf{Intrathecal Hypotensive Crisis Due to a Catecholamine-Producing Esthesioneuroblastoma} – Vafi Salmasi (presenter), Adam Schiavi, Brent A. Orr, Douglas W. Ball, Zev A. Binder, Masaru Ishii, Gary L. Gallia, Johns Hopkins Hospital

232 \textbf{GIANT PROLIFERATING Pilar Tumor of the Scalp: A Minimal Risk Approach} – Christopher H. Rassekh (presenter), Kelly M. Malloy, Tom Thomas, Jason Brandt, Xiaowei Xu, Ara A. Chalian, University of Pennsylvania

233 \textbf{SINONASAL ADENOCARCINOMA: A SINGLE SURGERY’S EXPERIENCE} – Sachin Gupta (presenter), Homere Al Moutran, Priyam Vyas, David Hiltzik, Peter Costantino, NYU School of Medicine Department of Otolaryngology, Lenox Hill Hospital Department of Otolaryngology-Head and Neck Surgery

234 \textbf{Primary Cranial Angiosarcoma: Long Term Survival is Feasible with Multidisciplinary Management} – Bharat Guthikonda (presenter), Osama Ahmed, Cedric Shorter; Imad Khan, Jai Thakur, Majed Jeroudi, Anil Nanda, LSU HSC Shreveport

235 \textbf{Analysis of 223 Brain Tumor Patients Treated at a Level 1 Trauma County Medical Center} – Daniel T. Nagasawa (presenter), Marko Spasic, Winward Choy, Heather M. Garcia, Andy Trang, Bob Shafa, Duc Duong, James Ausman, Marvin Bergsneider; Linda Liau, Duncan McBride, Isaac Yang, University of California, Los Angeles

236 \textbf{RARE SKULL BASE BENIGN TUMORS – POSTER} – Mihaela Cristiana Tatu (presenter), Central Military Hospital

237 \textbf{Neuronavigation in Endonasal Pituitary and Skull Base Surgery Using an Autoregistration Mask without Head Fixation: An Assessment of Accuracy and Practicality} – Nancy McLaughlin (presenter), Ricardo L. Carrau, Amin B. Kassam, Daniel F. Kelly, Brain Tumor Center; John Wayne Cancer Institute at Saint John’s Health Center; Santa Monica, CA, USA; Department of Neurosurgery, The Ottawa Hospital, Ontario, Canada

238 \textbf{Applications of Transoral, Transcervical, Transnasal and Transfacial Corridors for Robotic Surgery of the Skull Base} – R. L. Carrau (presenter), E. Ozer, D. M. Prevedello, B. A. Otto, M. Old, The Ohio State University Medical Center

239 \textbf{Innovative Use of the O-Arm for Skull Base Resection in a Sphenoorbital Menigioma} – Edward E. Kerr (presenter), Kiarash Shalaiae, Brian Dahlin, Rudolph J Schrot, University of California Davis Medical Center

240 \textbf{Detection and Management of Skull Base Cerebrospinal Fluid Leaks Using HRC-MRI Fusion Imaging} – Satish Govindaraj, Bradley Delman, Abib A. Aghetobha (presenter), Joshua B. Bederson, Mount Sinai Medical Center

241 \textbf{Vestibular Monitoring via ABDUCENS EMG: Observations on a Single Case} – Matthew Hanson (presenter), Christopher Mascarin, Nicholas Post, John Miller, State University of New York Health Science Center at Brooklyn

242 \textbf{Comparative Analysis of Fiesta Versus Conventional Imaging for Assessment of Cerebellumpontine Angle Epidermoid Tumors} – Osaamah J. Choudhry (presenter), Pratik Shukla, Resha Soni, Maureen Barry, Shira Slasky, James K. Liu, Center for Skull Base and Pituitary Surgery, Neurological Institute of New Jersey, Newark, NJ

243 \textbf{Is Retrosigmoid Approach Adequate for Resection of Petroclival Meningiomas} – Sherif M. Elwatidy (presenter), Zain Jamjoom, College of Medicine, King Saud university

244 \textbf{Combined Supra-Infratentorial Microsurgical Approach for Petro-Clival and Tentorial-Incisural Extra-Axial Lesions} – Hanad I. Farhat (presenter), Michael Schinners, Jin C. Zhao, Richard Wiet, Ivan Ciric, NorthShore University HealthSystem

245 \textbf{Anterior Skull Base RBHADOID MENINGIOMA: Masquerading as Esthesioneuroblastoma} – Sriram V. Bleswarapu, Darrin J. Lee (presenter), Arthur B. Dublin, E. Bradley Strong, Quang Luu, Kiarash Shalaiae, Departments of Neurological Surgery, Radiology, and Otolaryngology, University of California, Davis School of Medicine, USA

246 \textbf{Clinical Characteristics and Surgical Management of Atypical Meningiomas of the Skull Base} – Joshua W. Osbun (presenter), Michael R. Levitt, Manuel Ferreira, Laligam N. Sekhar; The University of Washington, Department of Neurological Surgery

247 \textbf{Delayed Malignant Transformation of Petroclival Meningioma to Chondrosarcoma after Stereotactic Radiosurgery: Case Report and Review} – Rohan R. Lall (presenter), Omar Arnaout, James P. Chandler, Northwestern University McGaw Medical Center Department of Neurosurgery, Chicago, IL

248 \textbf{Radiology of Cavernous Sinus and Parasellar Region} – Michael Chan, Eric Bartlett, Walter Kucharczyk, Arjun Sahgal, Hugh Curtin, Eugene Yu (presenter), University of Toronto and Massachusetts Eye and Ear Infirmary

249 \textbf{A Prospective Qualitative Study on Patients’ Perceptions of Endoscopic Endonasal Transsphenoidal Surgery} – Idara J. Edem, Beverly Banton, Mark Bernstein, Shelly Luw, Allan Vescan, Fred Gentilli, Gelareh Zadeh (presenter), Division of Neurosurgery, Toronto Western Hospital, University of Toronto

250 \textbf{SINONASAL QUALITY OF LIFE CHANGES AFTER ENDSCEOPIC PITUITARY SURGERY} – Lee A. Zimmer (presenter), Ojas Shah, Philip V. Theodosopoulos, University of Cincinnati Departments of Otolaryngology and Neurosurgery

251 \textbf{Factors Affecting Porous High-Density Polyethylene Implant Exposure in Patients Undergoing Endoscopic Transsphenoidal Resection of Sellar Lesions} – Spencer C. Payne (presenter), Brian Hughley, Yemisi Aferie, John A. Jane Jr., University of Virginia

252 \textbf{Imaging Features of Skull-Based Tumors, with Special Attention to the Central Skull Base} – Arnold Saha, Peter Thurlow, Melanie B. Pului, Michael F. Goldberg (presenter), Division of Neuroradiology, Department of Radiology, West Penn Allegheny Health System, Pittsburgh, PA
253 ENDOSCOPIC TRANSPHENOIDAL RESECTION OF GIANT PITUITARY ADENOMAS: EXPERIENCE IN 7 PATIENTS – Mickey L. Smith, Smruti K. Patel, Osamah J. Choudhry, Jean Anderson Eloy, James K. Liu (presenter), Departments of Neurological Surgery and Otolaryngology, University of Medicine and Dentistry of New Jersey, New Jersey Medical School

254 COMBINED APPROACHES FOR THE TREATMENT OF CRANIOPHARYNGIOMA – Chiao S. Amene (presenter), Lissa Baird, Michael L. Levy, University of California, San Diego Medical Center; Rady Children’s Hospital, San Diego

255 DELAYED POSTOPERATIVE PITUITARY APOPLEXY AFTER ENDOSCOPIC TRANSPHENOIDAL RESECTION OF A GIANT PITUITARY MACROADENOMA – Smruti K. Patel, Lana D. Christiano, Jean Anderson Eloy, James K. Liu (presenter), Center for Skull Base Surgery, Neurological Institute of New Jersey, Department of Neurological Surgery, Division of Otolaryngology, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, New Jersey

256 PRIMARY SELLAR LEIOMYOMAS: A REPORT OF TWO CASES AND REVIEW OF THE LITERATURE OF A RARE ENTITY – Andrew Ko, David K. Su (presenter), Donald Born, Manuel Ferreira Jr., University of Washington School of Medicine, Departments of Neurological Surgery and Pathology

257 ORBITAL METASTASIS OF PITUITARY GROWTH HORMONE SECRETING CARCINOMA CAUSING LATERAL GAZE PALSY: CASE REPORT, PATHOLOGY REVIEW, AND REVIEW OF THE LITERATURE – Rohan R. Lall (presenter), Steven F. Shafizadeh, Omar Arnaout, Bernard R. Bendok, James P. Chandler; Northwestern University McGaw Medical Center Department of Neurosurgery, Chicago, IL


259 ENDOSCOPIC TRANSAZAL VS. OPEN TRANSCRANIAL INTERNAL CAROTID ARTERY ANATOMY: A UNIFORM APPLICATION OF NOMENCLATURE – John J. DePowell (presenter), James L. Leach, Lee A. Zimmer, Philip V. Theodosopoulos, Jeffrey T. Keller, University of Cincinnati Departments of Neurosurgery, Otolaryngology-Head and Neck Surgery, and Radiology; University of Cincinnati Neuroscience Institute; Mayfield Clinic

260 RADIOGRAPHIC ANATOMY OF THE MAJOR FORAMINA OF THE SKULL BASE – Lee A. Zimmer (presenter), Philip V. Theodosopoulos, Jeffrey T. Keller, University of Cincinnati Departments of Otolaryngology and Neurosurgery

261 IMPORTANCE OF TROCHLEAR NERVE DISSECTION FOR TENTORIAL INCISION DURING THE SUBTEMPORAL TRANSVENTORIAL APPROACH: TECHNICAL NOTE – Nancy McLaughlin (presenter), Quanfeng Ma, Josh Emerson, Dennis Malkasian, Neil A. Martin, Department of Neurosurgery, David Geffen School of Medicine at UCLA

262 COMPUTED TOMOGRAPHY ANALYSIS OF THE PREVALENCE OF ONODI CELLS – Senja Tomovic (presenter), Norman Chan, Azadeh Esmaeili, James K. Liu, Jean Anderson Eloy, University of Medicine and Dentistry of New Jersey

263 COMPUTED TOMOGRAPHY ANALYSIS OF ANATOMIC VARIATIONS OF THE SPHENOID SINUS – Senja Tomovic (presenter), Norman J. Chan, Azadeh Esmaeili, James K. Liu, Jean Anderson Eloy, University of Medicine and Dentistry of New Jersey

264 THE RELATIONSHIP BETWEEN THE SUPERIOR PETROSAL SINUS AND MECKEL’S CAVE: AN ANATOMICAL STUDY – Martin M. Mortazavi (presenter), Christoph J. Griessenauer; Sanjay Krishnamurthy, Ketan Verma, Jason Cormier, Shane Tubbs, Division of Neurosurgery, University of Alabama at Birmingham

265 CAVERNOUS SINUS ACCESS VIA THE TRANSFERENTIAL ORBITAL WALL APPROACH – Sebastian F. Koga (presenter), Robert M. Starke, Steven A. Newman, University of Virginia


268 FIRST STAGE IN PREDICTIVE MEASURE FOR TRANSNASAL TRANSPHENOIDAL APPROACH TO PETROUS APEX CHOLESTEROL GRANULOMA – Nael Shoman, Angela M. Donaldson (presenter), Jeffrey J. Ksiazek, Myles L. Pensak, Lee A. Zimmer, University of Cincinnati Medical Center

269 UNUSUAL INFECTIOUS COMPLICATIONS OF SKULL BASE SURGERY – Steven A. Newman (presenter), University of Virginia

270 EXTERNAL LANDMARKS FOR IDENTIFYING THE DRAINAGE SITE OF THE VENOUS LACÉ: APPLICATION TO NEUROSURGICAL PROCEDURES – Martin M. Mortazavi (presenter), Christoph J. Griessenauer, Shane Tubbs, Robert G. Louise Jr., Young-Bin Song, Marios Loukas, Mohammadali Shoa, Aaron A. Cohen-Gadol, Division of Neurological Surgery, University of Alabama at Birmingham

271 IDENTIFICATION OF A CAROTICO-CLINOIDAL FORAMEN AND ITS IMPORTANCE IN ENDONASAL SKULL BASE SURGERY – Juan C. Fernandez-Miranda (presenter), Matthew J. Tormenti, Allesandro Paluzzi, Carl H. Snyderman, Paul A. Gardner; University Of Pittsburgh Medical Center

272 ENDOSCOPIC ENDONASAL APPROACH TO MECKEL’S CAVE – Alexandre A. Karkas (presenter), Jeffrey T. Keller, Philip V. Theodosopoulos, Lee A. Zimmer; University of Cincinnati

273 TEMPORARY BRACHYTHERAPY SEED MESH IN THE TREATMENT OF A RADIATION-INDUCED SINOSAL CARCINOSARCOMA: A CASE REPORT AND LITERATURE REVIEW – Benjamin A. Taele (presenter), Bhupesh Parashar; David I. Kuttler, Cornell University Medical College

274 PATTERNS OF RECURRENCE IN SKULL BASE Meningioma AFTER SECONDARY GAMMA-KNIFE RADIOSURGERY – Jai D. Thakur (presenter), Ashish Sonig, Imad S. Khan, Prashant Chittiboina, Shihao Zhang, Anil Nanda, Louisiana State University Health Science Center- Shreveport

275 SYSTEMATIC ANALYSIS OF THE OUTCOMES OF STEREOTACTIC RADIOSURGERY FOR CENTRAL NEUROCYTOMA – Andrew Y. Yew (presenter), Marko Spasic, Winward Choy, Heather Garcia, Andy Trang, Antonio DeSalles, Isaac Yang, UCLA


277 HARVEY CUSHING’S EARLY OPERATIVE TREATMENT OF SKULL BASE FRACTURES – Courtney Pendleton (presenter), Shaan M. Raza, Alfredo Quinones-Hinojosa, The Johns Hopkins Hospital
278 TRAUMATIC ENTRAPMENT OF THE ANTERIOR CEREBRAL ARTERY – A CASE REPORT – Christopher C. Gillis (presenter), Peter A. Gooderham, Charles S. Haw, University of British Columbia

279 UNILATERAL FRONTOPTERIONAL CRANIOTOMY FOR DURAL ARTERIOVENOUS FISTULA OF THE ANTERIOR CRANIAL FOSSA: A LATERAL APPROACH TO A MIDLAME LESION – Vikram V. Nayar, Dana E. Adkins (presenter), Georgetown University Hospital

280 THE OCCIPITAL TRANSVENTRAL APPROACH FOR SUPERIOR VERMIAN AND SUPEROMEDIAN CEREBELLAR ARTERIOVENOUS MALFORMATIONS: ADVANTAGES, LIMITATIONS AND OPTIONS – Nancy McLaughlin (presenter), Neil A. Martin, Department of Neurosurgery, David Geffen School of Medicine at UCLA

281 MANAGEMENT OF JUGULOTYMANNIC PARAGANGLIOMAS: OUR EXPERIENCE IN INDIA – Suresh C. Sharma (presenter), All India Institute of Medical Sciences, New Delhi, INDIA

282 ORTHOGONAL DOME FIRST TANDEM CLIPPING TECHNIQUE FOR THE RECONSTRUCTION OF GIANT OPHTHALMIC ARTERY ANEURYSM: A SINGLE-SURGEON OPERATIVE EXPERIENCE – Ashish Sonig (presenter), Vijay Kumar Javalkar, Imad Khan, Jaideep Thakur, Anil Nanda, Department of neurosurgery, Louisiana State University, Shreveport.

283 TRANSIENT ADENOSINE-INDUCED ASYTOLE DURING SURGICAL REMOVAL OF A GIANT CEREBELLOPONTOANGLE ANEURYSM – John C. Quinn (presenter), Yury Gubenko, Jamie K. Liu, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Neurological Institute of New Jersey, Newark, New Jersey

284 TRANSIENT ADENOSINE-INDUCED ASYTOLE FOR THE MANAGEMENT OF COMPLEX ANEURYSMS AT THE SKULL BASE – Abhishek Agrawal (presenter), Gavin Britz, Department of Neurosurgery, Duke University & Medical Center, Durham, NC

285 STENT COIL EMBOLIZATION OF AN IATROGENIC CAVERNOUS CAROTID PSEUODANEURYSM – Alexander Tuchman, Frank J. Attenello (presenter), Arun Amar, Gabriel Zada, Alexander A. Khalessi, University of Southern California, University of California, San Diego

286 POSTTRAUMATIC OPHTHALMIC ARTERY PSEUODANEURYSM PRESENTING AS EPISTAXIS: CASE REPORT AND REVIEW OF THE LITERATURE – Parviz Dolati-Ardejani (presenter), William F. Morrish, John H. Wong, University of Calgary

287 ENDOSCOPIC VASCULAR ANATOMY OF THE RETROCICAL JUNCTION – Juan Carlos De Battista (presenter), Norberto Andaluz, Ondrej Choutka, Lee Zimmer, Jeffrey Keller, University of Cincinnati


289 CYSTIC VERSUS NON-CYSTIC LARGE VESTIBULAR SCHWANNOMAS: PRESENTATION AND OUTCOME, A MATCHED CONTROLLED SERIES – Michael Canty (presenter), Sarah Eljamel, Musheer Hussain, Prof Sam Eljamel, Ninewells Hospital and Medical School

290 ANATOMICAL DELINEATION OF A SAFETY ZONE FOR DRILLING THE INTERNAL ACOUSTIC MEATUS – Rajesh Chhabra (presenter), Sunil Gupta, Tulika Gupta, Post Graduate Institute of Medical Education and Research and HSI Institute of Dental Sciences and Hospital, Panjab University

291 LABYRINTHINE ARTERY NEUROMAS AS AN IAC MASS – Rodney C. Diaz (presenter), Thomas Konia, University of California Davis Medical Center

292 SYMPTOMS OF PETROUS APEX LESIONS – Neerav Goyal, Jenny Liu, Sangam G. Kanekar, Soha Ghossaini (presenter), Penn State Hershey Medical Center

293 MALIGNANT TRANSFORMATION OF A VESTIBULAR SCHWANNOMA FOLLOWING GAMMA KNIFE RADIOSURGERY: CASE REPORT AND REVIEW OF THE LITERATURE – David J. Fusco (presenter), Richard Williamson, Vijay Yanamadala, Jennifer Eschbacher, Randall Porter, Peter Weisskopf, Barrow Neurological Institute

294 AUTOLOGOUS FASCIA SLING TECHNIQUE FOR DURAL RECONSTRUCTION FOLLOWING TRANSTEMPORAL PETROSECTOMY APPROACHES – Amanda J. Podolski, Robert W. Jyung, James K. Liu (presenter), University of Medicine and Dentistry: New Jersey Medical School


297 USE OF A RECIPROCAL SUCTION MICRODEBRIDER FOR RESECTION VIA THE MIDDLE FOSSA APPROACH OF ACUSTIC NEUROMAS WITH SIGNIFICANT CEREBELLOPONTOANGLE EXTENSION – Marc S. Schwartz (presenter), Gregory P. Lekovic, House Clinic, Neurosurgery

298 REMOVAL OF HAIRY POLYP OF THE EUSTACHIAN TUBE USING A NOVEL SKULL BASE APPROACH: EXTENDED TRANS-MASTOID EXCISION – Anita Konka (presenter), Matthew B. Hanson, State University of New York, Downstate Medical Center

299 NFAT AND T CELL RESPONSE PLAY MAJOR ROLES IN THE FORMATION OF SPORADIC VESTIBULAR SCHWANNOMAS – Boris Krischek (presenter), Isabel Gugel, Antje Bornemann, Georgios Pantazis, Guenther C. Feigl, Constantin Roder, Florian Roser; Martin Schuhmann, Gelareh Zadeh, Marcos Tatagiba, Division of Neurosurgery, Toronto Western Hospital; Department of Neurosurgery, Department of Neuropathology, University of Tuebingen, Germany

300 OUTCOMES FOLLOWING LATERAL TEMPORAL BONE RESECTION FOR SQUAMOUS CELL CARCINOMA – Aaron D. Tward (presenter), Alicia Quesnel, Michael G. Moore, Daniel J. Deschler, Michael J McKenna, Derrick T. Lin, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Indiana University School of Medicine

301 SPONTANEOUS OTIC GENIC CSF LEAKS: A PRESENTATION OF CASES AND REVIEW OF LITERATURE AND MANAGEMENT OPTIONS – Meghan N. Wilson (presenter), James Lin, Daniel W. Nuss, Moises A. Arriaga, Jason Durel, Louisiana State University Health Sciences Center in New Orleans

302 PIGMENTED VILLONODULAR SYNTHESIS OF THE INFRATEMPORAL FOSSA – Nimish A. Patel (presenter), Matthew Cox, Michael Medina, University of Florida Department of Otolaryngology Head and Neck Surgery

303 MANAGEMENT OF INVERTED PAPILLOMA OF THE TEMPORAL BONE – Nicholas R. Rowan, Evelyne Kalyoussef (presenter), James K. Liu, Robert W. Jyung, Department of Otolaryngology – Head & Neck Surgery, University of Medicine and Dentistry of New Jersey – New Jersey Medical School, Department of Neurological Surgery, University of Medicine and Dentistry of New Jersey – New Jersey Medical School

304 RECURRENT FACIAL Palsy, THE ROLE OF SURGERY – Miheda Cristiana Tatu (presenter), Lucian Constantin Esanu, Central Military Hospital

305 FACIAL NERVE SCHWANNOMAS PRESENTING AS OCCLUDING EXTERNAL AUDITORY CANAL MASSES – Richard K. Gurgel (presenter), Robert K. Jackler, Stanford University
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