



# 22<sup>nd</sup> 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



# TABLE OF CONTENTS

General/CME Information	1
Meeting Leadership	1
Recognized Guests	3
Meeting Faculty	4
Faculty Disclosures	10
Floor Plans	12
Exhibitor Profiles	14
Speaker Highlights	16
Schedule-at-a-Glance	17
Pre-Meeting Practical Courses	20
Scientific Program	21
Poster Sessions	31



## North American Skull Base Society

11300 W. Olympic Blvd., Suite 600  
 Los Angeles, California 90064  
 PHONE: 310-424-3326  
 FAX: 310-437-0585  
[www.nasbs.org](http://www.nasbs.org)

## CME 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.

Science Care designates this educational activity for a maximum of **20.5 AMA PRA Category 1 Credit(s)**<sup>™</sup>. 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**<sup>™</sup>.

## 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

# GENERAL INFORMATION/CME INFORMATION

## 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 prosthodontists and endocrinologists.

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

## JOINT 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)**<sup>™</sup>. 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*<sup>™</sup>.

## 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 LEADERSHIP

### NASBS Scientific Program Committee

Dennis Kraus, MD, *President*  
Carl Snyderman, MD, MBA, *Chair*  
John Golfinos, MD, *Co-Chair*  
Rick Friedman, MD, PhD, *Co-Chair*  
Daniel Pieper, MD, *Co-Chair*

### NASBS Executive Committee

Dennis H. Kraus, MD  
*President – New York, NY*  
Carl B. Heilman, MD  
*President-Elect – Boston, MA*  
Ehab Y. Hanna, MD, FACS  
*Vice President – Houston, TX*  
Jacques Morcos, MD  
*Secretary – Miami, FL*  
Peter Neligan, MD  
*Immediate Past President – Seattle, WA*

### Directors at Large

Mario Ammirati, MD (2012)  
Vijay Anand, MD (2011)  
Eric Chang, MD (2010)  
Peter Cordiero, MD (2012)  
Rick Friedman, MD (2011)  
Michael Link, MD (2010)  
Jacques Morcos, MD (2011)  
Christopher H. Rassekh, MD (2010)  
Mark Varvares, MD (2013)

### Board of Advisors

Franco DeMonte, MD (2013)  
Patrick J. Gullane, MD (2010)  
Anil Nanda, MD (2011)  
Daniel Nuss, MD (2014)  
Guy Petruzzelli, MD, PhD (2012)





## PAST PRESIDENTS

1990	Paul J. Donald, MD
1991	Laligam N. Sekhar, MD
1992	Ivo P. Janecka, MD
1993	Peter G. Smith MD, PhD
1994	Albert L. Rhoton, Jr., MD
1995	Hugh Curtin, MD
1996	Derald E. Brackmann, MD
1997	Ossama Al-Mefty, MD
1998	Steven A. Newman, MD
1999	John P. Leonetti, MD
2000	Robert F. Spetzler, MD
2001	Ian T. Jackson, MD
2002	Vinod K. Anand, MD
2003	Jon H. Robertson, MD
2004	Jatin Shah, MD
2005	Patrick J. Gullane, MD
2006	Anil Nanda, MD
2007	Guy J. Petruzzelli, MD
2008	Franco DeMonte, MD
2009	Daniel Nuss, MD
2010	Peter Neligan, MD

## MEETING HOURS

### REGISTRATION HOURS

**Thursday, February 16, 2012**  
**Friday, February 17, 2012**  
**Saturday, February 18, 2012**  
**Sunday, February 19, 2012**

*Sunset 1*  
 2:00 pm – 6:00 pm  
 6:30 am – 7:00 pm  
 6:30 am – 5:30 pm  
 7:30 am – 11:00 am

### SPEAKER PREP HOURS

**Thursday, February 16, 2012**  
**Friday, February 17, 2012**  
**Saturday, February 18, 2012**  
**Sunday, February 19, 2012**

*Sunset 1*  
 2:00 pm – 6:00 pm  
 6:30 am – 5:00 pm  
 6:30 am – 5:00 pm  
 7:30 am – 10:00 am

### EXHIBIT HALL/POSTER HOURS

**Friday, February 17, 2012**

10:00 am – 7:00 pm  
 10:15 am – 10:30 am  
 12:00 pm – 1:00 pm  
 3:30 pm – 4:00 pm  
 4:00 pm – 5:30 pm  
 5:30 pm – 7:00 pm

*Mezzanine*  
 Hall Open  
 Break in Exhibit Hall  
 Lunch for Non Members in Exhibit Hall  
 Break in Exhibit Hall  
 Break for Exhibitors/Exhibit Hall Closed  
 Reception in Exhibit Hall

**Saturday, February 18, 2012**

10:00 am – 4:00 pm  
 10:30 am – 11:00 am  
 12:00 pm – 1:00 pm  
 3:30 pm – 4:00 pm

Hall Open  
 Break in Exhibit Hall  
 Lunch in Exhibit Hall  
 Break in Exhibit Hall

**Sunday, February 19, 2012**

7:00 am – 11:00 am  
 7:30 am – 8:00 am  
 10:00 am – 10:30 am

Hall Open  
 Breakfast in Exhibit Hall  
 Break in Exhibit Hall

## ACKNOWLEDGEMENT OF SPONSORS

### GOLD

**Carl Zeiss Meditec, Inc.**

**Medtronic Surgical  
Technologies**

**Stryker**

**Synthes CMF**

### SILVER

**Integra Foundation**

### BRONZE

**Biomet Microfixation**

*Thank you to the NASBS  
22nd Annual Meeting Sponsors!*

## 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.
- **Petrous Pulse:** Members will receive copies of *Petrous 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

### Waleed M. Abuzeid, MD

*University of Michigan Health System  
Ann Arbor, MI, USA*

### Nithin D. Adappa, MD

*University of Pennsylvania Perelman  
School of Medicine  
Philadelphia, PA, USA*

### Siviero Agazzi

*USF Health, Department of  
Neurosurgery and Brain Repair  
Tampa, FL, USA*

### Tamir Ailon, MD

*University of British Columbia  
Vancouver, Canada*

### Hussein Alahmadi, MD

*University of Toronto  
Toronto, Canada*

### Ossama Al-Mefty, MD

*Brigham and Woman's Hospital  
Boston, MA, USA*

### George Al Shamy, MD

*The Department of Neurosurgery at the  
University of Texas M. D. Anderson Cancer  
Center and Baylor College of Medicine  
Houston, TX, USA*

### David B. Altshuler, MS

*University of Michigan  
Ann Arbor, MI, USA*

### Moran Amit, MD

*Tel Aviv Sourasky Medical Center, Sackler  
Faculty of Medicine, Tel Aviv University,  
National Institutes of Health  
Bethesda, MD, USA  
Tel Aviv, Israel*

### Mario Ammirati, MD, MBA

*Ohio State University Medical Center  
Columbus, OH, USA*

### Suri Ashish, MCh

*All India Institute of Medical Sciences  
New Delhi, India*

### Vijay Anand, MD

*Weill Cornell Medical College  
New York Presbyterian Hospital Weill –  
Cornell Medical Center  
New York, NY, USA*

### Akram M. Awadalla, MD

*North West Armed Hospital (KSA) –  
Zagazig University (Egypt)  
Tabuk, Saudi Arabia*

### Ali Ayyad, MD

*Department of Neurosurgery,  
Johannes Gutenberg University  
Mainz, Germany*

### Khaled Aziz, MD

*Allegheny General Hospital  
Pittsburgh, PA, USA*

### Victoria E. Banuchi, MD, MPH

*Head and Neck Service, Memorial Sloan  
Kettering Cancer Center,  
New York, NY, USA*

### Pete Batra, MD

*The University of Texas Southwestern  
Medical Center  
Dallas, TX, USA*

### Jeffrey C. Bedrosian, MD

*Departments of Otolaryngology – Head and  
Neck Surgery and Neurological Surgery,  
Weill Cornell Medical College,  
New York Presbyterian Hospital  
New York, NY, USA*

### Marvin Bergsneider, MD

*University of California, Los Angeles  
Los Angeles, CA, USA*

### Randall A. Bly, MD

*University of Washington School of  
Medicine, Departments of Otolaryngology  
and Neurological Surgery  
Seattle, WA, USA*

### James Boggan, MD

*University of California Davis  
Fair Oaks, CA, USA*

### Derald E. Brackmann, MD

*Clinical Professor of Otolaryngology – Head  
and Neck Surgery and Neurological Surgery  
University of Southern California School of  
Medicine  
Associate, House Ear Clinic  
Board of Directors, House Ear Institute  
Los Angeles, CA, USA*

### Ketan Bulsara, MD

*Yale University School of Medicine  
New Haven, CT, USA*

### Nadieska Caballero, MD

*Loyola University Medical Center  
Park Ridge, IL, USA*

### Emiro E. Caicedo-Granados, MD

*University of Minnesota  
Minneapolis, MN, USA*

### Matthew L. Carlson, MD

*Department of Otorhinolaryngology – Head  
and Neck Surgery, Division of Neurotology  
& Skull Base Surgery, Department of  
Neurological Surgery, Mayo Clinic  
Rochester, MN, USA*

**Ricardo L. Carrau, MD, FACS**

Professor, Department of Otolaryngology-  
Head & Neck Surgery  
Director of the Comprehensive Skull Base  
Surgery Program  
The Ohio State University Medical Center  
Columbus, OH, USA

**Roy R. Casiano, MD**

University of Miami  
Miller School of Medicine  
Miami, FL, USA

**Victor Chang, MD**

Henry Ford Hospital  
Royal Oak, MI, USA

**Cleopatra Charalampaki**

Neurosurgical Department, Medical  
University Graz, Graz, Austria, Institute of  
Neurosurgical Pathophysiology, University  
Medical Center, Mainz, Germany, Institute of  
Microtechnique, Mainz  
Graz, Austria

**Steve Charles, MD**

Clinical Professor of Ophthalmology  
University of Tennessee, College of Medicine  
Memphis, TN, USA

**Winward Choy, BA**

Department of Neurological Surgery,  
University of California Los Angeles, David  
Geffen School of Medicine at UCLA  
Los Angeles, CA, USA

**William R. Copeland, MD**

Department of Neurologic Surgery, Mayo  
Clinic, Rochester, Minnesota  
Department of Radiology, Mayo Clinic,  
Rochester, Minnesota  
Department of Otorhinolaryngology,  
Mayo Clinic  
Rochester, MN, USA

**Peter G. Cordeiro, MD**

Memorial Sloan Kettering Cancer Center  
New York, NY, USA

**Peter Costantino, MD**

New York Head and Neck Institute  
New York, NY, USA

**Roberto A. Cueva, MD, FACS**

Southern California Permanente  
Medical Group  
San Diego, CA, USA

**Aaron R. Cutler, MD**

UCLA Medical Center Department of  
Neurosurgery and Division of Otolaryngology  
Los Angeles, CA, USA

**Giovanni Danesi, MD**

ENT Department and Microsurgery  
of the Skull Base  
Ospedali Riuniti  
Bergamo, Italy

**Amir R. Dehdashti, MD, FACS**

Geisinger Neurosciences Institute  
Danville, PA, USA

**Danielle De Lara, MD**

The Ohio State University Medical Center  
Columbus, OH, USA

**Franco DeMonte, MD**

M.D. Anderson Cancer Center  
Houston, TX, USA

**Claudio De Tommasi, MD**

University of Toronto, Saint Michael's Hospital  
Toronto, Canada

**Raj C. Dedhia, MD**

University of Pittsburgh  
Pittsburgh, PA, USA

**Anand K. Devaiah, MD, FACS**

Associate Professor  
Department of Otolaryngology- Head and  
Neck Surgery  
Department of Neurological Surgery  
Boston University School of Medicine  
Boston Medical Center  
Boston, MA, USA

**Leo F. S. Ditzel Filho, MD**

Departments of Neurosurgery and  
Otolaryngology, The Ohio State University  
Columbus, OH, USA

**Benjamin J. Dixon, MD**

Department of Otolaryngology, Head and  
Neck Surgery, Princess Margaret Hospital  
and Mt Sinai Hospital, University of Toronto  
Toronto, Canada

**Paul J. Donald, MD, FRCSC**

University of California Davis  
Department of Otolaryngology/  
Head & Neck Surgery  
Sacramento, CA, USA

**Angela M. Donaldson, MD**

University of Cincinnati Medical Center  
Cincinnati, OH, USA

**Deepak Raj Dugar, MD**

Department of Otolaryngology-  
Head and Neck Surgery,  
The University of North Carolina,  
Chapel Hill, NC, USA

**Jean Anderson Eloy, MD**

UMDNJ - New Jersey Medical School  
Newark, NJ, USA

**James Evans, MD**

Associate Professor  
Director, Cranial Base and Pituitary Surgery  
Department of Neurological Surgery  
Thomas Jefferson University  
Philadelphia, PA, USA

**Christopher J. Farrell, MD**

Thomas Jefferson University  
Philadelphia, PA, USA

**Guenther C. Feigl, MD, PhD**

University Hospital Tuebingen, Department  
of Neurosurgery, Department of  
Neuroradiology, Tuebingen Germany  
Tuebingen, Germany

**Juan C. Fernandez-Miranda, MD**

Assistant Professor of Neurological Surgery  
Director, Surgical Neuroanatomy Lab  
University of Pittsburgh  
Pittsburgh, PA, USA

**Melvin Field, MD**

Associate Professor of Neurosurgery  
Florida Hospital Neuroscience Institute,  
University of Central Florida College of  
Medicine  
Orlando, FL, USA

**Daniel Fliss, MD**

Tel Aviv Sourasky Medical Center  
Tel Aviv, Israel

**Rick A. Friedman, MD, PhD**

House Clinic  
USC Keck School of Medicine  
Los Angeles, CA, USA

**Kelly Gallagher, MD**

University of Michigan  
Ann Arbor, MI, USA

**Gary L. Gallia, MD, PhD**

Assistant Professor of Neurosurgery  
and Oncology  
Director, Endoscopic and Minimally  
Invasive Neurosurgery  
Director, Neurosurgery Skull Base Center  
Pituitary Center  
Johns Hopkins University, Department of  
Neurosurgery, Johns Hopkins Hospital  
Baltimore, MD, USA

**Abhiram Gande**

University of Pittsburgh Medical Center  
Pittsburgh, PA, USA

**Ravi H. Gandhi, MD**

Albany Medical Center  
Albany, NY, USA

**Paul Gardner, MD**

University of Pittsburgh Medical Center  
Pittsburgh, PA, USA

**Rohit Garg, MD, MBA**

Southern California Permanente Medical Group  
Irvine, CA, USA

**Fred Gentili MD**

University of Toronto  
Toronto, Canada

**Anand V. Germanwala, MD**

The Johns Hopkins School of Medicine  
Baltimore, MD, USA

**Ziv Gil, MD, PhD**

Head and Neck Surgery Unite,  
Tel-Aviv Medical Center  
Tel-Aviv, Israel



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

**John Golfinos, MD**  
New York University Medical Center  
New York, NY, USA

**Mitchell R. Gore, MD, PhD**  
Rhinology & Anterior Skull Base Fellow  
University of North Carolina at Chapel Hill  
Durham, NC, USA

**Elon Granader, MD, MSc**  
University of Michigan Hospital and Health Systems  
Ann Arbor, MI, USA

**Christoph J. Griessenauer, MD**  
University of Alabama at Birmingham  
Birmingham, AL, USA

**Bharat Guthikonda, MD**  
LSU HSC Shreveport  
Shreveport, LA, USA

**Murali Guthikonda, MD**  
Wayne State University School of Medicine  
Detroit, MI, USA

**Trevor Hackman**  
Assistant Professor  
Department of Otolaryngology/Head and Neck Surgery  
UNC Chapel Hill  
Chapel Hill, NC, USA

**Stephen J. Haines, MD**  
Lyle A. French Chair  
Profess and Head  
Department of Neurosurgery  
University of Minnesota  
Minneapolis, MN, USA

**Ehab Y. Hanna, MD, FACS**  
Professor and Vice Chair for Clinical Affairs  
Department of Head and Neck Surgery  
Department of Neurosurgery  
The University of Texas MD  
Anderson Cancer Center  
Houston, TX, USA

**Carl Hardwidge, MD, BM, FRCS**  
Consultant Neurosurgeon  
Hurstwood Park Neurosurgical Unit  
Haywards Heath  
West Sussex, UK

**Devon Haydon, MD**  
Washington University in St. Louis, School of Medicine, Departments of Neurosurgery and Otolaryngology  
St. Louis, MO, USA

**Carl Heilman, MD**  
Tufts Medical Center  
Boston, MA, USA

**Barry Hirsch, MD**  
UPMC  
Eye and Ear Institute  
Pittsburgh, PA, USA

**Michael Hoa, MD**  
House Clinic  
Los Angeles, CA, USA

**Stephen R. Hoff, MD**  
Northwestern University & Stanford University  
Chicago, IL, USA

**Gilad Horowitz, MD**  
Tel Aviv Sourasky Medical Center, Tel Aviv University  
Tel-Aviv, Israel

**Tarik F. Ibrahim, MD**  
Loyola University Medical Center  
Maywood, IL, USA

**Jeffrey T. Jacob, MD**  
Mayo Clinic  
Rochester, MN, USA

**Dejan Jakimovski, MD**  
Weill Cornell Medical College, Department of Neurological Surgery  
Kumanovo, Macedonia

**John A. Jane Jr., MD**  
University of Virginia Health System  
Associate Professor of Neurosurgery and Pediatrics  
Department of Neurosurgery  
Charlottesville, VA, USA

**Benjamin L. Judson, MD, MPA**  
Assistant Professor  
Associate Residency Program Director  
Section of Otolaryngology  
Yale University School of Medicine  
New Haven, CT, USA

**Ashutosh Kacker, MBBS, MS, MD, FACS**  
Weill Cornell Medical College,  
New York, NY, USA

**Kiran Kakarala, MD**  
The Ohio State University  
Columbus, OH, USA

**M. Yashar S. Kalani, MD, PhD**  
Barrow Neurological Institute  
Phoenix, AZ, USA

**Stephen Y. Kang, MD**  
University of Michigan  
Ann Arbor, MI, USA

**Seth E. Kaplan, MD**  
Thomas Jefferson University  
Philadelphia, PA, USA

**Robert M. Kellman, MD**  
SUNY Upstate Medical University  
Syracuse, NY, USA

**Brian C. Kelley, DO**  
University of Kansas  
Kansas City, KS, USA

**Daniel Kelly, MD**  
Brain Tumor Center, John Wayne Cancer Institute at Saint John's Health Center  
Santa Monica, CA, USA

**Tyler J. Kenning, MD**  
Thomas Jefferson University  
Philadelphia, PA, USA

**Grace G. Kim, MD**  
University of North Carolina Hospitals  
Chapel Hill, NC, USA

**Maria Koutourousiou, MD**  
University of Pittsburgh School of Medicine, Department of Neurological Surgery  
Pittsburgh, PA, USA

**Dennis Kraus, MD**  
Memorial Sloan-Kettering Cancer Center  
New York, NY, USA

**Howard R. Krauss, MD**  
Director of Ophthalmology, Pacific Eye & Ear  
Southern California Neuro-ophthalmology and Orbital Surgical Associates  
Clinical Professor of Ophthalmology and Neurosurgery, UCLA  
Los Angeles, CA, USA

**Michael LaRouere, MD**  
Michigan Ear Institute  
Farmington Hills, MI, USA

**Michael T. Lawton, MD**  
University of California, San Francisco  
San Francisco, CA, USA

**John YK Lee, MD**  
Assistant Professor  
Department of Neurosurgery  
University of Pennsylvania  
Philadelphia, PA, USA

**Joung H. Lee, MD**  
Professor and Head, Section of Skull Base Surgery  
Center for Brain Tumors & Neuro-Oncology  
Department of Neurosurgery  
Neurological Institute, Cleveland Clinic  
Cleveland, OH, USA

**John P. Leonetti, MD**  
Professor and Vice-Chairman  
Director of the Loyola  
Center for Cranial  
Base Surgery  
Loyola University Medical Center  
Maywood, IL, USA



**Norbert Liebsch, MD, PhD**

Massachusetts General Hospital  
Boston, MA, USA

**Derrick Lin, MD**

Harvard Medical School  
Massachusetts Eye and Ear Infirmary  
Boston, MA, USA

**Michael J. Link, MD**

Mayo Clinic  
Rochester, MN, USA

**Gary Linkov, BS**

Head and Neck Service, Memorial Sloan-Kettering Cancer Center,  
New York, NY, USA

**Andrew S. Little, MD**

Barrow Neurological Institute  
Phoenix, AZ, USA

**James K. Liu, MD**

Neurological Institute of New Jersey  
University of Medicine and Dentistry  
of New Jersey  
New Jersey Medical School  
Newark, NJ, USA

**Bjorn Lobo, MD**

Cleveland Clinic Foundation  
Cleveland, OH, USA

**Miguel A. Lopez-Gonzalez, MD**

National Institute of Neurology  
and Neurosurgery (Mexico City),  
The Cleveland Clinic Foundation  
Cleveland, OH, USA

**Shelly Lwu, MD, MSc**

University of Toronto  
Victoria, Canada

**Ricky Madhok, MD**

Nassau University Medical Center  
East Meadow, NY, USA  
North Shore-LIJ Medical Group  
Plainview, NY, USA

**Robert S. Malyapa, MD, PhD**

University of Florida Proton  
Therapy Institute,  
Jacksonville, FL, USA

**Spiros Manolidis, MD**

Albert Einstein College of Medicine, Beth  
Israel Hospital, Roosevelt Hospital  
New York, NY, USA

**Lawrence J. Marentette, MD, FACS**

Professor, Department of Otolaryngology  
Division, Facial Plastic and Reconstructive  
Surgery  
Professor, Department of Neurosurgery  
Professor, Department of Surgery  
Section of oral and Maxillofacial Surgery  
Director Cranial Base Program  
University of Michigan  
Ann Arbor, MI, USA

**Sam J. Marzo, MD**

Loyola University Health System  
Maywood, IL, USA

**Edward D. McCoul, MD MPH**

Weill Cornell Medical College, New York, NY  
New York, NY, USA

**Timothy McCulloch, MD**

University of Wisconsin  
Madison, WI, USA

**Nancy McLaughlin, MD, PhD, FRCSC**

Brain Tumor Center, John Wayne Cancer  
Institute at Saint John's Health Center,  
Department of Medicine, UCLA School  
of Medicine, Los Angeles, CA  
Santa Monica, CA, USA

**Erin L. McKean, MD**

University of Michigan  
Ann Arbor, MI, USA

**Mary Meeker**

Kleiner Perkins Caufield & Byers  
Menlo Park, CA, USA

**Maxwell B. Merkow, MD**

University of Pennsylvania  
Philadelphia, PA, USA

**William R. Miele, MD**

Department of Neurosurgery, Tufts Medical  
Center & Tufts University School of Medicine  
Boston, MA, USA

**Brian D. Milligan, MD**

Oregon Health and Science University  
Portland, OR, USA

**Marcos Francisco Mirambeaux Casso, MD**

Georgia Health Sciences University,  
Department of Otolaryngology, Georgia Skull  
Base Center, Hospital General Plaza De La  
Salud - Dominican Republic  
Augusta, GA, USA

**Candace A. Mitchell, BA**

University of North Carolina at Chapel Hill  
Chapel Hill, NC, USA

**Kris S. Moe, MD, FACS**

Chief, Division of Facial Plastic Surgery  
Department of Otolaryngology- Head and  
Neck Surgery  
University of Washington School of Medicine  
Seattle, WA, USA

**Sandeep Mohindra, MD, FRCSEd**

Postgraduate Institute of Medical Education  
and Research, Chandigarh, India  
Chandigarh, India

**Jacques J. Morcos, MD, FRCS (Eng),  
FRCS(Ed)**

University of Miami  
Miami, FL, USA

**Anil Nanda, MD**

LSU Health Sciences Center  
Shreveport, LA, USA

**Jayakar V. Nayak, MD, PhD**

Assistant Professor, Stanford University  
Stanford Sinus Center  
Department of Otolaryngology  
Stanford, CA, USA

**Peter Neligan, MD**

University of Washington  
Seattle, WA, USA

**James Netterville, MD**

Mark C. Smith Professor  
Director Division of Head & Neck Surgery  
Associate Director Bill Wilkerson Center  
Dept. of Otolaryngology,  
Head & Neck Surgery,  
Vanderbilt Medical Center,  
Nashville, TN, USA

**Steven A. Newman, MD**

Division of Neuro-Ophthalmology  
Department of Ophthalmology  
University of Virginia  
Charlottesville, VA, USA

**Lena Ning**

Florida Hospital Neuroscience Institute;  
University of Central Florida College  
of Medicine  
Orlando, FL, USA

**Gustavo Fabiano Nogueira, MD**

Otorrinolaringologia & Cirurgia Da Face  
Paraná, Brasil

**Daniel W. Nuss, MD, FACS**

George D. Lyons Professor and Chairman  
Department of Otolaryngology-Head and  
Neck Surgery  
LSU Health Sciences Center  
New Orleans, LA, USA

**James P. O'Neill, MD, MRCSI, MMSc,  
MBA, ORLHNS**

Memorial Sloan Kettering Cancer Center  
New York, NY, USA

**Joshua W. Osburn, MD**

The University of Washington, Department of  
Neurological Surgery  
Seattle, WA, USA

**Alessandro Paluzzi, MD**

Center for Skull Base Surgery, University of  
Pittsburgh School of Medicine  
Pittsburgh, PA, USA

**Harshita Pant, BMBS, PhD**

University of Adelaide  
Adelaide, Australia

**Smruti K. Patel, BA**

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, NJ, USA

**Snehal Patel, MD**

Memorial Sloan-Kettering Cancer Center  
New York, NY, USA

**Mark P. Piedra, MD**

Oregon Health & Science University  
Portland, OR, USA

**Daniel Pieper, MD**

William Beaumont Hospital  
Novi, MI, USA

**Carlos D. Pinheiro-Neto, MD PhD**

University of Pittsburgh  
Pittsburgh, PA, USA

**Amy L. Pittman, MD**

Loyola University Medical Center  
Maywood, IL, USA

**Alfio P. Piva, MD**

University of Costa Rica  
San Jose, Costa Rica

**Daniel M. Prevedello, M.D.**

Assistant Professor  
Department of Neurological Surgery  
Director, Minimally Invasive Cranial Surgery  
Program  
The Ohio State University  
Columbus, OH, USA

**Vijay R. Ramakrishnan, MD**

University of Colorado, University of  
Pennsylvania  
Aurora, PA, USA

**Christopher H. Rassekh, MD, FACS**

Associate Professor, Otorhinolaryngology-  
Head & Neck Surgery  
University of Pennsylvania  
Philadelphia, PA, USA

**Rounak B. Rawal, BA**

Department of Otolaryngology/Head and  
Neck Surgery and Division of Neurosurgery,  
University of North Carolina Hospitals  
Chapel Hill, NC, USA

**Shaan M. Raza, MD**

Department of Neurosurgery, The Johns  
Hopkins University  
Baltimore, MD, USA

**Albert Rhoton, MD**

University of Florida Med Center  
Gainesville, FL, USA

**Howard Riina, MD**

NYU School of Medicine  
NYU Langone Medical Center  
New York, NY, USA

**J. Thomas Roland, Jr., MD**

Mendik Foundation Chairman Department of  
Otolaryngology-Head and Neck Surgery  
Professor of Otolaryngology and  
Neurosurgery  
NYU School of Medicine  
Director of Otolaryngology/Neurotology  
New York, NY, USA

**Marc R. Rosen, MD**

Thomas Jefferson University  
Philadelphia, PA, USA

**Joshua M. Sappington, MD**

Loyola University Medical Center  
Oak Park, IL, USA

**Ibrahim Sbeih**

Ibn Alhytham Hospital  
Amman, Jordan

**Christopher A. Schutt, MD****Marc Schwartz, MD**

House Clinic Inc  
Los Angeles, CA, USA

**Theodore H. Schwartz, MD, FACS**

Weill Cornell Medical College  
New York Presbyterian Hospital  
New York, NY, USA

**Laligam Sekhar, MD**

University of Washington  
Harborview Medical Center  
Seattle, WA, USA

**Chandranath Sen, MD**

New York University Medical Center  
New York, NY, USA

**Jatin Shah, MD**

Memorial Sloan-Kettering Cancer Center  
New York, NY, USA

**Ammar Shaikhouni, MD, PhD**

The Ohio State University Medical Center  
Columbus, OH, USA

**Yury A. Shulev**

City Hospital # 2, Medical Academy of  
Postgraduate Studies, Saint-Petersburg,  
Saint-Petersburg, Russia

**Carl H. Snyderman, MD, MBA**

University of Pittsburgh School of Medicine  
Pittsburgh, PA, USA

**C. Arturo Solares, MD**

Assistant Professor, Head and Neck Surgery  
Neurosurgery  
Co-Director, GHSU Skull Base Center  
Georgia Health and Sciences University  
Augusta, GA, USA

**Hwa J. Son, MD**

University of Cincinnati  
Covington, OH, USA

**Ashish Sonig, MD, MCh**

Department of neurosurgery,  
Louisiana State University  
Shreveport, LA, USA

**Marko Spasic, BA**

UCLA Department of Neurosurgery  
Los Angeles, CA, USA

**Drew Spencer, MD**

Loyola University Medical Center  
Maywood, IL, USA

**Hilda E. Stambuk, MD**

Memorial Sloan-Kettering Cancer Center  
New York, NY, USA

**Robert M. Starke, MD, MSc**

University of Virginia  
Charlottesville, NC, USA

**Robert M. Starke, MD, MSc**

Royal North Shore Hospital,  
University of Miami, University of Virginia,  
Weill Cornell Medical College  
St. Leonards, Australia

**James Stephen, MD**

University of Pennsylvania  
Philadelphia, PA, USA

**Stephen E. Sullivan, MD**

Department of Neurosurgery  
Taubman Healthcare Center  
Ann Arbor, MI, USA

**Ashish Suri, MCh**

All India Institute of Medical Sciences  
New Delhi, India

**Vaishali Suri, MD**

All India Institute of Medical Sciences  
New Delhi, India

## SAVE THE DATES!

Mark your calendars for these upcoming NASBS Meetings and Workshops

**Summer Resident and Fellows  
Practical Dissection Workshop**

July 27-30, 2012

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

**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**

Co-Director, Center for Clinical Neurophysiology  
Clinical Assistant Professor,  
Department of Neurological Surgery  
and Neurology  
University of Pittsburgh Medical Center  
Pittsburgh, PA, USA

**Alexander V. Trashin, MD**

City Hospital #2, Medical Academy of  
Postgraduate Studies, Saint-Petersburg  
Saint-Petersburg, Russia

**Albert D. Tu, MD**

University of British Columbia,  
Vancouver General Hospital,  
British Columbia Cancer Agency  
Vancouver, Canada

**Elizabeth C. Tyler-Kabara, MD, PhD**

Assistant Professor, Departments of  
Neurological Surgery, Physical Medicine and  
Rehabilitation, and Bioengineering  
McGowan Institute of Regenerative Medicine  
University of Pittsburgh  
Children's Hospital of Pittsburgh  
Department of Pediatric Neurosurgery  
Pittsburgh, PA, USA

**James R. Tysome, MD, PhD**

Cambridge University Hospitals  
San Carlos, CA, USA

**Alex Vandergrift, MD**

Assistant Professor  
Division of Neurosurgery  
Department of Neurosciences  
Medical University of South Carolina  
Charleston, SC, USA

**Jamie J. Van Gompel, MD**

Mayo Clinic Rochester, MN  
Rochester, NY, USA

**Jason Van Rompaey, BS**

Georgia Health Sciences University,  
Department of Otolaryngology,  
Georgia Skull Base Center  
Augusta, GA, USA

**Mark A. Varvares, MD, FACS**

The Donald and Marlene Jerome Endowed  
Chair in Otolaryngology – Head and Neck  
Surgery  
Professor and Chairman, Department of  
Otolaryngology – Head and Neck Surgery  
Director, Saint Louis University Cancer Center  
St. Louis, MO, USA

**Allan Vescan, MD, FRCSC**

University of Toronto, Mount Sinai Hospital  
University Health Network  
Toronto, Canada

**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  
Pittsburgh, PA, USA

**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**

Division of Pediatric Neurosurgery  
NYU Langone Medical Center  
New York, NY, USA

**Ian Witterick, MD, MSc, FRCSC**

Mount Sinai Hospital  
Toronto, ON, Canada

**Richard Wong, MD**

Memorial Sloan-Kettering Cancer Center  
New York, NY, USA

**Vicky Yamamoto**

Keck School of Medicine of USC  
Los Angeles, CA, USA

**Nobutaka Yoshioka, MD**

Saiseikai Nakatsu Hospital  
Osaka, Japan

**Alexander Yu, MD**

Allegheny General Hospital,  
Drexel College of Medicine  
Pittsburgh, PA, USA

**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

## 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

“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 Microscopic Surgery for Cushing's Disease”





# FACULTY DISCLOSURES

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):

Name	Company	Role	Content
Vijay Anand	GE Medical Navigation	Consultant	
Ricardo Carrau	Storz Endoscopy	Speaker Bureau	
Steve Charles	Alcon	Consultant	
Carlos David	Codman Neurovascular	Consultant	
Anand Devaiah	OmniGuide CO2 Laser Surgery, Skull Base Surgery, Otolgic Surgery	Consultant	Development Agreement
Guenther C. Feigl	Storz	Honorarium	Other Activities
Melvin Field	Stryker Corp	Consultant	
Rick A. Friedman	Otonomy	Partner	N/A
Gary L. Gallia	Karl Storz Endoscopy Stryker	Research Support Review Panel, Research Support	
John G. Golfinos	Medtronic Stryker Viewray	Honorarium Honorarium Shareholder	Teach Skull Base Evaluate Instruments Stereotactic Radiation
Devon Haydon	IMRIS Inc. IMRIS Inc. supplied an unrestricted educational grant which helps maintain IMRIS procedural database	Other Financial Benefit	Other Activities
Carl Heilman	Medtronics Integra	Consultant Consultant	Teach Rhoton Skull Base Course with per diem Advice on CUSA ultrasonic aspirator
Daniel F. Kelly	Mizuho-America	Consultant	Royalties Pituitary Surgery
Dennis Kraus	Endoethicon	Speakers Bureau	N/A
Michael LaRouere	Benchmark Gamme Knife, LLC	Partial Owner	Stat Radiation
John Y. K. Lee	Baxter	Speaker	Hemostatis
Derrick T. Lin	Medtronic	One time consultant	
Lawrence J. Marentette	Stryker	Consultant	
Sam J. Marzo	Sozo Life	Science Advisory Board	Nutrition/Wellness
Maxwell B. Merkow	VisionSense LifeCell Baxter Stryker NSE	Honorarium Consulting Fee Other Financial Benefit Consultant	Speaking and/or Teaching Consulting Speaking and/or Teaching
Jayakar Nayak	Medtronic, USA Gurus-ACAI	R&D Consulting R&D Consulting	New Devices/Biometeriols and Sinus Surgery New Decives/Technology Sinus Surgery
J. Thomas Roland, Jr.	Cochlear America Advance Bionics	Advisory Board Member Advisory Board Member	
Chandranath Sen	Penumbra	Shareholder	N/A
Brent Senior	Brainlab Medtronic Olympus Gyrus	Consultant Consultant Consultant	Image Guidance Instruments Instruments
Allan D. Vescan	Merck Johnson + Johnson	Advisory Board Advisory Board	

*The following presenters, faculty, and program committee members do have financial relationships or significant commercial interest of which are not associated to the 2012 meeting:*

Chandranath Sen                      Pete Batra

---

*The Following presenters, faculty, and program committee members do not have any relevant financial relationships or significant commercial interest associated with their participation in the 2012 meeting:*

Waleed M. Abuzeid	Christopher Farrell	Ricky Madhok	Yury Shulev
Paul Ackerman	Daniel Fliss	Robert Malyapa	Carl H. Snyderman
Nithin Adappa	Juan Fernandez-Miranda	Spiros Manolidis	C. Arturo Solares
S. Agazzi	Kelly Gallagher	Edward McCoul	Hwa Son
Tamir Ailon	Abhiram Gande	Timothy M. McCulloch	Ashish Sonig
Ossama Al-Mefty	Ravi Gandhi	Nancy McLaughlin	Marko Spasic
George Al Shamy	Rohit Garg	Erin McKean	Hilda Elie Stambuk
Hussein Alahmadi	Paul Gardner	Mary G. Meeker	Robert Starke
Mario Ammirati	Fred Gentili	William Miele	James Stephen
David Altshuler	Anand V. Germanwala	Brian Milligan	Stephen Sullivan
Moran Amit	Ziv Gil	Candace Mitchell	Vaishali Suri
Suri Ashish	Michael Gleeson	Kris S. Moe	Ahsish Suri
Akram Awadalla	Bharat Guthikonda	Sandeep Mohindra	Bruce Tai
Ali Ayyad	Murali Guthikonda	Jacques Morcos	Jie Tang
Khaled Aziz	Trevor Hackman	Anil Nanda	Jai Thaku
Victoria Banuchi	Stephen J. Haines	Peter Neligan	Parthasarathy D Thirumala
Mustafa Baskaya	Ehab Y. Hanna	James Netterville	Alexander Trashin
Marvin Bergsneider	Carl Hardwidge	Steve A. Newman	Albert Tu
Randall Bly	Barry Hirsch	Lena Ning	James Tysome
James E. Boggan	Michael Hoa	Gustavo Nogueira	Elizabeth Tyler-Kabara
Michel W. Bojanowski	Stephen Hoff	Daniel W. Nuss	Jamie Van Gompel
Derald E. Brackmann	Gilad Horowitz	James O'Neill	Jason Van Rompaey
Ketan R. Bulsara	Tarik Ibrahim	Joshua Osburn	William A. Vandergrift
Nadieska Cabellero	Jeffrey Jacob	Alessandro Paluzzi	Mark A. Varvares
Emiro Caicedo-Granados	Dejan Jakimovski	Harshita Pant	Eric W. Wang
Matthew Carlson	John A. Jane, Jr	Smruti Patel	William Wei
Roy Casiano	Benjamin L. Judson	Snehal Patel	Allison Weyer
Victor Chang	Ashutosh Kacker	Mark Piedra	Matthew Whitley
Cleopatra Charalampaki	Kiran Kakarala	Daniel Pieper	Michelle Williams
Srinivas Chivukula	Yashar Kalani	Carlos Pinheiro-Neto	Jeffrey H. Wisoff
Winward Choy	Stephen Kang	Amy Pittman	Ian Witterick
Peter D. Costantino	Seth Kaplan	Alfio Piva	Richard Wong
William Copeland	Brian Kelley	Daniel M. Prevedello	Vicky Yamamoto
Peter G. Cordeiro	Robert Kellman	Vijay Ramakrishnan	Nobutaka Yoshioka
Roberto Cueva	Tyler Kenning	Christopher H. Rassekh	Alexander Yu
Aaron Cutler	Grace Kim	Rounak Rawal	Eugene Yu
Giovanni Danesi	Maria Koutourousiou	Shaan Raza	Gelareh Zadeh
Danielle De Lara	Michael Lawton	Albert L. Rhoton, Jr	Adam M. Zanation
Claudio De Tommasi	John Y. Lee	Howard A. Riina	Lee A. Zimmer
Raj Dedhia	Joung H. Lee	Marc R. Rosen	
Amir R. Dehdashti	John P. Leonetti	Sandeep Samant	The Staff of Science Care & the North American Skull Base Society do not have any relevant financial relationships or significant commercial interests associated with their participation in the 2012 meeting.
Franco DeMonte	Norbert J. Liebsch	Joshua Sappington	
Leo Ditzel Filho	James K. Liu	Ibrahim Sbeih	
Benjamin Dixon	Michael J. Link	Christopher Schutt	
Paul J. Donald	Gary Linkov	Marc Schwartz	
Angela Donaldson	Andrew Little	Theodore Schwartz	
Deepak Dugar	Bjorn Lobo	Laligam N. Sekhar	
Jean Anderson Eloy	Miguel Lopez-Gonzales	Jatin P. Shah	
James J. Evans	Shelly Lwu	Ammar Shaikhouni	

# MEETING FLOOR PLAN





# EXHIBITOR FLOOR PLAN



## BOOTH KEY

- |                                   |                              |
|-----------------------------------|------------------------------|
| 1 Cook Medical                    | 13 Carl Zeiss Meditec, Inc.  |
| 3 Medtronic Surgical Technologies | 14 Visionsense               |
| 4 Elliquence, LLC                 | 15 KLS Martin                |
| 5 Kelynam Global, Inc.            | 16 Integra                   |
| 6 NICO Corp.                      | 17 Apex Medical, Inc.        |
| 7 Biomet Microfixation            | 18 Covidien                  |
| 8 Mizuho America, Inc.            | 19 Stryker Instruments       |
| 9 Synthes CMF                     | 20 Stryker Instruments       |
| 10 Synthes Anspach                | 21 Stryker CMF               |
| 11 OsteoMed                       | 23 Thieme Medical Publishers |
| 12 OmniGuide, Inc.                | 24 Misonix, Inc.             |

# EXHIBITOR PROFILES

## **Apex Medical, Inc.**

100 Quaker Lane, Malvern, PA 19355  
PHONE: 610-240-4905 FAX: 610-240-4906  
www.apexmed.com

Apex works with leading neurosurgeons to make delicate, safe, sharp microsurgical dissection possible. We agree with one of the first neurosurgeons to use our arachnoid knives that, "everything before this has been micro-tearing." Find out why the leading neurosurgeons in the world are so excited about Apex Arachnoid Knives™.

**BOOTH #17**

## **Biomet Microfixation**

1520 Tradeport Dr., Jacksonville, FL 32218  
PHONE: 904-741-4400 FAX: 904-741-4500  
www.biometmicrofixation.com

**BOOTH #7**

## **Carl Zeiss Meditec, Inc.**

5160 Hacienda Dr., Dublin, CA 94568  
PHONE: 925-557-4100 FAX: 925-557-4298  
www.meditec.zeiss.com

**BOOTH #13**

Carl Zeiss pioneered the concept of the surgical microscope and today is the world's leading provider of surgical microscopes and visualization solutions. As an integrated medical technology company, Carl Zeiss is able to bundle research and development to accelerate future product innovations.

## **Cook Medical**

750 Daniels Way, P.O. Box 489, Bloomington, IN 47402-0489  
PHONE: 800-468-1379 FAX: 812-339-3704  
www.cookmedical.com

**BOOTH #1**

Cook Medical is a proven leader in minimally invasive medical devices. For nearly 50 years, our family-owned company has collaborated with pioneering clinicians to create solutions for better patient care. Today, that inventive spirit and passion for serving the patient is proudly championed by 10,000+ employees producing more than 16,000 products serving over 40 specialties.

## **Covidien**

15 Crosby Dr., Bedford, MA 01730  
PHONE: 781-839-1784 FAX: 781-839-1716  
www.covidien.com

**BOOTH #18**

The DURASEAL™ sealant is a fully synthetic absorbable material designed to assist surgeons in creating an intra-operative watertight seal when used as an adjunct to sutures for dural closure.

## **Elliquence, LLC**

2455 Grand Ave., Baldwin, NY 11510  
PHONE: 516-277-9000 FAX: 516-277-9001  
www.elliquence.com

**BOOTH #4**

Elliquence, LLC manufactures patented Radiowave technology with innovative devices for neurosurgery and spine procedures. Surgi-Max® Plus permits precision, tissue preservation, non-adherent bipolar effects and surgical versatility. Disc-FX® represents an innovative, 4-in-1 procedure for minimally invasive disectomy. Surgi-Max® Plus and navigational Trigger-Flex® permit annulus modulation and nucleus ablation.

## **Integra**

311 Enterprise Dr., Plainsboro, NJ 08536  
PHONE: 609-275-0500 FAX: 609-799-3297  
www.integralife.com

**BOOTH #16**

Integra is a leader in neurosurgery, offering a vast portfolio of implants, devices, instruments and systems used in neurosurgery, neuromonitoring, neurotrauma, and critical care. Integra LifeSciences, a world leader in medical devices, is dedicated to limiting uncertainty for surgeons, so they can concentrate on providing the best patient care.

## **Kelyniam Global, Inc.**

97 River Rd., Canton, CT 06019  
PHONE: 800-280-8192 FAX: 501-641-2000  
www.kelyniam.com

**BOOTH #5**

Kelyniam's PEEK-OPTIMA Custom Cranial Implants are designed and manufactured for each individual patient to correct or replace bony voids in the cranial skeleton caused by trauma, disease or congenital birth defects. Streamlined CAD/CAM design and manufacturing techniques enable Kelyniam to deliver precision fit, patient specific implants to surgeons in as little as 24 hours.

## **KLS Martin**

P.O. Box 16369, Jacksonville, FL 32245  
PHONE: 904-641-7746 FAX: 904-641-7378  
www.klsmartin.com

**BOOTH #15**

KLS Martin is a company dedicated to providing innovative medical devices and power systems for craniomaxillofacial surgery. The company's rich history began with surgical instrument production in Tuttlingen, Germany in 1896 and continued with miniplate production in 1975. KLS Martin has advanced the capabilities of distraction osteogenesis, and revolutionized resorbable fixation with the SonicWeld Rx system.

## **Medtronic Surgical Technologies**

6743 Southpoint Dr. North, Jacksonville, FL 32216  
PHONE: 904-296-9600 FAX: 904-281-0966  
www.medtronicENT.com

**BOOTH #3**

Medtronic Xomed is a leading developer, manufacturer and marketer of surgical products for use by ENT specialists, otolaryngologists, and head & neck surgeons. Medtronic Xomed markets over 4,000 products worldwide, including powered tissue-removal systems, curved blades and burs, other microendoscopy instruments, implantable devices, nerve monitoring systems, disposable fluid-control products, and image guidance products.

## **Misonix, Inc.**

1938 New Highway, Farmingdale, NY 11735  
PHONE: 631-694-9555 FAX: 631-694-3285  
www.misonix.com

**BOOTH #24**

Misonix, Inc. is a world leader in developing ultrasonic surgical devices for tissue-selective removal of either hard or soft tissues. Featured products are the BoneScalpel™, a novel ultrasonic osteotome for precise bone dissection with minimal trauma, and the SonaStar®, a modern and universal ultrasonic aspirator.

**Mizuho America, Inc.**

30057 Ahern Ave., Union City, CA 94587  
 PHONE: 800-699-2547 FAX: 510-324-4545  
[www.mizuho.com](http://www.mizuho.com)

Mizuho America, Inc. is a cerebrovascular focused instrumentation company whose main products include Sugita® T2 Aneurysm Clips, 7200B Operating Table, Micro-Instruments, Kelly Endonasal Set®, Lawton Neurovascular Bypass Set, Evans Rotatable Set, Day-Bailes Suction Tubes, and Intracranial & Vascular Dopplers. When it's Microsurgery, it's Mizuho.

**BOOTH #8****Stryker Instruments**

4100 E. Milham Ave., Kalamazoo, MI 49001  
 PHONE: 800-800-4236  
[www.stryker.com](http://www.stryker.com)

Stryker is one of the world's leading medical technology companies, dedicated to helping healthcare professionals perform their jobs more efficiently while enhancing patient care.

**BOOTH #19 & 20****Synthes Anspach**

4500 Riverside Dr., Palm Beach Gardens, FL 33410  
 PHONE: 561-627-1080 FAX: 561-273-2902  
[www.anspach.com](http://www.anspach.com)

Synthes Anspach manufactures high performance instrument systems for neurosurgery, neurotology, spinal procedures, and otolaryngology. Our power systems provide consistent power and smooth performance for even the most demanding applications. The advanced design of our instruments assures unparalleled performance and reliability, while allowing effortless assembly, meeting surgeon and staff needs.

**BOOTH #10****NICO Corp.**

9190 Priority Way W. Dr., Suite 203, Indianapolis, IN 46240  
 PHONE: 317-660-7118 FAX: 317-682-0305  
[www.niconeuro.com](http://www.niconeuro.com)

NICO Corporation is progressing minimally invasive corridor neurosurgery by creating instruments that allow for safe tumor and cyst removal through smaller openings. This provides neurosurgeons opportunities for less brain retraction, shorter total resection time, and precise control to achieve a more effective gross total resection. NICO's products offer the potential for less surgical trauma for patients, shorter hospital stays, better clinical outcomes, and improved clinical experiences.

**BOOTH #6****Synthes CMF**

1301 Goshen Parkway, West Chester, PA 19380  
 PHONE: 610-719-6500 FAX: 610-719-6533  
[www.synthes.com](http://www.synthes.com)

Synthes is a leading global medical device company. We develop, produce and market instruments, implants and biomaterials for the surgical fixation, correction and regeneration of the human skeleton and its soft tissues. Synthes CMF also supports North American AO ASIF Continuing Education courses.

**BOOTH #9****OmniGuide, Inc.**

1 Kendall Sq., Suite B1301, Cambridge, MA 02139  
 PHONE: 888-OMNIGUIDE FAX: 617-551-8445  
[www.omni-guide.com](http://www.omni-guide.com)

Dedicated to expanding the reach of minimally invasive surgery, OmniGuide brings to surgeons the precision of CO2 laser surgery, in an intuitive, flexible form, enabling precision surgery around intricate anatomy and near critical structures. OmniGuide will be featuring the new Intelliguide CO2 laser system at Booth #12.

**BOOTH #12****Thieme Medical Publishers**

333 7th Ave., New York, NY 10001  
 PHONE: 800-782-3488 FAX: 212-947-1112  
[www.thieme.com](http://www.thieme.com)

Thieme is an award-winning international medical and science publisher serving health professionals and students for more than 125 years. Thieme promotes the latest advancements in clinical practice, publishes the latest research findings, advocates medical education and is known for the high quality and didactic nature of its books, journals, and electronic products.

**BOOTH #23****OsteoMed**

3885 Arapaho Rd, Addison, TX 75001  
 PHONE: 972-677-4748 FAX: 972-677-4731  
[www.osteomed.com](http://www.osteomed.com)

OsteoMed is a global and innovative leader in the development and manufacturing of specialty surgical implants for the neurosurgical market. The OsteoMed philosophy focuses on improved patient outcomes through anatomically friendly technology, and designs created through critical input from surgeons for streamlined surgical techniques.

**BOOTH #11****Visionsense**

1270 Avenue of the Americas, Suite 302, New York, NY 10020  
 PHONE: 845-680-0233 FAX: 845-688-0234  
[www.visionsense.com](http://www.visionsense.com)

Visionsense develops novel visualization solutions that bring natural stereoscopic sight to minimally invasive surgery (MIS). With advanced sensor technology and proprietary software, the Visionsense system delivers depth perception, high resolution images and maneuvering flexibility through the smallest access diameters.

**BOOTH #14****Stryker CMF**

750 Trade Centre Way, Suite 200, Portage, MI 49002  
 PHONE: 877-534-2464 FAX: 877-648-7114  
[www.stryker.com](http://www.stryker.com)

Stryker is one of the world's leading medical technology companies and is dedicated to helping healthcare professionals perform their jobs more efficiently while enhancing patient care. The company offers a diverse array of innovative medical technologies including reconstructive implants, medical and surgical equipment, and neurotechnology and spine products to help people lead more active and more satisfying lives.

**BOOTH #21**

The Visionsense VSII solution is based on a single, miniature stereoscopic (3D) sensor that imitates an insect's compound eye. With stereo vision capabilities, surgeons gain enhanced tissue understanding, improved hand eye coordination and the confidence to use advanced (articulating) surgical tools, thus opening the door for new, unique surgical developments.



# SPEAKER HIGHLIGHTS

## KEYNOTE SPEAKER: STEVE CHARLES, MD



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.

## KEYNOTE SPEAKER: MARY MEEKER



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.

## KEYNOTE SPEAKER: WILLIAM WEI, MD

*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 MB,BS from The University of Hong Kong. In 1979, he obtained the FRCSE in general surgery, followed by FACS in 1984 and FRCSE 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.

# SCHEDULE-AT-A-GLANCE

## 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)  
MODERATOR: Carl Heilman, MD, PANELISTS: James Liu, MD & Chandra Sen, MD Sunset 5/6

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**

Celebrity 1/2

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**

Mezzanine

10:30 am – 12:00 pm **PLENARY SESSION I**

Celebrity 1/2

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**

Celebrity 3

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
- Proffered Paper Session II: *Chordoma* – MODERATORS: Gary Gallia, MD & Chris Rassekh, MD Sunset 2
- Proffered Paper Session III: *Endoscopic Techniques* – MODERATORS: Jean Eloy, MD & John Y. K. Lee, MD Sunset 3/4
- Proffered Paper Session IV: *General* – MODERATORS: Ehab Hanna, MD & Daniel Prevedello, MD Celebrity 1/2

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 Sunset 2
- Proffered Paper Session VI: *Innovative Technologies* – MODERATORS: Ricky Madhok, MD & Eric Wang, MD Celebrity 1/2
- Proffered Paper Session VII: *Meningioma* – MODERATORS: Ketan Bulsara, MD & Melvin Field, MD Sunset 3/4
- Proffered Paper Session VIII: *Rehab, Temp Bone* – MODERATORS: Peter Costantino, MD & Giovanni Dansei, MD Sunset 5/6

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: Otolology – 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**

*Celebrity 1/2*

- 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 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 *Sunset 2*  
MODERATOR: Steven Newman, MD, PANELISTS: Mario Ammirati, MD, Peter Cordeiro, MD & Howard Krauss, MD  
#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: Otolology: 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: *Radical Surgery* – 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: *Otolology* – 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 McKean, 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

Proffered 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

Proffered Papers XIX: *General* – MODERATORS: Harshita Pant, MD & Daniel Pieper, MD

*Sunset 5/6*

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





# PRE-MEETING COURSES

WEDNESDAY/THURSDAY, FEBRUARY 15-16, 2012

*\*additional registration fee*

## Practical Course Dissection Workshop, Open & Endoscopic Approaches to the Skull Base at the Medical Innovations and Training Institute in Henderson, NV

**BOTH COURSES:** Shuttles will leave promptly from Planet Hollywood at 7:00am. Please meet in hotel lobby for departure.

**FEBRUARY 15th:** Science Care designates this educational activity for a maximum of **8.5 AMA PRA Category 1 Credit(s)**<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**FEBRUARY 16th:** Science Care designates this educational activity for a maximum of **8.25 AMA PRA Category 1 Credit(s)**<sup>™</sup>. 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*<sup>™</sup>

**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 Approaches – *Theodore Schwartz, MD*  
8:40 am Endoscopic Approaches to Craniopharyngiomas – *John Jane, MD*  
9:00 am Indications and Limitations for Endoscopic Skull Base Surgeries – *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 Approaches – *Dennis Kraus, MD & Sandeep Samant, MD*  
8:30 am Lecture: Cranial Orbital Zygomatic Approaches – *Carlos David, MD*  
8:50 am Dissection Lab  
10:30 am **Break**
- MIDDLE MODULE**  
10:45 am Lecture: Lateral Preauricular Infratemporal Approaches – *Daniel Nuss, MD*  
11:05 am Lecture: Middle Fossa Approaches – *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**

# SCIENTIFIC PROGRAM

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**

Celebrity 1/2

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**

Mezzanine

10:30 am – 12:00 pm **PLENARY SESSION I**

Celebrity 1/2

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**

Celebrity 3

*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 BILOBITOFONTAL 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, Junichi Yamamoto, Alan S. Boulos, 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), Guy Efuno, Carlos L 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. McKean, Stephen E. Sullivan, University of Michigan*
- 011** ESTABLISHMENT AND INITIAL CHARACTERIZATION OF A PRIMARY HUMAN CHORDOMA XENOGRAFT MODEL – *I-Mei Siu, 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. Loevner, 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. McKean, University of Michigan Health System*
- 014** CLIVUS CHORDOMA – *Ibrahim Sbeih (presenter), Ibn Alhytham 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), Joung 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 TRANSEPITAL 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*
- 021** ENDOSCOPIC NASOSEPTAL FLAP REPAIR OF SKULL BASE DEFECTS: IS ADDITION OF A DURAL SEALANT NECESSARY? – *Jean Anderson Eloy (presenter), Arjuna B. Kuperan, Mark E. Friedel, Chirag D. Patel, Pratik A. Shukla, Osama J. Choudhry, James K. Liu, Center for Skull Base and Pituitary Surgery, Neurological Institute of New Jersey, University of Medicine and Dentistry of New Jersey, Newark, NJ*
- 022** PEDICLED NASOSEPTAL FLAP PRESERVATION FOR ENDOSCOPIC RECONSTRUCTION OF THE CRANIAL BASE: TECHNIQUE AND APPROACH – *Seth E. Kaplan (presenter), Donald D. Beahm, Tyler J. Kenning, Christopher J. Farrell, James J. Evans, Marc R. Rosen, Thomas Jefferson University*
- 023** ENDOSCOPIC ENDONASAL VERSUS MICROSCOPIC TRANSPHENOIDAL AND OPEN TRANSCRANIAL APPROACHES FOR GIANT PITUITARY ADENOMAS – *Daniel M. Raper, Ricardo J. Komotar, Robert M. Starke (presenter), Vijay K. Anand, Theodore H. Schwartz, Royal North Shore Hospital; University of Miami; University of Virginia; Weill Cornell Medical College*

**024** THE ROLE OF ENDOSCOPIC ENDONASAL APPROACH IN THE TREATMENT OF CAVERNOUS SINUS MENINGIOMA – *Daniel M. Prevedello, Ammar Shaikhouni (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 MENINGIOMAS – *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

*Celebrity 1/2*

**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*

**031** ENDOSCOPIC ENDONASAL PITUITARY SURGERY: PATIENT AND SOCIETAL COSTS OF SURGICAL EDUCATION – *Raj C. Dedhia (presenter), Christopher Lord, Carlos Pinheiro-Neto, Juan C. Fernandez-Miranda, Eric W. Wang, Paul A. Gardner, Carl H. Snyderman, University of Pittsburgh*

**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 *Sunset 2*

**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, Zuofeng 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, 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 Whitley (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 Tatagiba, University Hospital Tuebingen, Department of Neurosurgery, Department of Neuroradiology, Tuebingen, Germany*



- 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, Zuofeng 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, 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 Whitley (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, Univeristy 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 (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 Tatagiba, University Hospital Tuebingen, Department of Neurosurgery, Department of Neuroradiology, Tuebingen Germany*

- 051** POSTERIOR CAVERNOUS ANTERIOR TRANSPETROSAL POSTEROMEDIAL RHOMBOID (DOLENC-KAWASE RHOMBOID) APPROACH TO POSTERIOR CAVERNOUS AND PETROCLIVAL 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 – *Shahzad Jalali, Takafumi 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 Suki, 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 RECURRENCE – *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 PETROCLIVAL 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** PETROCLIVAL MENINGIOMAS – *Ibrahim Sbeih (presenter), Ibn Alhytham Hospital*

- 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), Amit Agrawal, Enver Ozer, Ricardo Carrau, 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. Carrau, 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**

*Celebrity 1/2*

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 & Lalgam 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

*Sunset 2*

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

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

*Celebrity 1/2*

PANELISTS: Ossama Al-Mefty, MD, Norbert Liebsch, MD, Lalgam 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*

**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 RECURRENCE 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. Mafaldo, 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 ACROMEGALY – *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**

Mezzanine

1:00 pm – 2:00 pm **CONCURRENT SESSIONS**

#13: Otolaryngology: 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

**074** PETROUS APEX CHOLESTEROL GRANULOMAS: ENDONASAL VS. INFRACOCHELEAR APPROACH – *Tiago F. Scopel, Juan C Fernandez-Miranda, Carlos D. Pinheiro-Neto (presenter), Maria Peris-Celda, Alessandro Paluzzi, Barry E. Hirsch, Paul A. Gardner, Carl H. Snyderman, University of Pittsburgh*

**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), Nael 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 TRANSVERSE AND SIGMOID SINUS JUNCTION: APPLICATION IN VERTICAL EXTENSION OF SUBOCCIPITAL CRANIOTOMY – *Ashish Sonig (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. Braca, Avinash V. 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*

- 084** TUMOR CONTROL RATES USING LINAC RADIOSURGERY IN TREATMENT OF GROWING VESTIBULAR SCHWANNOMAS – *Peter A. Gooderham, Albert D. Tu (presenter), Brian Westerberg, Brian D. Toyota, Ryojo Akagami, University of British Columbia, Vancouver General Hospital, British Columbia Cancer Agency*
- 085** OUTCOMES OF STEREOTACTIC RADIOSURGERY AND STEREOTACTIC RADIOTHERAPY FOR THE TREATMENT OF VESTIBULAR SCHWANNOMA – *Marko Spasic (presenter), Patrick Pezeshkain, Brendan Fong, Winward Choy, Teo Soleymani, Daniel Nagasawa, Garni Barkhoudarian, Alessandra Gorgulho, Antonio De Salles, Isaac Yang, UCLA Department of Neurosurgery*
- 086** ROLE OF RADIATION THERAPY IN CLINICAL HORMONALLY-ACTIVE PITUITARY ADENOMAS: AN UPDATE OF THEIR EFFICACY AND SAFETY – *Houman Pebdani, Soroush Larijani, Idara Edem, Boris Krischek, Richard Tsang, Fred Gentili, Gelareh Zadeh (presenter), University of Toronto*
- 087** DOES PRETREATMENT GROWTH RATE OF VESTIBULAR SCHWANNOMAS PREDICT RESPONSE TO RADIOSURGERY AND ADVERSE RADIATION EFFECTS? – *Soroush Larjani, Houman Pebdani, Caroline Hayhurst, Michael Cusimano, Fred Gentili, Gelareh Zadeh (presenter), University of Toronto*
- 088** SURVIVAL IN SQUAMOUS CELL CARCINOMA OF THE TEMPORAL BONE: 1965-2011 – *Mitchell R Gore (presenter), Adam M Zanation, University of North Carolina at Chapel Hill*
- 089** TEMPORAL MENINGOENCEPHALOCELES: DIAGNOSTIC PITFALLS, SURGICAL REPAIR, AND ASSOCIATED PATHOLOGIES – *Hwa J Son (presenter), Alexandre A Karkas, Ravi N Samy, Philip V Theodosopoulos, Myles L Pensak, University of Cincinnati*
- 090** SURGERY FOR TEMPORAL BONE ENCEPHALOCELES: A REVIEW OF 85 CASES – *Spiros Manolidis (presenter), Raj Shrivastava, Albert Einstein College of Medicine, Beth Israel Hospital, Roosevelt Hospital*
- 091** IMMEDIATE SINGLE-STAGE RECONSTRUCTION OF COMPLEX FRONTOFACIOBASAL INJURIES – *Akram M. Awadalla (presenter), Hesham Ezaldeen, Nagla F. Mohamed, North west armed hospital (KSA)- Zagazig university(Egypt)*

**Proffered Papers XII: Vascular Lesions** – MODERATORS: Anand Germanwala, MD & James Liu, MD

Sunset 3/4

- 092** 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*
- 093** META-ANALYSIS OF PUBLISHED DATA ON OUTCOME OF ENDOSCOPIC VERSUS OPEN MANAGEMENT OF JUVENILE NASOPHARYNGEAL ANGIOFIBROMAS – *Ashutosh Kacker (presenter), Joshua Halpern, Jeffery Liu, Theodore H Schwartz, Michael G Stewart, Weill Cornell Medical College, New York, NY, USA*
- 094** 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.*
- 095** DISSECTING CIRCLE OF WILLIS ARTERIES VIA ENDOSCOPIC ENDONASAL TECHNIQUES – *Anand V Germanwala (presenter), Adam M Zanation, Murray Ramanathan, Johns Hopkins School of Medicine, University of North Carolina School of Medicine*
- 096** SUPRAORBITAL KEY HOLE APPROACH FOR ANEURYSM – *Ali Ayyad (presenter), Martin Glaser, department of neurosurgery, Johannes Gutenberg university*
- 097** 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*
- 098** VASCULAR LESIONS OF THE SKULL BASE: CORRELATION WITH IMAGING – *Elon Granader (presenter), Ashok Srinivasan, University of Michigan Hospital and Health Systems*
- 099** 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*
- 100** EXTRADURAL TRANSCAVERNOUS APPROACH TO CAVERNOUS SINUS HEMANGIOMAS: SERIES OF 12 CASES – *Ashish Suri (presenter), All India Institute of Medical Sciences, New Delhi, India*

**Proffered Papers XIII: Otology** – MODERATORS: Rick Friedman MD, PhD & Barry Hirsch, MD

Sunset 5/6

- 101** SURGICAL SALVAGE OF ACOUSTIC NEUROMA AFTER FAILED RADIATION TREATMENT – *Rick A Friedman (presenter), Karen Berliner, Marc Bassim, Joseph Usick, Marc S Schwartz, Derald E Brackmann, House Clinic and House Research Institute*
- 102** FACIAL NERVE SCHWANNOMAS OF THE CEREBELLOPONTINE ANGLE: THE MAYO CLINIC EXPERIENCE – *Jeffrey T Jacob (presenter), Colin L Driscoll, Michael J Link, Mayo Clinic*
- 103** THE LEARNING CURVE FOR SURGICAL RESECTION OF VESTIBULAR SCHWANNOMA – *Tamir Ailon (presenter), Ryojo Akagami, University of British Columbia*
- 104** 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*



**105 SURGICAL MANAGEMENT OF ENDOLYMPHATIC SAC TUMORS** – Michael Hoa (presenter), Rick A. Friedman, Derald E. Brackmann, House Clinic

**106 RETROSPECTIVE REVIEW OF TEGMEN DEHISCENCE PRESENTATION AND REPAIR USING A COMBINED TRANSMASTOID & MIDDLE CRANIAL FOSSA APPROACH** – Melvin Field, Aftab Patni, Lena Ning (presenter), Florida Hospital Neuroscience Institute; University of Central Florida College of Medicine

**107 ACOUSTIC NEUROMA TREATMENT AND SYMPTOMATOLOGY: 25 YEAR TRENDS BASED ON ANALYSIS OF PATIENT SURVEYS FROM THE ACOUSTIC NEUROMA ASSOCIATION** – J. Patel, R. Vasani, S. Agazzi (presenter), JM Sweeney, G. Danner, A. S. Youssef, H. van Loveren, USF Health: Department of Neurosurgery and Brain Repair

**108 THE ANATOMICALLY INTACT BUT ELECTRICALLY UNRESPONSIVE FACIAL NERVE FOLLOWING VESTIBULAR SCHWANNOMA RESECTION** – Matthew L. Carlson (presenter), Kathryn M. Van Abel, William R. Schmitt, Colin L. Driscoll, Charles W. Beatty, Brian A. Neff, Michael J Link, Department of Otorhinolaryngology – Head and Neck Surgery, Division of Neurotology & Skull Base Surgery, Department of Neurological Surgery, Mayo Clinic, Rochester, Minnesota

**109 USE OF PREOPERATIVE MRI TO PREDICT VESTIBULAR SCHWANNOMA INTRAOPERATIVE CONSISTENCY AND FACIAL NERVE OUTCOME** – William R. Copeland (presenter), Jason M. Hoover, Jonathan M. Morris, Brian A. Neff, Colin Driscoll, Fredric B. Meyer, Michael J. Link, 1) Department of Neurologic Surgery, Mayo Clinic, Rochester, Minnesota 2) Department of Radiology, Mayo Clinic, Rochester, Minnesota 3) Department of Otorhinolaryngology, Mayo Clinic, Rochester, Minnesota

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 McKean, MD & Steve Sullivan, MD

Sunset 2

**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, Mrudula Penta, Liyue Tong, John Truelson, University of Texas Southwestern Medical Center

**111 OUTCOMES OF ENDOSCOPIC ENDONASAL RESECTION OF ESTHESIONEUROBLASTOMA** – 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 ESTHESIONEUROBLASTOMA: UPDATING HISTOLOGIC GRADING AS IT RELATES TO PROGNOSIS** – Kelly Gallagher (presenter), Jon Paul Pepper, Emily Light, Erin McKean, 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 TRANCONJUNCTIVAL 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 ASPERGILLOSIS 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

Sunset 3/4

**119 SURGICAL MANAGEMENT OF SKULL BASE ENCEPHALOCELES** – Daniel M Prevedello, Danielle de Lara (presenter), Leo F S Ditzel Filho, Rodrigo C Mafaldo, 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 TRANSPERTERYGOID APPROACH TO MENINGOENCEPHALOCELE REPAIR** – Nadieska Caballero (presenter), Kevin Welch, Lauren Lininger, 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

**124** QUALITY OF LIFE AFTER TRANSSPHENOIDAL PITUITARY SURGERY: A QUALITATIVE STUDY – Shelly Lwu (presenter), Mark Bernstein, Gelareh Zadeh, Fred Gentili, University of Toronto

**125** RADIOGRAPHIC ENHANCEMENT OF THE VASCULARIZED NASOSEPTAL FLAP DOES NOT PREDICT CSF LEAKS – Nithin D. Adappa (presenter), Kim Learned, James N. Palmer, Jason G Newman, John Y. Lee, University of Pennsylvania Perelman School of Medicine

**Proffered Papers XVI: General** – MODERATOR: Allan Vescan, MD

Celebrity 1/2

**126** FIRST BITE SYNDROME: INCIDENCE, RISK FACTORS, TREATMENT, AND OUTCOMES – Gary Linkov (presenter), Luc G Morris, Jatin P Shah, Dennis H Kraus, Head and Neck Service, Memorial Sloan-Kettering Cancer Center, New York, NY

**127** PRELIMINARY VALIDATION OF A CLINICAL INSTRUMENT FOR RHINOLOGICAL OUTCOMES IN ENDONASAL ANTERIOR SKULL BASE SURGERY: THE ANTERIOR SKULL BASE NASAL INVENTORY – Andrew S Little (presenter), Peter Nakaji, John Milligan, William White, Barrow Neurological Institute

**128** INTRANASAL CROSS-SECTIONAL AREA CHANGES FOLLOWING ENDOSCOPIC SKULL BASE SURGERY AND THEIR RELATION TO POST-OPERATIVE QUALITY-OF-LIFE – Jeffrey C Bedrosian (presenter), Edward D McCoul, Vijay K Anand, Theodore H Schwartz, Departments of Otolaryngology—Head and Neck Surgery and Neurological Surgery, Weill Cornell Medical College, New York Presbyterian Hospital, New York, New York

**129** HYPOGLOSSAL SCHWANNOMAS: SINGLE INSTITUTIONAL EXPERIENCE OF 14 CASES – Ashish Suri (presenter), Sumit Bansal, Bhawani Sharma, Ashok K Mahapatra, Sharad S Kale, Sarat P Chandra, Manmohan Singh, Rajender Kumar, Manish Sharma, All India Institute of Medical Sciences, New Delhi, India

**130** ENDOSCOPIC TRANSPTERYGOID NASOPHARYNGECTOMY: CORRELATION OF SURGICAL ANATOMY WITH MULTIPLANAR CT – Seyed Mousa Sadr Hosseini, Nancy McLaughlin, Ricardo L. Carrau (presenter), Daniel M. Prevedello, Adam Zanation, Juan C. Fernandez-Miranda, Amin B. Kassam, Department of Otolaryngology-Head & Neck Surgeries Vali-E-Asr Hospital, Ohio State University Medical Center, University of North Carolina; Department of Neurological Surgeries UCLA, Ohio State University Medical Center, UPMC and University of Ottawa

**131** TRANS-ORBITAL APPROACH TO SPHENOORBITAL MENINGIOMAS. SELECTED CASES SERIES – Alfio P Piva (presenter), University of Costa Rica

**132** INCIDENCE AND SIGNIFICANCE OF INTRAOPERATIVE CSF LEAK IN ENDOSCOPIC PITUITARY SURGERY USING INTRATHECAL FLUORESCHEIN – Dejan Jakimovski (presenter), Greg Bonci, A. Tsiouris, Theodore Schwartz, Weill Cornell Medical College, Department of Neurological Surgery

**Proffered Papers XVII: Sellar/Suprasellar** – MODERATORS: Mario Ammirati, MD & Lee Zimmer, MD

Sunset 5/6

**133** “PSEUDOCAPSULAR” RESECTION OF PITUITARY ADENOMAS: TECHNICAL NUANCES AND UNEXPECTED CONSEQUENCES – Marvin Bergsneider (presenter), Marilene B. Wang, Jeffrey Suh, UCLA

**134** COMPARISON OF THE OUTCOMES OF ENDOSCOPIC AND MICROSCOPIC SURGERY IN CUSHING’S DISEASE – Hussein Alahmadi (presenter), Kenneth Woo, Ameen Mohammed, Michael Cusimano, Jeannette Goguen, Harley Smyth, Kalman Covacs, University of Toronto

**135** SILENT CORTICOTROPH ADENOMAS, A CLINICAL AND PATHOLOGICAL COMPARISON WITH NON-FUNCTIONAL ADENOMAS – Hussein Alahmadi (presenter), Daniel Lee, Caroline Hayhurst, S. Asa, O. Mete, Fred Gentili, Gelareh Zadeh, University of Toronto

**136** ENDONASAL MANAGEMENT OF SELLAR ARACHNOID CYSTS: SIMPLE CYST OBLITERATION TECHNIQUE – Nancy McLaughlin (presenter), Alexander Vandergrift, Leo FS Ditzel Filho, Kiarash Shahlaie, Amy Eisenberg, Ricardo L. Carrau, Daniel F. Kelly, Brain Tumor Center, John Wayne Cancer Institute at Saint John’s Health Center, Santa Monica, CA, USA; Department of Head and Neck Surgery, Ohio State, Columbus, Ohio USA; Department of Medicine, UCLA School of Medicine, Los Angeles, CA, USA

**137** MINIMIZING INTRA-OPERATIVE CSF LEAKS IN ENDONASAL ENDOSCOPIC TRANS-SPHENOIDAL PITUITARY SURGERY: TECHNICAL CONSIDERATIONS & CASE SERIES REVIEW – Claudio De Tommasi (presenter), Jennifer Anderson, John Lee, Michael Cusimano, University of Toronto, Saint Michael’s Hospital

**138** A RELATIONSHIP BETWEEN SPHENOID SINUS ANATOMY AND SUPRASELLAR EXTENSION OF PITUITARY TUMORS? – Vijay R. Ramakrishnan (presenter), Bert W O’Malley, James N. Palmer, University of Colorado, University of Pennsylvania

**139** GIANT INVASIVE PITUITARY ADENOMA – Ibrahim Sbeih (presenter), Ibn Alhytham Hospital

**140** ENDOSCOPIC ENDONASAL APPROACH FOR GIANT PITUITARY ADENOMAS: ADVANTAGES AND LIMITATIONS – Maria Koutourousiou (presenter), Juan C. Fernandez-Miranda, Carl H. H Snyderman, Paul A. Gardner, Department of Neurological Surgery and Department of Otolaryngology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

**141** RECONSTRUCTION OF THE INTRASSELLAR TUMOR RESECTION CAVITY IS NOT NECESSARY TO PREVENT OPTIC CHIASM PROLAPSE FOLLOWING TRANSSPHENOIDAL REMOVAL OF PITUITARY MACROADENOMAS – Christopher J. Farrell (presenter), Raul Sharma, Tyler Kenning, D. D. Beahm, Madeleine R. Shaberg, Marc R. Rosen, James J. Evans, Thomas Jefferson University

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

**Preferred 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 SELLAR 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*

**150** META-ANALYSIS OF CSF LEAK RATE FOLLOWING SKULL BASE RECONSTRUCTION WITH AND WITHOUT VASCULARIZED LOCAL PEDICLED FLAPS – *Jeffrey C. Bedrosian (presenter), Edward D. McCoul, Vijay K. Anand, Theodore H. Schwartz, Departments of Otolaryngology—Head and Neck Surgery and Neurological Surgery, Weill Cornell Medical College, New York Presbyterian Hospital, New York, New York*

**151** ANTERIORLY BASED INFERIOR TURBINATE FLAP FOR ENDOSCOPIC SKULL RECONSTRUCTION – *Ziv Gil (presenter), Nevo Margalit, Tel-Aviv Sourasky Medical Center, Sackler School of Medicine, Tel Aviv University*

**152** MIDDLE TURBINATE VASCULARIZED FLAP: APPLICATIONS IN SKULL BASE RECONSTRUCTION – *Bradley A. Otto, Ricardo L. Carrau (presenter), Danielle M. Prevedello, Matthew O. Old, Leo F. Ditzel Filho, Danielle de Lara, Rodrigo C Mafaldo, The Ohio State University Medical Center*

**153v** TRIPLE-LAYER RECONSTRUCTION TECHNIQUE FOR LARGE CRIBRIFORM DEFECTS AFTER ENDOSCOPIC ENDONASAL RESECTION OF ANTERIOR SKULL BASE TUMORS – *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*

9:00 am – 10:00 am **CONCURRENT SESSIONS**

#19: Cranial Reconstruction

Celebrity 1/2

MODERATOR: Lawrence Marentette, MD, 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

**Preferred 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 Stefko, Juan C. Fernandez-Miranda, Paul Gardner, Carl Snyderman, Joseph Maroon, Center for Skull Base Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA*

**145** PRESERVATION OF MULTIDIMENSIONAL QUALITY-OF-LIFE AFTER ENDOSCOPIC RESECTION OF PITUITARY ADENOMA – *Edward D. McCoul (presenter), Vijay K. Anand, Jeffrey C Bedrosian, Theodore H. Schwartz, Weill Cornell Medical College, New York, NY*

**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 Sourasky Medical Center, Sackler School of Medicine, Tel Aviv University*

**147** THE TRANSPALATAL APPROACH TO REPAIR OF CONGENITAL BASAL SPHENOETHMOIDAL MENINGOCELES – *Stephen R. Hoff (presenter), Peter J Koltai, 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*



# POSTER SESSIONS

Posters will be open during all exhibit hours on Mezzanine Level

**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. Elwatidy (presenter), Zain Jamjoom, Walid Murshid, College of Medicine, King Saud University

**156 MANAGEMENT OF PEDIATRIC NASAL DERMoids** – 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 at 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 SINONASAL TERATOCARCINOSARCOMA: A RARE NEOPLASM OF THE ANTERIOR SKULL BASE** – Poonam Misra, Peter Sunaryo, Ada Baisre, 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 SINONASAL 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 Infirmiry/Massachusetts General Hospital Cranial Base Center; Department of Neurosurgery, Massachusetts General Hospital; Department of Radiation Oncology, Massachusetts

**164 ENDOSCOPIC ENDONASAL RESECTION OF A GROOVE MENINGIOMA WITH OLFATORY 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

**165 SEPTAL TRANSPOSITION: A NOVEL TECHNIQUE FOR PRESERVATION OF THE NASAL SEPTUM DURING ENDOSCOPIC ENDONASAL RESECTION OF OLFATORY GROOVE MENINGIOMAS** – Madeleine R. Schaberg (presenter), Christopher J. Farrell, Mindy Rabinowitz, James J. Evans, Marc R. Rosen, The New York Eye and Ear Infirmiry and Jefferson Medical College

**166 THE UNILATERAL ENDOSCOPIC ENDONASAL TRANSSPHENOIDAL 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 Infirmiry 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 Koutourousiou (presenter), Stephanie L. Henry, Matthew J. Tormenti, Alexandro 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. Barrese (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

**174 CONCURRENT PITUITARY ADENOMA AND CHORDOMA** – Stephen Y. Kang (presenter), Matthew E. Spector, Stephen E. Sullivan, Erin L. McKean, University of Michigan

**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. Baidya (presenter), Mohamed A. Ragaee, Mario Ammirati, Department of Neurological Surgery, Ohio State University Medical Center, Columbus, Ohio



**177 INTRADURAL ENDOSCOPE-ASSISTED ANTERIOR CLINOIDECTOMY: A CADAVERIC STUDY** – Nishanta B. Baidya (presenter), Chi-Tun Tang, Mario Ammirati, Department of Neurological Surgery, The Ohio State University, Columbus, Ohio, USA

**178 ENDOSCOPIC, TRANSNASAL, TRANSLIVAL RESECTION OF A PONTINE CAVERNOMA** – Matthew R. Sanborn, James Stephen (presenter), Philip B. Storm, Nithin D. Adappa, James N. Palmer, Jason Newman, John Y. Lee, Perelman School of Medicine, Hospital of the University of Pennsylvania

**179 WITHDRAWN**

**180 DELIBERATE DESIGN OF THE POSTERIOR SEPTECTOMY DURING TRANSPHENOIDAL ENDOSCOPIC SKULL BASE SURGERY TO HARVEST SEPTAL TISSUE FOR POTENTIAL SKULL BASE RECONSTRUCTION** – Devyani Lal (presenter), Naresh P. Patel, Mayo Clinic, Arizona

**181 ANTERIOR PEDICLE LATERAL NASAL WALL FLAP: A NOVEL TECHNIQUE FOR THE RECONSTRUCTION OF ANTERIOR SKULL BASE DEFECTS** – G. Hadad, C. Rivera-Serrano, L. Bassagasteguy, R. L. Carrau (presenter), D. M. Prevedello, J. Fernandez-Miranda, A. B. Kassam, B. A. Otto, The Ohio State University, Medical School Ciudad del Rosario

**182 POSTERIOR PEDICLE LATERAL NASAL WALL FLAP: A NEW RECONSTRUCTIVE TECHNIQUE FOR LARGE DEFECTS OF THE SKULL BASE** – G. Hadad, C. Rivera-Serrano, L. Bassagasteguy, R. L. Carrau, J. Fernandez-Miranda, A. B. Kassam, B. A. Otto (presenter), The Ohio State University, Medical School Ciudad del Rosario

**183 PRESERVATION OF OLFATORY FUNCTION FOLLOWING ENDOSCOPIC RESECTION OF SELECT MALIGNANCIES OF THE NASAL VAULT** – Y. K. Ong, A. Solares, R. L. Carrau (presenter), D. M. Prevedello, A. B. Kassam, B. A. Otto, M. Old, The Ohio State University, University of Georgia Health Center

**184 ENDOSCOPIC HARVEST OF FASCIA LATA FREE FLAP IN A CADAVERIC MODEL** – Peter S. Amenta (presenter), Michael Lynn, Tyler Kenning, Troy J. DeRose, Marc Rosen, James Evans, Thomas Jefferson University Hospital/Department of Neurosurgery/Department of Otolaryngology

**185 TRANSNASAL COMPLETELY ENDOSCOPIC RESECTION OF PITUITARY TUMORS USING A BINOSTRIL, FOUR-HANDED TECHNIQUE WHILE PRESERVING THE POTENTIAL FOR NASOSEPTAL FLAP RECONSTRUCTION: THE SUBSEPTAL APPROACH** – Justin M. Sweeney (presenter), Majestic Tam, James T. May, Rohit Vasan, Harry R. van Loveren, Mark H. Tabor, University of South Florida, Departments of Neurosurgery & Otolaryngology

**186 IMPACT OF CHEMOTHERAPY AND RADIOTHERAPY ON THE SUCCESS OF CEREBROSPINAL FLUID LEAK REPAIR AFTER TRANSNASAL ENDOSCOPIC RESECTION OF SKULL BASE TUMORS** – Marcus V. Ortega Alves (presenter), Nicholas B. Levine, Franco DeMonte, Ehab Y. Hanna, Michael E. Kupferman, MD, Anderson Medical Cancer Center

**187 AN INSTITUTIONAL WORKFLOW MODEL FOR ANATOMICAL SEGMENTATION IN ADVANCED IMAGE-GUIDED SKULL BASE SURGERY** – Stephan K. Haerle (presenter), Michael J. Daly, Harley Chan, Allan D. Vescan, Gelareh Zadeh, Ian J. Witterick, Jonathan C. Irish, Princess Margaret Hospital, University Health Network Toronto, University of Toronto, Canada

**188 COMBINED ENDOSCOPIC ENDONASAL TRANSORBITAL APPROACH WITH TRANSCONJUNCTIVAL-MEDIAL ORBITOTOMY FOR EXCISIONAL BIOPSY OF THE OPTIC NERVE – A TECHNICAL NOTE** – Maria Koutourousiou (presenter), Susan T. Stefko, Alexandro Paluzzi, Matthew J. Tormenti, Juan C. Fernandez-Miranda, Carl H. Snyderman, Joseph C. Maroon, Paul A. Gardner, Department of Neurological Surgery, Departments of Ophthalmology and Department of Otolaryngology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

**189 ENDOSCOPIC TRANSPHENOIDAL ENDONASAL APPROACH FOR LARGE PITUITARY ADENOMA WITH EXTRAPRASELLAR EXTENSION** – Ali Ayyad (presenter), Jens Conrad, Department of Neurosurgery, Johannes Gutenberg University

**190 INCIDENCE AND MANAGEMENT OF EPISTAXIS AFTER ENDOSCOPIC SKULL BASE SURGERY** – Jeffrey D. Suh (presenter), Marvin Bergsneider, Marilene B. Wang, University of California, Los Angeles

**191 EVOLUTION OF A MICROSURGICAL TO ENDOSCOPIC PRACTICE FOR TREATMENT OF PITUITARY TUMORS AND SKULL BASE LESIONS: IMPORTANCE OF MULTI-DISCIPLINARY TEAM APPROACH AND LEARNING CURVE** – 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

**192 MODIFIED HEMI-LOTHROP PROCEDURE FOR SUPRAORBITAL ETHMOID LESION ACCESS** – Mark E. Friedel, Shawn Li, Paul D. Langer, James K. Liu, Jean Anderson Eloy (presenter), Center for Skull Base and Pituitary Surgery, Neurological Institute of New Jersey, University of Medicine and Dentistry of New Jersey, Newark, NJ

**193 ENDONASAL ACCESS TO THE UPPER CERVICAL SPINE-CADAVERIC ANALYSIS** – Harminder Singh, Robert M. Lober (presenter), Hector Lopez, Marc Rosen, James Evans, Stanford Hospitals and Clinics, Thomas Jefferson University Hospital

**194 TRANSORBITAL NEUROENDOSCOPIC MANAGEMENT OF SINOGENIC COMPLICATIONS INVOLVING THE FRONTAL SINUS, ORBIT AND ANTERIOR CRANIAL FOSSA** – Jae H. Lim (presenter), Maya Sardesai, Manuel Ferreira, Kris Moe, University of Washington

**195 THE ROLE OF ENDOSCOPIC ENDONASAL SURGERY IN PETROCLIVAL CHONDROSARCOMA** – Matthew J. Tormenti (presenter), Alessandro Paluzzi, Maria Koutoutousiou, Juan C. Fernandez-Miranda, Carl H. Snyderman, Paul A. Gardner, University of Pittsburgh Medical Center

**196 ENDOSCOPIC ENDONASAL EXPANDED - KAWASE'S APPROACH: SURGICAL TECHNIQUE AND OUTCOME** – Daniel M. Prevedello M. Prevedello, Rodrigo C. Mafaldo, Danielle de Lara, Leo F. Ditzel Filho (presenter), Bradley A. Otto, Ricardo L. Carrau, The Ohio State University Medical Center, Columbus, OH

**197 TRANSORBITAL NEUROENDOSCOPIC SURGERY OF THE MIDDLE CRANIAL FOSSA BY LATERAL RETROCANTHAL APPROACH** – Robert Oxford (presenter), Randy Bly, Louis Kim, Kris Moe, University of Washington, Seattle, WA, USA

**198 WITHDRAWN**

**199 FRONTAL SINUS WINDOW FOR MINIMALLY INVASIVE ACCESS TO THE FRONTAL SINUS AND ANTERIOR SKULL BASE** – Bradley A. Otto, Ricardo L. Carrau (presenter), Daniel M. Prevedello, Matthew O. Old, Danielle de Lara, Leo F. Ditzel Filho, Rodrigo C. Mafaldo, The Ohio State University Medical Center

**200 A VISUAL INTRODUCTION TO THE ADAPTATION OF THE PEDICLED FLAP IN ENDOSCOPIC RECONSTRUCTION OF CRANIAL BASE** – Houman Pabdani, Soroush Larijani, 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), Stephen E. Sullivan, Erin L. McKean, 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. McKean (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, Symeon Missios, Jim Saunders, Kadir Erkmen, Dartmouth-Hitchcock Medical Center

**210 ANATOMIC CAUSES FOR TRIGEMINAL AND FACIAL NERVE DYSFUNCTION IN PATIENTS WITH VESTIBULAR SCHWANNOMAS** – 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), Xuwei Xia, Masaru Ishii, Douglas D. Reh, Gary L. Gallia, Johns Hopkins Hospital

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

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

**215 MIDDLE CRANIAL FOSSA APPROACH FOR REPAIR OF TEGMEN TYMPANI 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, Louisiana State University Health Science Center - Shreveport

**217 SYMPTOMATIC ADULT CHIARI I MALFORMATION: POSTERIOR FOSSA MORPHOMETRIC ANALYSIS AND CLINICAL OUTCOMES** – Jai D. Thakur (presenter), Rishi Wadhwa, Ashish Sonig, Shihao Zhang, Imad S. Khan, Josh Martin, Anil Nanda, Bharat Guthikonda, LSUHSC-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** – Darshni Vira (presenter), Adam S. DeConde, Marilene 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** – Shahrzad Jalali, Warren Foltz, Kelly 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, Manmohan 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

**224 UTILITY OF 18FDG-PET IN THE INITIAL DIAGNOSIS AND WORKUP OF SINONASAL MALIGNANCY** – Vijay R. Ramakrishnan (presenter), Alexander G. Chiu, James N. Palmer, David W. Kennedy, Bert W. O'Malley, University of Colorado, University of Arizona, University of Pennsylvania

**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 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 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 FACTORS CONTRIBUTING TOWARDS DELAY IN DIAGNOSIS OF SINONASAL NATURAL KILLER/T-CELL LYMPHOMA** – David Jung (presenter), Stacey T. Gray, Massachusetts Eye and Ear Infirmary

**229 SCHWANNOMAS OF THE NASOPHARYNX AND PTERYGOPALATINE FOSSA** – Michael Shohet, Shira Koss (presenter), Mount Sinai School of Medicine

**230 METASTATIC DISEASE TO THE CLIVUS MIMICKING A CLIVAL CHORDOMA** – Adam S. DeConde (presenter), Darshni Vira, Marvin Bergsneider, Marilene B. Wang, UCLA

**231 INTRAOPERATIVE HYPERTENSIVE CRISIS DUE A CATECHOLAMINE-SECRETING ESTHESIONEUROBLASTOMA** – Vafi Salmasi (presenter), Adam Schiavi, Brent A. Orr, Douglas W. Ball, Zev A. Binder, Masaru Ishii, Gary L. Gallia, Johns Hopkins Hospital

**232 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 SINONASAL ADENOCARCINOMA: A SINGLE SURGEON'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 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 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 RARE SKULL BASE BENIGN TUMORS – POSTER** – Mihaela Cristiana Tatu (presenter), Central Military Hospital

**237 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 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 INNOVATIVE USE OF THE O-ARM FOR SKULL BASE RESECTION IN A SPHENOORBITAL MENINGIOMA** – Edward E. Kerr (presenter), Kiarash Shahlaie, Brian Dahlin, Rudolph J Schrot, University of California Davis Medical Center

**240 DETECTION AND MANAGEMENT OF SKULL BASE CEREBROSPINAL FLUID LEAKS USING HRCT-MRI FUSION IMAGING** – Satish Govindaraj, Bradley Delman, Abib A. Agbetoba (presenter), Joshua B. Bederson, Mount Sinai Medical Center

**241 VESTIBULAR MONITORING VIA ABDUCENS EMG: OBSERVATIONS ON A SINGLE CASE** – Matthew Hanson (presenter), Christopher Mascarinas, Nicholas Post, John Miller, State University of New York Health Science Center at Brooklyn

**242 COMPARATIVE ANALYSIS OF FIESTA VERSUS CONVENTIONAL IMAGING FOR ASSESSMENT OF CEREBELLOPONTINE ANGLE EPIDERMOID TUMORS** – Osamah 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 IS RETROSIGMOID APPROACH ADEQUATE FOR RESECTION OF PETROCLIVAL MENINGIOMAS** – Sherif M. Elwatidy (presenter), Zain Jamjoom, College of Medicine, King Saud university

**244 COMBINED SUPRA-INFRA-TENTORIAL MICROSURGICAL APPROACH FOR PETRO-CLIVAL AND TENTORIAL-INCISURAL EXTRA-AXIAL LESIONS** – Hamad I. Farhat (presenter), Michael Schinners, Jin C. Zhao, Richard Wiet, Ivan Ciric, NorthShore University HealthSystem

**245 ANTERIOR SKULL BASE RHABDOID MENINGIOMA MASQUERADING AS ESTHESIONEUROBLASTOMA** – Sriram V. Eleswarapu, Darrin J. Lee (presenter), Arthur B. Dublin, E. Bradley Strong, Quang Luu, Kiarash Shahlaie, Departments of Neurological Surgery, Radiology, and Otolaryngology, University of California, Davis School of Medicine, USA

**246 CLINICAL CHARACTERISTICS AND SURGICAL MANAGEMENT OF ATYPICAL MENINGIOMAS OF THE SKULL BASE** – Joshua W. Osburn (presenter), Michael R. Levitt, Manuel Ferreira, Laligam N. Sekhar, The University of Washington, Department of Neurological Surgery

**247 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 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 A PROSPECTIVE QUALITATIVE STUDY ON PATIENTS' PERCEPTIONS OF ENDOSCOPIC ENDONASAL TRANSPHENOIDAL SURGERY** – Idara J. Edem, Beverly Banton, Mark Bernstein, Shelly Lwu, Allan Vescan, Fred Gentilli, Gelareh Zadeh (presenter), Division of Neurosurgery, Toronto Western Hospital, University of Toronto

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

**251 FACTORS AFFECTING POROUS HIGH-DENSITY POLYETHYLENE IMPLANT EXPOSURE IN PATIENTS UNDERGOING ENDOSCOPIC TRANSPHENOIDAL RESECTION OF SELLAR LESIONS** – Spencer C. Payne (presenter), Brian Hughley, Yemisi Afere, John A. Jane Jr, University of Virginia

**252 IMAGING FEATURES OF SKULL-BASED TUMORS, WITH SPECIAL ATTENTION TO THE CENTRAL SKULL BASE** – Arnold Saha, Peter Thurlow, Melanie B. Fukui, 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** – Chiazio 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 Arnaut, Bernard R. Bendok, James P. Chandler, Northwestern University McGaw Medical Center Department of Neurosurgery, Chicago, IL

**258 IDIOPATHIC GRANULOMATOUS HYPOPHYSITIS PRESENTING AS PITUITARY APOPLEXY: A RARE MANIFESTATION OF A RARE DISORDER** – Osamah J. Choudhry (presenter), Alexandros Zouzas, Leroy Sharer, Jean Anderson Eloy, James K. Liu, Center for Skull Base and Pituitary Surgery, Neurological Institute of New Jersey, Newark, NJ

**259 ENDOSCOPIC TRANSNASAL 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 TRANSTENTORIAL 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 Neurological Surgery, University of Alabama at Birmingham

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

**266 ENDOSCOPIC ENDONASAL DISSECTION OF THE INFRATEMPORAL FOSSA: ANATOMIC RELATIONSHIPS AND IMPORTANCE OF EUSTACHIAN TUBE IN ENDOSCOPIC SKULL BASE SURGERY** – R. Terre Falcon, C. Rivera-Serrano, R. L. Carrau (presenter), J. Fernandez-Miranda, D. M. Prevedello, C. H. Snyderman, A. B. Kassam, The Ohio State University Medical Center, University of Pittsburgh, University of Ottawa

**267 PRACTICAL SURGICAL LANDMARKS FOR THE PLANNING OF A TRANSPTERYGOID ENDOSCOPIC ENDONASAL APPROACH** – R. L. Carrau (presenter), B. A. Otto, D. M. Prevedello, C. Pinheiro-Neto, L. Ditzel, D. de Lara, R. Mafaldo, The Ohio State University Medical Center

**268 FIRST STAGE IN PREDICATIVE 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 VEIN OF LABBÉ: APPLICATION TO NEUROSURGICAL PROCEDURES** – Martin M. Mortazavi (presenter), Christoph J. Griessenauer, Shane Tubbs, Robert G. Louise Jr., Young-Bin Song, Marios Loukas, Mohammadali Shoja, 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, Alessandro 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 SINONASAL CARCINOSARCOMA: A CASE REPORT AND LITERATURE REVIEW** – Benjamin A. Talei (presenter), Bhupesh Parashar, David I. Kutler, 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

**276 POST-TRAUMATIC MUCOCLES: DOES ENCEPHALOMALACIA PREDICT ADVANCED DISEASE?** – William R. Schmitt (presenter), Matthew L. Carlson, Eric J. Moore, Mayo Clinic - Rochester

**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 MIDLINE LESION** – Vikram V. Nayar, Dana E. Adkins (presenter), Georgetown University Hospital
- 280 THE OCCIPITAL TRANSTENTORIAL 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 JUGULOTYMPANIC PARANGLIOMAS- 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 ASYSTOLE DURING SURGICAL REMOVAL OF A GIANT CEREBELLOPONTINE ANGLE HEMANGIOBLASTOMA** – John C. Quinn (presenter), Yuriy Gubenko, Jame 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 ASYSTOLE 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 PSEUDOANEURYSM** – 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 PSEUDOANEURYSM 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 RETROCLIVAL JUNCTION** – Juan Carlos De Battista (presenter), Norberto Andaluz, Ondrej Choutka, Lee Zimmer, Jeffrey Keller, University of Cincinnati
- 288 POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDER OF THE TEMPORAL BONE: REPORT OF A UNIQUE CASE AND DISCUSSION** – Eric E. Berg (presenter), Ken Kazahaya, Luv Javia, The Children's Hospital of Philadelphia
- 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 HSJ Institute of Dental Sciences and Hospital, Panjab University
- 291 LABYRINTHINE ARTERY ANEURYSM 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
- 295 ATYPICAL SCHWANNOMA: A 10 YEAR EXPERIENCE** – Selena E. Heman-Ackah (presenter), Maura K. Cosetti, John G. Golfinos, John T. Roland, New York University
- 296 COMPLICATIONS IN ACOUSTIC NEUROMA MICROSURGERY: PROGRESS SINCE THE TURN OF THE CENTURY** – Selena E Heman-Ackah (presenter), Maura K Cosetti, John G Golfinos, John T Roland, New York University
- 297 USE OF A RECIPROCATING SUCTION MICRODEBRIDER FOR RESECTION VIA THE MIDDLE FOSSA APPROACH OF ACOUSTIC NEUROMAS WITH SIGNIFICANT CEREBELLOPONTINE ANGLE 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 D. Deschler, Michael J McKenna, Derrick T. Lin, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Indiana University School of Medicine
- 301 SPONTANEOUS OTOGENIC 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 SYNOVITIS 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 PAPILOMA 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** – Mihaela 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

SAVE-THE-DATE

# 23rd Annual North American Skull Base Society Meeting

February 15-17, 2013 with Pre-Meeting Practical Dissection Course, February 13-14, 2013

MIAMI, FLORIDA



## CALL-FOR ABSTRACTS

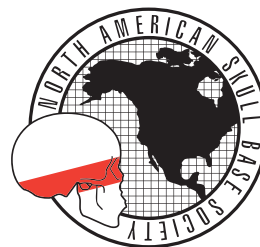
Submissions will open May 2012

NASBS will be accepting online submissions for oral or poster presentations. Topics Include:

- Anterior Cranial base
- Sellar/Suprasellar Tumors
- Head and Neck Tumors
- Skull Base Vascular Lesions
- Temporal Bone/Otology/Acoustic Tumors
- Endoscopic Techniques
- Meningiomas
- Chordomas
- Skull Base Radiosurgery
- Skull Base Anatomy
- Innovative Technologies
- Skull Base Trauma
- Rehabilitation
- General Topics

We encourage everyone to submit an abstract, whether or not you are a member of the NASBS. For general information regarding the meeting please contact:

**Contact:** Maribeth Balon  
310-424-3326, ext. 125, Maribeth@nasbs.org



[WWW.NASBS.ORG](http://WWW.NASBS.ORG)

