# Table of Contents

- Officers and Committees ......................................................... 3 - 4
- Honored Guests ................................................................. 5 - 7
- General Information ........................................................... 8 - 10
- Meeting Room Floor Plan ......................................................... 11
- Program Information ............................................................ 12 - 25
- Scientific Posters ................................................................. 26 - 27
- Exhibitors Floor Plan ............................................................. 28
- Exhibitors ................................................................. 29 - 35
- Future Meetings ................................................................. 36
- Membership Application Form ................................................ 37
16th Annual Meeting

OFFICERS AND COMMITTEES

NORTH AMERICAN SKULL BASE SOCIETY

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NORTH AMERICAN SKULL BASE SOCIETY

2004 COMMITTEES

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Sandeep Samant, MD
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Robert Lorenz, MD
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Co-Chairman: Ashok Shaha, MD
Fred Gentili, MD
Randall Weber, MD

History & Archives Committee
Chairman: Jatin Shah, MD
Derald Brackman, MD
Paul Donald, MD
Steven Newman, MD
Laligam Sekhar, MD

Journal Committee
Chairman: Patrick Gullane, MD
Jatin Shah, MD
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James Netterville, MD
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Jonathan Irish, MD
Mark Linsky, MD

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John Leonetti, MD
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1990 Paul J. Donald, MD
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1994 Albert L. Rhoton Jr., MD
1995 Hugh D. Curtin, MD
1996 Derald E. Brackmann, MD
1997 Ossama Al-Mefty, MD
1998 Steven A. Newman, MD
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
HONORED GUESTS

Each year, the North American Skull Base Society honors one or several individuals who has made major contributions to one of the disciplines dealing with the management of patients with diseases of the skull base. This year, President Patrick Gullane has chosen to honor Mr. Anthony Cheeseman, Dr. Alan Hudson, and Dr. Joram Raveh.

HONORED GUEST

ANTHONY D. CHEESEMAN, MD

Mr. Anthony Tony Cheeseman was born in Shoreham-by-Sea, Sussex, UK in 1939. He received his MD Degree from the University of London in 1965 and became Fellow of the Royal College of Surgeons, England in 1969. He served as Consultant Surgeon, Royal National Throat, Nose and Ear Hospital, London from 1974-2001. Mr. Cheeseman held many leadership positions in Professional Organizations, including: President Section of Laryngology-Rhinology 1994-1995; Senior Member of European Skull Base Study Group; Founding Member International Skull Base Society; Founding Member British Society for Skull Base Surgery and Secretary of World Federation of Skull Base Societies.

Mr. Cheeseman has received numerous honors and awards during his career including: McBride Lectureship, University of Edinburgh for his pioneering work on “Craniofacial Resections for Tumors of the Nose and Sinus, 1982; The W.J. Harrison Prize, Royal Society of Medicine, 1985; Yearsley Lecturer for “Surgical Speech Rehabilitation”, 1991; Hunterian Professor, Royal College of Surgeons, 1994-95; Honorary Fellowship, Royal College of Speech and Language Therapists, 1995; Walter Jobson Horne Prize, British medical Association, 1996 and Semon Lectureship, University of London, 1999.

He has published 102 peer-reviewed publications and contributed 27 chapters in textbooks.

His early pioneering work on “Anterior Craniofacial Resections for Tumors of the Nose and Sinuses” using a mini craniotomy was extremely visionary and helped to set the stage for the “Subcranial Approach” and more recently, minimal access surgical innovations.
ALAN HUDSON, OC

Dr. Alan Hudson was born in Cape Town in 1938 and received his MB degree from the University of Cape Town in 1960. He then embarked on a surgical career obtaining his Fellowship in General Surgery from Royal College of Surgeons, Edinburgh in 1964 and in Neurosurgery from the Royal College of Surgeons, Canada in 1968. In 1969 he was selected as the McLaughlin Fellow – Department of Human Anatomy, Oxford England. In 1979 Dr. Hudson was appointed as Chair, Department of Neurosurgery, University of Toronto and in 1989 he was selected as the McCutcheon Chair and Surgeon-in-Chief at the Toronto Hospital. He served in this position until 1991 when he became President and CEO of the University Health Network, Toronto. In 2002 he was appointed as President and CEO – Cancer Care Ontario and in 2003, Professor Emeritus, Department of Surgery, University of Toronto.

He has received numerous honors and awards during his career including: The Bruce Tovee Teaching Award, Department of Surgery, University of Toronto, 1980; Honorary President, World Federation of Neurosurgical Societies, 1986; Honorary Doctors Degree, Tokushima – 1988 and Honorary Fellow College of Physicians and Surgeons – South Africa, 1992. He was named to the Order of Canada, Officer in, 2000; establishment of Alan and Susan Hudson Chair in Neurosurgery, University of Toronto, 2000 for his contributions to neurosurgery; Salute to the City Award, 2002 and Queen’s Jubilee Medal, 2003.

His pioneering work on tumors of the “Brachial Plexus” including their surgical management helped to revolutionize the surgical outcome of these complex neoplasms.

He has published 125 peer-reviewed publications, 2 textbooks and numerous chapters to books.

We are privileged to have this “Pioneer Neurosurgeon, Educator and Leader” as our Guest of Honor.
16th Annual Meeting

HONORED GUESTS

JORAM RAVEH, MD, DMD

Dr. Joram Raveh was born in Tel-Aviv, Israel, in 1940. He received his DMD from the University of Berne, Switzerland in 1967 and his MD from the University of Tel-Aviv in 1972. Dr. Raveh is Board Certified in the disciplines of Maxillofacial Surgery (University of Tel-Aviv) and Otolaryngology-Head and Neck Surgery (University of Berne). This training enabled him to develop and establish a unique Department in Berne which includes all aspects of both disciplines, including major skull base surgery and facial plastic and reconstructive surgery. In 1985 he was Appointed as Head, Full Professor and Active Member of the Faculty of Medicine, University of Berne. Since 1978 he has developed multiple new surgical methods which have helped to enhance the disciplines of Otolaryngology-Head and Neck Surgery, Skull Base and Maxillofacial Surgery.

Dr. Raveh has held numerous leadership positions in professional Organizations including the European Skull Base Society. His participation in the North American Societies has included invitation to Annual Meetings and Courses of the North American Skull Base Society and the American Academy of Otolaryngology-Head and Neck Society where he was awarded the AAO-HNS Foundation Certificate of Honour in 1997.

His pioneering work on Anterior and Central Skull Base Surgery included the development of the “Subcranial Approach” which has been adopted by all Specialties and has helped to enhance patient outcome and minimize morbidity. The “Subcranial Approach” has resulted in major advances to the management of Skull Base injuries avoiding frontal lobe retraction and enabling Skull Base reconstruction including optic nerve decompression within the first “Golden Hours”.

Dr. Raveh has delivered numerous keynote presentations at International Society Meetings. He has published 112 peer-reviewed papers in Scientific Journals and 17 book chapters.

His innovative surgical techniques and approaches in Skull Base Surgery have gained Global Impact. We are privileged to have this “Pioneer Anterior Skull Base Surgeon” amongst us today as our Guest of Honor.

PAST HONORED GUESTS

| 1990 | Edwin W. Cocke Jr., MD |
| 1991 | Leonard I. Malis, MD |
| 1992 | Madjid Samii, MD |
| 1993 | Michael E. Glasscock III, MD |
| 1994 | Johannes Lang, MD |
| 1995 | Robert G. Ojemann, MD |
| 1996 | Kurt F. Schurmann, MD |
| 1997 | Peter M. Som, MD |
| 1998 | Kil Soo Choi, MD |
| 1999 | Dwight Parkinson, MD |
| 2000 | Naoaki Yanagihara, MD |
| 2001 | Derald E. Brackmann, MD |
| 2002 | Peter J. Jannetta, MD |
| 2003 | T.A.H (Rab) Hide, FRCS |
| 2004 | Wolfgang Draf, MD |
| 2005 | Albert L. Rhoton Jr., MD |
| 2006 | M. Gazi Yasargil, MD |
| 2007 | Paul J. Donald, MD |
| 2008 | Alfred S. Ketcham, MD |
| 2009 | John S. Lewis, MD |
GENERAL INFORMATION

MEETING LOCATION
All scientific sessions for the Annual Meeting of the North American Skull Base Society (NASBS) will be held at the Westin Harbour Castle Hotel in Toronto, Ontario, Canada.

REGISTRATION
On-site registration for the meeting will be held at the Westin Harbour Castle Hotel at the following times:
- Thursday, April 7: 2:00 p.m. – 6:00 p.m.
- Friday, April 8: 7:00 a.m. – 5:30 p.m.
- Saturday, April 9: 7:00 a.m. – 5:30 p.m.
- Sunday, April 10: 7:00 a.m. – 1:00 p.m.

GUEST REGISTRATION
Spouses or guests of registrants, who do not attend the scientific sessions, may register as a guest. The guest registration fee includes the President’s Reception, Wine & Cheese Reception, and the Annual Banquet.

EXHIBIT HOURS
- Friday, April 8: 6:00 p.m. – 8:00 p.m.
- Saturday, April 9: 7:00 a.m. – 3:30 p.m.
- Sunday, April 10: 7:00 a.m. – 1:00 p.m.

SPEAKER READY ROOM
A Speaker Ready Room will be available for all presenters to use. You are urged to visit the Speaker Ready Room to confirm your audio/visual needs and review your presentation. An audio/visual technician will be available to assist you. Hours of operation:
- Friday, April 8: 7:30 a.m. – 5:30 p.m.
- Saturday, April 9: 7:00 a.m. – 5:30 p.m.
- Sunday, April 10: 7:00 a.m. – 1:00 p.m.

DISCLOSURE OF COMMERCIAL RELATIONSHIPS
As a sponsor accredited by the Accreditation Council for Continuing Medical Education, the Society and the Continuing Medical Education Committee of the North American Skull Base Society must insure balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. All speakers and faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity (significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stock holder, member of speakers bureau, etc.) The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker’s interests or relationships may influence the presentation with regard to exposition or conclusion. Presenters are also expected to disclose if their presentation includes discussion of any pharmaceutical products or medical devices that are considered investigational (not FDA approved use; “off label”).

MEMBERSHIP IN THE NORTH AMERICAN SKULL BASE SOCIETY
The fee for membership in the North American Skull Base Society is $275.00 per year. Membership in the society includes a discounted fee to the annual meeting, practical courses, the society newsletter, and the journal Skull Base: An Interdisciplinary Approach. For information on joining NASBS, please call the society’s headquarters at 703-437-4377 or visit the website at www.nasbs.org.
16th Annual Meeting

GENERAL INFORMATION

SUPPORT TO THE SOCIETY
We gratefully acknowledge the following companies for providing financial support for the Annual Meeting:

Advanced Bionics  
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ANNUAL MEETING EDUCATIONAL OBJECTIVES
Through participation in this Annual Meeting, members of the North American Skull Base Society and other attendees will have the opportunity to:

• Discuss the evolving role of minimally invasive and endoscopic skull base surgery; identify the potential of new technologies in neuro-navigation and stereotaxis;
• Discuss the developing alternative treatment modalities, such as stereotactic radio surgery that can be utilized for management of tumors of the skull base;
• Review the status of medical alternatives to traditional surgery, such as medical and hormonal therapy and gene manipulation.
• Recognize the potential complications of skull base surgery with particular emphasis on identifying pre-operative risk factors and intra-operative warning signs;
• Describe the importance of short-term care and recognize the potential and limitations in long-term rehabilitation for patients with skull base lesions;
• Discuss the recent advances in skull base pathology and surgery.

CME ACCREDITATION
The North American Skull Base Society is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians. The NASBS designates Category 1 credit towards the AMA Physician’s Recognition Award for the Annual Meeting for up to 18.75 hours. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.
16th Annual Meeting

GENERAL INFORMATION

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

MEETING LANGUAGE
The language used at the meeting will be English.

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

TRANSPORTATION TO PEARSON AIRPORT AT THE CONCLUSION OF THE MEETING
NASBS has arranged for buses to take meeting attendees and their guests from the Westin Harbour Castle Hotel to Pearson Airport on Sunday, April 10. Please notify the NASBS staff at the meeting registration desk by no later than 4:00 p.m. on Friday, April 8, if you plan to use this service. All buses will depart promptly at 1:30 from the hotel. Please plan to find alternate transportation if your travel plans do not fit with the 1:30 departure time.

Society ties

The NASBS Society necktie is available for purchase at the meeting registration desk. The cost per tie is $35.00.
THE WESTIN HARBOUR CASTLE
TORONTO
FLOOR PLAN
16th Annual Meeting

PROGRAM INFORMATION

THURSDAY, APRIL 7, 2005

2:00 PM - 6:00 PM  Registration Open
Metro East Foyer

6:00 PM - 8:00 PM  President’s Welcome Reception
Regatta Room

FRIDAY, APRIL 8, 2005

7:00 AM - 5:30 PM  Registration Open
Metro East Foyer

7:00 AM - 7:50 AM  Continental Breakfast
Metro Foyer

Plenary Session #1

8:00 AM - 8:10 AM  Opening Remarks by the President: Patrick J. Gullane
Program Overview: Peter Neligan and Carl Heilman
Metro West

8:10 AM - 9:30 AM  Panel #1: Progress and Controversies in Skull Base Tumor Management.
Endoscopic Approaches, Open Approaches, Radiation Oncology
Paul Donald (Moderator), Carl Snyderman, Ossama Al-Mefty, Brian O’Sullivan
Metro West

9:30 AM - 9:50 AM  Update of New Available Technology from Industry of Use to the Skull Base Surgeon
Carl B. Heilman
Metro West

9:50 AM – 10:00 AM  Introduction of Honored Guests
Mr. Anthony Cheesman, Dr. Alan Hudson, and Dr. Joram Raveh

10:00 AM - 10:30 AM  Refreshment Break
Metro Foyer

10:30 AM - 11:30 AM  Panel #2: Management of Paragangliomas
John Waldron (Moderator), John Leonetti, Bernard Cummings
Metro West

11:30 AM - 12:00 Noon  Presidential Address: Patrick J. Gullane
“If you come to a fork in the road...take it”
Metro West

12:00 Noon - 12:15 PM  NASBS Lifetime Achievement Award: Dr. Albert Rhoton
Introduction by Jon Robertson
Metro West

12:15 PM - 1:30 PM  Lunch
Metro East
Plenary Session #2

1:30 PM - 2:00 PM
Metro West

Keynote Address: The Future of Imaging and Navigation
David Jaffrey, PhD
Introduced by: Johnathan Irish

2:00 PM - 3:00 PM
Metro West

Tumor Board
Dennis Kraus (Moderator),
Peter Batra, Mark Bilsky, Jonathan Irish, Amin Kassam, Norbert Liebsch

3:00 PM - 3:30 PM
Metro Foyer

Refreshment Break

3:30 PM - 5:30 PM
Metro West

Proferred Papers – Oral Presentations
Scientific Session A-1
Abstracts # 1-6

Moderators:
Michael Cusimano
Daniel Nuss

3:30 PM - 3:36 PM
Abstract #1
Endoscopic Endonasal Surgery of Clivus Lesions
Carl Heilman, MD (presenter), Donald Annino DDS, MD, James Kryzanski, MD (Boston, USA)

3:36 PM - 3:42 PM
Abstract #2
Complete Endoscopic Resection of Esthesioneuroblastoma
Umamaheswar Duvvuri Uma Duvvuri MD PhD (presenter), Ricardo Carrau, MD,
Carl Snyderman, MD, Amin Kassam, MD (Pittsburgh, USA)

3:42 PM - 3:48 PM
Abstract #3
Endoscopic Endonasal Trans sphenoidal Approach in 83 Patients
José Alberto Landeiro, MD (presenter), (Rio de Janeiro, Brazil)

3:48 PM - 3:54 PM
DISCUSSION

3:54 PM - 4:00 PM
Abstract #4
New Horizons in Endoscopic Endonasal Skull Base Surgery
Theodore H. Schwartz, MD (presenter), Vijay K. Anand, MD (New York, USA)

4:00 PM - 4:06 PM
Abstract #5
Resection of Anterior Skull Base Tumors: Comparison of Combined Traditional and
Endoscopic Approaches
Pete S. Batra, MD (presenter), C. Arturo Solares, MD; Martin J. Citardi, MD; Joung Lee, MD;
Donald C. Lanza, MD (Cleveland, USA)
16th Annual Meeting

PROGRAM INFORMATION

4:06 PM - 4:12 PM
Abstract #6
Endoscopic Repair of Cerebrospinal Fluid Leaks of the Sinonasal Tract
Ricardo L. Carrau, MD (presenter), Amin B. Kassam, MD, Carl H. Snyderman, MD, Michael Horowitz, MD (Pittsburgh, USA)

4:12 PM - 4:18 PM
DISCUSSION

Abstracts # 7 – 15

Moderators:
Stephen Haines
Sandeep Samant

4:18 PM - 4:24 PM
Abstract #7
Craniofacial Resection of Skull Base Tumors: Decreasing Perioperative Complications and Morbidity
Khalid Chowdhury, MD, MBA (presenter), John P. Campana, MD (Denver, USA)

4:24 PM - 4:30 PM
Abstract #8
Causes Of Perioperative Death In Skull Base Surgery
Paul J. Donald, MD (presenter), (Sacramento, USA)

4:30 PM - 4:36 PM
Abstract #9
Severe Epistaxis from Metastatic Renal Cell Carcinoma: Management of a Difficult Case
Carl Snyderman (presenter), Michael Horowitz, MD Amin Kassam, MD (Pittsburgh, USA)

4:36 PM - 4:42 PM
DISCUSSION

4:42 PM - 4:48 PM
Abstract #10
Exposure of the Distal Cervical Internal Carotid Artery: Surgical Anatomy and Morphometric Study
Jeffrey T. Keller, PhD (presenter), Federica Beretta, MD; Mario Zuccarello, MD (Cincinnati, USA)

4:48 PM - 4:54 PM
Abstract #11
Anatomical Motivation, Preoperative Planning and Use of Transglabellar-Transethmoidal (TGL-TE) Approach for Removal of Large and Giant Tumors of Sellar Region
Yuri Shulev, MD, PhD (presenter), Jamil Rzaev, MD; Hovanes Hakobyan, MD (St. Petersburg, Russia)

4:54 PM - 5:00 PM
Abstract #12
The Subfrontal Versus The Subcranial Approach – Variations and Indications
Nevo Margalit, MD (presenter), Ziv Gil, MD; Dan Fliss, MD (Tel Aviv, Israel)

5:00PM - 5-06 PM
DISCUSSION

5:06 PM - 5:12 PM
Abstract #13
Posterior Midline Approach for Large Anterior/Anterolateral Foramen Magnum Tumours
S.K. Gupta, M.Ch (presenter), R.Chhabra, M.Ch.; K.K.Mukherjee, M.Ch.; S.Mohindra, M.Ch.; V.K.Khosla, M.Ch. (Chandigarh, India)
16th Annual Meeting

PROGRAM INFORMATION

5:12 PM - 5:18 PM
Abstract #14
Combined Presigmoid Surgical Approaches: Indications, Anatomy, Techniques, Results and Complications
Jacques J. Morcos, MD, FRCS(Eng), FRCS(Ed) (presenter), Mustafa Baskaya, MD; Ernesto Coscarella MD (Miami, USA)

5:18 PM - 5:24 PM
Abstract #15
Quantification of Exposure of the Petrous Internal Carotid Artery Using the Transzygomatic Extended Middle Fossa Approach: A Cadaveric Morphometric Study
James K. Liu, MD (presenter), William T. Couldwell, MD, PhD (Salt Lake City, USA)

5:24 – 5:30 PM
DISCUSSION

3:30 PM - 5:30 PM
Preferred Papers – Oral Presentations
Pier 2
Scientific Session B-1
Abstracts # 16-24

Moderators:
Julian Nedzelski
Marc Schwartz

3:30 PM - 3:36 PM
Abstract #16
Use of the Faden Procedure to Increase Area on Binocularity in Patients with Persistent Cranial Nerve Palsies
Steven A. Newman, MD (presenter), (Charlottesville, USA)

3:36 PM - 3:42 PM
Abstract #17
Prediction of Hearing Preservation in Vestibular Schwannoma Removal by the Retrosigmoid Approach
David W. Rowed, MD, FRCSC (presenter), Julian M. Nedzelski, MD, FRCSC; Joseph M. Chen, MD FRCSC; David A. Houlden PhD (Toronto, Canada)

3:42 PM - 3:48 PM
Abstract #18
Costs Related to Conservative and Active Management of Vestibular Schwannomas within the Canadian Health Care System
Richard Anthony, MA, FRCS (presenter), Tsai V MD; Taplin FRACS; Rutka JA MD, FRCS© (Toronto, Canada)

3:48 PM - 3:54 PM
DISCUSSION

3:54 PM - 4:00 PM
Abstract #19
Management of Hearing in Patients with Neurofibromatosis Type 2
John G. Golfinos, MD (presenter), J. Thomas Roland, Jr., MD (New York, USA)

4:00 PM - 4:06 PM
Abstract #20
The Bone-Anchored Cochlear Stimulator for Rehabilitation of Unilateral Sensorineural Hearing Loss after Lateral Skull Base Surgery
Sam J. Marzo, MD (presenter), John P. Leonetti, MD (Maywood, USA)
16th Annual Meeting

PROGRAM INFORMATION

4:06 PM - 4:12 PM  Abstract #21
The Evaluation and Management of Cerebrospinal Fluid Otorrhea
Sam Lavine, MD (presenter), Lorenzo Munoz MD; Mathew Kircher (Chicago, USA)

4:12 PM - 4:18 PM  DISCUSSION

4:18 PM - 4:24 PM  Abstract #22
Selective 12-7 Nerve Grafting for Facial Paralysis
Michael J. O’Leary, MD, FACS (presenter), Perry Mansfield, MD, FRCSC; Sanjay Ghosh, MD; Peter J. Martin, MD, FACS (San Diego, USA)

4:24 PM - 4:30 PM  Abstract #23
Neurotrophic Keratopathy and Facial Nerve Palsy
Amjad Z. Ahmad, MD (presenter), Matthew H. Kim, MD (Maywood, USA)

4:30 PM - 4:36 PM  Abstract #24
The Identification and Management of Cerebrospinal Fluid Fistula of the Temporal Bone
John P. Leonetti, MD (presenter), Sam Marzo, MD; Douglas Anderson, MD; Thomas Origitano, MD, PhD; Daniel D. Vukas, MD; Chad A. Zender MD (Maywood, USA)

4:36PM - 4:42 PM  DISCUSSION

Abstracts # 25-31

Moderators:
Mark Bilsky
Jeremy Freeman

4:42 PM - 4:48 PM  Abstract #25
Clinical Experience with the Endoscopic Transphenoidal Approach for Petrous Apex Lesions
Umamaheswar Duvvuri Uma Duvvuri (presenter), Carl Snyderman, MD, Ricardo Carrau, MD, Amin Kassam, MD (Pittsburgh, USA)

4:48 PM - 4:54 PM  Abstract #26
Facial Nerve Monitoring vs Versus BIS to Predict Movement During Skull Base Surgery
W. Scott Jellish, MD, PhD (presenter), John Leonetti, MD; Elaine Fluder, RN, MSN; Michael Macken, MD (Maywood, USA)

4:54 PM - 5:00 PM  Abstract #27
Direct to-Hpoglossal Neurorrhaphy for Facial Paralysis Rehabilitation
J. Thomas Roland, Jr., MD (presenter), Andrew J. Fishman, MD; Philip Miller, MD; Karen Lin, MD (New York, USA)

5:00PM - 5:06 PM  DISCUSSION

5:06 PM - 5:12 PM  Abstract #28
Endoscopic Management of Petrous Apex Cholesterol Granulomas
Jennifer L. Smullen, MD (presenter), Adrien A. Eshraghi, MD, MSc; Joshua K. Mondschein, BS; Fred F. Telischi, MD, MEE (Miami, USA)
16th Annual Meeting

PROGRAM INFORMATION

5:12 PM - 5:18 PM
Abstract #29
Intraoperative Imaging of the Temporal Bone Using a Mobile C Arm for High-Resolution Cone-Beam CT: Pre-Clinical Investigation and Demonstration of 3D Image Quality
Mark Rafferty, MD, FRCSI(ORL) (presenter), J. H. Siewerdsen, MD, Y Chan, MD, D. J. Moseley, MD, D. A. Jaffray, MD, J Irish, MD (Toronto, Canada)

5:18 PM - 5:24 PM
Abstract #30
Prevention and Treatment of Cerebrospinal Fluid Leak in Translabyrinthine Surgery for Acoustic Neuroma
Marc S. Schwartz, MD (presenter), Derald E. Brackmann, MD; Jose N. Fayad, MD; Rick A. Friedman, MD, PhD; William H. Slattery, MD; William E. Hitselberger, MD (Los Angeles, USA)

5:24 PM - 5:30 PM
Abstract #31
The Pericranial Wrapping of the Frontal Bone After Anterior Skull Base Tumor Resection
Ziv Gil, MD, PhD (presenter), Dan M. Fliss, MD (Tel-Aviv, Israel)

5.30 - 6.00 PM
Invited Lecture: Anatomy of the Midline Skull Base
Albert Rhoton, MD
Introduced by: Carl Heilman

6:00 PM - 8:00 PM
Wine & Cheese Reception - Exhibit Hall Opens
Metro Centre

SATURDAY, APRIL 9, 2005

7:00 AM - 5:30 PM
Registration Open
Metro Foyer

7:00 AM - 7:45 AM
Instructional Courses and Continental Breakfast

Dockside 1
Course #1  Management of Complex Meningiomas
Fred Gentili and Laligram Sekhar

Dockside 2
Course #2  Subcranial Approach to the Cranial Base
Daniel Fliss and Joram Raveh

Dockside 3
Course #3  Neurovascular Surgery
Chandra Sen and Christopher Wallace

Dockside 6
Course #4  Reconstruction Options
Peter Neligan and Ralph Gilbert

Plenary Session #3

8:00 AM - 9:30 AM
Panel #3: Endoscopic Versus Open Surgery for Skull Base
Ian Witterick (Moderator), Richard Carrau, Franco DeMonte, Ehab Hanna, Amin Kassam

9:30 AM – 10:00 AM
Keynote Address: Proton Beams and the Skull Base
John Munzenrider, MD
Introduced by: Brian O’ Sullivan
16th Annual Meeting

PROGRAM INFORMATION

10:00 AM - 10:30 AM
Metro Centre
Refreshment Break in the Exhibit Hall

10:30 AM - 12:00 Noon
Metro West
Operative Techniques With the Masters: Video Presentation of Intra-Operative
Pearls and Nuances
Saleem Abulrauf (Moderator), Ossama Al-Mefty, John Leonetti, Nelson M. Oyesiku,
Laligram N. Sekhar, Jatin P. Shah

12:00 Noon - 12:30 PM
Metro West
Keynote Address: The History of the North American Skull Base Society
Jatin Shah, MD
Introduced by: Patrick Gullane

12:30 PM - 1:30 PM
Metro East
Lunch and Annual Business Meeting (NASBS Members Only)

1:30 PM - 2:00 PM
Metro West
Keynote Address: Management of the Paralyzed Face
Ralph Manktelow, MD
Introduced by: Peter Neligan

2:00 PM - 3:00 PM
Pier 2
Concurrent Sessions
Panel #4: Complications in the Skull Base and Their Avoidance
Fred Gentili (Moderator), Peter Costantino, Jacques Morcos, Thomas Origatano

Metro West
Panel #5: Petrous Apex Lesions
Joe Chen (Moderator), Michael Cusimano, Amin Kassam, Julian Nedzelski

3:00 PM - 3:30 PM
Metro Centre
Refreshment Break in the Exhibit Hall

3:30 PM - 5:30 PM
Metro West
Proferred Papers – Oral Presentations
Scientific Session A-2
Abstracts # 32-40

Moderators:
Vinod Anand
Gady Hae-El

3:30 PM - 3:36 PM
Abstract #32
The Emerging Trends in the Epidemiology of Traumatic Optic Neuropathy at the Largest
Adult Trauma Center in Canada
Farhad Pirouzmand, MD, FRCSC (presenter), (Toronto, Canada)

3:36 PM - 3:42 PM
Abstract #33
Visual Outcome Following Surgical Management of Clinoidal Meningiomas
Burak Sade, MD (presenter), Joung H. Lee, MD (Cleveland, USA)

3:42 PM - 3:48 PM
Abstract #34
Surgical Resection of Locally Advanced Granular Cell Tumor of the Orbit
Dominick I. Golio, MD (presenter); Sujit Prabhu, MD; Bita Esmaeli, MD (Houston, USA)
16th Annual Meeting

PROGRAM INFORMATION

3:48 PM - 3:54 PM  DISCUSSION

3:54 PM - 4:00 PM  Abstract #35
Tuberculum Sella Meningioma – Nine Cases Done in 18 months by One Surgeon and One Neuro-Ophthalmologist. Surgical Indications, Technique and Visual Outcome
Nevo Margalit, MD (presenter), Anat Kesler, MD (Tel Aviv, Israel)

4:00 PM - 4:06 PM  Abstract #36
Mucopyocele Involving the Frontal Sinus and Lateral Orbit Presenting with a Ten Year History of Progressive Proptosis
Dennis Cramer, DO (presenter), Javed Siddiqi, MD; Dan Miulli, DO; John Cantando, DO (Colton, USA)

4:06 PM - 4:12 PM  Abstract #37
SPECT Thallium Imaging in Meningiomas: Early Functional Indications in Neovascularity and Tumor Recurrence
Raj K. Shrivastava, MD (presenter), Chandranath Sen, MD; Munir Ghesani, MD (New York, USA)

4:12 PM - 4:18 PM  DISCUSSION

4:18 PM - 4:24 PM  Abstract #38
The Vidian Nerve: Computer-based CT Scan Measurements and Clinical Utility as an Anatomic Guide in Skull Base Surgery
C. Arturo Solares, MD (presenter), James L. Netterville; MD, Martin J. Citardi, MD; Pete S. Batra, MD; Robert R. Lorenz, MD (Cleveland, USA)

4:24 PM - 4:30 PM  Abstract #39
Skull Base Surgery with and Expanded, Compact Intraoperative MRI
Michael Schulder, MD (presenter), Erik Cohen, MD; Roger Turbin, MD; Paul Langer, MD; Soly Baredes, MD (Newark, USA)

4:30 PM - 4:36 PM  Abstract #40
Image-Guided Cranial Base Surgery: An Atlas of Fiducial Based Registration Protocols
Devin Vikram Amin, MD, PhD (presenter), Amin Kassam, MD, MPH; Carl Snyderman, MD, FACS (Pittsburgh, USA)

4:36 PM - 4:42 PM  DISCUSSION

Abstracts # 41 - 47

Moderators:
Dan M. Fliss
Anne Keller

4:42 PM - 4:48 PM  Abstract #41
Mobile C-Arm Cone-Beam CT: A Novel Image-Guidance Technology for Head and Neck Surgery
Yvonne Chan, MD (presenter), Jeffrey H. Siewerdsen, PhD; Mark Rafferty, MD; Douglas J. Moseley, PhD; David A. Jaffray, PhD; Jonathan C. Irish, MD (Toronto, Canada)
PROGRAM INFORMATION

4:48 PM - 4:54 PM
Abstract #42
High Resolution Flat-Panel Detector Volume-CT Could Improve Skull Base Imaging and Therefore Surgical Planning and Intraoperative Navigation
Soenke H. Bartling, MD (presenter), Christian Dullin, PhD; Omid Majdani, MD; Prof. Thomas Lenarz, MD; Timo Stoever, MD; Prof. Eckhardt Grabbe, MD; Prof. Hartmut Becker, MD (Hannover, Germany)

4:54 PM - 5:00 PM
Abstract #43
Secondary Osteosarcoma of the Cranial Base Following Treatment of Retinoblastoma
Mark A. Varvares, MD (presenter), Joseph Chiura, BS; Christina Coughlin, MD; Fred Barker, MD; Peter Adamson, MD (St. Louis, USA)

5:00 PM - 5:06 PM
DISCUSSION

5:06 PM - 5:12 PM
Abstract #44
The Role of Proton Radiotherapy in the Management of Paranasal Sinus and Anterior Skull Base Malignancies
Annie W. Chan, MD (presenter), James F. McIntyre, MD; Mark A. Varvares, MD; Derrick T. Lin, MD; Richard L. Fabian, MD; Daniel G. Deschler (Boston, USA)

5:12 PM - 5:18 PM
Abstract #45
Treatment of Uncommon Cerebrospinal Fluid Fistula and Encephalocele
Kurt Laidrach, MD, DMD (presenter), Joram Raveh, MD, DMD; Anton Lukes (Bern, Switzerland)

5:18 PM - 5:24 PM
Abstract #46
Infralabyrinthine Transmastoid Approach for Jugular Foramen Schwannomas
Kyu-Sung Lee, MD (presenter), (Seoul, Korea)

5:24 PM - 5:30 PM
Abstract #47
Craniofacial Resection for Malignant Melanoma of the Skull Base. Report of an International Collaborative Study
Ian Ganly, MD, PhD (presenter), Snehal G. Patel, MD, Patrick G Bridger, MD, Giulio Cantu, MD, Anthony Cheesman, MD, Geraldo De Sa, MD, Paul Donald, MD, Dan Fliss, MD, Patrick Gullane, MD, Ivo Janecka, MD, Shin-etsu Kamata, MD, Luiz P Kowalski, MD, Dennis H. Kraus MD, Paul Levine, MD, Luiz R Medina, MD, Sultan Pradhan, MD, Victor Schramm, MD, Bhuvanesh Singh, MD, Carl Snyderman, MD, William I Wei, MD, Jatin P Shah, MD (New York, USA)

3:30 PM – 5:30 PM
Proferred Papers – Oral Presentations
Scientific Session B-2
Abstracts # 48-53

Moderators:
Marc Delacure
Ralph Gilbert

3:30 PM - 3:36 PM
Abstract #48
Skull Base Reconstruction in Pediatric Patients
Brian A. Moore, MD (presenter), David W. Chang, MD (Houston, USA)
Abstract #49
**Frontal Sinus Fractures: Advances in Reconstruction**
Khalid Chowdhury, MD, MBA (presenter), Bradley Alan Andrews, MD (Denver, USA)

Abstract #50
**Factors Associated with Postoperative Infection in Autogenous and Alloplastic Cranioplasty Reconstruction**
Alain Gagnon, MD (presenter), Liza Boucher, MD; Carlos Cordoba, MD; Patrick G. Harris, MD; Michel Bojanowski, MD; Robert Moundjian, MD; Andreas Nikolis, MD (Montreal, Canada)

**DISCUSSION**

Abstract #51
**Temporoparietal Rotation Flap Reconstruction of the Middle Cranial Fossa Floor**
Sanjay Ghosh, MD, FACS (presenter), Michael J. O’Leary, MD, Perry T. Mansfield, MD (San Diego, USA)

Abstract #52
**Reconstruction of Skull Base and Fronto-Orbital Defects Following Tumor Resection – Long Term Results**
Kurt Laedrach, MD, DMD (presenter), Joram Raveh, MD, DMD (Bern, Switzerland)

Abstract #53
**The Vascularized Flap Reconstruction of the Subcranial Approach**
Jan Hemza, MD (presenter), R.Salzman, MD; Z.Mackerle, MD; V.Feitova, MD; R.Kostrica, MD; Z.Novak, MD (Brno, Czech Republic)

**DISCUSSION**

Abstracts # 54-61

**Moderators:**
Peter Costantino
Jacques Morcos

Abstract #54
**The Epitech Reconstruction System for Craniofacial Prosthetics: A Novel Technique and Reconstructive Option**
Perry Mansfield, MD, FRCSC (presenter), Michael J. O’Leary, MD, FACS, Richard Torchia, DDS (San Diego, USA)

Abstract #55
**A Novel Technique for Laser Recontruction of the Dura: An In Vitro and In Vino Study**
Ziv Gil, MD, PhD, (presenter), Dan M. Fliss, MD, Darryl B. Smith, Boaz Forer, MD, Aharon Kazir, PhD (Tel-Aviv, Israel)

Abstract #56
**Outcome of Craniofacial Resection in Patients Over 70 Years of Age**
Ian Ganly, MD, PhD (presenter), Neil Gross, MD; Mark Bilsky, MD; Jatin Shah, MD; Dennis Kraus, MD (New York, USA)
16th Annual Meeting

Program Information

4:36 PM - 4:42 PM  Discussion

4:42 PM - 4:48 PM  Abstract #57
Andrew Battiata, MD (presenter), George Conley, MD (Washington, USA)

4:48 PM - 4:54 PM  Abstract #58
Mine-Blast Skull Base Injuries
Yuri Shulev, MD, PhD (presenter), (St. Petersburg, Russia)

4:54 PM - 5:00 PM  Abstract #59
Trigeminal Neurinomas: Experience of 56 Cases From One Neurosurgical Center
Bhawani S. Sharma, MD (presenter), (New Delhi, India)

5:00 PM - 5:06 PM  Discussion

5:06 PM - 5:12 PM  Abstract #60
Surgical Treatment of Trigeminal Schwannomas
Kyu-Sung Lee, MD (presenter), (Seoul, Korea)

5:12 PM - 5:18 PM  Abstract #61
Results of Anterior Skull Base Surgery in Pediatric and Young Adult Patients
Neil D. Gross, MD (presenter), Ian Ganly, MD; Mark H. Bilsky, MD; Jatin P. Shah, MD; Dennis H. Kraus, MD (New York, USA)

5:24 PM - 5:30 PM  Discussion

6:00 PM - 10:00 PM  Annual Reception and Banquet
Regatta

Sunday, April 10, 2005

7:00 AM - 7:45 AM  Breakfast in the Exhibit Hall
Metro Centre

8:00 AM - 9:30 AM  Preferred Papers – Oral Presentations
Scientific Session A-3
Abstracts # 62-72

Moderators:
Anil Nanda
Guy Petruzzelli

8:00 AM - 8:06 AM  Abstract #62
Alexandra R. Kunz (presenter), Dennis A. Velez, MD; Seema Borthakur (Boston, USA)
<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract #</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:06 AM - 8:12 AM</td>
<td>Abstract #63</td>
<td>How Evolutionary Anthropology Informs the Growth, Development, and Maturation of the Cranial Base. Part 2: Cranial Base, Superior Aspect</td>
<td>Alexandra R. Kunz (presenter), Dennis A. Velez, MD; Seema Borthakur (Boston, USA)</td>
</tr>
<tr>
<td>8:18 AM - 8:24 AM</td>
<td>Abstract #64</td>
<td>Esthesioneuroblastoma: Long Term Follow-up and Recurrence Patterns</td>
<td>Ashish Tandon, MD, DNB, MCh (presenter), Fred Gentili, MD, FRCPSC, FACS; Patrick Gullane MD, FRCPSC, FACS; Jonathan Irish MD, FRCPSC (Toronto, Canada)</td>
</tr>
<tr>
<td>8:24 AM - 8:30 AM</td>
<td>Abstract #65</td>
<td>Endoscopic Resection of Benign and Malignant Clival Lesions: Initial Experience</td>
<td>C. Arturo Solares, MD (presenter), Samer Fakhri, MD, FRCSC; Pete S. Batra, MD; Joung Lee, MD, FACS; Donald C. Lanza, MD, FACS (Cleveland, USA)</td>
</tr>
<tr>
<td>8:30 AM - 8:36 AM</td>
<td>Abstract #66</td>
<td>Voice Controlled Robotic Assist for Endoscopic Approach to the Pituitary</td>
<td>Cherie-Ann O. Nathan, MD, FACS (presenter), Vinaya Chakradeo, MD; Kavita Malhotra, MD (Shreveport, USA)</td>
</tr>
<tr>
<td>8:42 AM - 8:48 AM</td>
<td>Abstract #67</td>
<td>Endoscopic Transnasal Posterior Septectomy for Lesions of the Middle Skull Base</td>
<td>Sandeep Samant, MS, FRCS (presenter), (Memphis, USA)</td>
</tr>
<tr>
<td>8:48 AM - 8:54 AM</td>
<td>Abstract #68</td>
<td>Endoscopic Transpterygopalatine Fossa Approach to the Infratemporal Skull Base</td>
<td>Stephen Y. Lai, MD, PhD (presenter), Ricardo L. Carrau, MD; Amin Kassam, MD, Carl H. Snyderman, MD, Michael Horowitz, MD (Pittsburgh, USA)</td>
</tr>
<tr>
<td>8:54 AM - 9:00 AM</td>
<td>Abstract #69</td>
<td>Intraoperative 3D Imaging for Endoscopic Surgery of the Frontal Recess Using a Mobile CArm for Cone-Beam CT</td>
<td>Mark Rafferty, MD, FRCSI(ORL) (presenter), J. H. Siewersens; Y Chan; D. J. Moseley; D. A. Jaffray; J Irish (Toronto, Canada)</td>
</tr>
<tr>
<td>9:06 AM - 9:12 AM</td>
<td>Abstract #70</td>
<td>Pituitary Apoplexy in the MR Imaging Era: Clinical Grading Scale and Surgical Results</td>
<td>James K. Liu, MD (presenter), William T. Couldwell, MD, PhD (Salt Lake City, USA)</td>
</tr>
<tr>
<td>9:12 AM - 9:18 AM</td>
<td>Abstract #71</td>
<td>Endoscopic Transphenoidal Pituitary Surgery with Intraoperative MRI</td>
<td>Theodore H. Schwartz, MD (presenter), Vijay K. Anand, MD (New York, USA)</td>
</tr>
<tr>
<td>9:18 AM - 9:24 AM</td>
<td>Abstract #72</td>
<td>CyberKnife Treatment of Complex, Benign Skull-Base Tumors: Treatment Parameters and Early Clinical Results</td>
<td>Walter C. Jean, MD (presenter), Donald A. McRa, PhD; Gregory J. Gagnon, MD (Washington, USA)</td>
</tr>
</tbody>
</table>
16th Annual Meeting

PROGRAM INFORMATION

8:00 AM- 9:30 AM

Proferred Papers – Oral Presentations
Scientific Session B-3
Abstracts # 73-83

Moderators:
Laligram Sekhar
Chris Wallace

8:00 AM - 8:06 AM

Abstract #73
Giant / Large Fusiform and Dolichoectatic Aneurysms of the Basilar Trunk and Vertebrobasilar Junction: Clinicopathological and Hemodynamic Considerations in Therapeutic Decision Making
Hirofumi Nakatomi, MD, PhD (presenter), Yoshiaki Shiokawa, MD; Akio Morita, MD; Hiroyasu Kamiyama, MD; Kelly Flemming, MD; David G. Piepgras, MD (Cincinnati, USA)

8:06 AM - 8:12 AM

Abstract #74
Management of Skull Base Carotid Pseudoaneurysm Related to Radiation Treatment for Nasopharyngeal Cancer
Vitus Y. W. Fan, MD (presenter), W. Wei, MD

8:18 AM - 8:24 AM

Abstract #75
Anterior Communicating Artery Aneurysm Surgery through a Skull Base Approach: Short- and Long-term Follow-up
Mario Zuccarello, MD (presenter), Norberto Andaluz, MD (Cincinnati, USA)

8:24 AM - 8:30 AM

Abstract #76
A Skull Base Approach and Microsurgical Clipping of Cerebral Aneurysm: A Historical Method of Treatment or a “Gold Standard”
Kenan Arnautovic, MD (presenter), (Memphis, USA)

8:30 AM - 8:36 AM

Abstract #77
The Hemodynamic Questions and Problems of Vascular Stenting in Skull Base Procedures
Jan Hemza, MD (presenter), (Brno, Czech Republic)

8:42 AM - 8:48 AM

Abstract #78
Transmastoid Partial Labyrinthectomy Approach for Medial Skull Base Vascular Lesions
Michael A. Taplin MB,BS(Hons I), FRACS (presenter), Richard Anthony MA, FRCS (Eng); Michael Tymianski MD, PhD, FRCSC and John A. Rutka MD, FRCSC (Toronto, Canada)

8:48 AM - 8:54 AM

Abstract #79
Long-Term Results of Radiotherapy for Paragangliomas of the Head and Neck: The Princess Margaret Experience
Jason H. Franklin, HBSc. MD FRCS(C) (presenter), Bernard J. Cummings, MB ChB FRCP(C); Patrick J. Gullane, MD FRCS(C) FAC(S) (Toronto, Canada)

8:54 AM - 9:00 AM

Abstract #80
Autologous Platelet Poor Gel in Skull Base Surgery: Outcome Analysis
Jason Hauptman, BA, BS (presenter), Vamsi Alli, BA; Frank Stark, BS, CCP; Steven Keller, PhD; Michael Schulder, MD (Newark, USA)
9:06 AM - 9:12 AM  
Abstract #81  
Skull Base Meningiomas: Do They Differ from Other Intracranial Meningiomas?  
Prasad Vannemreddy, MD, MCh (presenter), Anil Nanada, MD, FACS (Shreveport, USA)

9:12 AM - 9:18 AM  
Abstract #82  
Teratomas of the Skull Base: Treatment and Long-Term Outcome  
Donald J. Annino, Jr, MD, DMD (presenter), Carl B. Heilman, MD (Boston, USA)

9:18 AM - 9:24 AM  
Abstract #83  
Cranio-Vertebral Junction Chordomas: Lessons Learned in their Surgical Management  
Raj K. Shrivastava, MD (presenter), Chandranath Sen, MD; Peter Costantino, MD (New York, USA)

9:30 AM - 10:00 AM  
Metro West  
Keynote Address: Molecular Biology Meets the Skull Base  
James Rutka, MD  
Introduced by: Fred Gentili

10:00 AM - 10:30 AM  
Metro Centre  
Refreshment Break in the Exhibit Hall

10:30 AM - 12:00 PM  
Metro West  
Panel# 6: Treatment of Acoustic Neuromas: Operate, Radiate or Observe  
Jon Robertson (Moderator), William Hitzelberger, Michael Link, Julian Nedzelski, John Rutka

12:00 Noon - 12:15 PM  
Metro West  
Closing Remarks

12:15 PM - 1:00 PM  
Metro Centre  
Lunch in Exhibit Hall

1:30 PM  
Metro Centre  
Buses Depart to Pearson Airport  
Buses will depart from the hotel promptly at 1:30 p.m.
### Scientific Posters

**Metro Centre**  
**Abstracts # 84-107**

<table>
<thead>
<tr>
<th>Abstract #</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>#84</td>
<td>The Transcrural Approach for Intracranial Lesions: Our Experience and Outcomes</td>
<td>Brian Hughes, MD, Lorne S Parnes MD; Stephen P Lownie MD (London, Canada)</td>
</tr>
<tr>
<td>#85</td>
<td>Microvascular Tissue Transfer in the Repair of Cranial Base Defects: Indications, Complications, and Results.</td>
<td>Jason G. Newman, MD, Bert O’Malley, MD; Ara Chalian, MD; Mark Brown, MD (Philadelphia, USA)</td>
</tr>
<tr>
<td>#86</td>
<td>Preserved Hearing after Intraoperative Loss of the Brainstem Auditory Evoked Potential During Vestibular Schwannoma Surgery</td>
<td>Raymund L. Yong, MD, Ryojo Akagami, MD, FRCSC (Vancouver, Canada)</td>
</tr>
<tr>
<td>#87</td>
<td>Cavernous Sinus Tumor Foramen Ovale Needle Biopsy: An Under-Utilized Technique for Guiding Therapeutic Decision-Making in Skull Base Surgery</td>
<td>Mark E. Linskey, MD, (Orange, USA)</td>
</tr>
<tr>
<td>#88</td>
<td>Giant Isolated Intracranial Sarcoidealism Mimicking a Petroclival-Cavernous Sinus Meningioma – Treatment and Outcome</td>
<td>Michael J. Link, MD, Colin L.W. Driscoll, MD; Fausto J. Rodriguez, MD; Caterina Giannini, MD (Rochester, USA)</td>
</tr>
<tr>
<td>#89</td>
<td>Retained Bullet in the Jugular Foramen Causing Recurrent Syncope – Treatment and Outcome</td>
<td>Michael J. Link, MD, Colin L.W. Driscoll, MD (Rochester, USA)</td>
</tr>
<tr>
<td>#90</td>
<td>Heavily Calcified Pituitary Macroadenomas: A Case Report &amp; Review of Literature</td>
<td>Benjamin Lo, MD, Kesh Reddy, MB,BS, FRCSS (Mississauga, Canada)</td>
</tr>
<tr>
<td>#91</td>
<td>Endoscopic-Assisted Transsphenoidal Endonasal Approach to Sellar Lesions</td>
<td>Benjamin Lo, MD, Kesh Reddy, MB, BS, FRCSS (Mississauga, Canada)</td>
</tr>
<tr>
<td>#92</td>
<td>Early Identification of Cerebrospinal Fluid Leak Following Endonasal, Endoscopic Surgery of the Cranial Base</td>
<td>Lee A. Zimmer, MD, PhD, Carl H. Snyderman, MD; Ricardo L. Carrau, MD; Amin Kassam, MD (Pittsburgh, USA)</td>
</tr>
<tr>
<td>#93</td>
<td>Anterior Communicating Artery Aneurysm Surgery Through the Orbitopterional Approach: Short-and Long Term Follow-up</td>
<td>Norberto Andaluz, MD, Mario Zuccarello, MD (Cincinnati, USA)</td>
</tr>
<tr>
<td>#94</td>
<td>Infratemporal Fossa Approaches (IFTA); Surgical Anatomy, Techniques and Therapeutic Strategy</td>
<td>Hiroyumi Nakatomi, MD, PhD, Philip Theososopoulos, MD; Jeffrey Keller, PhD; Miles Pensak, MD; Tetsro Sameshima, MD, PhD; Takanori Fukushima, MD, DMS (Cincinnati, USA)</td>
</tr>
</tbody>
</table>
Abstract #95  Aspergillomata of Skull Base: Clinical Profile and Outcome Results
Prasad Vannemreddy, Sundaram C, Anil Nanda, MD (Panjagutta, India)

Abstract #96  Interdisciplinary Approach for Fungal Skull Base Osteomyelitis
Kazim Oner, MD, Bulent Karci, MD; Izzet Ovul, MD; Tuncer Turhan, MD (Bornova, Turkey)

Michael A. Hoffmann, MD, George Coppit, MD (Washington, USA)

Abstract #98  CNS Central Nervous System Sarcoid Dural-Based Mass Lesions Masquerading as Meningioma
Mark E. Linskey, MD, Charles A. Middelhof, MD (Orange, USA)

Abstract #99  Free Flap Monitoring in Head, Neck, and Skullbase Surgical Oncology – Is it Really Worth the Effort?
Edgar A. Lueg, MD, (Los Angelos, USA)

Abstract #100  Swing Door Mandibulotomy: Approach to Vascular Lesion Resection with Minimal Neurological Deficits
Yvonne Layton, PA-C, Daniel R. Pieper, MD (Southfield, USA)

Abstract #101  The Extended Transsphenoidal Approach to Suprasellar and Anterior Skull Base Tumors
John A. Jane, Jr., MD, Adam S. Kanter, MD; Aaron S. Dumont, MD; Steven A. Newman, MD; Edward R. Laws, Jr. (Charlottesville, USA)

Abstract #102  Case Report:- A Rare Case of a Trigeminal Nerve Rhabdomyoma/Neuromuscular Hamartoma in a Child
John W. Alldredge, MD, Peter Rigby, MD, FACS; Daniel W. Nuss, MD, FACS (New Orleans, USA)

Abstract #103  Histopathological Distinction of Intestinal-Type Sinonasal Adenocarcinoma from Metastatic Adenocarcinoma of Intestinal Origin
Vicente Resto, MD, PhD, Jeffrey F. Krane, MD, PhD; Ben Z. Pilch, MD; William C. Faquin, MD, PhD; Derrick T. Lin, MD (Boston, USA)

Abstract #104  Combined Craniofacial Approaches for Resection of Esthesioneuroblastoma
Kevin Petrecca MD, PhD, A Zeitouni, M Samaha, M Desrosiers, R Leblanc, D Sirhan (Montreal, Canada)

Abstract #105  An Aneurysm Made Angiographically Occult by Meningioma Compression
Kevin Petrecca MD, PhD, Denis Sirhan (Montreal, Canada)

Abstract #106  Giant Paranasal Schwannoma – Three Cases and Review of the Literature
Ashish Tandon, MD, DNB, MCh, Fred Gentili. MD., FRCPSC, FACS; Patrick Gullane MD, FRCPSC; Ralph Gilbert MD, FRCS (Toronto, Canada)

Abstract #107  Resection of Olfactory Neuroblastoma by a Transnasal Endoscopic Approach
Ricardo L. Carrau, MD, Amin B. Kassam, Carl H. Snyderman, Michael Horowitz (Pittsburgh, USA)
Advanced Bionics, headquartered in Valencia, California, manufactures the HiResolution Bionic Ear System, which is approved for use by children with bilateral, profound hearing loss, and adults with severe-to-profound bilateral hearing loss.

Aesculap will display an assortment of new products and instruments for skull base procedures including: high power small size motors, rapid dual sided cranial flap fixation products, a new line of micro neuro instruments, and neuro endoscopes for transsphenoidal and other endo-assisted procedures.

Anspach Companies manufacture 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.

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September 11-15, 2008
Vancouver, BC
Please select relevant membership:

- International Membership ($100.00 Processing Fee)
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PERSONAL:

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MEDICAL EDUCATION:

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Residency: Institution | Date Started | Date Completed | Areas of Specialization

Fellowship: Institution | Date Started | Date Completed | Areas of Specialization

EXPERIENCE:

Current Clinical Specialty: __________________________ #Years of Practice: _______

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I certify that the above information is complete and accurate. I understand that any false information will disqualify me for membership. If approved for membership, I agree to abide by the bylaws of the Society.

Signature ____________________________ Date ____________ Social Security # ____________________________

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