

NORBERTO ANDALUZ, MD, MBA
Curriculum Vitae

EDUCATION

- 04/1987 - 03/1993 College of Medical Sciences, Universidad Nacional de Rosario, Argentina
College of Medicine Dean: Gonzalo del Cerro, MD
Title obtained: Medical Doctor Diploma with Honors
- 05/1993 - 11/1993 Medical Internship, Hospital Provincial del Centenario, Universidad
Nacional de Rosario, Argentina
Program Director: Héctor Dip, MD
- 01/1994 - 03/1999 Neurosurgery Resident, Instituto de Neurología y Neurocirugía, Sanatorio
Parque, Rosario, Argentina
Program Director: W.P. Tejerina, MD
- 01/1998 - 03/1999 Chief Resident, Instituto de Neurología y Neurocirugía, Sanatorio Parque,
Rosario, Argentina
Program Director: W.P. Tejerina, MD
Title obtained: Board Certified Neurosurgeon, Medical Board, Province of
Santa Fe, 2nd. Circumscription, Argentina
- 03/1998 - 09/1998 Voluntary Assistantship, Neurotrauma, Department of Neurosurgery,
Hospital de Emergencias Dr. Clemente Alvarez, Department of Public
Health and National University of Rosario, Argentina
Program Director: Miguel S. Garrote, MD
- 04/1999 - 04/2001 Clinical Fellow, General Neurosurgery, Department of Neurosurgery,
Cincinnati Veterans Affairs Medical Center, University of Cincinnati,
Cincinnati, Ohio
Program Director: John M. Tew, Jr., MD
Fellowship Director: Mario Zuccarello, MD
Title obtained: General Neurosurgery Fellow
- 07/2001 - 06/2003 Clinical Fellow, Cerebrovascular Surgery, Department of Neurosurgery,
University of Cincinnati, Cincinnati, Ohio
Program Directors: John M. Tew, Jr., MD and Raj K. Narayan, MD
Fellowship Director: Mario Zuccarello, MD
Title Obtained: Cerebrovascular Fellow (CAST and SNS accredited)

09/2015 Intensive Mini-Fellowship in Endoscopic Endonasal Skull Base
Neurosurgery
Università degli Studi de Napoli Federico II, Naples, Italy
Program Director: Paolo Cappabianca, MD
Fellowship Director: Luigi Cavallo, MD

05/2016 – 04/2018 Carl H. Lindner College of Business
University of Cincinnati, Cincinnati, OH
Title obtained: Master of Business Administration

01/2018 – 04/2018 Carl H. Lindner College of Business/College of Allied Health Sciences
University of Cincinnati, Cincinnati, OH
Title obtained: Graduate Certificate in Health Care Administration

LICENSURE AND CERTIFICATION

1993 Unrestricted Medical License, State Medical Board, Province of Santa Fe, Argentina
1998 Neurosurgeon License, Neurosurgery Board, Registry of Medical Specialties, State
Medical Board, Province of Santa Fe, Argentina
1999 Training License. State Medical Board of Ohio (training certificate # 57-002578)
2003 Unrestricted Medical License. State Medical Board of Ohio (License # 35-083066)
2014 Alternate Pathway Trauma Neurosurgery Verification. American College of Surgeons
2015 Collegiate Member, Argentinian Board of Neurosurgery
2018 Kentucky Board of Medical Licensure

ACADEMIC AND CLINICAL APPOINTMENTS

08/2003 - 10/2005 Staff Neurosurgeon
Sanatorio Americano, Rosario, Argentina

08/2003 - 10/2005 Neurosurgical Consultant, Critical Care Unit
Sanatorio Americano, Rosario, Argentina

10/2003 - 10/2005 Staff Neurosurgeon
Instituto de Neurología y Neurocirugía, Sanatorio Parque, Rosario,
Argentina

11/2003 - 10/2005 Neurosurgery Residency Program Coordinator
Instituto de Neurología y Neurocirugía, Sanatorio Parque, Rosario,
Argentina

04/2005 - 10/2005 Acting Chief, Neurosurgery Service
Sanatorio Rosendo García, Rosario, Argentina

10/2005 - 03/2007 Staff Neurosurgeon (full-time)
Cincinnati Veterans Affairs Medical Center, Cincinnati, Ohio

05/2006 - 03/2007 Faculty Member
Department of Neurosurgery, University of Cincinnati, Cincinnati, Ohio

03/2007 - 08/2008 Staff Neurosurgeon (full-time)
James A. Haley Veterans Affairs Medical Center, Tampa, Florida

03/2007 - 08/2008	Faculty Member Department of Neurological Surgery and Rehabilitation, University of South Florida, Tampa, Florida
09/2008 - present	Staff Neurosurgeon Cincinnati Veterans Affairs Medical Center, Cincinnati, Ohio
09/2008 – present	Faculty Member Department of Neurosurgery, University of Cincinnati, Cincinnati, Ohio
12/2008 – 07/2015	Chief, Neurosurgery Section Cincinnati Veterans Affairs Medical Center, Cincinnati, Ohio
03/2009 - 07/2011	Assistant Professor of Neurosurgery Department of Neurosurgery, University of Cincinnati, Cincinnati, Ohio
07/2010 – 07/2011	Director, Clinical Fellowship in Spine Surgery Rotation Cincinnati Veterans Affairs Medical Center Department of Neurosurgery, University of Cincinnati, Cincinnati, Ohio
07/2011 – present	Staff Physician, University Hospital, Cincinnati, Ohio
07/2011 – present	Staff Physician, West Chester Medical Center, West Chester, Ohio
07/2011 – 06/2016	Director, Neurotrauma Division, University of Cincinnati Neuroscience Institute (UCNI), Cincinnati, OH
07/2011 – 06/2016	Neurosurgical Director, Neuroscience Intensive Care Unit, University Hospital/UCHealth, Cincinnati, Ohio
07/2011 – present	Neurosurgeon, Mayfield Clinic and Spine Institute, Cincinnati, Ohio
09/2011 – 07/2016	Associate Professor, Department of Neurosurgery, University of Cincinnati, Cincinnati, Ohio
04/2012 – present	Neurosurgical Consultant, Drake Center, Cincinnati, Ohio
04/2012 – present	Neurosurgical Consultant, Health South Rehabilitation Hospital, Cincinnati, Ohio
07/2013- present	Staff Physician, The Christ Hospital Same Day Surgery Center Cincinnati, Ohio
06/2012-present	Member at Large, Executive Committee, Department of Neurosurgery, University of Cincinnati
07/2015- present	Director, Henry Goodyear Microsurgical Anatomy Laboratory, Department of Neurosurgery, University of Cincinnati
07/2015- present	Director, Research Fellowship in Skull Base Surgery, Department of Neurosurgery, University of Cincinnati
07/2016-present	Director, Division of Skull Base Surgery, Department of Neurosurgery, University of Cincinnati
07/2016-present	Staff Physician, The Christ Hospital Cincinnati, OH
07/2016-present	Staff Physician, The Jewish Hospital Cincinnati, OH
09/2016-present	Professor of Neurosurgery, Department of Neurosurgery, University of Cincinnati
01/2017- present	Staff Physician, Good Samaritan Hospital Cincinnati, OH
01/2017- present	Medical Director, Mayfield Surgical Innovation Laboratory Cincinnati, OH

AWARDS AND HONORS

- 1986 Bachelor of Commerce Diploma with Honor Medal
- 1992 Representative to Universidad Nacional de Rosario at the 2nd National Inter-University Academic Knowledge Olympics for Medical Students Córdoba, Argentina
- 1993 Medical Doctor Diploma with Honors
- 2006 Multi-modality Treatment of Unruptured Aneurysms: Outcomes, Adverse Events and Resource Utilization
Abstract selected and presented at the 2006 Congress of Neurological Surgeons Annual Meeting for Media Press Release
- 2006 Current Trends in the Treatment of Cerebral Aneurysms: Data Analysis from a Nationwide Inpatient Database
Abstract selected for Media Press Release and Program Highlights in the 2007 American Association of Neurological Surgeons Annual Meeting
- 2009 Image-guided Anatomic and Morphometric Study of Supra- and Transorbital Minicraniotomies to the Sellar and Perisellar Region: Comparison with Standard Techniques
Selected as featured article, Journal of Neurosurgery
- 2013 Hinzman JM, Andaluz N, Shutter LA, Okonkwo DO, Strong AJ, Dreier JP, Hartings JA. Hemodynamic Responses to Cortical Spreading Depolarization in Severe Traumatic Brain Injury Patients. 2013 Neurocritical Care Society Annual Meeting. Philadelphia, PA
Young Investigator Award
- 2014 Harwell D, Pettigrew DB, Andaluz N, Kuntz CK IV. Anterior Cervical Discectomy and Transforaminal Facetectomy with Fusion and Fixation for Reduction of Traumatic Cervical Facet Dislocation: A Cadaveric Study.
Ellen and Stewart B. Dunsker, MD, Award for Clinical Research University of Cincinnati
- 2014 Honorary International Member, Brazilian Academy of Neurosurgery
- 2015 2015 Mayfield Alumnus Lecturer, Cincinnati, Ohio
- 2016 Morphometric Analysis of Lingula Sphenoidalis and Its Surgical Relevance
Marcati E, Andaluz N, Roebker J, Keller JT, Froelich SC, Zimmer LA.
Poster of Distinction, 2016 North American Skull Base Society Meeting
- 2016 Quantitative Comparison of Optic Canal Decompression Via a Transcranial Versus Endoscopic Endonasal Approach. Gogela S, Andaluz N, Zimmer L, Keller JT.
Ellen and Stewart B. Dunsker, MD, Award for Clinical Research University of Cincinnati
- 2016 Middle Fossa Approach for Resection of Vestibular Schwannomas: A Decade of Experience.
Kosty J, DiNapoli V, Gozal Y, Patel S, Golub J, Goodale A, Andaluz N, Stevens S, Pensak M, Zuccarello M, Samy R.
John M. Tew, Jr., MD, Award in Surgical Neuro-Oncology University of Cincinnati
- 2016 Expanded Anterior Petrosectomy Through the Transcranial Middle Fossa and Extended Endoscopic Transphenoidal-Transclival Approaches: Qualitative and Quantitative Anatomic Analysis.

- Hasanbelliu A, Andaluz N, Di Somma A, Keller JT, Zimmer LA, Pensak ML, Samy RN, Zuccarello M.
Synthes Skull Base Surgery Award
2016 Congress of Neurological Surgeons Annual Meeting
- 2016 Visiting Professor, Sichuan Academy of Medical Sciences, Chengdu, China
- 2016 Vice-President, Mayfield Alumni Society
- 2017 Secretary, Ohio State Neurosurgical Society
- 2017 President, Mayfield Society, Cincinnati, Ohio
- 2017 Visiting Professor, Sichuan Academy of Medical Sciences, Chengdu, China
- 2017 Visiting Professor, Department of Neurosurgery, University of Louisville, Louisville, KY
- 2017 Visiting Professor, Department of Neurosurgery, Hofstra University, Long Island, NY
- 2018 Gogela SL, Zimmer LA, Keller JT, Andaluz N. Refining Operative Strategies for Optic Nerve Decompression: A Morphometric Analysis of Transcranial and Endoscopic Endonasal Techniques Using Clinical Parameters. ONS doi: 10.1093/ons/opx093.
 Article selected for issue cover, Operative Neurosurgery March 2018
- 2018 Carroll CP, Patel SK, Archdeacon M, Shahbadian S, Andaluz N. A Rare Etiology of Piriformis Syndrome: Piriformis Ganglion Cyst Masquerading as a Peripheral Nerve Sheath Tumor.
First Place Award, Peripheral Nerve Epoper Presentation
2018 American Association of Neurological Surgeons Annual Scientific Meeting

MEMBERSHIPS*

- 1991 Medical Circle of Rosario, Argentina
- 1995 Society of Neurology and Neurosurgery, Rosario, Argentina
- 1996 Argentinean Association of Neurosurgery Residents
- 2001 Congress of Neurological Surgeons, Transitional Member
- 2001 Mayfield Alumni Society
- 2004 Argentinean Association of Neurosurgery
- 2004 Medical Association of Rosario, Argentina
- 2205 American Medical Association
- 2006 American Heart Association, Professional Member
- 2006 Stroke Council, American Heart Association
- 2006 Congress of Neurological Surgeons, Active International Member
- 2007 North American Skull Base Society
- 2009 Society of Lateral Access Surgeons
- 2010 Neurocritical Care Society
- 2011 National Neurotrauma Society
- 2011 Academy of Medicine of Cincinnati
- 2012 Ohio State Neurosurgical Society
- 2014 NCS EVD Guidelines Committee
- 2015 Acoustic Neuroma Association
- 2015 Pituitary Network Association

2015 AANS/CNS Section on Tumors
2016 American Association of Neurological Surgeons
2016 Collegiate Member, Argentinian Board of Neurosurgeons
2017 American College of Surgeons

*Member unless otherwise noted

SERVICE

Committee Involvement, Local

2008 - 2014	Surgical Executive Committee Cincinnati Veterans Affairs Medical Center. UC Medical Center, Cincinnati, Ohio
2010 - 2011	Local Organizing Committee Member 11th International Conference on Cerebral Vasospasm Cincinnati, OH
2011	Local Scientific Committee Member 11th International Conference on Cerebral Vasospasm Cincinnati, OH
2011 - 2016	UCNI Implementation Committee Now UCNI Operational Leadership Team
2011- present	Clinical Competency Committee Department of Neurosurgery, University of Cincinnati
2011- present	Risk Management Committee, Mayfield Brain & Spine
2011 - 2016	Neurosurgical Liaison, Trauma Performance Improvement Committee, University of Cincinnati Medical Center
2012 - 2013.	Neurocritical Care Director Search Committee UC Medical Center
2012 - 2017	Clinical Trials Research Committee Department of Neurosurgery, University of Cincinnati
2012 - present	Executive Committee Member at Large Department of Neurosurgery, University of Cincinnati
2012 - present	Clinical Research Committee Department of Neurosurgery, University of Cincinnati
2013 - present	UC Health Traumatic Brain Injury Task Force UC Medical Center
2013 - 2016	UCNI Neurotrauma Committee UC Medical Center
2013 - present	Brain Tumor Center Working Group UCNI Brain Tumor Center
2014 - 2015	Skull Base Search Committee Department of Neurosurgery, University of Cincinnati
2014 - 2016	UCMC Neuroscience Quality Process Committee UC Medical Center

2015	Spine Surgery Director Search Committee Department of Neurosurgery, University of Cincinnati
2015 - 2016	UCNI Operational Leadership Committee UC Medical Center
2015 - present	Acute Care Research Council University of Cincinnati
2015	Neurotrauma Director Search Committee
2015 - present	Skull Base Committee UC Medical Center
2016 - present	Marketing Committee, Mayfield Brain & Spine
2016 - present	Performance Improvement Reviewer, University of Cincinnati Medical Center
2017	Medical Executive Committee, University of Cincinnati Medical Center

PROFESSIONAL ACTIVITIES

International

2008	Grant reviewer Swiss National Science Foundation
2010	Abstract Evaluator, Scientific Committee Member First Pan-American Symposium on Vascular Neurosurgery Sao Paulo, Brazil
2011	Local Scientific Committee Member, 11th International Conference on Neurovascular Events after Subarachnoid Hemorrhage
2011	Local Organizing Committee Member, 11th International Conference on Neurovascular Events after Subarachnoid Hemorrhage
2014	Invited Reviewer Thieme Verlag book projects
2017	Scientific Committee Member EndoWorld Congress Barcelona 2018

National

2008	Protected Peer-Review Process Expert Reviewer Department of Veterans Affairs
2014	Invited Ad-hoc reviewer, Neurocritical Care Society Multimodality Monitoring Position Statement
2015	Neurocritical Care Society External Ventricular Drain Guidelines Committee
2015	Surgical Simulation Task Force, North American Skull Base Society
2016	Abstract Evaluator, National Neurotrauma Society National Neurotrauma Society Meeting, Lexington, KY
2017	Abstract Evaluator, National Neurotrauma Society National Neurotrauma Society Meeting

Local

- 2008 Member of the UC Neuroscience Institute Neurovascular Program
2013 Member of University of Cincinnati Neuroscience Institute Brain Tumor Center

INTERNATIONAL/NATIONAL/LOCAL DISTINGUISHED ACTIVITIES

1996

Guest Speaker

- Malignant Meningiomas
2nd Biennial Course of Neuro-oncology
University of Buenos Aires, Argentina, November 1996

1998

Guest Speaker

- Neurosurgical Emergencies in Cardiovascular Surgery Patients
Second Course of Cardiovascular Critical Care
Cardiovascular and Thoracic Surgery Service, Hospital Centenario
Universidad Nacional de Rosario, Argentina, May 1998

2001

Guest Lecture Presentation

- The 2001 William E. Hunt Lecture
Tew JM, Jr, Abdel Aziz KM, Andaluz N.
Ohio State University, Columbus, Ohio

2002

Guest Speaker

- The Role of Skull Base Approaches to Anterior Communicating Artery Aneurysms: Surgical Anatomy
The 2002 Winter Neuroscience Symposium
Snowmass, CO
- Coil versus Clip
Tew JM, Jr, Andaluz N, Zuccarello M, van Loveren HR, Ringer AJ, Yeh HS.
American Association of Neurological Surgeons, 71st Annual Meeting
Chicago, IL
- Key Surgical Points of Anterior Communicating Artery Aneurysms
Zuccarello M, Andaluz N
7th. International Workshop for Cerebrovascular Surgery
Kyoto, Japan
- Biomarkers in Subarachnoid Hemorrhage
Zuccarello M, Andaluz N
International Cerebrovascular Symposium
Cuneo, Italy

2003

Guest Speaker

- Fenestration of the Lamina Terminalis as a Valuable Adjunct in Ruptured Aneurysm Surgery
The 2003 Winter Neuroscience Symposium
Snowmass, CO, February 2003
- Improving Outcomes in Anterior Communicating Aneurysm Surgery
Department of Neurosurgery, University of South Florida
Tampa, FL, June 2003

2004

Guest Speaker

- Controversies in the Management of Intracerebral Hemorrhage
First Symposium on Critical Care and 13th Congress of Medicine
Argentinean Society of Medicine
Buenos Aires, Argentina, November 2004

2005

Guest Speaker Presentation

- Orbitopterional Approach to Anterior Communicating Aneurysms
Zuccarello M, Andaluz N
The 2005 Winter Clinics
Snowmass, CO

2009

Guest Speaker

- Trends in the Management of Adult Moyamoya Disease in the United States: Results of a National Survey
Zuccarello M, Andaluz N, Choutka O
The First International Symposium on Moyamoya Angiopathy. University of Stanford
Stanford, CA

2010

Guest Speaker Presentations

- Surgical Treatment of Complex Aneurysms
First Pan-American Symposium on Vascular Neurosurgery
Sao Paulo, Brazil, April 2010
- Current Management of Cerebral Vasospasm
First Pan-American Symposium on Vascular Neurosurgery
Sao Paulo, Brazil, April 2010
- Cerebral Revascularization from the Lab to the OR
Microscopic and Endoscopic Approaches for Skull Base Lesions and Cerebrovascular Bypass Session, Allegheny General Hospital
Pittsburgh, PA, October 2010

2011

Guest Speaker Presentations

- Intracerebral Hemorrhage, Current Trends and Therapies
Combined Neuroscience Seminar, Fundación J.R. Villavicencio
Rosario, Argentina, April 2011

- Cerebral Vasospasm, Recent Theories and Treatments”
Combined Neuroscience Seminar, Fundación J.R. Villavicencio
Rosario, Argentina, April 2011
- Cerebral Vasospasm following Aneurysmal Subarachnoid Hemorrhage: Current Therapies and Evolving Theories”
XIV Brazilian Academy of Neurosurgery Congress
Natal, Brazil, April 2011
- Spontaneous Intracerebral Hemorrhage: Is There A Role For Surgery?
XIV Brazilian Academy of Neurosurgery Congress
Natal, Brazil, April 2011
- Technological Advances in Aneurysm Surgery
11th International Conference on Neurovascular Events after Subarachnoid Hemorrhage
Cincinnati, OH, July 2011

2012

Guest Speaker Presentations

- Current Treatments for Cerebral Vasospasm
2nd Pan-American Symposium on Cerebrovascular Surgery
Sao Paulo, Brazil, May-June 2012
- Surgical Treatment of Unruptured Cerebral Aneurysms
2nd Pan-American Symposium on Cerebrovascular Surgery
Sao Paulo, Brazil, May-June 2012
- Cerebral Cavernomas
2nd Pan-American Symposium on Cerebrovascular Surgery
Sao Paulo, Brazil, May-June 2012
- Neurotrauma Care and Research
One Mind for Research Foundation
Cincinnati, OH, August 2012
- Cerebral Revascularization: from the lab to the O.R.
Sixth Annual Microscopic / Endoscopic Skull Base Surgery Course
Vascular Bypass Animal Lab and “ELANA” Laser Bypass Lab
Allegheny General Hospital, Pittsburgh, PA, October 2012
- Clinical Trials in Steno-occlusive Carotid Disease
Sixth Annual Microscopic / Endoscopic Skull Base Surgery Course
Vascular Bypass Animal Lab and “ELANA” Laser Bypass Lab
Allegheny General Hospital, Pittsburgh, PA, October 2012

2013

Guest Speaker Presentations

- Steno-occlusive Carotid Disease: Review of the Evidence from Relevant Clinical Trials
Microsurgical Skills Course for Residents
Center for Surgical Innovation, University of Cincinnati
Cincinnati, OH, October 2013

- Chronic Traumatic Encephalopathy
12th Annual College and High School Sports Conference
University of Cincinnati/Nova Care
Cincinnati, OH, May 2013
- Minimally Invasive Treatment of Intracerebral Hemorrhage
Innovations in the Treatment of Intracerebral Hemorrhage Luncheon Seminar
2013 Congress of Neurological Surgeons Annual Meeting
San Francisco, CA, October 2013
- Clinical Trials Addressing the Continuum of Traumatic Brain Injury
Brain Injury and Epigenetics: How we advance the science?
2013 UC Research Week, University of Cincinnati
Cincinnati, OH, October 2013

2014

Guest Speaker Presentations

- Multidisciplinary Care of Acute Head Injury
Rehabilitation Care Line Grand Rounds, VA Medical Center, Cincinnati OH
Cincinnati, OH, August 2014
- Minimally Aggressive Approaches to Cerebral Aneurysms
First Intensive Course in Cerebrovascular Surgery University of
Cincinnati/Brazilian Academy of Neurosurgery
Cincinnati, OH, October 2014
- Cerebral Revascularization: from the lab to the O.R.
Seventh Annual Microscopic / Endoscopic Skull Base Surgery Course
Vascular Bypass Animal Lab and Bypass Lab
Allegheny General Hospital, Pittsburgh, PA, November 2014

2015

Proffered Papers Vascular Session Moderator

- North American Skull Base Society (NASBS) 2015
Tampa, FL, February 2015

Course Co-Director

- The 2015 Keller Lectureship
Cincinnati, OH, April 2015

Invited Lecturer

- The Ever-Changing Ethos of a skull Base Surgery: Evolution, Revolution, or
Metamorphosis?
The 2015 Mayfield Alumnus Lecturer
Cincinnati, OH, May 2015

Guest Speaker Presentations

- Current Treatment of Vasospasm after Subarachnoid Hemorrhage
XVI Congress of the Brazilian Academy of Neurosurgery
Atibaia, Brazil, June 2015
- Aneurysmal Subarachnoid Hemorrhage Management
XVI Congress of the Brazilian Academy of Neurosurgery
Atibaia, Brazil, June 2015

- Cerebral Vasospasm Breakfast Seminar Coordinator
XVI Congress of the Brazilian Academy of Neurosurgery
Atibaia, Brazil, June 2015
- New Theories on the Pathogenesis of Vasospasm
XVI Congress of the Brazilian Academy of Neurosurgery
Atibaia, Brazil, June 2015
- Minimally Invasive Approach to Aneurysms of the Anterior Circulation
XVI Congress of the Brazilian Academy of Neurosurgery
Atibaia, Brazil, June 2015
- Pituitary Adenomas: Surgical Strategies and Results
Dept. of Endocrinology Rounds, University of Cincinnati
July, 2015
- Traumatic Brain Injury
Brain Mind and Behavior Lecture Series
University of Cincinnati College of Medicine, October 2015
- The Role of By-Pass in 2015
9th Annual Course on Microscopic and Endoscopic Approaches for the Skull Base
Allegheny, PA November 2015

2016

Guest Speaker Presentations

- Supraorbital Approach and Its Variants.
26th Annual NASBS Meeting
Phoenix, AZ February 2016
- Panelist, suprasellar and parasellar tumors session.
26th Annual NASBS Meeting
Phoenix, AZ February 2016
- A New Workhorse Approach in Skull Base Surgery?
The 25th Winter Clinics
Snowmass, CO, February 2016
- Session Moderator, Approach to Ordinary and Extraordinary Intracranial Lesions
The 25th Winter Clinics
Snowmass, CO, February 2016
- Damage Control in TBI
10th. Annual Northern Kentucky Traumatic Brain Injury Conference
Covington, KY February 2016
- Webinar: Management Options for Pituitary Tumors
Pituitary Network Association
March 2016
- Endoscopic Endonasal Treatment of Anterior Cranial Base Pathology
7th Annual Minimally Invasive Neurosurgical Society
Mackinac Island, MI, August 2016
- Cerebral Revascularization in the 21st Century
3rd National Seminar of Minimally Invasive Neurosurgery

Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2016

- Acoustic Neuroma
3rd National Seminar of Minimally Invasive Neurosurgery
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2016
- STA-MCA By-Pass and Indirect Cerebral Revascularization
3rd National Seminar of Minimally Invasive Neurosurgery
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2016
- Complex Cerebral Aneurysms
3rd National Seminar of Minimally Invasive Neurosurgery
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2016
- Modern Cerebrovascular Neurosurgery (web-based interactive lecture)
FLENI Institute Lecture Series.
Buenos Aires, Argentina, September 2016
- Evolution of Skull Base Surgery
Michael McDermott Visiting Professor Lecture Series, Department of
Neurosurgery,
University of Cincinnati
Cincinnati, OH, October 2016.
- The Role of Bypass and Its Techniques in Modern Neurosurgery
Tenth Annual Microscopic / Endoscopic Skull Base Surgery Course
Allegheny General Hospital, Pittsburgh, PA, November 2016
- Supraorbital Approach to Anterior Cranial Base
Naples 16th International Workshop. Endoscopic Endonasal & Transcranial Skull
Base Approaches: Hands-on course.
Naples, Italy, November 2016

Special Guest Course Instructor

- Supraorbital Approach to Anterior Cranial Base
Naples 16th International Workshop. Endoscopic Endonasal & Transcranial Skull
Base Approaches: Hands-on course.
Naples, Italy, November 2016

Course Co-Director

- The 2016 Keller Lectureship
Cincinnati, OH, April 2016
- Step-by-step Video Demonstration and Hands-on Vascular By-pass
Tenth Annual Microscopic / Endoscopic Skull Base Surgery Course
Allegheny General Hospital, Pittsburgh, PA, November 2016

2017

Guest Speaker

- Session Moderator, Approach to Ordinary and Extraordinary Intracranial Lesions
The 26th Winter Clinics Snowmass, CO, February 2017
- Periorbital Approaches to the Anterior and Middle Skull Base.
The 26th Winter Clinics Snowmass, CO, February 2017
- Session Moderator, Proffered Paper Session: Best of Anatomy
27th North American Skull Base Society Meeting
New Orleans, LA, March 2017
- Hydrocephalus and Shunts: Everything You Need to Know
Grand Rounds Presentation, Department of Neurology, University of Cincinnati
Cincinnati, OH
- Surgical Treatment of Pituitary Adenomas. Traditional or Endoscopic?
Ohio State Neurosurgical Society Annual Meeting.
Columbus, OH
- Periorbital Approaches to the Anterior and Middle Cranial Fossae
4th National Seminar of Minimally Invasive Neurosurgery and National Meeting
of the Chinese Medical Academy
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2017
- Surgical Treatment of Multiple Cerebral Aneurysms
4th National Seminar of Minimally Invasive Neurosurgery and National Meeting
of the Chinese Medical Academy
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2017
- STA-MCA Bypass for the Treatment of Carotid Occlusion
4th National Seminar of Minimally Invasive Neurosurgery and National Meeting
of the Chinese Medical Academy
Sichuan Academy of Medical Sciences and Sichuan People's Provincial Hospital
Chengdu, China, August 2017
- Supraorbital Approach to the Anterior and Medial Cranial Fossae:
An Evolutionary Tale
Department of Neurosurgery, University of Louisville
Louisville, Kentucky
- The Supraorbital Approach
Association of Surgical Technologists, Ohio Chapter
Cincinnati, OH
- The Supraorbital Route to the Anterior and Middle Cranial Fossae
Department of Neurosurgery, Hofstra University
Long Island, NY
- The Role of Bypass in 2017
Eleventh Annual Microscopic / Endoscopic Skull Base Surgery Course
Allegheny General Hospital
Pittsburgh, PA
- Improving Surgical Results in Anterior Communicating Artery Aneurysms
First Panamedical Keyhole Seminar

Hospital de Transplantes do Estado de SP/ HTEJZ
Sao Paulo, Brazil

- The Supraorbital Window to the Anterior Fossa: Neuroanatomical Foundations for Approach Selection
First Panamedical Keyhole Seminar
Hospital de Transplantes do Estado de SP/ HTEJZ
Sao Paulo, Brazil
- Treatment Strategies for Complex Intracranial Aneurysms: Review of a 15-year Experience at the University of Cincinnati
First Panamedical Keyhole Seminar
Hospital de Transplantes do Estado de SP/ HTEJZ
Sao Paulo, Brazil
- Management of Unruptured Intracranial Aneurysms
First Panamedical Keyhole Seminar
Hospital de Transplantes do Estado de SP/ HTEJZ
Sao Paulo, Brazil
- Pituitary Adenomas: Surgical Strategies and Results
Department of Endocrinology, Metabolism and Diabetes
University of Cincinnati
Cincinnati, OH

Course Co-Director

- The 2017 Keller Lectureship
Cincinnati, OH, April 2017
- Step-by-step Video Demonstration and Hands-on Vascular By-pass
Eleventh Annual Microscopic / Endoscopic Skull Base Surgery Course
Allegheny General Hospital
Pittsburgh, PA

2018

Guest Speaker

- Session Moderator, Approach to Ordinary and Extraordinary Intracranial Lesions
The 27th Winter Clinics Snowmass, CO, February 2018
- Surgical Cerebral Revascularization.
The 27th Winter Clinics Snowmass, CO, February 2018
- Session Moderator, Surgical Video Session: Open Anterior Skull Base Procedures
27th North American Skull Base Society Meeting
San Diego, CA, February 2018

MANUSCRIPTS REVIEW

Reviewed an average of 3 manuscripts/year for the following journals:

Neurosurgery
Journal of Neurosurgery
Skull Base
Surgical Neurology
Stroke
Acta Neurochirurgica (Wien)
Neurologia Medico-Chirurgica (Tokyo)
Medical Science Monitor (Warsaw)
Neuroscience Letters
Lasers in Surgery and Medicine
Clinical Anatomy
Behavioral Brain Research
Clinical Ophthalmology
American Journal of Infection Control
Journal of Neurological Surgery- B
Operative Neurosurgery
World Neurosurgery

DEPARTMENT RECRUITMENT

Neurosurgery Residency Applicants Committee
Neurocritical Care Director Search Committee
Skull Base Search Committee
Spine Surgery Director Search Committee
Neurotrauma Director Search Committee

LOCAL AND COMMUNITY ACTIVITIES

09/2005 - present	Multiple contributions to patient education materials in relation to cerebrovascular disorders and traumatic brain injury, printed and posted by the Mayfield Clinic and the University of Cincinnati Neuroscience Institute (UCNI) Cincinnati, OH
06/2012	Director, "Play it Safe: 2012 Injury Prevention and Safety Expo" Daniel Drake Center Cincinnati, OH
08/2013	Silent Wounds of War Brain Injury & Posttraumatic Stress" One Mind for Research/Mayfield Clinic/Department of Neurosurgery, University of Cincinnati National Underground Railroad Freedom Center, Cincinnati, OH
10/2013	Pituitary Tumors 2013 Midwest Regional Brain Tumor Conference West Chester, OH
10/2013	Crosstown Concussion Training Program Cincinnati, OH

11/2013 Crosstown Concussion Training Crew Program
Mayfield Clinic/ThinkFirst

10/2015 Concussion Program across High Schools in Cincinnati
Minimally Invasive Brain Tumor Surgery/Skull Base Surgery
2015 Midwest Regional Brain Tumor Conference
Cincinnati, OH

10/2015 Pituitary Adenoma
2015 Midwest Regional Brain Tumor Conference
Cincinnati, OH

TEACHING

75% of time spent teaching students, residents, fellows

Teaching at Professional Courses

Teaching Faculty

04/2000 Lateral approaches to tumors and aneurysms: Applications of the transcondylar, far lateral, and extreme lateral approaches” Cadaver Course
Keller JT and van Loveren HR (Directors)
American Association of Neurological Surgeons, 69th Annual Meeting
San Francisco, CA

04/2001 Skull Base Tumors. Cadaver Course
Keller JT and van Loveren HR (Directors)
American Association of Neurological Surgeons, 70th Annual Meeting
Toronto, Canada

03/2002 *Teaching Faculty*
Anspach Pneumatic Drill Course for Physicians
Keller JT (Director)
Goodyear Microsurgery Laboratory, University of Cincinnati
Cincinnati, OH

04/2002 *Teaching Faculty*
Skull Base Tumors: Treatments and Complications. Cadaver Course
Keller JT and van Loveren HR (Directors)
American Association of Neurological Surgeons, 71st Annual Meeting
Chicago, IL

10/2002 *Teaching Faculty*
A One Day Comprehensive Course on Tumors and Functional Disorders of the Cranial Nerves of the Posterior Fossa. Cadaver Course
van Loveren HR, Kassam AB, Keller JT (Directors)
Congress of Neurological Surgeons, 52nd Annual Meeting
Philadelphia, PA

10/2007 *Teaching Faculty*
to present Microsurgical Skills Course for Residents.
Zuccarello M and Keller JT (Directors)

Center for Surgical Innovation, University of Cincinnati
Cincinnati, OH

10/2010
to present *Co-Director*
Microsurgical Skills Course for Residents (2 courses/year)
Andaluz N, Keller JT, Zuccarello M (Directors)
Center for Surgical Innovation, University of Cincinnati
Cincinnati, OH

10/2010
to present *Teaching Faculty*
Microscopic and Endoscopic Approaches for Skull Base Lesions and
Cerebrovascular Bypass Session
Aziz KM (Director)
Center of Complex Intracranial Surgery, Allegheny General Hospital
Pittsburgh, PA

04/2011
Teaching Faculty
Minimally Invasive Treatment of Anterior Cranial Base Lesions
Tew JM Jr, Theodosopoulos P, Keller JT (Directors)
American Association of Neurological Surgeons, 79th Annual Meeting
Denver, CO

10/2011
to present *Teaching Faculty*
Video Demonstration and Hands-on Vascular By-pass Using Animal Models
Fifth Annual Microscopic / Endoscopic Skull Base Surgery Course” Vascular
Bypass Animal lab and “ELANA” Laser Bypass Lab, Allegheny General
Hospital, Pittsburgh, PA

03/2012
to present *Teaching Faculty*
Advanced Trauma Life Support Provider/Student Refresher Course
American College of Surgeons, Committee on Trauma, Ohio Chapter
Cincinnati, OH

03/2016
to present *Teaching Faculty*
Advanced Trauma Life Support Provider/Student Refresher Course”
American College of Surgeons, Committee on Trauma, Ohio Chapter
Cincinnati, OH

03/2016
to present *Course Co-Director*
Advanced Midas Rex Cranial Course (2 courses/year)
Henry Goodyear Laboratory, Cincinnati, OH

05/2016
Course Co-Director
Neuro 101 Codman Sales Training Course
Henry Goodyear Laboratory, Cincinnati, OH

10/2016
Course Co-Director
Second Intensive Course on Cerebrovascular Surgery
University of Cincinnati / Brazilian Academy of Neurosurgery
Cincinnati, OH

11/2016
Course Co-Director
Advanced Cranial Plating Course
Henry Goodyear Laboratory, Cincinnati, OH

Grand Rounds Presentations

Department of Neurosurgery, University of Cincinnati

05/2000	Endovascular Therapy of Cerebral Vasospasm
08/2000	Hypothermia in Neurosurgery
02/2001	Cerebral Revascularization
06/2001	Intraoperative Neuroprotection: Myths and Facts
08/2001	Neuronal Transplantation
11/2001	Orbitopterional Approach to Anterior Communicating Aneurysms
07/2002	Treatment of Posterior Circulation Aneurysms: Review of Results
03/2003	Fenestration of the Lamina Terminalis as a Valuable Adjunct in Ruptured Aneurysm Surgery
12/2009	The Role of Surgery in Intracerebral Hemorrhage
04/2014	Multidisciplinary Care of Acute Head Injury
07/2015	Pituitary Adenomas: Surgical Strategies and Results
08/2016	Endoscopic Anterior Skull Base Surgery. Where Does It End?

Department of Neurosurgery, University of South Florida

04/2008	Is There a Role for Surgery in the Treatment of Spontaneous Intracerebral Hemorrhage?
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Professor's Hour

Department of Neurosurgery, University of Cincinnati

08/2010	Intradural, Intramedullary Tumor Presenting as a C2 Fracture
02/2011	Chiari Malformation and Cervical Syrinx in a Young Adult
02/2012	Tethered Cord Syndrome in Adult Patients
08/2012	Falcine Meningioma
02/2013	Dural Arteriovenous Fistula
05/2013	Idiopathic Transdural Spinal Cord Herniation
09/2013	Colloid Cyst
02/2014	Intradural Intramedullary Spinal Cord Tumor
06/2014	Germinoma
07/2015	Cerebellopontine Angle Mass
10/2015	Spinal Extradural Arachnoid Cysts
04/2016	Brainstem Cavernoma
11/2016	Foramen Magnum Meningioma

Journal Club Director

Department of Neurosurgery, University of Cincinnati

10/2008-03/2017 Journal Club Director: In charge of selection, assignment, and discussion of monthly Journal Club

Patient Education Materials Development:

Topics include: Traumatic Brain Injury, Pituitary Surgery, Acoustic Neuromas, Carotid Disease

UC Neuroscience Institute and the Mayfield Brain & Spine.

Pituitary Network Association

Acoustic Neuroma Association

Mentoring

- 2006-10 Juan Manuel Lazarte, MD
Currently at Universidad Nacional de Rosario, Argentina
Mentored on: surgical training, career advisor, personal advisor.
- 2011-12 Hyunwoo Do MD, Spine Fellow, VA Hospital, Fellowship Director.
Currently in South Korea
- 2011-12 Daniel Webb MD, Neurosurgery Resident, University of Cincinnati.
Mentored on: surgical training, career advisor, personal advisor.
Working in private practice in Rome, GA.
- 2011-13 Christopher Sanders Taylor MD, Neurosurgery Resident, University of Cincinnati. Mentored on: surgical training, career advisor, personal advisor.
Working in private practice in Columbus, OH.
- 2012-14 Mark Magner, MD. Neurosurgery Resident
Mentored on: surgical training, career advisor, personal advisor.
Working in private practice in Cincinnati, OH.
- 2015-17 Yair Gozal, MD, PhD. Neurosurgery Resident
Mentored on: surgical training, career advisor, personal advisor.
Currently a Skull Base Neurosurgery Fellow at University of Utah
- 2016-2018 Alberto DiSomma, MD, PhD. Neurosurgery Resident
Mentored on: anatomical research, career advisor, doctorate thesis
Currently completing Fellowship in Sevilla, Spain

Research Advisor for:

Juan Carlos DeBattista, MD (University of Paris, France)	Skull Base Research
Ondrej Choutka, MD (University of Cincinnati)	Cerebrovascular Research
Chad Farley, MD (University of Cincinnati)	Traumatic Brain Injury
Joseph Serrone, MD (University of Cincinnati)	Cerebrovascular Research
Cyrus King, MD (University of Cincinnati)	Traumatic Brain Injury
Yair Gozal, MD (University of Cincinnati)	Traumatic Brain Injury
Natalie Kreitzer, MD (University of Cincinnati)	Traumatic Brain Injury
Steve Gogela, MD (University of Cincinnati)	Skull Base Research
Mohammed Saleh, MD (University of Cincinnati)	Traumatic Brain Injury
Almaz Kurbanov, MD (University of Istanbul, Turkey)	Skull Base Research

Smruti Patel, MD (University of Cincinnati)	Traumatic Brain Injury
Eleonora Mercati, MD (University of Paris, France)	Skull Base Research
Aurel Hasanbelliu, MD (University of Verona, Italy)	Skull Base Research
Alberto Di Somma, MD (University of Naples, Italy)	Skull Base Research
Franklin Lima, MD (University of Sao Paulo, Brazil)	Skull Base Research
Alejandro Mercado, MD (University of Buenos Aires, Argentina)	Skull Base Research
Jennifer Kosty, MD (University of Cincinnati)	Skull Base/Cerebrovascular
Beatrice Boido, MD (University of Naples, Italy)	Skull Base Research
Assunta Filippini, MD (University of Paris, France)	Skull Base Research
Christopher Carroll, MD	Trauma/Skull Base/Vascular
Fabian Castro Barros, MD (University of Buenos Aires, Argentina)	Skull Base/Cerebrovascular

PATENTS SUBMITTED

NON-INVASIVE DETECTION OF SPREADING DEPOLARIZATION USING SCALP ELECTROENCEPHALOGRAPHY (Hartings, Hinzman, DiNapoli, Andaluz, Pollandt) 2014

RESEARCH

Grants

W81XWH-08-2-0016 Spreading Depression as Secondary Insults After Traumatic Injury to the Human Brain

Agency: Department of Defense
 Time period: 9/1/08-7/25/16
 Total Funding: \$2,514,370
 Role: Co-PI

R01 NS61860, "Randomized Clinical Trial of the Safety and Efficacy of Brain Tissue Oxygen (pBrO₂) Monitoring in the Management of Severe Traumatic Brain Injury" (BOOST-II)

Agency: National Institute of Health/NINDS
 Time period: 9/1/11-8/31/14
 Total Funding: \$112,710
 Role: Site PI

W81XWH-08-2-0159 - Post-Traumatic Stress Disorder and Traumatic Brain Injury Consortium

Studies Included:

Initial Randomized Controlled Trial of Acceptance and Commitment Therapy (ACT) for Distress and Impairment of OEF/OIF/OND Veterans

Total award \$59,072

Role: Co-PI

Cognitive Remediation After Trauma Exposure (CREATE) or Randomized, Controlled Trial of galantamine, methylphenidate, & placebo for treatment of Cognitive Symptoms in Patients with mTBI or PTSD.

Total award \$360,669

Role: Site PI

A Proof-of-Concept, Double-Blind, Randomized, Placebo-Controlled Study of Ganaxolone in Posttraumatic Stress Disorder.

Total award \$315,852

Role: Site PI

A Double-Blind, Placebo-Controlled, Flexible-Dose Pilot Clinical Trial of Once-Daily Extended-Release Tramadol for the Treatment of PTSD.

Total award \$303,414

Role: Co-PI

The Injury and Traumatic Stress (INTRuST) Consortium Biorepository.

Total Award \$50,078

Role: Site PI

The Injury and Traumatic Stress (INTRuST) Consortium Neuroimaging Acquisition and Archival. Total award \$207,004

Role: Site PI

Agency: Department of Defense

Time period: 7/1/12-9/30/13

Total Funding: see above

Role: Site PI

12-08-13-01 Invasive and Non-invasive monitoring of Spreading depolarization by ElectroCorticography in Trauma and stroke (INSPECT)

Agency: Mayfield Education and Research Foundation

Time period: 10/1/12-9/9/15

Total Funding: \$8,900

Role: Co PI

W81XWH-09-1-0496 Investigating Treatments for the Prevention of secondary Injury & Disability following TBI (INTREPID)

Agency: Department of Defense, Neuren Pharmaceuticals

Time period: 9/17/13-4/21/16

Total Funding: \$137,400

Role: PI

2013-6670 OCT retinal imaging of athletes with high frequency of head injury

Agency: Mayfield Education and Research Foundation

Time period: 1/1/14 – 9/30/14

Total Funding: \$11,500

Role: Co-Investigator

2013-2993 The Electrophysiological and Behavioral Audiological Assessment of Individuals with Mild Traumatic Brain Injury (mTBI)

Agency: Mayfield Education and Research Foundation

Time period: 1/1/14 – 10/31/14

Total Funding: \$9,000

Role: Co-Investigator

Factors influencing the acute management of the mild traumatic brain injury patient

Agency: Mayfield Education and Research Foundation

Time period: 1/1/14 - present

Total Funding: \$8,000

Role: Co-Investigator

Autoregulatory Failure After Severe Brain Injury: Impact on Mortality

Agency: Mayfield Education and Research Foundation

Time period: 8/31/15-8/31/16

Total Funding: \$34,100

Role: Co-Investigator

A cadaveric comparison of optic canal decompression via a transcranial versus an endoscopic endonasal approach

Agency: Mayfield Education and Research Foundation

Time period: 8/31/15-8/31/16

Total Funding: \$18,100

Role: Co-PI

2015-4243: HypOthemia for Patients requiring Evacuation of Subdural Hematoma (HOPES): A Multicenter, Randomized Clinical Trial

Agency: Mayfield Education and Research Foundation

Time period: 8/31/15-8/31/16

Total Funding: \$50,000

Role: Site PI

Development & Validation of Spreading Depolarization Monitoring for TBI Management

Agency: Department of Defense

Time period: 9/21/15-

Total Funding: \$1,064,826.82

Role: Site PI

The EVICEL® Neurosurgery Phase III Study

Agency: Ethicon, Inc.
Time period: 8/26/15-7/31/16
Total Funding: \$14,827.50.
Role: Site PI

Development of a Transcranial Ultrasonographic Exam for the Management of Acute Traumatic Brain Injury

Time Period: 1/29/16-
Agency: US Air Force
Role Co-Investigator

Randomized Trial of Early Hemodynamic Management of Patients Following Acute Spinal Cord Injury (TEMPLE)

Time Period: 06/2017-
Agency: Oregon Health and Science University/ US Department of Defense
Role: Neurosurgical Site PI

Participated at multiple Trauma, Cerebrovascular, and Brain Tumor Clinical Trials as Co-Investigator

PEER REVIEWED ARTICLES

1. Ferrer J, Linari Micheletti A, Andaluz N, Nallino J. Subependymoma: Presentation of two symptomatic cases in adults. [in Spanish]. An Fund Dr RJ Villavicencio, pp.167-168, 1998.
2. Andaluz N, Balko G, Bui H, Zuccarello M. Angiolipomas of the central nervous system. J Neurooncol 49(3): 219-230, 2000.
3. Andaluz N, Taha JM, Dalvi A. Bilateral pallidal deep brain stimulation for cervical and truncal dystonia. Neurology. 57(3): 557-558, 2001.
4. Andaluz N, Taha JM. Implant of the Synergy pulse generator in the gluteal area: Technical note. Neuromodulation 5 (2): 72-74, 2002.
5. Andaluz N, Balko G, Stanek J, Morgan CJ, Schwestchenau P. Lobular capillary hemangioma of the spinal cord: Case presentation and review of the literature. J Neurooncol 56(3): 261-264, 2002.
6. Andaluz N, Tomsick T, Tew JM, van Loveren HR, Yeh HS, Zuccarello M. Indications for endovascular therapy for medically refractory vasospasm at the University of Cincinnati. Surg Neurol 58(2): 131-138, 2002.
7. Andaluz N, van Loveren HR, Keller JT, Zuccarello M. Anatomical and clinical study of the orbitopterional approach for anterior communicating artery aneurysms. Neurosurgery 52(5): 1140-1149, 2003.
8. Andaluz N, Tew JM Jr. Intradural aneurysm arising from the posterior genu of the cavernous carotid artery mimicking a posterior communicating artery aneurysm: Case report. Neurosurgery 53 (2): 432-435, 2003.
9. Andaluz N, van Loveren HR, Keller JT, Zuccarello M. The one-piece orbitopterional approach. Skull Base 13 (4): 241-246, 2003.

10. Gonzalez LF, Zabramski JM, Andaluz N, van Loveren HR, Keller JT, Zuccarello M. Anatomic and clinical study of the orbitopterional approach to anterior communicating aneurysms. *Letter. Neurosurgery* 54 (4): 1031-1032, 2004.
11. Andaluz N, Zuccarello M. Evidence-based treatment of carotid stenosis: Literature review. *J Neurosurg Sci* 48 (1): 1-9, 2004.
12. Andaluz N, Myseros JS, Crone K, Sathi S, Tew JM Jr. Recurrence of cerebral arteriovenous malformations in children. Report of two cases and review of the literature. *Surg Neurol* 62: 324-331, 2004.
13. Andaluz N, Zuccarello M. Fenestration of the lamina terminalis as a valuable adjunct in anterior communicating artery aneurysm surgery. *Neurosurgery* 55 (5): 1050-1059, 2004.
14. Beretta F, Andaluz N, Zuccarello M, Keller JT. Aneurysms of the ophthalmic (C6) segment of the internal carotid artery. *J Neurosurg Sci* 48(4): 149-156, 2004.
15. Andaluz N, Pensak ML, Zuccarello M. Multiple peripheral anterior inferior cerebellar artery (AICA) aneurysms: Case report and review of the literature. *Acta Neurochir* 147 (4): 419-422, 2005.
16. Beretta F, Andaluz N, Zuccarello M, Keller JT. Aneurysms of the ophthalmic (C6) segment of the internal carotid artery: Embryology, surgical anatomy, and radiology. (Part 1) *Neurosurg Q* 15 (2): 79-90, 2005.
17. Andaluz N, Beretta F, Keller JT, Zuccarello M. Aneurysms of the ophthalmic (C6) segment of the internal carotid artery: Clinical experience, treatment options, and strategies. (Part 2) *Neurosurg Q* 15 (2): 91-102, 2005.
18. Andaluz N, Zuccarello M. Place of drug therapy in the treatment of carotid stenosis. Review article. *CNS Drugs* 19(7): 597-622, 2005.
19. Andaluz N. Mini-invasive treatment of spontaneous intracerebral hemorrhage. [in Spanish] *An Fund Dr RJ Villavicencio XII*: 095-098, 2004.
20. Beretta F, Hemida S, Andaluz N, Zuccarello M, Keller JT. Exposure of the distal C1 segment of the internal carotid artery in the parapharyngeal space: Surgical anatomy and morphometric study. *Neurosurgery* 59 (1) Supplement 1: ONS-25-ONS-34, 2006.
21. Andaluz N, Tomsick TA, Keller JT, Zuccarello M. Massive subdural hemorrhage in the posterior fossa caused by a ruptured cavernous carotid artery aneurysm following balloon occlusion test: Case report. *J Neurosurg* 105: 315-319, 2006.
22. Andaluz N, Beretta F, Bernucci C, Keller JT, Zuccarello M. Evidence for the improved exposure of the ophthalmic segment of the internal carotid artery after anterior clinoidectomy: Morphometric analysis. *Acta Neurochir (Wien)* 148: 971-976, 2006.
23. Andaluz N, Zuccarello M, Reddy L. Eyelid approach to anterior circulation aneurysms. *Skull Base* 17: A054, 2007.
24. Kocaeli H, Andaluz N, Zuccarello M. Use of radial artery grafts in extracranial-to-intracranial revascularization procedures. *Neurosurg Focus* 24 (2):E5, 2008.
25. Andaluz N, Zuccarello M. Blister-like aneurysms of the anterior communicating artery. *Neurosurgery* 62: 807-811, 2008.
26. Andaluz N, Zuccarello M. Cryptogenic subarachnoid hemorrhage: Yield of further diagnostic work-up and outcome analysis based on computerized tomography bleeding pattern. *Neurosurgery* 62(5): 1040-1046, 2008.

27. Andaluz N, Zuccarello M. Current trends in the treatment of cerebral aneurysms: Data analysis from a nationwide inpatient database. *J Neurosurg* 108(6): 1160-1169, 2008.
28. Andaluz N, Romano A, Reddy LV, Zuccarello M. Eyelid approach to anterior circulation aneurysms: Technical note. *J Neurosurg* 109: 341–346, 2008.
29. Beretta F, Andaluz N, Chalaala C, Bernucci C, Salud L, Zuccarello M. Image-guided comparative morphometric study of the supraorbital, transorbital, and pterional approaches to the sellar and perisellar regions. Abstract. *Skull Base* 18 (Suppl.1): A194, 2008.
30. Andaluz N, Zuccarello M. Recent trends in the treatment of spontaneous intracerebral hemorrhage: Analysis of a nationwide inpatient database. Abstract. *Neurosurgery* 62: 1404, 2008.
31. Andaluz N, Zuccarello M. Anterior communicating artery aneurysm surgery through the orbitopterional approach: Short and long-term follow-up in a series of 75 patients. *Skull Base* 18 (4): 265-274, 2008.
32. Andaluz N, Zuccarello M. Multidrug-resistant, progressive, invasive diffuse spinal aspergillosis: Case report and review of the literature. *J Neurosurg Sci* 52(2): 49-53, 2008.
33. Andaluz N, Zuccarello M. Recent trends in the treatment of spontaneous intracerebral hemorrhage: Analysis of a nationwide inpatient database. *J Neurosurg* 110: 403-410, 2009.
34. Andaluz N, Zuccarello M. Treatment strategies for complex intracranial aneurysms: Review of a 10-year experience at the University of Cincinnati. Abstract. *Skull Base* 19 (Suppl.3): 9-10, 2009.
35. Kocaeli H, Chalaala C, Andaluz N, Zuccarello M. Spontaneous intradural vertebral artery dissection: A single-center experience and review of the literature. *Skull Base* 19: 209-218, 2009.
36. Andaluz N, Choutka O, Vagal A, Strunk R, Zuccarello M. Patient selection for revascularization procedures in adult Moyamoya disease based on dynamic perfusion computerized tomography with acetazolamide challenge (PCTA). *Neurosurg Rev* 33(2): 225-232, 2010.
37. Andaluz N, Choutka O, Zuccarello M. Trends in the management of adult Moyamoya disease in the United States: Results of a nationwide survey. *World Neurosurg* 73(4): 361-364, 2010.
38. Beretta F, Andaluz N, Chalaala C, Bernucci C, Salud L, Zuccarello M. Image-guided anatomic and morphometric study of supra- and transorbital minicraniotomies to the sellar and perisellar region: Comparison with standard techniques. *J Neurosurg* 113: 975-981, 2010.
39. Andaluz N, Zuccarello M. Treatment strategies for complex intracranial aneurysms: review of a 12-year experience at the University of Cincinnati. *Skull Base* 21(4): 233-242, 2011.
40. DeBattista JC, Andaluz N, Keller JT. Refining the indications for the addition of orbital osteotomy for anterior cranial base approaches: Morphometric and radiologic study of the anterior cranial base osteology. Abstract. *Skull Base* 21 (Suppl 1): 13, 2011.

41. Andaluz N, Zuccarello M, Kuntz CK IV. Mid and long-term clinical and radiographic follow-up after cervical corpectomy for the treatment of spondylosis of the subaxial cervical spine causing myelopathy and radiculomyelopathy. *J Neurosurg: Spine* 16(1):2-7, 2012.
42. De Battista JC, Andaluz N, Choutka OJ, Zimmer L, Keller JT. Endoscopic anatomy of the retroclival region. *Skull Base* 22 (Suppl 1): 96, 2012.
43. De Battista JC, Andaluz N, Zuccarello M, Kerr RG, Keller JT. Refining the indications for the addition of orbital osteotomy for anterior cranial base approaches: Morphometric and radiologic study of the anterior cranial base osteology. *J Neurol Surg Rep* 75(1)e22-26, 2014.
44. Serrone J, Andaluz N, Tate V, Ware S, Zuccarello M. Systemic and local irrigating argatroban during carotid endarterectomy in a patient with heparin-induced thrombocytopenia: Case Report. *World Neurosurg.* 80(1-2):222.e15-18, 2013.
45. Serrone J, Wash E, Hartings J, Andaluz N, Zuccarello M. Venous Thromboembolism in Subarachnoid Hemorrhage. *World Neurosurg.* 80(6):859-863, 2013.
46. Serrone J, Ringer AJ, Andaluz N, Abruzzo TA, Zuccarello M. Endovascular management of vasospasm in ruptured, unsecured intracranial vascular lesions. *J Neurointerv Surg.* 6(2):108-114, 2014.
47. Hartings JA, Vidgeon S, Strong AJ, Zacko C, Vagal A, Andaluz N, Ridder T, Stanger R, Fabricius M, Mathern B, Pahl C, Tolia C, Bullock MR, COSBID Investigators. Surgical management of traumatic brain injury: a comparative effectiveness study of 2 centers. *Journal of Neurosurgery* 120(2):434-446, 2014.
48. Farley CW, Gozal YM, Hanseman DJ, Harwell D, Magner M, Shutter Lori, Andaluz N. Ventriculostomy-Associated Infections: A New, Standardized Reporting Definition and Institutional Experience. *Neurocrit Care.* 2014 Aug;21(1):147-51.
49. Serrone JC, Jimenez L, Hanseman DJ, Carroll CP, Grossman AW, Wang L, Vagal A, Choutka O, Andaluz N, Ringer AJ, Abruzzo TA, Zuccarello M. Changes in Computed Tomography Perfusion Parameters after Superficial Temporal Artery to Middle Cerebral Artery Bypass: An Analysis of 29 Cases. *J Neurol Surg B Skull Base.* 2014 Dec;75(6):371-7.
50. De Battista JC, Olivero M, Nefa L, Muñoz A, Sanchez E, Andaluz N, Keller JT. Cirugía Endoscópica Endonasal Extendida a la Región Petro-Clival/Apex Petroso. Reporte de un Caso y Revisión de la Literatura. (Expanded Endoscopic Endonasal Approach to the Petro-Clival/Petrous Apex Region. Case Report and Literature Review) [In Spanish]. *Rev Arg Neurocir* 28: 58-62, 2014.
51. Hinzman JM, Andaluz N, Shutter LA, Okonkwo DO, Pahls C, Strong AJ, Dreier JP, Hartings JA. Inverse Neurovascular Coupling to Cortical Spreading Depolarizations in Severe Brain Trauma. *Brain.* 2014 Nov;137(Pt 11):2960-72.
52. Hartings JA, Wilson JA, Hinzman JM, Pollandt S, Dreier JP, DiNapoli V, Ficker DM, Shutter LA, Andaluz N. Spreading Depression in Continuous Electroencephalography of Brain Trauma. *Ann Neurol.* 2014 Nov;76(5):681-94.
53. Andaluz N, Zuccarello M. Supraorbital and transorbital craniotomies. Response. *J Neurosurg.* 2014 Nov;121(5):1291-3.

54. Wright DW, Yeatts SD, Silbergleit R, Palesch YY, Hertzberg VS, Frankel M, Goldstein FC, Caveney AF, Howlett-Smith H, Bengelink EM, Manley GT, Merck LH, Janis LS, Barsan WG; NETT Investigators. Very early administration of progesterone for acute traumatic brain injury. *N Engl J Med*. 2014 Dec 25;371(26):2457-66.
55. Tackla R, Hinzman JM, Foreman B, Magner M, Andaluz N, Hartings JA. Assessment of Cerebrovascular Autoregulation Using a Regional Cerebral Blood Flow Monitor in Severe TBI Patients. *Neurocrit Care*. 23(3):339-46, 2015
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57. Kurbanov A, Sanders-Taylor C, Keller JT, Andaluz N, Zuccarello M. The Extended Transorbital Craniotomy: An anatomical study. *Neurosurgery* 11, Suppl. 1: 338-344, 2015.
58. Fried HI, Nathan BR, Rowe AS, Zabramski JM, Andaluz N, Bhimraj A, Guanci MM, Seder DB, Singh JM. The Insertion and Management of External Ventricular Drains: An Evidence-Based Consensus Statement: A Statement for Healthcare Professionals from the Neurocritical Care Society. *Neurocrit Care* 24(1):61-81, 2016.
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61. Dreier JP, Fabricius M, Ayata C, Sakowitz OW, William Shuttleworth C, Dohmen C, Graf R, Vajkoczy P, Helbok R, Suzuki M, Schiefecker AJ, Major S, Winkler MK, Kang EJ, Milakara D, Oliveira-Ferreira AI, Reiffurth C, Revankar GS, Sugimoto K, Dengler NF, Hecht N, Foreman B, Feyen B, Kondziella D, Friberg CK, Piilgaard H, Rosenthal ES, Westover MB, Maslarova A, Santos E, Hertle D, Sánchez-Porras R, Jewell SL, Balança B, Platz J, Hinzman JM, Lückl J, Schoknecht K, Schöll M, Drenckhahn C, Feuerstein D, Eriksen N, Horst V, Bretz JS, Jahnke P, Scheel M, Bohner G, Rostrup E, Pakkenberg B, Heinemann U, Claassen J, Carlson AP, Kowoll CM, Lublinsky S, Chassidim Y, Shelef I, Friedman A, Brinker G, Reiner M, Kirov SA, Andrew RD, Farkas E, Güresir E, Vatter H, Chung LS, Brennan KC, Lieutaud T, Marinesco S, Maas AI, Sahuquillo J, Dahlem MA, Richter F, Herreras O, Boutelle MG, Okonkwo DO, Bullock MR, Witte OW, Martus P, van den Maagdenberg AM, Ferrari MD, Dijkhuizen RM, Shutter LA, Andaluz N, Schulte AP, MacVicar B, Watanabe T, Woitzik J, Lauritzen M, Strong AJ, Hartings JA. Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. *J Cereb Blood Flow Metab*. 2016 Jun 17. pii: 0271678X16654496. [Epub ahead of print]

62. Hasanbelliu A, Andaluz NO, Di Somma A, Keller JT, Zimmer L, Pensak ML, Samy R, Zuccarello M. Expanded Anterior Petrosectomy Through the Transcranial Middle Fossa and Extended Endoscopic Transphenoidal-Transclival Approaches: Qualitative and Quantitative Anatomic Analysis. *Neurosurgery*. 63 Suppl 1:186, 2016.
63. Kosty J, Andaluz N. Metastatic thymic carcinoma presenting as a posterior fossa mass: case report and review of the literature. *World Neurosurg*. 2016 Jul 11. pii: S1878-8750(16)30520-4. doi: 10.1016/j.wneu.2016.07.001. [Epub ahead of print]
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ABSTRACTS

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Phoenix, AZ
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Cincinnati, OH
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Budapest, Hungary
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 45. Hinzman JM, Andaluz N, Shutter LA, Okonkwo DO, Pahls C, Strong AJ, Dreier JP, Hartings JA. Inverse Neurovascular Coupling to Cortical Spreading Depolarizations in Severe Brain Trauma. Oral Presentation. National Neurotrauma Society Symposium 2014
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55. Wrigley P, Silva E, Andaluz N, Foreman B. Continuous EEG after Traumatic Brain Injury.
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57. Marcati E, Roebker J, Andaluz N, Froelich SC, Zimmer LA, Keller JT. Morphometric Analysis of Lingula Sphenoidalis and Its Surgical Relevance.
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Scottsdale, AZ
58. Marcati E, Andaluz N, Keller JT, Zimmer LA, Froelich SC, Zuccarello M. Extended Endoscopic-assisted Kawase versus Endoscopic Endonasal Anterior Petrosectomy: Cadaveric Study
Poster Presentation. 2016 North American Skull Base Society Meeting
Scottsdale, AZ

59. Marcati E, Andaluz N, Leach J, Zimmer LA, Froelich SC, Kurbanow A, Keller JT. Paratrigeminal, Paraclival, Precavernous, or All of the Above? Circumferential anatomic study of the C3-C4 transitional segment of the internal carotid artery. Poster Presentation. 2016 North American Skull Base Society Meeting Scottsdale, AZ
60. Gozal YM, Carrol CP, Krueger B, Khoury J, Andaluz N. Point-of-care testing in the acute management of traumatic brain injury: Identifying the coagulopathic patient. 2016 Ohio State Neurosurgical Society Meeting Cincinnati, OH
61. Gogela SL, Zimmer LA, Keller JT, Andaluz N. Quantitative comparison of optic canal decompression via a transcranial versus endoscopic endonasal approach. 2016 Ohio State Neurosurgical Society Meeting. Cincinnati, OH
62. Hasanbelliu A, Andaluz N, Di Somma A, Keller JT, Zimmer LA, Pensak ML, Samy RN, Zuccarello M. Expanded anterior petrosectomy through the transcranial middle fossa and extended endoscopic transphenoidal-transclival approaches: qualitative and quantitative anatomic analysis. Oral Presentation. 2016 Congress of Neurosurgical Surgeons San Diego, CA.
63. Foreman B, Macedo J, Bonomo J, Knight IV WA, Zammit C, Kanter D, Andaluz N. Refractory Intracranial Pressure Guided by Multimodal Monitoring and Delayed Bifrontal Decompressive Hemicraniectomy. Poster Presentation. 2016 Annual Neurocritical Care Society Meeting, Nashville, TN
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65. Foreman B, Hinzman J, York JD, Tackla R, Krueger B, Zammit C, Kanter D, Andaluz N, Hartings JA. Bedside Detection of Spreading Depolarizations using Cortical Depth Electrodes in Severe Traumatic Brain Injury: Preliminary Experience. Poster Presentation. 2016 Annual Neurocritical Care Society Meeting Nashville, TN
66. Gogela SL, Zimmer LA, Keller JT, Andaluz N. Quantitative comparison of optic canal decompression via a transcranial versus endoscopic endonasal approach. Oral Presentation. 2017 Annual Meeting, North American Skull Base Society New Orleans, LA 2017
67. Ngwenya L, Stoddard E, Andaluz N, Hartings J, Foreman B. Multimodality Monitoring in Severe Traumatic Brain injury: Clinical Feasibility and Reliability. 2017 Annual Neurocritical Care Meeting, Waikoloa, Hawaii.
68. Foreman B, Stoddard E, Andaluz N, Hartings J, Ngwenya L. The Safety and Reliability of a Novel, Single Burr Hole Approach to Intracranial Multimodal Monitoring in Severe Traumatic Brain Injury. 2017 Annual Neurocritical Care Meeting, Waikoloa, Hawaii.

83. Carroll CP, Patel SK, Voung S, Mejia Munne J, Shahbabian S, Andaluz N. A Rare Etiology of Piriformis Syndrome: Piriformis Ganglion Cyst Masquerading as a Peripheral Nerve Sheath Tumor.
Poster Presentation. 2018 AANS Annual Meeting.
New Orleans, LA
84. Carroll CP, Patel SK, Voung S, Mejia Munne J, Andaluz N. Petroclival Expansion of the Anterior Petrosectomy: Lessons Learned from Cadaveric Study Applied to a Ventral Pontine Cavernoma.
Poster Presentation. 2018 AANS Annual Meeting.
New Orleans, LA

BOOKS, CHAPTERS, REVIEWS, INVITED PAPERS

Books Published:

1. Cerebral Vasospasm: Neurovascular Events after Subarachnoid Hemorrhage. Edited by: Mario Zuccarello, MD, Joseph F. Clark, PhD, Gail Pyne-Geithman, D Phil, Norberto Andaluz, MD, Jed A Hartings, PhD, and Opeolu M. Adeoye, MD- Acta Neurochirurgica Supplementum, Vol. 115; ISBN 978-3-7091-1191-8.

Invited Book Chapters:

2. Andaluz N, Zuccarello M, Wagner KR. Experimental models of intracerebral hemorrhage. In: Intracerebral Hemorrhage. R Rossenwasser (Ed). Neurosurg Clin North Am Vol. 13 (3): 385-393, 2002.
3. Zuccarello M, Andaluz N, Wagner KR. Minimally invasive therapy for intracerebral hemorrhage. In: Intracerebral Hemorrhage. R Rossenwasser (Ed). Neurosurg Clin North Am Vol. 13 (3): 349-354, 2002.
4. Zuccarello M, Andaluz N. "Stroke-Vascular Diseases" by WW Fleischhacker and DJ Brooks (eds.). Springer-Verlag (Wien), 2003. Book review. J Neurosurg 99:794-795, 2003.
5. Taha JM, Abdel Aziz KM, Andaluz N. Posterior rhizotomy and dorsal ganglionectomy for intractable pain. In: Youmans Neurological Surgery, 5th Ed. HR Winn (editor), Elsevier: Philadelphia. Chapter 190: 3033-3044, 2004.
6. Andaluz N, Zuccarello M. Fenestration of the lamina terminalis reduces the incidence of vasospasm after subarachnoid hemorrhage from ruptured anterior communicating artery aneurysms. In: Cerebral Vasospasm. Advances in Research and Treatment. RL Macdonald (ed.) New York: Thieme. Chapter 64: 263-266, 2005.
7. Zuccarello M, Andaluz N. Clinical trials dilemmas in cerebral vasospasm. In: Cerebral Vasospasm. Advances in Research and Treatment. RL Macdonald (ed.) New York: Thieme. Chapter 54: 227-230, 2005.
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11. Special contribution to Sections "Carotid artery stenosis and endarterectomy", "Emergency carotid endarterectomy", and "Totally occluded carotid artery". *Handbook of Neurosurgery*, 7th Edition. Mark S. Greenberg (ed.). New York: Thieme. Chapter 33: 1144-1158, 2010.
12. Andaluz N. "Avances en Vasoespasmo Cerebral. Depresiones Corticales Propagadas y Su Posible Rol en la Fisiopatología del Daño Neuronal Subsecuente a la Hemorragia Subaracnoidea". (Advances in Cerebral Vasospasm. Cortical Spreading Depressions and their possible role in the pathophysiology of neuronal damage subsequent to subarachnoid hemorrhage). Invited paper. [In Spanish]. *Rev Chil Neurocirugía (Chile)* 35: 65-71, 2010.
13. Andaluz N, Zuccarello M, Dreier JP, Hartings JA. "The Role of Cortical Spreading Depolarizations in Delayed Cerebral Ischemia after Aneurysmal Subarachnoid Hemorrhage". Invited Paper. *J Bras Neurocirurg* 22: 45-53, 2011.
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