

**ROBERT F. SPETZLER, MD**

CURRICULUM VITAE AND BIBLIOGRAPHIES

October 1, 2020

**ROBERT F. SPETZLER, MD**

**Curriculum Vitae and Bibliography: Sequence of Sections**

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**ROBERT F. SPETZLER, MD****SECTION I OF III****BIOGRAPHICAL SKETCH**

Date of Birth: November 13, 1944

Married: April 6, 1974 to Nancy Baxley

Children: David – 1975  
Christina – 1977

Permanent Address: 6107 North Palo Cristi  
Paradise Valley, AZ 85253

**CURRENT POSITION**

Emeritus President & CEO  
Emeritus Professor and Chair, Department of Neurosurgery

**Barrow Neurological Institute**  
St. Joseph's Hospital and Medical Center  
350 West Thomas Road  
Phoenix, AZ 85013

**EDUCATION**

Illinois Valley Community College Peru, IL	9/1963–6/1964
Knox College Galesburg, IL	1967 – BS
Northwestern University School of Medicine Chicago, IL	1971 – MD

**POSTGRADUATE TRAINING**

Northwestern University Wesley Memorial Hospital Chicago, IL	7/1971–6/1972 – Internship
University of California San Francisco, CA	7/1972–6/1977 – Residency, Neurological Surgery

**BOARD CERTIFICATION**

American Board of Neurological Surgery 9/1979

**ACADEMIC APPOINTMENTS**

University of California San Francisco, CA	7/1976–6/1977 – Instructor, Dept. of Neurosurgery
Case Western Reserve University, School of Medicine School of Medicine Cleveland, OH	7/1977–6/1981 – Assistant Professor, Dept. of Neurosurgery 7/1981–8/1983 – Associate Professor, Dept. of Neurosurgery
University of Arizona School of Medicine Tucson, AZ	1/1985–8/1987 – Clinical Professor of Surgery 9/1987–8/1991 – Professor and Chief, Section of Neurosurgery 9/1991–7/2017 – Professor, Section of Neurosurgery
Barrow Neurological Institute Phoenix, AZ	9/1983–7/2017 – J.N. Harber Chairman of Neurological Surgery 1/1986–7/2017 – Director/President & CEO, Barrow Neurological Institute
Barrow Neurological Institute	11/1994–7/2017 – Robert F. Spetzler Chair, Neurological Research
Arizona State University Tempe, AZ	8/2007–2017 – Adjunct Professor, School of Biological and Health Systems Engineering
Barrow Neurological Institute	12/2007–7/2017 – Robert F. Spetzler Chair, Neurosurgical Education
Creighton University School of Medicine Phoenix, AZ	12/2011–7/2017 – Professor, Affiliate Faculty, Department of Surgery
University of Arizona College of Medicine Phoenix, AZ	7/2014–7/2017 – Professor & Chair, Department of Neurosurgery

**HONORS**

Cloward Award Western Neurosurgical Society	11/2019
Cushing Medal American Association of Neurological Surgeons	4/2017

Inducted into the Historical League as Arizona "Historymaker"	2/2017
Neurosurgeon of the Year Award Texas Association of Neurological Surgeons	3/2012
Hope Award Florence Crittenton of Arizona	3/2012
Recipient of Founders Laurel-CNS San Francisco, CA	10/2010
William B. Scoville Award-WFNS Boston, MA	9/2009
HealthCare Leadership Award AzBusiness Magazine Category-Surgeon	3/2009
Honored Guest 4 <sup>th</sup> International Skull Base Congress Sydney, Australia	11/2004
Honored Guest American Academy of Achievement Class of 2000 Scottsdale, AZ Golden Plate Award	6/2000
Outstanding Alumni American Association of Community Colleges Anaheim, CA	1997
Honored Guest Congress of Neurological Surgeons Chicago, IL	1994
Honorary Degree, Doctor of Science Knox College Galesburg, IL	1994
American College of Surgeons Resident Essay Contest (1st Prize) <u>Warren Selman, MD</u> Joseph M. Zabramski, MD Robert F. Spetzler, MD, et al.	1983
American College of Surgeons Resident Essay Contest (1st Prize) <u>Joseph M. Zabramski, MD</u> Robert F. Spetzler, MD	1982

Warren Selman, MD, et al.	
American College of Surgeons Resident Essay Contest (1st Prize) <u>Richard A. Roski, MD</u> Robert F. Spetzler, MD Warren Selman, MD, et al.	1981
First Prize Research Seventh Intl. CNS (Munich Germany) Therapeutic Barbiturate Induce Coma for Focal Cerebral Ischemia: Relation of Response to Timing of Therapy and Duration of Occlusion <u>Warren R. Selman, MD</u> Robert F. Spetzler, MD Richard A. Roski, MD	1981
Annual Resident Award 27th Annual Meeting Congress of Neurological Surgery San Francisco, CA	1977
NIH Trauma Fellowship NIGMO	7/1976–7/1977
Honors in Biology Knox College CUM LAUDE	1967
Scholarship to Free University of Berlin Berlin, Germany	1965–1966

### TEACHING EXCELLENCE AWARDS

Mentor of the Millenium	2000
Teacher of the Year	1986, 1987, 1992, 1993, 1994, 1995, 1996, 1997, 2010
Professor of the Year	1983–1984

### LICENSURE

Currently held:	Arizona #14279	1983–present
Previously held:	California #G23819 Ohio #40996	

**MEMBERSHIPS, current**

American Academy of Neurological Surgery  
 American Association of Neurological Surgeons (AANS)  
     AANS/CNS Cerebrovascular Section  
 American College of Surgeons  
 Arizona Medical Association  
 Congress of Neurological Surgeons (CNS)  
 German Society of Neurological Surgery  
 North American Skull Base Society (NASBS)  
 Society of Neurological Surgeons  
 World Academy of Neurological Surgery (WANS)  
 World Federation of Neurosurgical Societies (WFNS)  
     Honorary President

**NATIONAL COMMITTEES, ADVISORY AND EDITORIAL BOARDS**

Accreditation Council for Graduate Medical Education (ACGME)  
     Appeals Panel, Neurosurgery – 7/5/2011–present  
 American Academy of Neurological Surgery  
     Scientific Program Chair – 2001  
     Vice President – 2005–2006  
     Chair, Corresponding Membership – 2006–2012  
     President – 2007-2008  
     Chair, Membership Advisory Committee – 2009–2010  
     Chair, Nominating Committee – 2009  
     Senior Delegate to WFNS  
 American Association of Neurological Surgeons (AANS)  
     Chairman, Scientific Program  
     Member, Marshal's Committee – 1982  
     Chairman, Marshal's Committee – 1983–1984  
     Chairman, Cerebrovascular Section – 1984–1985  
     Ambassador to EANS – 2017-2019  
 Congress of Neurological Surgeons (CNS)  
     Assistant Chairman, Registration Committee – 1980  
     Member, Sergeant-at-Arms Committee – 1980  
     Member, Scientific Program Committee – 1981  
     Member, Registration Committee – 1981  
     Chairman, Special Courses Committee – 1982  
     Member, Executive Committee – 1985–1987  
 North American Skull Base Society (NASBS)  
     President – 1999-2000  
     Member, Distinguished Service Award Committee – 2002–2003  
     Member, Publications Committee – 2002–2003  
 Ohio State Neurosurgical Society  
     Editor, Newsletter – 1979–1982  
     Treasurer – 1980–1981  
     Secretary – 1982–1983  
 World Federation of Neurosurgical Societies (WFNS)  
     Cerebrovascular Diseases Committee  
     Chairman, Nominating Committee – 2003–2006

Honorary President – 2015  
 WFNS Foundation-USA  
 Board of Trustees – 2014  
 Codman, a Johnson and Johnson Company  
 Member-Global Scientific Advisory Board – 2005–present  
 International Institute for Neurosurgery and Neuroresearch (IINN), Ljubljana, Slovenia  
 International Board of Advisers – 2007–present  
 National Football League Players Association  
 Member-NFLP Mackey-White Player Health and Safety Committee – 2017–present

*Barrow Quarterly (formerly BNI Quarterly)*  
 Editor-in-Chief – 1985–2017

*Neurosurgery*  
 Member, Editorial Board – 1986–present

*Operative Techniques in Neurosurgery–*  
 Editor-in-Chief – 1998–2005

*Skull Base: An Interdisciplinary Approach*  
 Editor-in-Chief – 2001–2008  
 Emeritus Member, Editorial Board – 2010–present

*Indian Journal of Cerebrovascular Surgery*  
 International Advisory Board – 2005–present

*Pan Arab Journal of Neurosurgery*  
 International Advisory Board – 2007–present

*World Neurosurgery*  
 Section Editor – 2014–present

## EXTERNAL RESEARCH FUNDING

Year Funding Started: **2003**

Confluent Surgical: “A Multi-Center Study to Evaluate the DuraSeal™ Dural Sealant System as an Adjunct to Sutured Dural Repair During Cranial Surgery”; 8/2003–4/2004, [\$ N/A – per patient].

Year Funding Started: **2001**

Medtronic PS Medical: “Pilot Study for the Evaluation of the INVISx Cranial Fixation System for Cranial Skull Flap Fixation”; 7/2001–12/2003, [\$ N/A – per patient].

Year Funding Started: **1999**

UMDNJ (award recipient) subcontract: “Carotid Revascularization Endarterectomy vs. Stenting Trial,” Grant #5RO1NS038384, NINDS; 1/15/1999–12/31/2011; [\$ N/A – per patient].

Year Funding Started: **1995**

Phillips Corporation: “Investigation of the Safety and Efficacy of Easyguide Neuro in Cranial Surgery”; 10/1995–10/1996, [\$ N/A – per patient].

Year Funding Started: **1992**

Ciba-Geigy Corporation: "Double-blind, Placebo-controlled Pilot Study Evaluating Safety and Tolerability of Two Intravenous Bolus Doses of CCS 19755 in the Treatment of Patients with Acute Ischemic Stroke" (Co-Investigator); 1992–1993 [\$ N/A - per patient].

Upjohn Corporation: "Efficacy/Safety Study of Freedox in Patients with Subarachnoid Hemorrhage" (Co-Investigator); 1992–1993 [\$ N/A - per patient].

Year Funding Started: **1991**

University of Cincinnati Cooperative Study: "Activase" (Principal Investigator); 1991 [\$ N/A - per patient].

Somanetics: "Correlation of Cerebral Venous Saturation Determined by Tissue Spectroscopy and Direct Sampling" (Co-Investigator); 1991 [\$1,000.].

Year Funding Started: **1990**

Cryomedical Sciences, Inc.: "Evaluation of the Protective Effects of Platelet-Activating Factor Antagonist SCR-1 in Primate Focal Ischemia" (Co-Investigator); 1990–1991 [\$50,000].

Year Funding Started: **1989**

National Institutes of Health (NIH)/Subcontract: "The Comparison of Two Doses of Nicardipine in Aneurysmal Subarachnoid Hemorrhage" (Principal Investigator); 1989–1991 [\$ N/A - per patient].

National Institutes of Health (NIH)/Master Agreement: "Cerebrovascular Clinical Research" (Principal Investigator); 1989–1994 [\$ N/A - per patient].

Ciba-Geigy Corporation: "Evaluation of CGS 19755 for Therapy in Focal Cerebral Ischemia in a Primate Model" (Principal Investigator); 1989–1990 [\$68,500.].

Cooperative Clinical Trial/Subcontract: "North American Symptomatic Carotid Endarterectomy Trial" (Participant/Surgeon); 1989-1994 [\$ N/A - per patient].

American Cancer Society Cooperative Study Grant #PDT-310A: "Hypothermia and Radiation in the Treatment of Brain Tumors" (Principal Investigator); 1989–1990 [\$ N/A - per patient].

American Cancer Society Cooperative Study Grant #PDT-310B: "Hyperthermia in the Treatment of Primary Malignant Brain Tumors" (Principal Investigator); 1989-1990 [\$ N/A - per patient].

Year Funding Started: **1988**

Arizona Disease Control Research Commission Grant: "Induced Cardiac Arrest and Brain Ischemia" (Principal Investigator); 1988–1989 [\$63,500].

Arizona Disease Control Research Commission Grant: "Familial Cavernous Malformations: Study of the Natural History" (Principal Investigator); 1988-1989 [\$40,000]; 1989-1990 [\$20,000]; 1990-1991 [\$19,900]; 1991-1992 [\$21,100].

National Institutes of Health (NIH) Consortium (Participating Center): "Asymptomatic Carotid Atherosclerosis Study" (Participant/Surgeon); 1988-1993 [N/A - per patient].

Wallace Genetic Foundation Grant: "Stroke Data Bank"; 1988-1991 [\$60,000].

Year Funding Started: **1987**

National Institutes of Health (NIH) Grant: "Phase II Studies of Calcium Antagonists in Treatment of Acute Stroke" (Principal Investigator); 1987-1988 [\$186,811].

Year Funding Started: **1986**

Arizona Disease Control Research Commission: "Therapeutic Management of Acute Stroke: Evaluation of Nimodipine and Hemodilution Therapy in Temporary Cerebral Ischemia" (Principal Investigator); 1986-1987 [\$45,000].

National Institutes of Health (NIH) Grant #1 R01 NS 20481-01A3: "Therapeutic Management of Cerebral Ischemia in Primates" (Principal Investigator); 1986-1989 [\$605,794].

Year Funding Started: **1985**

Miles Laboratory: "Calcium Antagonist in a Primate Model" (Principal Investigator); 1985-1986 [\$50,000].

American Critical Care Grant #607-85-10-22: "Controlled Study of the Use of Pentastarch vs Standard Medical Treatment in the Management of Acute Cerebral Infarction" (Principal Investigator); 1985-1987 [\$93,000].

National Institutes of Health (NIH) Grant #N01-NS-51000 T.O.-1: "Phase II Study of Calcium Antagonist in Acute Stroke" (Principal Investigator); 1985-1987 [\$218,000].

Year Funding Started: **1984**

National Institutes of Health (NIH)/Master Agreement: "Cerebrovascular Clinical Research" (Principal Investigator); 1984-1989 [N/A].

Year Funding Started: **1982**

Cooperative Clinical Trial/Subcontract: "International Study on Timing of Aneurysm Surgery" (Participant); 1982-1983 [N/A - per patient].

Year Funding Started: **1980**

National Institutes of Health (NIH) Grant #1R01 NS 15411-01A1: "Therapeutic Management of Stroke in a Baboon Model" (Principal Investigator); 1980-1983 [\$392,378].

Year Funding Started: **1978**

Rupp Foundation: "Cerebrovascular Research Project": (Principal Investigator); 1978-1983 [\$200,000].

Cooperative Clinical Trial/Subcontract: "Cooperative Study of Extracranial/Intracranial Arterial Anastomosis" (Participant); 1978-1979 [\$N/A - per patient].

## ROBERT F. SPETZLER, MD

### SECTION II OF III

#### BIBLIOGRAPHY OF PRESENTATIONS

##### Presented in 2020:

“Operative Nuances,” 2020 Spetzler Skull Base Course, Barrow Neurological Institute, Phoenix, AZ, January 10, 2020.

“Personal Evolution in Trans-Petrosal Skull Base Surgery,” 3<sup>rd</sup> Annual Congress of Lateral Skull Base Surgery, Barrow Neurological Institute, Phoenix, AZ, February 14, 2020.

“Innovations, Successes and Failures,” 14<sup>th</sup> Annual Neurosurgery Research Symposium,” Washington University in St. Louis, St. Louis, MO, February 15, 2020.

“Approaches to Deep Brain Cavernous Malformations,” (virtual) Grand Rounds, Charité Universitätsmedizin Berlin, Berlin, Germany, April 28, 2020.

“State of the Art-Cerebral Aneurysms” (virtual), Brazilian Society of Neurosurgery, Belo Horizonte, Brazil, April 30, 2020.

“Skull Base Tumors” featured speaker (virtual), Global Brain Tumor Symposium, University of Miami, Miami, FL, May 6, 2020.

“Microsurgery for Posterior Circulation Aneurysms” (virtual) Cerebrovascular and Skull Base Surgery, University of Miami, Miami, FL, May 21, 2020.

“Why Microsurgery of Aneurysms Should Continue” (virtual) International Neurosurgery Update Master Symposium, Mumbai, India, June 12, 2020.

“My Journey Through Neurosurgery” (virtual), Grand Rounds/Graduation speaker, Rutgers University, New Jersey, NY, June 25, 2020.

“Microsurgical Management of Deep Seated Cavernous Malformations,” (virtual) The Neurosurgery Atlas Virtual OR, July 6, 2020.

“Why Clipping of Brain Aneurysms Should Continue: Difficult Case Presentations,” (virtual) Educational Aneurysm Course, Egyptian Society of Neurosurgery, July 31, 2020.

“Treatment of Deep Cavernous Malformations,” (virtual) Educational Aneurysm Course, Egyptian Society of Neurosurgery, July 31, 2020.

Honored Guest Lecture: “Management of deep-seated cavernous malformations”, (virtual) Japanese Congress of Neurological Surgeons, August 9, 2020.

Lunch Seminar: “What true leaders need: Words for the next generation of neurosurgeons,” (virtual) Japanese Congress of Neurological Surgeons, August 10, 2020.

Visiting Professor Interview: “Philosophy on medical education, mentorship, neurosurgical standards, diversity in neurosurgery,” (virtual) Dr. Javed Siddiqi, Desert Regional Medical Center, Palm Springs, CA, August 26, 2020.

Interview: “Career and Decisions made of the Years,” (virtual) Dr. David Langer, Leenox Hill Neurovascular Webinar, New York, NY, August 26, 2020.

Podcast: “Interview with the Surgeon,” (virtual) SurgeonAgent, Michael Vuckovich, August 31, 2020.

Webinar: “The Making of a Neurosurgeon: A Fireside Chat,” Neurosurgical Atlas Virtual OR series, Aaron Cohen-Gadol, MD, September 7, 2020.

“How Do We Pass on Experience in Neurosurgery?” (virtual) WFNS Global Neurosurgery: Ask Not for Whom the Bell Tolls, Rutgers University, September 10, 2020.

Webinar: “Management of Deep Seated Cavernous Malformations,” Moroccan Society of Neurosurgery, September 24, 2020.

### **Presented in 2019:**

“Supracerebellar-Operative Nuances,” 2019 Spetzler Skull Base Course, Phoenix, AZ, January 11, 2019.

“Microsurgical resection of symptomatic AVMs,” International Neurovascular Course 2019, Athens, Greece, March 29, 2019.

“Microsurgical excision of ventricular/periventricular AVMs,” International Neurovascular Course 2019, Athens, Greece, March 29, 2019.

“Microsurgical excision of deep seated AVMs,” International Neurovascular Course 2019, Athens, Greece, March 29, 2019.

“Microsurgical excision of brainstem AVMs,” International Neurovascular Course 2019, Athens, Greece, March 29, 2019.

“Microsurgical excision of pediatric AVMs,” International Neurovascular Course 2019, Athens, Greece, March 29, 2019.

Debate – “Microsurgical vs. endovascular treatment of cranial dural AVFs,” International Neurovascular Course 2019, Athens, Greece, March 30, 2019.

3D Surgical Video Presentation – “Deep AVMs,” International Neurovascular Course 2019, Athens, Greece, March 30, 2019.

3D Surgical Video Presentation – “Spinal dural AVFs,” International Neurovascular Course 2019, Athens, Greece, March 30, 2019.

“Brainstem cavernomas: How should we operate,” pre-AANS Evandro de Oliveira Symposium, San Diego, CA, April 12, 2019.

“Personal evolution in trans-petrosal skull base surgery,” 2<sup>nd</sup> Annual Congress of Lateral Skull Base Surgery: Temporal Bone Course, Phoenix, AZ, May 10, 2019.

“Bypass case review,” Microvascular Bypass Workshop, Phoenix, AZ, May 14, 2019.

“Surgical management of posterior fossa AVMs,” Barrow Symposium, Phoenix, AZ, May 17, 2019.

“Cranial Approaches: Spetzler Pearls,” Cambridge Lectures in Neurosurgical Anatomy, Cambridge, UK, September 7, 2019.

“Aneurysm Surgery: The Role of Surgery in the Endovascular Era,” Cambridge Lectures in Neurosurgical Anatomy, Cambridge, UK, September 7, 2019.

“Cavernomas,” Cambridge Lectures in Neurosurgical Anatomy, Cambridge, UK, September 8, 2019.

“AVMs: The Spetzler Experience,” Cambridge Lectures in Neurosurgical Anatomy, Cambridge, UK, September 8, 2019.

“Operative 3D Videos and Case Discussions,” Cambridge Lectures in Neurosurgical Anatomy, Cambridge, UK, September 8, 2019.

Co-Moderator – “Peer Reviewed Abstract Session 4: Vascular Science,” American Academy of Neurological Surgery, Rome, Italy, September 19, 2019.

“Microsurgical Management of Deep Seated and Posterior Fossa Cavernous Malformations: Personal Perspective,” Bosphorus Advanced Neurosurgery International Symposium, Istanbul, Turkey, September 23, 2019.

“Surgical Treatment of Giant Aneurysms and Bypass Strategies (3D),” Bosphorus Advanced Neurosurgery International Symposium, Istanbul, Turkey, September 23, 2019.

“Surgical Treatment of Deep Seated and Posterior Fossa AVMs (3D),” Bosphorus Advanced Neurosurgery International Symposium, Istanbul, Turkey, September 24, 2019.

“Surgical Treatment of Spinal AVMs (3D),” Bosphorus Advanced Neurosurgery International Symposium, Istanbul, Turkey, September 24, 2019.

Panel Discussant – “What I Wish I Knew: Reflections,” Brigham and Women’s Hospital Cerebrovascular and Skull Base Symposium, Boston, MA, October 5, 2019.

Keynote Address – Brigham and Women’s Hospital Cerebrovascular and Skull Base Symposium, Boston, MA, October 5, 2019.

Mentor Panel Discussant – “Mistakes,” Brigham and Women’s Hospital Cerebrovascular and Skull Base Symposium, Boston, MA, October 5, 2019.

“My Journey in Neurosurgery,” Western Neurosurgical Society, Scottsdale, AZ, November 10, 2019.

“Management of Brainstem Cavernous Malformations,” Visiting Professor, University of Virginia, Charlottesville, VA, November 23, 2019.

“Spinal Vascular Lesions and Virtual Interactive Atlas,” Neurosurgery Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, December 6, 2019.

**Presented in 2018:**

“The surgeon’s perspective,” AANS/CNS Joint Cerebrovascular Section Meeting, Los Angeles, CA, January 23, 2018.

“A live in neurosurgery,” The Neurosurgical Convention, Gramado, Brazil, April 13, 2018.

“Current management of intracranial aneurysms-The Findings of BRAT III,” The Neurosurgical Convention, Gramado, Brazil, April 13, 2018.

“Brainstem cavernous angiomas,” The Neurosurgical Convention, Gramado, Brazil, April 13, 2018.

“Post ARUBA era: Current management of brain and spinal cord AVMs,” The Neurosurgical Convention, Gramado, Brazil, April 13, 2018.

“3D neurosurgery update,” Jakarta, Indonesia, May 26, 2018.

“Management of deep seated cavernous malformations,” 27<sup>th</sup> Annual Dr. George A. Cohen Memorial Lectureship, Buffalo, NY, June 21, 2018.

“My personal neurosurgical journey,” 27<sup>th</sup> Annual Dr. George A. Cohen Memorial Lectureship, Buffalo, NY, June 21, 2018.

“Management of vascular malformations,” 2018 Edgar A. Kahn Visiting Professor, Ann Arbor, MI, August 23, 2018.

“Cavernous malformations: What they have taught us,” 2018 Edgar A. Kahn Visiting Professor, Ann Arbor, MI, August 23, 2018.

“Spinal AVM classification,” Neurosurgery Week in Prague, Czech Republic, August 30, 2018.

“Ten-year analysis of saccular aneurysms in the Barrow Ruptured Aneurysm Trial,” 2018 Edgar A. Kahn Visiting Professor, Ann Arbor, MI, August 23, 2018.

“BRAT-ten year results,” Advance Concepts and New Technologies Applied in Neurosurgery: 50<sup>th</sup> Anniversary of Neurosurgery in Novara, Italy, September 25, 2018.

“Technical steps of cerebral revascularization,” Advance Concepts and New Technologies Applied in Neurosurgery: 50<sup>th</sup> Anniversary of Neurosurgery in Novara, Italy, September 25, 2018.

“AVM Management after ARUBA,” Advance Concepts and New Technologies Applied in Neurosurgery: 50<sup>th</sup> Anniversary of Neurosurgery in Novara, Italy, September 25, 2018.

“Approaches to deep seated cavernous malformations,” Advance Concepts and New

Technologies Applied in Neurosurgery: 50<sup>th</sup> Anniversary of Neurosurgery in Novara, Italy, September 25, 2018.

“Management of spinal cord vascular lesions,” Advance Concepts and New Technologies Applied in Neurosurgery: 50<sup>th</sup> Anniversary of Neurosurgery in Novara, Italy, September 25, 2018.

“Pushing the boundaries of cerebrovascular surgery,” Visiting Professor, Zurich, Switzerland, September 27, 2018.

“Spinal cord AVMs: Lessons from a lifetime of surgical experience,” 4<sup>th</sup> World Congress on AVM, Montreal, Canada, October 15, 2018.

“A review of major advances in cerebrovascular care and a look forward,” Advancing Innovation and Outcomes in Neurosciences IV: The Future of Cerebrovascular Care, Charlotte, NC, October 19, 2018.

“Current management of cavernomas,” EANS 2018, Brussels, Belgium, October 22, 2018.

“Final ten-year analysis of saccular aneurysms in the Barrow Ruptured Aneurysm Trial (BRAT),” American Academy of Neurological Surgery, Palm Beach, FL, October 25, 2018.

“Management of spinal vascular lesions,” Grand Rounds, University of California, Orange, CA, November 2, 2018.

“Management of deep seated cavernous malformations,” 2<sup>nd</sup> Annual John A. Kusske Lecture, University of California, Irvine, CA, November 2, 2018.

“Cerebrovascular surgery: Current status and future directions,” UC Irvine Comprehensive Stroke and Neurocritical Care Symposium: Innovations in Stroke Care, Irvine, CA, November 3, 2018.

“Skull base surgery,” Course Co-Director, Resident Skull Base Dissection Course, Xi’an City, China, November 16, 2018.

“Pushing beyond boundaries: A personal journey in neurosurgery,” Farthing Lecture, Baptist Health, Jacksonville, FL, December 6, 2018.

“Approaches to deep seated cavernous malformations,” Keynote Address, Huashan International NeuroCongress, Shanghai, China, December 14, 2018.

“Endovascular and microsurgical management of AVMs,” Huashan International NeuroCongress, Shanghai, China, December 14, 2018.

#### **Presented in 2017:**

“Management of deep seated cavernous malformations,” Keynote Address-Captial Institute of Neurosciences Stroke and Cerebrovascular Care 2017, Atlantic City, NY, March 3, 2017.

“Management of deep seated cavernous malformations,” *Gurdjian-Thomas Visiting Professor*, Wayne State University, Detroit, MI, March 21, 2017.

“Spinal cord vascular lesion: Nomenclature and management,” Grand Rounds, Wayne State University, Detroit, MI, March 22, 2017.

“Vascular lesions and tumors at the CV junction,” *Spetzler Symposium: State of the Art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery-A Scientific Tribute and Global Celebration*. Los Angeles, CA, April 20, 2017.

“My evolution in managing lesions straddling the temporal bone and the CV junction,” *Spetzler Symposium: State of the Art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery-A Scientific Tribute and Global Celebration*. Los Angeles, CA, April 20, 2017.

“Aneurysm clipping and bypass strategies-3D video presentation,” *Spetzler Symposium: State of the Art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery-A Scientific Tribute and Global Celebration*. Los Angeles, CA, April 21, 2017.

“Spinal cord vascular lesions: What we have learned,” *Spetzler Symposium: State of the Art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery-A Scientific Tribute and Global Celebration*. Los Angeles, CA, April 21, 2017.

“Brain AVMs: Conceptual and technical advances in classification and management,” *Spetzler Symposium: State of the Art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery-A Scientific Tribute and Global Celebration*. Los Angeles, CA, April 21, 2017.

“Is aneurysm clipping still relevant,” WFNS 16<sup>th</sup> World Congress, Istanbul, Turkey, August 22, 2017.

“AVM management after ARUBA,” WFNS 16<sup>th</sup> World Congress, Istanbul, Turkey, August 22, 2017.

“Approaches to deep seated cavernous malformations,” WFNS 16<sup>th</sup> World Congress, Istanbul, Turkey, August 22, 2017.

“Aneurysm clipping and bypass strategies,” Visiting Professor, Medical University, Innsbruck, Austria, September 10, 2017.

“Spinal cord vascular lesions,” Visiting Professor, Medical University, Innsbruck, Austria, September 10, 2017.

“Management of brain AVMs,” Visiting Professor, Medical University, Innsbruck, Austria, September 10, 2017.

“Management of deep cavernous malformations,” Visiting Professor, Medical University, Innsbruck, Austria, September 10, 2017.

“A neurosurgeon’s spice of life,” Visiting Professor, Medical University, Innsbruck, Austria,

September 10, 2017.

“3D case presentations,” Visiting Professor, Medical University, Innsbruck, Austria, September 11, 2017.

“Ten-year results of BRAT,” EANS 2017, Venice, Italy, October 2, 2017.

“Ten-year results of BRAT,” The 2017 Roberto Heros Miami Symposium: A Global Tribute to a 40-Year Neurosurgical Education Odyssey, Miami, FL, October 21, 2017.

“Management of spinal cord vascular lesions,” The 2017 Roberto Heros Miami Symposium: A Global Tribute to a 40-Year Neurosurgical Education Odyssey, Miami, FL, October 22, 2017.

“Management of deep seated cavernous malformations,” 8<sup>th</sup> Congress of World Chinese Neurosurgical Society, Taipei, Taiwan, December 2, 2017.

### **Presented in 2016:**

“History of the treatment of vascular malformations of the brain,” *Buchsbaum Lecture*, University of Arizona, COM, Tucson, AZ, January 8, 2016.

“Justifying the need for another randomized aneurysm trial,” AANS/CNS Joint Cerebrovascular Section meeting, Los Angeles, CA, February 16, 2016.

“Panelist-complications: Our worst case scenarios,” AANS/CNS Joint Cerebrovascular Section meeting, Los Angeles, CA, February 16, 2016.

“AVM management after ARUBA,” *Charles G. Drake Oration*, 12<sup>th</sup> International Conference of Cerebrovascular Surgery & 1<sup>st</sup> Interim Meeting of Asian Australasian Society of Neurological Surgeons, Mumbai, India, February 26, 2016.

“The evolution of retractorless surgery,” 12<sup>th</sup> International Conference of Cerebrovascular Surgery & 1<sup>st</sup> Interim Meeting of Asian Australasian Society of Neurological Surgeons, Mumbai, India, February 26, 2016.

“Rationale for clipping of aneurysms,” joint meeting of 12<sup>th</sup> International Conference of Cerebrovascular Surgery & 1<sup>st</sup> Interim Meeting of Asian Australasian Society of Neurological Surgeons, Mumbai, India, February 27, 2016.

“Management of spinal AVMs,” joint meeting of 12<sup>th</sup> International Conference of Cerebrovascular Surgery & 1<sup>st</sup> Interim Meeting of Asian Australasian Society of Neurological Surgeons, Mumbai, India, February 27, 2016.

“Surgical management of difficult cavernous malformations,” joint meeting of 12<sup>th</sup> International Conference of Cerebrovascular Surgery & 1<sup>st</sup> Interim Meeting of Asian Australasian Society of Neurological Surgeons, Mumbai, India, February 27, 2016.

“Management of lesions in and around the third ventricle,” Neurosurgery at Jackson Hole, Jackson Hole, WY, March 1, 2016.

Panelist-cavernous malformation-current controversies in management," American Association of Neurological Surgeons, Chicago, IL, May 2, 2016.

Debate – "Interpretation of BRAT results," American Association of Neurological Surgeons, Chicago, IL, May 2, 2016.

3D video presentation – "Operative nuances II: Complication avoidance," American Association of Neurological Surgeons, Chicago, IL, May 3, 2016.

"Aneurysm treatment after ISAT and BRAT," 67<sup>th</sup> Annual Meeting of the German Society of Neurosurgery & 1<sup>st</sup> Meeting with the Korean Neurosurgical Society, Frankfurt, Germany, June 13, 2016.

Faculty-practical course – "Advanced cerebrovascular surgery-2D and 3D Operative video based surgical and anatomical pearls," Congress of Neurological Surgeons, San Diego, CA, September 25, 2016.

"AVM treatment advances, adapting to ARUBA," Congress of Neurological Surgeons, San Diego, CA, September 25, 2016.

"Deep seated cavernous malformations," 4<sup>th</sup> Annual Patrick J. Kelly Lecture, University of New York, NY, October 6, 2016.

"Management of AVMs after ARUBA," 8<sup>th</sup> Conference on Neurovascular Pathologies, Granada, Spain, October 21, 2016.

"Management of spinal AVMs," 8<sup>th</sup> Conference on Neurovascular Pathologies, Granada, Spain, October 21, 2016.

"Management of complex cavernous malformations," 1<sup>st</sup> International Congress of Neurovascular Surgery & 24<sup>th</sup> Interim Meeting of the Neurosurgical Society of Iran, Mashhad, Iran, October 25, 2016.

"Management of complex aneurysms," 1<sup>st</sup> International Congress of Neurovascular Surgery & 24<sup>th</sup> Interim Meeting of the Neurosurgical Society of Iran, Mashhad, Iran, October 25, 2016.

"Management of spinal vascular malformations," 1<sup>st</sup> International Congress of Neurovascular Surgery & 24<sup>th</sup> Interim Meeting of the Neurosurgical Society of Iran, Mashhad, Iran, October 26, 2016.

### **Presented in 2015:**

"3D presentation of complex cranial cases," Innovations in Brain and Spine, St. David's Medical Center, Austin, TX, February 5, 2015.

"BRAT aneurysm type analysis," Neurosurgery at Jackson Hole, Jackson Hole, WY, March 3, 2015.

"Brat analyses by aneurysm type," Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, April 24, 2015.

Yaşargil Lecture – “Clipping vs. coiling: Let data decide,” AANS meeting, Washington, DC, May 4, 2015.

Operative Nuances I – “Tackling challenging cases-3D presentation,” AANS meeting, Washington, DC, May 4, 2015.

Operative Nuances II – “Complication avoidance-3D presentation,” AANS meeting, Washington, DC, May 5, 2015.

Panel Discussion – “Cavernous malformation: Current controversies in management,” AANS meeting, Washington, DC, May 6, 2015.

“3D case presentation,” 41<sup>st</sup> Annual Barrow Neurological Institute Neuroscience Symposium, Phoenix, AZ, May 15, 2015.

“Neurosurgical reflections,” Westchester Medical Center, White Plains, NY, May 28, 2015.

Samuel Kasoff Memorial Lecture – “Surgical management of brain stem lesions, Westchester Medical Center, White Plains, NY, May 29, 2015.

Masters Video Session – “Vascular lesions and what they have taught us,” 15<sup>th</sup> Interim WFNS meeting, Rome, Italy, September 9, 2015.

“The case for clipping anterior circulating aneurysms,” 15<sup>th</sup> Interim WFNS meeting, Rome, Italy, September 10, 2015.

Faculty, Luncheon Seminar Management of Unruptured AVMs in Children and Young Adults – “Surgical approaches, indications and nuances,” Congress of Neurological Surgeons meeting, New Orleans, LA, September 29, 2015.

Speaker, 3D Neurosurgery Session – “A Tribute to Yaşargil: Global microsurgery in 3-D,” Congress of Neurological Surgeons meeting, New Orleans, LA, September 29, 2015.

Comments, Special Topic – “AVM management of the ARUBA era: Looking back, going forward,” German/American Academy Meeting, Heidelberg, Germany, October 8, 2015.

“BRAT analyses by aneurysm type,” German/American Academy Meeting, Heidelberg, Germany, October 9, 2015.

“Complex vascular and tumor cases, lessons learned,” 3D Workshop Journey through the Skull Base: A Dissection Master Course, Benevento, Italy, October 10, 2015.

Lunch Seminar (Zeiss) – “Operative nuances for managing complex cranial cases: A 3D case presentation,” 3D Workshop and 74<sup>th</sup> Annual Meeting of the Japan Neurosurgical Society, Sapporo, Japan, October 14, 2015.

Special Lecture – “The evolution of retractorless surgery,” 3D Workshop and 74<sup>th</sup> Annual Meeting of the Japan Neurosurgical Society, Sapporo, Japan, October 14, 2015.

“OZ approach for tumors and vascular pathology,” Microneurosurgical and Endoscopic Approaches to the Skull Base, Barrow Neurological Institute, Phoenix, AZ, December 3,

2015.

“Surgery of the cavernous sinus, middle fossa and petrous bone,” Microneurosurgical and Endoscopic Approaches to the Skull Base, Barrow Neurological Institute, Phoenix, AZ, December 4, 2015.

“Transtemporal bone approaches to tumors and vascular pathology,” Microneurosurgical and Endoscopic Approaches to the Skull Base, Barrow Neurological Institute, Phoenix, AZ, December 4, 2015.

“Applications of the retrosigmoid approach to tumors and vascular pathology,” Microneurosurgical and Endoscopic Approaches to the Skull Base, Barrow Neurological Institute, Phoenix, AZ, December 5, 2015.

#### **Presented in 2014:**

“Approaches to the brainstem and third ventricle,” ANZUS Neurosurgery Meeting, Auckland, New Zealand, February 5, 2014.

“Bow Hunter Syndrome,” Neurosurgery at Jackson Hole, Jackson Hole, WY, March 2, 2014.

“Traversing the brainstem and third ventricle,” Keller Lecture, Part 1, Cincinnati, OH, March 19, 2014.

“Traversing the brainstem and third ventricle,” Keller Lecture, Part 2, Cincinnati, OH, March 19, 2014.

“Approaches to deep structures in the brain,” 6<sup>th</sup> WFNS Rabat Reference Center-Mohammed V University for African Neurosurgeons, Rabat, Morocco, March 29, 2014.

“Management of spinal cord tumors,” 6<sup>th</sup> WFNS Rabat Reference Center-Mohammed V University for African Neurosurgeons, Rabat, Morocco, March 30, 2014.

Special 3D Session-Operative Nuances I – “Tackling challenging cases,” AANS, San Francisco, CA, April 7, 2014.

Panelist: Breakfast Session-Cavernous Malformations – “Current controversies in management,” AANS, San Francisco, CA, April 8, 2014.

Special 3D Session-Operative Nuances II – “Complication avoidance,” AANS, San Francisco, CA, April 8, 2014.

Plenary Session – “Barrow Ruptured Aneurysm Trial: Six-year results,” AANS, San Francisco, CA, April 9, 2014.

“3D surgery,” The Future of Healthcare Management Conference, Barrow Neurological Institute, Phoenix, AZ, April 11, 2014.

“Microsurgery of intracranial aneurysms... Is it past,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 25, 2014.

“Defining excellence in cerebrovascular neurosurgery,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 25, 2014.

“State of the art management of brain AVMs,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 26, 2014.

“Neurosurgical approaches to the brainstem,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 26, 2014.

“Vertebral artery transposition: Indications, technique and results,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 27, 2014.

“Approaches to lesions in and around the third ventricle,” Brazilian Congress of Neurosurgical Approaches, Sao Paulo, Brazil, April 27, 2014.

“Best practice of AVMs,” 40<sup>th</sup> Barrow Neurosurgery Symposium, Phoenix, AZ, May 15, 2014.

“3D case presentations,” 40<sup>th</sup> Barrow Neurosurgery Symposium, Phoenix, AZ, May 16, 2014.

“Skull base approaches to the deep structures of the brain,” European Skull Base Meeting, Paris, France, June 26, 2014.

Hot Topics Debate – “Unruptured AVM: Treatment vs no treatment,” with Jacques Moret at Cerebrovascular Complications Conference, Jackson Hole, WY, June 29, 2014.

New Prospective Randomized Data on Clipping vs Coiling in SAH patients – “Barrow Ruptured Aneurysm Trial,” Society of Neurointerventional Surgery, Colorado Springs, CO, July 31, 2014.

“Approaches to the deep structures of the brain,” Ozarks Neurosurgery Education Clinic, Branson, MO, August 9, 2014.

“Training in neurosurgery: The evolution of retractorless surgery,” Department of Neurosurgery, St. George’s Hospital Medical School, London, England, September 22, 2014.

“AVM management after ARUBA,” 50<sup>th</sup> Anniversary of Austrian Society of Neurosurgery, Vienna, Austria, October 10, 2014.

“ARUBA and BRAT: The bad and the good,” World Academy of Neurological Surgery, Vienna, Austria, October 11, 2014.

“Cavernous malformations of the third ventricle region,” EANS/15<sup>th</sup> European Congress of Neurosurgery, Prague, Czech Republic, October 13, 2014.

“Deep and difficult cavernomas,” EANS/15<sup>th</sup> European Congress of Neurosurgery, Prague, Czech Republic, October 14, 2014.

“Spinal vascular lesions-classification,” EANS/15<sup>th</sup> European Congress of Neurosurgery,

Prague, Czech Republic, October 16, 2014.

“Is aneurysm clipping dead,” EANS/15<sup>th</sup> European Congress of Neurosurgery, Prague, Czech Republic, October 17, 2014.

Live Surgery Broadcast – Barrow Neurological Institute to CNS annual meeting, October 21, 2014.

“3D video session,” Neuro-Oncology Symposium, Barrow Neurological Institute, Phoenix, AZ, November 7, 2014.

“BRAT analysis by aneurysm type,” Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, November 21, 2014.

“The orbitozygomatic approach for tumors and vascular pathology,” Microsurgical and Endoscopic Approaches to the Skull Base: 3D Hands-On Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 11, 2014.

“3D anatomy of the Brain,” Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, December 12, 2014.

“Surgery of the cavernous sinus middle fossa and petrous bone,” Microsurgical and Endoscopic Approaches to the Skull Base: 3D Hands-On Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 12, 2014.

“Transtemporal bone approaches to tumors and vascular pathology,” Microsurgical and Endoscopic Approaches to the Skull Base: 3D Hands-On Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 12, 2014.

“Applications of the retrosigmoid approach to tumors and vascular pathology,” Microsurgical and Endoscopic Approaches to the Skull Base: 3D Hands-On Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 13, 2014.

### **Presented in 2013:**

*William Henry Hudson Lecture* – “The silent revolution: retractorless surgery,” Southern Neurosurgical Society Meeting, Sarasota, FL, February 23, 2013.

“Management of periventricular lesions,” Neurosurgery at Jackson Hole, Jackson Hole, WY, March 5, 2013.

“The quiet revolution: Retractorless surgery for complex vascular and skull base lesions,” 2013 Interurban Neurosurgical Meeting, Chicago, IL, March 8, 2013.

Panelist – “Cavernous malformation: Current controversies in management,” AANS Meeting, New Orleans, LA, April 29, 2013.

*Neurosurgical Face-Off, Clipping vs. Coiling*, AANS Meeting, New Orleans, LA, April 29, 2013.

“Nuances of cerebrovascular surgery: An interactive 3D video presentation,” AANS

Meeting, New Orleans, LA, April 30, 2013.

“Overview of EC-IC bypass,” Barrow EC-IC Bypass Course, Phoenix, AZ, May 14, 2013.

“Management of spinal vascular lesions,” Barrow Symposium, Phoenix, AZ, May 16, 2013.

“3D case presentations,” Barrow Symposium, Phoenix, AZ, May 17, 2013.

*Honored Guest Presentation* – “Lesions in and around the 3<sup>rd</sup> ventricle,” Georgia Neurosurgical Society Meeting, Sea Island, GA, May 25, 2013.

Panelist – “Management of complex vascular lesions,” Georgia Neurosurgical Society Meeting, Sea Island, GA, May 25, 2013.

*Honored Guest Presentation* – “AVM decision making,” Georgia Neurosurgical Society Meeting, Sea Island, GA, May 26, 2013.

“Is aneurysm surgery dead,” Paul Niemeyer Hospital Inauguration, Rio de Janeiro, Brazil, June 1, 2013.

“Brainstem cavernous malformations,” Paul Niemeyer Hospital Inauguration, Rio de Janeiro, Brazil, June 1, 2013.

“Management of arteriovenous malformations,” Paul Niemeyer Hospital Inauguration, Rio de Janeiro, Brazil, June 1, 2013.

“Techniques and current indications for EC-IC bypass,” Paul Niemeyer Hospital Inauguration, Rio de Janeiro, Brazil, June 1, 2013.

“Approaches to deep lesions in the brain,” Barrow Grand Rounds, Phoenix, AZ, June 21, 2013.

“Case Presentation,” Cerebrovascular Complications Conference, Jackson Hole, WY, June 27, 2013.

“3D video case presentations,” Barrow Grand Rounds, Phoenix, AZ, July 12, 2013.

“Management of brainstem and thalamic cavernous malformations,” 15<sup>th</sup> WFNS World Congress, Seoul, South Korea, September 9, 2013.

“3D Sessions on cerebrovascular surgery and tumors,” 15<sup>th</sup> WFNS World Congress, Seoul, South Korea, September 9, 2013.

Moderator – Breakfast Session Skull Base Techniques for Complex Vascular Lesions, 15<sup>th</sup> WFNS World Congress, Seoul, South Korea, September 12, 2013.

“3D session on microsurgical management of posterior fossa and brainstem lesions,” NeuroOncology Symposium, Barrow Neurological Institute, Phoenix, AZ, September 13, 2013.

“Microsurgical management of complex meningiomas,” NeuroOncology Symposium, Barrow Neurological Institute, Phoenix, AZ, September 13, 2013.

“Barrow Ruptured Aneurysm Trial: 6-year results,” American Academy of Neurological Surgery, Newport Beach, CA, September 26, 2013.

“In and around the third ventricle,” Visiting Professor, USC, Los Angeles, CA, September 27, 2013.

Keynote Address – “Where is cerebrovascular surgery going,” 90<sup>th</sup> Anniversary of Neurosurgery, University of Toronto, Canada, October 7, 2013.

Faculty – “3D Operative Neurosurgery I-Techniques to advance safety and efficacy in microsurgery,” Congress of Neurological Surgeons, San Francisco, CA, October 21, 2013.

Controversy Session – “Open vs. endovascular approach to aneurysms,” Congress of Neurological Surgeons, San Francisco, CA, October 23, 2013.

“Orbitozygomatic approach for tumors and vascular pathology,” Rhoton/Spetzler Course, Barrow Neurological Institute, Phoenix, AZ, December 5, 2013.

“Update on the Barrow Ruptured Aneurysm Trial,” Grand Rounds presentation, Barrow Neurological Institute, Phoenix, AZ, December 6, 2013.

“Surgery of the cavernous sinus, middle fossa and petrous bone,” Rhoton/Spetzler Course, Barrow Neurological Institute, Phoenix, AZ, December 6, 2013.

“Transtemporal bone approaches to tumors and vascular pathology,” Rhoton/Spetzler Course, Barrow Neurological Institute, Phoenix, AZ, December 6, 2013.

“Applications of the retrosigmoid approach to tumors and vascular pathology,” Rhoton/Spetzler Course, Barrow Neurological Institute, Phoenix, AZ, December 7, 2013.

### **Presented in 2012:**

“Surgical applications of the OZ approach: Aneurysms and skull base tumors,” Open and Endonasal Approaches to the Anterior Skull Base Workshop, Barrow Neurological Institute, Phoenix, AZ, February 24, 2012.

“Surgical approaches to the brainstem,” Texas Association of Neurological Surgeons, Houston, TX, March 2, 2012.

“Spinal AVM surgery,” Texas Association of Neurological Surgeons, Houston, TX, March 2, 2012.

“To clip or to coil: Has the question been answered?” Neurosurgery at Jackson Hole, Jackson Hole, WY, March 4, 2012.

“Surgical management of pediatric vascular lesions,” 16<sup>th</sup> Annual Children’s Neurosciences Conference, Scottsdale, AZ, March 9, 2012.

“Conclusions, legacy on training and future,” American Association of Neurological Surgeons (AANS) meeting, Miami, FL, April 14, 2012.

“Surgical management of deep cavernous malformations,” FLANC-AANS Special Symposium, AANS meeting, Miami, FL, April 14, 2012.

“Using stereoscopic 3D video recording in neurosurgery practice and education,” Panel discussion, AANS meeting, Miami, FL, April 17, 2012.

“Operative nuances for managing complex cranial cases: A 3D video presentation,” AANS meeting, Miami, FL, April 17, 2012.

“The Barrow Ruptured Aneurysm Trial: Three-year results,” AANS meeting, Miami, FL, April 17, 2012.

“Cavernous malformation: Current controversies in management,” Panel discussion, AANS meeting, Miami, FL, April 18, 2012.

“Microsurgical BRAT interpretation,” 38<sup>th</sup> Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, May 17, 2012.

“Surgical management of deep cavernous malformations,” Keegan Lecture, University of Omaha, NE, June 8, 2012.

“Retractorless surgery,” Midwest Neurosurgery Society, Omaha, NE, June 9, 2012.

“When might surgical treatment be justified for complex and deep seated AVMs,” 1<sup>st</sup> International AVM Congress, Edinburgh, Scotland, September 18, 2012.

Panelist – “AVM controversies in management 2,” 1<sup>st</sup> International AVM Congress, Edinburgh, Scotland, September 19, 2012.

“Challenges for the surgeon presented by spinal vascular lesions,” 1<sup>st</sup> International AVM Congress, Edinburgh, Scotland, September 19, 2012.

“Perioperative and preoperative adjuncts to surgery,” 1<sup>st</sup> International AVM Congress, Edinburgh, Scotland, September 19, 2012.

“What have we learned from our colleagues – “Neurosurgery,” 1<sup>st</sup> International AVM Congress, Edinburgh, Scotland, September 19, 2012.

“Skull base tumors and brainstem cavernous surgery,” Update in Neurosurgery: The BNI Experience, Novara, Italy, September 21, 2012.

“Aneurysm and AVM management,” Update in Neurosurgery: The BNI Experience, Novara, Italy, September 21, 2012.

*Sir Geoffrey Jefferson Memorial Lecture* – “Saving intracranial aneurysm clips for the medical museum?” Society of British Neurological Surgeons, Leeds, UK, September 26, 2012.

*William E. Hunt Lecture* – “Evolution of retractorless surgery,” Ohio State University Medical Center, Columbus, OH, September 28, 2012.

Faculty-3-D Operative Session – “The art of microsurgery: Lessons learned,” Congress of Neurological Surgeons, Chicago, IL, October 8, 2012.

Faculty – “Multimodal management of intracranial AVMs,” Congress of Neurological Surgeons, Chicago, IL, October 9, 2012.

Faculty – “Operative neurosurgery: Management of desperate intraoperative moments,” Congress of Neurological Surgeons, Chicago, IL, October 9, 2012.

“Update on Barrow Ruptured Aneurysm Trial,” World Academy of Neurological Surgeons, Phoenix, AZ, October 12, 2012.

Point-Counterpoint – “When is endovascular therapy appropriate in aneurysm treatment,” American Academy of Neurological Surgeons, Cape Cod, MA, October 18, 2012.

“Management of deep-seated AVMs,” The Jinling International Neurosurgery Summit, Nanjing, China, November 19, 2012.

“Aneurysm management,” The Jinling International Neurosurgery Summit, Nanjing, China, November 19, 2012.

“Brainstem cavernous malformations,” The Jinling International Neurosurgery Summit, Nanjing, China, November 19, 2012.

“Intramedullary spinal cord tumors,” The Jinling International Neurosurgery Summit, Nanjing, China, November 19, 2012.

3-D Sessions – “Aneurysms, tumors, cavernous malformations,” The Jinling International Neurosurgery Summit, Nanjing, China, November 19, 2012.

“Giant aneurysms-what is possible, what is feasible,” Controversies in Neurosurgery, Melbourne, Australia, November 23, 2012.

“The challenges of clipping after coiling,” Controversies in Neurosurgery, Melbourne, Australia, November 23, 2012.

Session – “My greatest disaster,” Controversies in Neurosurgery, Melbourne, Australia, November 23, 2012.

### **Presented in 2011:**

“Skull base jeopardy,” 21<sup>st</sup> North American Skull Base Society Meeting, Scottsdale, AZ, February 19, 2011.

“Challenging cases-what approach?” Neurosurgery at Jackson Hole, Jackson Hole, WY, February 27, 2011.

“Accessing the inaccessible in brain surgery,” 37<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 10, 2011.

“Bypass and the microvascular reconstruction in aneurysm surgery,” 37<sup>th</sup> Annual Barrow

Symposium, EC-IC Course, Phoenix, AZ, March 10, 2011.

“Bypass and microvascular reconstruction,” 37<sup>th</sup> Annual Barrow Symposium, EC-EC Course, Phoenix, AZ, March 11, 2011.

“Management of AVMs,” Neurosurgery Meeting, Guadalajara, Mexico, April 1-2, 2011.

“The future of aneurysm surgery,” AANS Meeting, Denver, CO, April 9, 2011.

“Treatment of carotid occlusion in the US: Where do we go after COSS?” AANS Meeting, Denver, CO, April 9, 2011.

“Brain AVMs: WHEN NOT to operate,” AANS Meeting, Denver, CO, April 9, 2011.

Rhoton Family Lecture – “The quiet revolution: Retractorless surgery,” AANS Meeting, Denver, CO, April 11, 2011.

Sugita Symposium – “Treatment of complex intracranial vascular lesions,” AANS Meeting, Denver, CO, April 11, 2011.

“Three-year follow up results of BRAT,” AANS Meeting, Denver, CO, April 13, 2011.

“Vascular lesions and tumors of the foramen magnum and craniovertebral junction,” Surgical Treatment of the Craniocervical Junction Course, Cleveland, OH, May 11, 2011.

“Cerebral dural arteriovenous fistulae: Classification and management,” WFNS Interim Meeting, Recife, Brazil, September 14, 2011.

“Aneurysm clipping: A surgeon’s perspective,” Grand Rounds presentation, Barrow Neurological Institute, Phoenix, Arizona, October 7, 2011.

“Multimodality treatment of conus medullaries AVMs: Two Decades of Experience with Combined Endovascular and Microsurgical Treatment,” American Academy of Neurological Surgeons meeting, Scottsdale, Arizona, October 21, 2011.

“The Neuroscience Institute: A model for academic excellence,” Keynote Presentation, Neuroscience Business Summit: Positioning for Future Success, Barrow Neurological Institute, Phoenix, Arizona, October 27, 2011.

“A vascular surgeon’s approach to posterior fossa tumors,” Barrow’s 1<sup>st</sup> Annual Neuro-Oncology Symposium, Scottsdale, Arizona, November 3, 2011.

“Microsurgical treatment of parasellar lesions,” Barrow’s 1<sup>st</sup> Annual Neuro-Oncology Symposium, Scottsdale, Arizona, November 4, 2011.

“Microsurgical management of complex meningiomas,” Barrow’s 1<sup>st</sup> Annual Neuro-Oncology Symposium, Scottsdale, Arizona, November 5, 2011.

“Historical perspective and modern day treatment of complex cerebrovascular lesions,” 2011 Barrow Nursing Symposium, Phoenix, Arizona, November 9, 2011.

“The orbitozygomatic approach for tumors and vascular pathology,” Microsurgical and

Endoscopic Approaches to the Skull Base Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 17, 2011.

“Surgery of the cavernous sinus, middle fossa and petrous bone,” Microsurgical and Endoscopic Approaches to the Skull Base Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 18, 2011.

“Transtemporal bone approaches to tumors and vascular pathology,” Microsurgical and Endoscopic Approaches to the Skull Base Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 18, 2011.

“Applications of the retrosigmoid approach to tumors and vascular pathology,” Microsurgical and Endoscopic Approaches to the Skull Base Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 19, 2011.

“Intramedullary spinal AVM management advances,” WANS meeting, Taipei, Taiwan, November 30, 2011.

“The evolution of retractorless neurosurgery,” AACNS meeting, Taipei, Taiwan, December 1, 2011.

“The evolution of retractorless surgery,” Kluver Memorial Lecture, University of Chicago, Chicago, Illinois, December 7, 2011.

#### **Presented in 2010:**

“Approach for deep cavernous malformations,” Symposium in Honor of Dr. Ronald Apfelbaum’s Retirement, University of Utah, Salt Lake City, UT, January 29, 2010.

“A patient, a brain tumor and a lawsuit,” Medical Liability and Health Care Law Conference, Phoenix, AZ, February 11, 2010.

“Foramen magnum tumors,” Surgical Treatment of the Craniocervical Junction-A Course for 5<sup>th</sup> and 6<sup>th</sup> Year Neurosurgery Residents and Fellows. Barrow Neurological Institute, Phoenix, AZ, February 15, 2010.

“Confocal update and challenging cases,” Neurosurgery at Jackson Hole, Jackson Hole, WY, March 2, 2010.

“Getting there: Are there inaccessible areas in the brain”? 36<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 11, 2010.

“Current AVM management,” 36<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 12, 2010.

“Bypass and microvascular reconstruction in aneurysm surgery,” EC-IC Bypass Workshop, 36<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 12, 2010.

“Defining excellence in vascular neurosurgery,” Barrow Neurology/Neurosurgery Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, April 23, 2010.

Panelist – “Cavernous malformations: Current controversies in management,” AANS meeting, Philadelphia, PA, May 3, 2010.

Discussant – “Emergency EC-IC bypass for acute ischemic stroke,” AANS meeting, Philadelphia, PA, May 3, 2010.

“State of the art surgical anatomy, nuances and complications avoidance with the experts,” Cerebrovascular Complications Conference, Jackson Hole, WY, July 12, 2010.

Moderator – “Session 5 AVM, AVF, CCF, tumors,” Cerebrovascular Complications Conference. Jackson Hole, WY, July 13, 2010.

“Case presentation,” Global Endovascular Complications Seminar. Jackson Hole, WY, August 24, 2010.

“Surgical management of PIAL AVM’s,” Live Interventional Neuroradiology Conference. Houston, TX, September 13, 2010.

“Surgical management of large and giant aneurysms,” Live Interventional Neuroradiology Conference. Houston, TX, September 13, 2010.

“Bypass surgery in ICAD,” Teleconference Presentation – Live Interventional Neuroradiology Conference. Houston, TX, September 14, 2010.

“Deep cavernous malformation: How we get there,” Raaf Lecture, Visiting Professor, Portland, OR, September 25, 2010.

“Defining excellence in vascular neurosurgery,” Visiting Professor, Portland, OR, September 25, 2010.

“Arteriovenous malformations: Classification to cure,” CNS, San Francisco, CA, October 18, 2010.

“Decision making for AVM treatment,” CNS, San Francisco, CA, October 18, 2010.

“Interhemispheric transcallosal transchoroidal approach to the third ventricle,” CNS, San Francisco, CA, October 18, 2010.

Visiting Professor, Charite Universitätsmedizin – interactive lectures and lab demonstrations. Berlin, Germany, October 27-October 29, 2010.

“Excellence in vascular surgery,” 59<sup>th</sup> National Congress of the Italian Neurosurgical Society/Join Meeting with NSI Neurological Society of India, Milan, Italy, October 30, 2010.

“BRAT and implications for aneurysm surgery,” American Academy of Neurological Surgery, Pebble Beach, CA, November 4, 2010.

“Management of cervical AVM’s,” American Academy of Neurological Surgery, Pebble Beach, CA, November 5, 2010.

“Surgical treatment of cerebral aneurysms,” Scientific Symposium, Houston, TX, November 13, 2010.

“Clinical application: Middle fossa and transpetrosal approaches,” Rhoten/Spetzler Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 3, 2010.

“Clinical application: Pineal and interhemispheric regions,” Rhoten/Spetzler Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 3, 2010.

“Clinical application: Retrosigmoid approach,” Rhoten/Spetzler Dissection Course, Barrow Neurological Institute, Phoenix, AZ, December 4, 2010.

### **Presented in 2009:**

“Surgical treatment aspect,” – Panel Discussion on Spinal Cord AVMs and Their Management. AANS/CNS Cerebrovascular Section Meeting, San Diego, CA, February 17, 2009.

“Surgical nuances in brainstem cavernous malformations,” – Point-Counter-Point Presentation on Cavernous Malformations. AANS/CNS Cerebrovascular Section Meeting, San Diego, CA, February 17, 2009.

“Surgical management of brainstem cavernous malformations,” 35<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 5, 2009.

“Management of intramedullary spinal cord tumors,” 35<sup>th</sup> Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ, March 6, 2009.

“Applications of the far lateral and infratentorial/supracerebellar approaches,” 35<sup>th</sup> Annual Barrow Symposium Workshop-Surgery of the Craniovertebral Junction, Barrow Neurological Institute, Phoenix, AZ, March 7, 2009.

“Management of complex aneurysms,” Video/Teleconference to National Institute of Neurology and Neurosurgery, Mexico City, Mexico, April 27, 2009.

“Asymptomatic AVMs,” Panel Discussion on Asymptomatic Vascular Lesions. AANS Meeting, San Diego, CA, May 4, 2009.

Discussant – “Cyberknife radiosurgery for intramedullary spinal AVMs,” presented by Robert L. Dodd, MD AANS Meeting, San Diego, CA, May 4, 2009.

Moderator and Panelist – “CO2 laser in neurosurgery,” OmniGuide Laser Workshop, San Diego, CA, May 4, 2009.

“Arteriovenous malformations-neurosurgical role and results,” Live Interventional Neuroradiology-Neurosurgery Course (LINNC), Paris, France, May 25, 2009.

“BRAT study,” Live Interventional Neuroradiology-Neurosurgery Course (LINNC), Paris, France, May 26, 2009.

Panel Discussion – “Giant aneurysms-role of neurosurgery, bypass & clip, vs. flow diverter

stents,” Live Interventional Neuroradiology-Neurosurgery Course (LINNC), Paris, France, May 27, 2009.

“Management of giant aneurysms,” II Moscow International Neurosurgical Forum, Burdenko Institute of Neurosurgery, Moscow, Russia, June 4, 2009.

“Image guidance for deep cavernous malformations,” II Moscow International Neurosurgical Forum, Burdenko Institute of Neurosurgery, Moscow, Russia, June 5, 2009.

“Surgical treatment of giant aneurysms: Surgical or combined approach?” Mexican Neurosurgery Congress, Cancun, Mexico, July 20, 2009.

Special Lecture – “Present and future of microsurgery for cerebral aneurysms,” Mexican Neurosurgery Congress, Cancun, Mexico, July 20, 2009.

Video Session – “AVM surgery-selected cases,” Mexican Neurosurgery Congress, Cancun, Mexico, July 20, 2009.

“What Aneurysms I consider for endovascular therapy or combined approach,” Mexican Neurosurgery Congress, Cancun, Mexico, July 20, 2009.

“BRAT study,” World Academy of Neurological Surgery (WANS), Boston, MA, August 29, 2009.

“Mini fronto orbito zygomatic approach to anterior circulation aneurysms,” World Federation of Neurological Societies (WFNS), Boston, MA, August 30, 2009.

“Surgical treatment of complex cerebral aneurysms,” World Federation of Neurological Societies (WFNS), Boston, MA, August 30, 2009.

Video Session – “Surgical management of aneurysms,” World Federation of Neurological Societies (WFNS), Boston, MA, August 31, 2009.

“How I do It,” World Federation of Neurological Societies (WFNS), Boston, MA, September 1, 2009.

“High flow and low flow bypass: How I do it,” Honored Guest, St. Louis Cerebrovascular Surgery Course, St. Louis, MO, September 26, 2009.

“Pterional and OZ approaches: Indications, variations and use of specific aneurysm locations,” Honored Guest, St. Louis Cerebrovascular Surgery Course, St. Louis, MO, September 26, 2009.

“Operative approaches and microsurgical management of basilar apex aneurysms,” Honored Guest, St. Louis Cerebrovascular Surgery Course, St. Louis, MO, September 26, 2009.

“Surgical management of brainstem cavernous malformations,” 2009 Skills in Neurosurgery Education for Neurosurgery Residents, Phoenix, AZ, October 2, 2009.

“Advances in surgical treatment of carotid artery disease,” 2009 Barrow Stroke Update, Phoenix, AZ, October 9, 2009.

“We do make a difference,” 2009 Barrow Nursing Symposium, Phoenix, AZ, October 21, 2009.

“Defining excellence in vascular neurosurgery,” Congress of Neurological Surgeons, New Orleans, LA, October 26, 2009.

“New advances in surgical bypass for complex aneurysms,” Videoconference, SIMI meeting, Buenos Aires, Argentina, November 2, 2009.

“In vivo confocal microscopy of brain tumors: A tool for real time neuropathology,” American Academy of Neurological Surgery, West Palm Beach, FL, November 5, 2009.

Video Seminar – “Technical advances in noninvasive imaging techniques,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 11, 2009.

“Technological development in cerebrovascular surgery,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 11, 2009.

Special Guest Lecture – “Microsurgical treatment of complex aneurysms with EC-IC and IC-IC bypass technique,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 12, 2009.

“Flow reversal and role of revascularization in vertebrobasilar aneurysm treatment,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 12, 2009.

Round Table Discussion – “Multimodal strategies for treatment of the unruptured AVM,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 12, 2009.

Special Guest Lecture – “Evolution of technical principles for the neurosurgery resident,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 13, 2009.

Video Seminar – “Perforator management and complication avoidance,” Honorary President, 9<sup>th</sup> International Conference on Cerebrovascular Surgery, Nagoya, Japan, November 13, 2009.

“Current and future management of cerebral aneurysms,” 2<sup>nd</sup> Golf Neurosurgical Society Congress, Muscat, Oman, December 15, 2009.

“Current status of skull base surgery and impact of minimally invasive neurosurgery,” 2<sup>nd</sup> Golf Neurosurgical Society Congress, Muscat, Oman, December 15, 2009.

“Neurosurgery – Education and research,” 2<sup>nd</sup> Golf Neurosurgical Society Congress, Muscat, Oman, December 16, 2009.

**Presented in 2008:**

Spetzler, RF: "Future of neurosurgery: Advances in skull base surgery," 7<sup>th</sup> Annual CyberKnife Users' Meeting, Scottsdale, AZ, January 24, 2008.

Spetzler, RF: "Skull base surgery at the BNI," Otolaryngology Updates, Phoenix, AZ, February 24, 2008.

Spetzler, RF: "The unusual case," Neurosurgery at Jackson Hole, Jackson Hole, WY, March 4, 2008.

Spetzler, RF: "Reaching the impossible locations in the deep structures of the brain," 34<sup>th</sup> Annual Barrow Symposium, Phoenix, AZ, March 13, 2008.

Spetzler, RF: Live Surgery Demonstration, 34<sup>th</sup> Annual Barrow Symposium, Phoenix, AZ, March 13, 2008.

Spetzler, RF: "Management of giant aneurysms," 34<sup>th</sup> Annual Barrow Symposium, Phoenix, AZ, March 14, 2008.

Spetzler, RF: "Bypass and microvascular reconstruction in aneurysm surgery," Extracranial & Intracranial Workshop during 34<sup>th</sup> Annual Barrow Symposium, Phoenix, AZ, March 15, 2008.

Spetzler, RF: "Hands-on practical course," World Federation of Neurological Societies (WFNS) Education Course, Goa Medical College, Goa, India, May 9, 2008.

Spetzler, RF: "Multidisciplinary management of brain AVMs," World Federation of Neurological Societies (WFNS) Education Course, Goa Medical College, Goa, India, May 10, 2008.

Spetzler, RF: "Tumor surgery," Medtronic National Sales Meeting. Camelback Inn, Scottsdale, AZ, June 4, 2008.

Spetzler, RF: "Management of brainstem cavernous malformations," Advances in Neurosciences, 2<sup>nd</sup> Annual Bay Area Symposium, Fremont, CA, June 21, 2008.

Spetzler, RF: "Surgical management of dural AVMs," Neurology/Neurosurgery Grand Rounds, Barrow Neurological Institute, Phoenix, AZ, June 27, 2008.

Spetzler, RF: "The evolution of an institute: The BNI experience," Presidential Address, Joint meeting of the American Academy of Neurological Surgery with the German Academy of Neurosurgery and the Germany Society of Neurosurgery, Sedona, AZ, September 12, 2008.

Spetzler, RF: "Surgical management of giant aneurysms," XXVII Brazilian Congress of Neurosurgery, Iguassu Falls, Brazil, September 16, 2008.

Spetzler, RF: "How to advance the art of neurosurgery," XXVII Brazilian Congress of Neurosurgery, Iguassu Falls, Brazil, September 16, 2008.

Spetzler, RF: "Management of AVMs," XXVII Brazilian Congress of Neurosurgery, Iguassu Falls, Brazil, September 16, 2008.

Spetzler, RF: "Management of intramedullary spinal cord tumors," XXVII Brazilian Congress of Neurosurgery, Iguassu Falls, Brazil, September 17, 2008.

Spetzler, RF: Moderator and Closing Remarks – "The great debate-unruptured aneurysm: Clip, coil or leave alone," World Academy of Neurological Societies (WANS), Iguassu Falls, Brazil, September 18, 2008.

Spetzler, RF: "Surgical management of brainstem cavernous malformations," DePuy Spine Course-Skills in Neurosurgery: Education for Neurosurgery Residents, Phoenix, AZ, October 3, 2008.

Spetzler, RF: "The history of the BNI," 2008 Barrow Nursing Symposium, Phoenix, AZ, October 8, 2008.

Spetzler, RF: "Surgical management of cerebral AVM's," LINC Course, Houston, TX, October 13, 2008.

Spetzler, RF: "Surgical management of intracranial dural AVF," LINC Course, Houston, TX, October 13, 2008.

Spetzler, RF: "Surgical management of complex aneurysms," LINC Course, Houston, TX, October 13, 2008.

Spetzler, RF: "How to collaborate with the surgical team for optimal resection and radiosurgery results," Onyx Panel Discussion, LINNC Course, TeleConference, Phoenix, AZ, October 15, 2008.

Spetzler, RF: "Management of cavernous malformations," Barrow Stroke Update, Phoenix, AZ, October 17, 2008.

Spetzler, RF: "Is cold the answer: Hypothermia for impossible cases," Clinical Symposia, Cedars Sinai Medical Center, Los Angeles, CA, October 21, 2008.

Spetzler, RF: "Vascular malformation of the spine," Clinical Symposia, Cedars Sinai Medical Center, Los Angeles, CA, October 22, 2008.

Spetzler, RF: "Surgical management of cerebral AVMs," Latin American Congress of Neurosurgery, Bogota, Colombia, October 27, 2008.

Spetzler, RF: "State of the art in surgical management-cerebral aneurysms," Latin American Congress of Neurosurgery, Bogota, Colombia, October 27, 2008.

Spetzler, RF: "State of the art in cerebral revascularization," Latin American Congress of Neurosurgery, Bogota, Colombia, October 27, 2008.

Spetzler, RF: Video Masters Sessions "Giant aneurysms" and "Brainstem Cavernous Malformations," Latin American Congress of Neurosurgery, Bogota, Colombia, October 28, 2008.

Spetzler, RF: "Management of complex aneurysms," 2<sup>nd</sup> American-Kuwaiti Neurosurgical Meeting, Kuwait, November 17, 2008.

Spetzler, RF: "Management of AVMs," 2<sup>nd</sup> American-Kuwaiti Neurosurgical Meeting, Kuwait, November 17, 2008.

Spetzler, RF: "Management of brainstem cavernous malformations," 2<sup>nd</sup> American-Kuwaiti Neurosurgical Meeting, Kuwait, November 17, 2008.

Spetzler, RF: "Management of foramen magnum tumors," 2<sup>nd</sup> American-Kuwaiti Neurosurgical Meeting, Kuwait, November 18, 2008.

Spetzler, RF: "Management of spinal cord tumors/vascular malformations," 2<sup>nd</sup> American-Kuwaiti Neurosurgical Meeting, Kuwait, November 19, 2008.

Spetzler, RF: "Surgical management of high-grade AVMs," Teleconference from Phoenix to University of Sao Paulo, Brazil, November 21, 2008.

Spetzler, RF: "Accessing the deep structures in the brain," Teleconference from Phoenix to University of Sao Paulo, Brazil, November 21, 2008.

Spetzler, RF: "CO<sub>2</sub> lasers in neurosurgery," Workshop on CO<sub>2</sub> Lasers in Neurosurgery: It's Back, Barrow Neurological Institute, Phoenix, AZ, December 13, 2008.

Spetzler, RF: "CO<sub>2</sub> laser neurosurgery-where to from here," Workshop on CO<sub>2</sub> Lasers in Neurosurgery: It's Back, Barrow Neurological Institute, Phoenix, AZ, December 13, 2008.

#### **Presented in 2007:**

Spetzler, RF: Live surgery demonstration, 33<sup>rd</sup> Annual Barrow Symposium, Phoenix, AZ, February 28, 2007.

Spetzler, RF: "Current management of spinal cord tumors," 33<sup>rd</sup> Annual Barrow Symposium, Phoenix, AZ, March 1, 2007.

Spetzler, RF: "Skull base surgery for tumors," 33<sup>rd</sup> Annual Barrow Symposium, Phoenix, AZ, March 2, 2007.

Spetzler, RF: "Management of pineal region lesions," Neurosurgery at Jackson Hole, Jackson Hole, WY, March 4, 2007.

Spetzler, RF (Discussant): "The rate of angiographic aneurysm recurrence and rebleeding following successful clipping of intracranial aneurysms," AANS, Washington, DC, April 16, 2007.

Spetzler, RF: "How I do it: Vascular Microsurgery," AANS, Washington, DC, April 18, 2007.

Spetzler, RF: "Advancing the art of vascular neurosurgery in the future," World Academy of Neurological Surgery (WANS), Second Biennial Congress, Verona, Italy, June 16, 2007.

Spetzler, RF (Panelist): "Aneurysm treatments: Case discussion with panelists," Live

International Neuroradiology and Neurosurgery Course (LINNC), Paris France, July 2, 2007.

Spetzler, RF: "Surgical and endovascular treatment strategies for brain AVMs: Pros, cons, consensus," Live International Neuroradiology and Neurosurgery Course (LINNC), Paris France, July 3, 2007.

Spetzler, RF: "Neurosurgical bypasses: ELANA technique vs. others: Pros, cons, consensus," Live International Neuroradiology and Neurosurgery Course (LINNC), Paris France, July 4, 2007.

Spetzler, RF: "Surgical management of pineal tumors," XIX Mexican Congress of Neurological Surgery, Mexico City, Mexico, July 9, 2007.

Spetzler, RF (Plenary Session): "Surgical treatment of spinal cord lesions," XIX Mexican Congress of Neurological Surgery, Mexico City, Mexico, July 9, 2007.

Spetzler, RF (Debate): "Aneurysms," XIX Mexican Congress of Neurological Surgery, Mexico City, Mexico, July 9, 2007.

Spetzler, RF: "Management of spinal cord tumors," Neurosurgery Update 2007 in the Wine Country. Silverado Resort and Golf Club, Napa Valley, CA, August 2, 2007.

Spetzler, RF: "Management of brainstem cavernous malformations," Neurosurgery Update 2007 in the Wine Country. Silverado Resort and Golf Club, Napa Valley, CA, August 24, 2007.

Spetzler, RF: "Operative techniques with the Masters: 3-D live cadaveric demonstration of surgical techniques," Congress of Neurological Surgeons, San Diego, CA, September 18, 2007.

Spetzler, RF: "Surgical anatomy of the upper basilar region/microsurgical clipping of a complex basilar tip aneurysm," Congress of Neurological Surgeons, San Diego, CA, September 18, 2007.

Spetzler, RF: "Digital Masters Video Symposium," Congress of Neurological Surgeons, San Diego, CA, September 19, 2007.

Spetzler, RF: "Lateral supracerebellar infratentorial approach for cavernous malformations," Congress of Neurological Surgeons, San Diego, CA, September 19, 2007.

Spetzler, RF: "Management of spinal cord tumors," 15<sup>th</sup> Robert Campbell Lecture, Indiana University, Indianapolis, IN, September 29, 2007.

Spetzler, RF: "Foramen magnum tumors," Craniocervical Course, Barrow Neurological Institute, Phoenix, AZ, October 11, 2007.

Spetzler, RF: "Surgical management and treatment options for aneurysms," Barrow Stroke Update, Barrow Neurological Institute, Phoenix, AZ, October 19, 2007.

Spetzler, RF: "Secondary stroke prevention," American Academy of Neurological Surgery,

Henderson, NV, November 11, 2007.

Spetzler, RF: "Approach to complex cavernous malformations," 47<sup>th</sup> Annual Meeting of the Korean Neurosurgical Society, Seoul, South Korea, November 16, 2007.

Spetzler, RF (topic leader): Cerebrovascular WFNS/AASNS Young Neurosurgeons Forum – Teleconference, Germany, Hong Kong, Qatar. 12<sup>th</sup> Asian-Australasian Society of Neurological Surgeons combined with the 13<sup>th</sup> World Federation of Neurosurgical Societies Interim Meeting, Nagoya, Japan, November 18, 2007.

### **Presented in 2006:**

Spetzler RF: Surgical management/history of cavernous malformations. Neuro-Update 2006 Loma Linda University School of Medicine, Ontario, CA February 15, 2006.

Spetzler (Honored Guest Presentation): Skull base approaches to vascular lesions. 17<sup>th</sup> Annual Meeting North American Skull Base Society, Pointe South Mountain Resort, Phoenix, AZ, February 18, 2006.

Spetzler RF: Transcochlear approach, cardiac standstill and clip ligation of giant mid-basilar segment aneurysm. 17<sup>th</sup> Annual Meeting North American Skull Base Society, Pointe South Mountain Resort, Phoenix, AZ, February 18, 2006.

Spetzler RF: Third nerve palsy-clip vs. coil. Neurosurgery at Jackson Hole, Jackson Hole, WY. Annual Conference of the Israel Neurosurgical Society, March 5, 2006.

Spetzler RF (keynote lecture): Management of complex aneurysms. Neurosurgery at Jackson Hole, Jackson Hole, WY. Annual Conference of the Israel Neurosurgical Society, March 9, 2006.

Spetzler RF (Panel): To coil or to clip. Neurosurgery at Jackson Hole, Jackson Hole, WY. Annual Conference of the Israel Neurosurgical Society, March 9, 2006.

Spetzler RF (Panel Discussion): Management of brainstem cavernomas. Neurosurgery at Jackson Hole, Jackson Hole, WY. Annual Conference of the Israel Neurosurgical Society, March 9, 2006.

Spetzler RF: Complication case presentation. Global Endovascular Complications Seminar, Jackson Hole, WY, August 29, 2006.

Spetzler RF: Complication case session (co-leader). Global Endovascular Complications Seminar, Jackson Hole, WY, August 30, 2006.

Spetzler RF: Current management of giant cerebral aneurysms. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 16, 2006.

Spetzler RF: Management of brain stem cavernomas. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 17, 2006.

Spetzler RF: Giant aneurysms of posterior circulation – Surgical treatment. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 17, 2006.

Spetzler RF: Management of foramen magnum tumors. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 17, 2006.

Spetzler RF: Spinal cord tumors – Current management. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 18, 2006.

Spetzler RF: Management of cerebral AVMs. XXVI Brazilian Congress of Neurosurgery, Convention Center CentroSul, Florianopolis, Santa Catarina, Brazil, September 18, 2006.

Spetzler RF (Moderator): Skull base approaches for brain stem cavernous malformations. 8<sup>th</sup> Asian-Oceanian International Skull Base Congress, Al-Bustan Rotana Hotel, Dubai, United Arab Emirates, November 2, 2006.

Spetzler RF: Far lateral approach for skull base lesions at the foramen magnum. 8<sup>th</sup> Asian-Oceanian International Skull Base Congress, Al-Bustan Rotana Hotel, Dubai, United Arab Emirates, November 3, 2006.

Spetzler RF: Choosing a skull base approach: An evolution. 8<sup>th</sup> Asian-Oceanian International Skull Base Congress, Al-Bustan Rotana Hotel, Dubai, United Arab Emirates, November 3, 2006.

Spetzler RF: Evolution of skull base surgery: A neurosurgery perspective. Italian Society of Skull Base Surgery, Milan, Italy, November 5, 2006.

Spetzler RF: Modern surgical treatment of cerebral aneurysms. 3<sup>rd</sup> Neurosurgical Meeting on Intracranial Aneurysms, Rome, Italy, November 7, 2006.

Spetzler RF: Cerebral revascularization. 3<sup>rd</sup> Neurosurgical Meeting on Intracranial Aneurysms, Rome, Italy, November 7, 2006.

Spetzler RF: Management of giant aneurysms (keynote lecture). Tian Tan Hospital, Beijing, China, November 8, 2006.

Spetzler RF: Management of brain stem cavernous malformations (keynote speaker). 2006 Conference of Asia Academic Neurosurgeons, Shanghai, China, November 11, 2006.

Spetzler RF: Giant aneurysms of the posterior circulation. WFNS Course and Annual Scientific Meeting of Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 21, 2006.

Spetzler RF: Multidisciplinary management of brain AVMs. WFNS Course and Annual Scientific Meeting of Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 21, 2006.

Spetzler RF: Brainstem cavernomas. WFNS Course and Annual Scientific Meeting of

Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 22, 2006.

Spetzler RF: Foramen magnum tumors. WFNS Course and Annual Scientific Meeting of Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 22, 2006.

Spetzler RF: Management of large arteriovenous malformations. WFNS Course and Annual Scientific Meeting of Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 22, 2006.

Spetzler RF: Management of spinal cord tumors. WFNS Course and Annual Scientific Meeting of Indonesian Society of Neurological Surgeons. The Westin Resort, Nusa Dua, Bali, November 23, 2006.

### **Presented in 2005:**

Spetzler RF: Current modalities in brain tumors. Radiation Therapy Oncology (RTOG) meeting, Sheraton Wild Horse Resort, Phoenix, January 21, 2005.

Spetzler RF (Visiting Professor): Management of giant aneurysms. University of Miami, Miami, Florida, January 27, 2005.

Spetzler RF (Visiting Professor: Management of brainstem cavernous malformations. University of Miami, Miami, Florida, January 27, 2005.

Spetzler RF: Preserving the eloquence of the brain. Neurocritical Care Society Meeting, Scottsdale Hilton, Scottsdale, AZ, February 25, 2005.

Spetzler RF: Choosing a skull base approach. BNI Skull Base Course, 31<sup>st</sup> Annual Barrow Symposium, Phoenix, AZ, March 1, 2005.

Spetzler RF: Management of arteriovenous malformations. 31<sup>st</sup> Annual Barrow Symposium, Phoenix, AZ, March 2, 2005.

Spetzler RF: Intramedullary spinal cord tumors. 31<sup>st</sup> Annual Barrow Symposium, Phoenix, AZ, March 3, 2005.

Spetzler RF: Management of ependymomas – What I've learned. Neurosurgery at Jackson Hole, Jackson Hole, WY, March 13-16, 2005.

Spetzler RF: Keynote address. DePuy Spine, Neurosurgery Residents Spine Education Summit, Sheraton Crescent, Phoenix, AZ, April 1, 2005.

Spetzler RF: Latest neurosurgical advances at Barrow. 2<sup>nd</sup> Annual Traumatic Brain Injury Symposium, Barrow Neurological Institute, Phoenix, AZ, April 5, 2005.

Spetzler RF: Dying to live: Hypothermic cardiac arrest in neurosurgery. University of Arizona, Tucson, April 5, 2005.

Spetzler RF (Panelist): Giant vertebrobasilar aneurysms. AANS, New Orleans, LA, April

18, 2005.

Spetzler RF (Discussant): Incident of vasospasm in aneurysmal subarachnoid hemorrhage: Surgical clipping vs. endovascular coiling (pager #746 by Michael Alexander), AANS, New Orleans, LA, April 18, 2005.

Spetzler RF (Panelist): Multidisciplinary management of cerebral AVMs, AANS, New Orleans, LA, April 20, 2005.

Spetzler RF (2005 George Tindall Visiting Professor): Management of brainstem cavernous malformations, Grand Rounds, Emory University, Atlanta, GA, May 6, 2005.

Spetzler RF (2005 George Tindall Visiting Professor): Management of giant and complex aneurysms, George Tindall Lecture, Emory University, Atlanta, GA, May 5, 2005.

Spetzler RF (Visiting Professor): Management of giant aneurysms. Calgary Health Region, Calgary, Alberta, Canada, May 12-13, 2005.

Spetzler RF (Visiting Professor): Terra incognita – Journey into the deep structures of the brain. The Royal College of Physicians and Surgeons of Canada, University of Calgary, May 12-13, 2005.

Spetzler RF: Management of brainstem cavernous malformations. 2005 Gardner Lecture Series, Cleveland Clinic Foundation, Cleveland, OH, June 1, 2005.

Spetzler RF: Management of spinal cord tumors. 2005 Gardner Lecture Series, Cleveland Clinic Foundation, Cleveland, OH, June 2, 2005.

Spetzler RF (Chair): Arteriovenous malformations: Microsurgery/Radiosurgery. 13<sup>th</sup> World Congress of Neurological Surgery, Kempinski Mansour Eddahbi Congress Palace, Marrakech, Morocco, June 21, 2005.

Spetzler RF (Chair): Management of cerebral AVM. 13<sup>th</sup> World Congress of Neurological Surgery, Kempinski Mansour Eddahbi Congress Palace, Marrakech, Morocco, June 22, 2005.

Spetzler RF (Plenary session): Terra incognita – Journey into the deep structures of the brain. 13<sup>th</sup> World Congress of Neurological Surgery, Kempinski Mansour Eddahbi Congress Palace, Marrakech, Morocco, June 23, 2005.

Spetzler RF (Guest Lecturer – Cohn Lecture): Management of brainstem cavernous malformations. 2005 George A. Cohn, MD Memorial Lecture, University of Buffalo, Buffalo General Hospital, Buffalo, New York, June 30, 2005.

Spetzler RF (Guest Lecturer – Informal Lecture): Management of giant aneurysms. 2005 George A. Cohn, MD Memorial Lecture, University of Buffalo, Buffalo General Hospital, Buffalo, New York, July 1, 2005.

Spetzler RF: Strategies for complex thrombosed aneurysms. 64<sup>th</sup> Annual Meeting of the Japan Neurosurgical Society, Yokohama, Japan, October 5, 2005.

Spetzler RF: Management of large AVMs. 64<sup>th</sup> Annual Meeting of the Japan Neurosurgical

Society, Yokohama, Japan, October 5, 2005.

Spetzler RF: Clipping and coiling: the sum is greater than its parts. 64<sup>th</sup> Annual Meeting of the Japan Neurosurgical Society, Yokohama, Japan, October 6, 2005.

Spetzler RF: Operative colloquium: Masters of neurological surgery. Congress of Neurological Surgeons, Boston, MA, October 9, 2005.

Spetzler RF: Surgery of giant aneurysms. Congress of Neurological Surgeons, Boston, MA, October 9, 2005.

Spetzler RF (moderator): Arteriovenous malformations: Multimodality management. Congress of Neurological Surgeons, Boston, MA, October 11, 2005.

Spetzler RF: Digital masters video symposium: Emergency repair of coil migration and vessel perforation. Congress of Neurological Surgeons, Boston, MA, October 11, 2005.

Spetzler RF: Clip vs. coil. 1<sup>st</sup> Annual J. Lawrence Pool Memorial Research Symposium, Controversies in the Management of Cerebral Aneurysms. Columbia University Medical Center, New York, NY, December 9, 2005.

#### **Presented in 2004:**

Spetzler RF (Visiting Professor): Management of brainstem cavernous malformations. Gainey Visiting Professor for Stroke and Related Diseases. Mayo Clinic, Rochester, MN, January 23-24, 2004.

Spetzler RF: Management of spinal vascular lesions. AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology Annual Meeting, Sheraton San Diego Hotel & Marina, San Diego, CA, February 4, 2004.

Spetzler RF (Guest of Honor): Skull base approaches: An example of interdisciplinary teamwork. The Western Section of The American Laryngological, Rhinological and Otolological Society - Scottsdale Hilton, January 30, 2014–February 1, 2014.

Spetzler RF: Choosing a skull base approach. BNI Skull Base Course, Phoenix, AZ, March 3, 2004.

Spetzler RF: Management of AVMs. Barrow Neurological Institute 30<sup>th</sup> Annual Symposia, Phoenix, Arizona, Breakthroughs in Neuroscience, March 4-6, 2004.

Spetzler RF: What's new in aneurysm microneurosurgery? Barrow Neurological Institute 30<sup>th</sup> Annual Symposia, Phoenix, Arizona, Breakthroughs in Neuroscience, March 4-6, 2004.

Spetzler RF: Neurosurgical management of subarachnoid hemorrhage. Barrow Neurological Institute 30<sup>th</sup> Annual Symposia, Phoenix, Arizona, Breakthroughs in Neurology, March 4-6, 2004.

Spetzler RF: Management of intraventricular lesions. Neurosurgery at Jackson Hole, Jackson Hole, WY, March 8, 2004.

Spetzler RF: Management of spinal vascular lesions. Century Hall, Nagoya Congress, 29<sup>th</sup> Annual Meeting of Japan Stroke Society, Nagoya, Japan, March 18, 2004.

Spetzler RF: The management of perforators. Century Hall, Nagoya Congress Center, 29<sup>th</sup> Annual Meeting of Japan Stroke Society, Nagoya, Japan, March 18, 2004.

Spetzler RF: Management of brainstem cavernous malformations. Century Hall, Nagoya Congress, 29<sup>th</sup> Annual Meeting of Japan Stroke Society, Nagoya, Japan, March 18, 2004.

Spetzler RF (Visiting Professor): Management of brainstem cavernous malformations. Harvard, Boston, MA, April 1, 2004.

Spetzler RF (Visiting Professor): Brainstem cavernous malformations. Harvard, Boston, MA, April 2, 1004.

Spetzler RF (Visiting Professor): Management of brainstem cavernous malformations. Mary Louise & Ben Levy Jr., Visiting Professorship in Neurosurgery. Louisiana State University, Shreveport, LA, April 14, 2004.

Spetzler RF (Co-Chairman): Surgical originals. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, April 30, 2004.

Spetzler RF (Discussant): Surgery of cerebral AVMs. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, April 30, 2004.

Spetzler RF (Discussant): Symptomatic intracranial stenosis: NBSP – Endovascular treatment with stents. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, May 3, 2004.

Spetzler RF (Moderator): Contemporary surgical approaches to the lateral skull base. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, May 4, 2004.

Spetzler RF: Optimally invasive approaches to lateral skull base. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, May 4, 2004.

Spetzler RF: Petroclival meningiomas: Management, complications, and results. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, May 4, 2004.

Spetzler RF (Panelist): Brainstem cavernous malformation. Latin American-American Symposium of Neurosurgery, AANS, Orlando, FL, May 5, 2004.

Spetzler RF (Visiting Professor): Management of brainstem cavernous malformations. University of Illinois, Chicago, IL, June 12, 2004.

Spetzler RF: Exploring the recesses of the brain. BNI Nursing Symposium, Phoenix, AZ, September 9, 2004.

Spetzler RF (Visiting Professor) 2004 Distinguished Lecture Series, Terra incognita. University of Wisconsin, Madison, WI, September 24, 2004.

Spetzler RF: Visiting Professor: Management of giant aneurysms. University of Wisconsin,

Madison, WI, September 25, 2004.

Spetzler RF: Skull base cavernous malformations. CNS, San Francisco, CA, October 17, 2004.

Spetzler RF (Moderator): Arteriovenous malformations: Multimodality management. CNS, San Francisco, CA, October 19, 2004.

Spetzler RF: Treatment of spinal AVM: An integrated approach. CNS, San Francisco, CA, October 20, 2004.

Spetzler RF: Management of giant aneurysms. CNS, San Francisco, CA, October 19, 2004.

Spetzler RF: Management of brainstem cavernous malformations. 1<sup>st</sup> International Levantine Forum, Bari, Italy, November 7, 2004.

Spetzler RF (Chairman, videotape session): Giant aneurysms. 1<sup>st</sup> International Levantine Forum, Bari, Italy, November 7, 2004.

Spetzler RF (Chairman, videotape session): Pineal and ventricular tumors. 1<sup>st</sup> International Levantine Forum, Bari, Italy, November 7, 2004.

Spetzler RF (Magistral lecture): Management of cerebral AVMs. 1<sup>st</sup> International Levantine Forum, Bari, Italy, November 8, 2004.

Spetzler RF: Dying to live. Presentation to the Valley of the Sun United Way Tocqueville Luncheon, December 14, 2004.

### **Presented in 2003:**

Spetzler RF: Management of brainstem cavernous malformations. 7<sup>th</sup> Annual Milam E. Leavens Distinguished Lectureship, MD Anderson Cancer Center, Houston, TX, January 21-23, 2003.

Spetzler RF: Management of giant aneurysms. Rodenstock Lecture, Erlangen, Germany, January 28-February 2, 2003.

Spetzler RF: When to use skull base approaches. AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology, Phoenix Civic Plaza Convention Center, February 16, 2003.

Spetzler RF: Practical 3D video demonstration. AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology, Phoenix Civic Plaza Convention Center, February 16, 2003.

Spetzler RF: Surgical management of the perforators: The real key to operative success. The Luessenhop lecture. AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology, Phoenix Civic Plaza Convention Center, February 19, 2003.

Spetzler RF: Cavernous malformations of the brain stem (keynote address). NASBS Memphis TN, February 22, 2003.

Spetzler RF: Vascular bypass in the skull base (panel discussion). PANPACIFIC Neurosurgery Congress, Honolulu, HI, February 23, 2003.

Spetzler RF (honored guest): Surgical management of brainstem cavernous malformations. PANPACIFIC Neurosurgery Congress, Honolulu, HI, February 23, 2003.

Spetzler RF (honored guest): Management of spinal AVMs. PANPACIFIC Neurosurgery Congress, Honolulu, HI, February 25, 2003.

Spetzler RF (Scientific session): Challenging cases – The Good, the Bad, and the Ugly. Neurosurgery at Jackson Holl. March 8-23, 2003.

Spetzler RF: (Session Leader): Complication case. Global Endovascular Complications Seminar, Jackson Hole, WY, July 23-26, 2003.

Spetzler RF (Panel Discussion): AVM. Global Endovascular Complications Seminar, Jackson Hole, WY, July 23-26, 2003.

Spetzler RF: Anterior skull base approaches. 3<sup>rd</sup> Congreso Centroamericano de Neurocirugia, WFNS Course, San Salvador, El Salvador, September 29, 2003.

Spetzler RF: Management of giant aneurysms. 3<sup>rd</sup> Congreso Centroamericano de Neurocirugia, WFNS Course, San Salvador, El Salvador, September 30, 2003.

Spetzler RF: How I do it session: Aneurysm clipping. 3<sup>rd</sup> Congreso Centroamericano de Neurocirugia, WFNS Course, San Salvador, El Salvador, September 30, 2003.

Spetzler RF (joint meeting): Giant aneurysms – Microsurgical approach. 7<sup>th</sup> Congress of World Federation of Interventional and Therapeutic Neuroradiology, Summerville Beach Resort, Recife, Brazil, November 5, 2003.

Spetzler RF (joint meeting): Cerebral dural AV fistula: Microsurgical treatment. 7<sup>th</sup> Congress of World Federation of Interventional and Therapeutic Neuroradiology, Summerville Beach Resort, Recife, Brazil, November 5, 2003.

Spetzler RF (joint meeting): Spine and spinal cord vascular malformation: Surgical treatment. 7<sup>th</sup> Congress of World Federation of Interventional and Therapeutic Neuroradiology, Summerville Beach Resort, Recife, Brazil, November 5, 2003.

Spetzler RF (Academy meeting): Brainstem cavernomas. 7<sup>th</sup> Congress of World Federation of Interventional and Therapeutic Neuroradiology, Summerville Beach Resort, Recife, Brazil, November 7, 2003.

Spetzler RF (Academy meeting): Neurovascular surgery in the 21<sup>st</sup> century: Could we do better? 7<sup>th</sup> Congress of World Federation of Interventional and Therapeutic Neuroradiology, Summerville Beach Resort, Recife, Brazil, November 7, 2003.

#### **Presented in 2002:**

Spetzler RF: "Breakfast with the Masters" Vascular bypass in skull base surgery. 13th Annual Meeting of the North American Skull Base Society, San Diego, California, February 16, 2002.

Spetzler RF (Panelist): Minimally invasive approach to the brainstem with maximal exposure. 13th Annual Meeting of the North American Skull Base Society, San Diego, California, February 16, 2002.

Spetzler RF (Panelist): Clipping techniques in complex aneurysms: Tricks and tips, do's and don'ts. 13th Annual Meeting of the North American Skull Base Society, San Diego, California, February 16, 2002.

Spetzler RF: (Keynote address). New 3-D techniques in skull base surgery. 13th Annual Meeting of the North American Skull Base Society, San Diego, California, February 18, 2002.

Spetzler RF: Anterior midline skullbase surgery. Neurosurgery at Jackson Hole, March 3, 2002.

Spetzler RF: Bryce Weir Symposium. Multimedia database. American Association of Neurological Surgeons, Chicago, Illinois, April 5, 2002.

Spetzler RF: Indications, treatment options and complications. "AVM: Surgical management," American Association of Neurological Surgeons, Chicago, Illinois, April 6, 2002.

Spetzler RF (Panelist): High risk carotid patients: Surgery vs. endovascular therapy. American Association of Neurological Surgeons, Chicago, Illinois, April 8, 2002.

Spetzler RF (Discussant): Surgical clipping may give better results than coil embolization on a series of 84 consecutive unruptured intracranial aneurysms. American Association of Neurological Surgeons, Chicago, Illinois, April 8, 2002.

Spetzler RF (Moderator): How I do it: Vascular microsurgery. American Association of Neurological Surgeons, Chicago, Illinois, April 9, 2002.

Spetzler RF (Panelist): Coil vs clip. American Association of Neurological Surgeons, Chicago, Illinois, April 10, 2002.

Spetzler RF (Visiting Professor): Management of brain stem cavernous malformations. Chicago Institute of Neurosurgery and Neuroresearch, Chicago, Illinois, May 2, 2002.

Spetzler RF: Management of brainstem cavernous malformations. 25 Years Neurosurgery in Hannover, Germany, June 20, 2002.

Spetzler RF (Honored Guest): 1st Fondazione Agarini Lectureship. Windows into the brainstem: Management of brainstem cavernous malformations. 1st Satellite Symposium. New Frontiers in Surgical Neurology, Terni, Italy, June 22, 2002.

Spetzler RF: Case presentation. 4th Annual Global Endovascular Complications Seminar, Snake River Lodge, Jackson Hole, Wyoming, July 24, 2002.

Spetzler RF (Panelist): Embolization I. 15th Annual Interventional Neuroradiology Peer Review Conference, Jackson Hole, Wyoming, July 31, 2002.

Spetzler RF: The Good, the Bad, and the Ugly. Kasdon Travel Club, Lost Creek Ranch, Wyoming, August 30, 2002.

Spetzler RF (Special Lecture): The evolution of treatment for brain stem cavernous malformations. International Conferences for Cerebrovascular Surgery, Kyoto, Japan, September 6, 2002.

Spetzler RF: BNI Past, Present, and Future. BNI Nursing Symposium, Phoenix, Arizona, September 11, 2002.

Spetzler RF: Management of brainstem cavernous malformations. Congress of Neurological Surgeons, Philadelphia, PA September 22, 2002.

Spetzler RF: Management of pineal and intraventricular lesions. Congress of Neurological Surgeons, Philadelphia, PA September 22, 2002.

Spetzler RF: Image guided cranial navigation. Congress of Neurological Surgeons, Philadelphia, PA September 22, 2002.

Spetzler RF: Discovering the novel surgical approach. Congress of Neurological Surgeons, Philadelphia, PA September 23, 2002.

Spetzler RF (Moderator): Optimizing multimodality management of AVMs. Congress of Neurological Surgeons, Philadelphia, PA September 24, 2002.

Spetzler RF: When not to operate on brainstem cavernous malformations. Congress of Neurological Surgeons, Philadelphia, PA September 25, 2002.

Spetzler RF: Spinal AVM classification. University of Utah. M. Peter Heilbrun Symposium, Snowbird, UT, October 4, 2002.

Spetzler RF: Spinal cord arteriovenous malformations. The IV Panarab Congress of Neurosurgery, Fez, Morocco, October 11, 2002.

Spetzler RF: Cerebral arteriovenous malformations. The IV Panarab Congress of Neurosurgery, Fez, Morocco, October 12, 2002.

### **Presented in 2001:**

Spetzler RF: Ophthalmic region aneurysms. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Anterior communicating aneurysms. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Cavernous sinus aneurysms. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Giant and complex aneurysms. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Brain stem cavernous malformations. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Vertebral region aneurysms. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Vascular lesions of the spinal cord. Cerebrovascular Section Meeting of the Mexican Society of Neurosurgery, Mexico City, Mexico, January 25-26, 2001.

Spetzler RF: Transfacial and transoral approaches for skull base lesions. BNI Symposium. Leonard Goldman Auditorium, Barrow Neurological Institute, Phoenix, AZ, March 1, 2001.

Spetzler RF: 3-D anatomical dissection course and image guidance. BNI Symposium. Leonard Goldman Auditorium, Barrow Neurological Institute, Phoenix, AZ, March 1, 2001.

Spetzler RF: Pineal region tumors and ventricular tumors. BNI Symposium. Leonard Goldman Auditorium, Barrow Neurological Institute, Phoenix, AZ, March 2, 2001.

Spetzler RF: Approaches to inoperable brain stem cavernomas. BNI Symposium. Leonard Goldman Auditorium, Barrow Neurological Institute, Phoenix, AZ, March 3, 2001.

Spetzler RF: The OZ approach - how to teach it. Neurosurgery at Jackson Hole, Renaissance Resort and Spa, Teton Village, WY, March 3-7, 2001.

Spetzler RF: Management of giant aneurysms. Winter Neurosurgical Conference in the Bugaboos, Jackson Hole, WY, Heli Ski Meeting, Canada, March 26, 2001.

Spetzler RF: Brainstem cavernous malformations Winter Neurosurgical Conference in the Bugaboos, Jackson Hole, WY, Heli Ski Meeting, Canada, March 28, 2001.

Spetzler RF: Spinal vascular lesions. Winter Neurosurgical Conference in the Bugaboos, Jackson Hole, WY, Heli Ski Meeting, Canada, March 30, 2001.

Spetzler RF (Panelist): High risk carotid patients: surgery vs endovascular therapy. 2001 AANS Annual Meeting, Toronto, Ontario, April 22, 2001.

Spetzler RF (Discussant): Endovascular treatment of anterior circulation aneurysms using the GDC system: Outcomes in a series of 296 patients. 2001 AANS Annual Meeting, Toronto, Ontario, April 23, 2001.

Spetzler RF: Surgical intervention for spinal vascular malformations. American Society of Neuroradiology, Boston, Massachusetts, April 26, 2001.

Spetzler RF (Speaker): How I do it: Vascular microsurgery. 2001 AANS Annual Meeting, Toronto, Ontario, April 24, 2001.

Spetzler RF: Surgical intervention for spinal vascular malformations. American society of Neuroradiology Symposium and 39th Annual Meeting, Boston, Massachusetts, April 25,

2001.

Spetzler RF: Management of giant cerebral aneurysms. Society of British Neurosurgery, Newcastle Upon Tyne, London, UK, April 27, 2001.

Spetzler RF: Transfacial approaches. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 25, 2001.

Spetzler RF: Lesions of the foramen magnum. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 25, 2001.

Spetzler RF: Management of AVM's. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 25, 2001.

Spetzler RF: Brainstem cavernous malformations. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 26, 2001.

Spetzler RF: Spinal vascular lesions. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 26, 2001.

Spetzler RF: Management of giant aneurysms. 26th Argentine Congress of Neuroscience, Buenos Aires, Argentina, May 26, 2001.

Spetzler RF (Guest Speaker): A debate: Clipping vs coiling. 3rd Southwestern Brain Aneurysm Workshop, Phoenix, Arizona, June 2, 2001.

Spetzler RF (Moderator): Vascular surgery of skull base aneurysms. 5th European Skull Base Society Congress, Copenhagen, Denmark, June 16, 2001.

Spetzler RF: Surgical management of foramen magnum tumors. 5th European Skull Base Society Congress, Copenhagen, Denmark, June 17, 2001.

Spetzler RF (Session Chairman): Anterior skull base surgery. 5th European Skull Base Society Congress, Copenhagen, Denmark, June 17, 2001.

Spetzler RF: Management of brainstem cavernous malformations. German Academy of Neurosurgery, Husum, Germany, June 22, 2001.

Spetzler RF (Panelist): Coil treatment I. 14th Annual Interventional NR Peer Review Conference, Jackson Hole, Wyoming, August 1, 2001.

Spetzler RF: Status of the incidental aneurysm. 14th Annual Interventional NR Peer Review Conference, Jackson Hole, Wyoming, August 1, 2001.

Spetzler RF: Normal perfusion pressure breakthrough. World Federation, Sydney, Australia, September 17, 2001.

Spetzler RF: Far lateral approach for aneurysm exposure. World Federation, Sydney, Australia, September 18, 2001.

Spetzler RF: Indications for different approaches, including anterior approaches to the clivus and their potential complications. World Federation, Sydney, Australia, September

18, 2001.

Spetzler RF: Management of spinal vascular lesions. World Federation, Sydney, Australia, September 19, 2001.

Spetzler RF: Giant aneurysms. Congress of Neurological Surgeons, San Diego, California, September 30, 2001.

Spetzler RF: Black holes of brain: How to reach challenging areas of the cerebrum. Congress of Neurological Surgeons, San Diego, California, October 1, 2001.

Spetzler RF: Hypothermic cardiac standstill for aneurysm surgery: The impossible made possible. Barrow Stroke Update, Scottsdale, Arizona, October 18, 2001.

Spetzler RF: (Crossfire Panel): Controversy and consensus in stroke. Barrow Stroke Update, Scottsdale, Arizona, October 18, 2001.

Spetzler RF: Virtual surgery - new teaching methods. Atlantic Neuroscience Institute, Basking Ridge, NJ, October 20, 2001.

Spetzler RF: The evolution of brain stem surgery for cavernous malformations. 60th Annual Meeting, Japan Neurosurgical Society, Okayama City, Japan, October 25, 2001.

Spetzler RF (Panelist): Surgery for complicated cerebral aneurysms. 60th Annual Meeting, Japan Neurosurgical Society, Okayama City, Japan, October 25, 2001.

Spetzler RF: Current management of cerebrovascular surgery. Tiantan Neurosurgical Symposium, Beijing, China, October 28, 2001.

Spetzler RF: Multimedia database. American Academy of Neurological Surgery. Palm Beach, Florida, November 17, 2001.

Walker MT, Partovi S, Lemole M, Spetzler RF: Assessment of artifact produced by titanium and non-titanium aneurysm clips during CTA. Western Neuroradiological Society, Santa Barbara, California, October 2001.

#### **Presented in 2000:**

Spetzler RF: Techniques for minimizing surgical risks. Joint Meeting of the AANS/CNS Section on Cerebrovascular Surgery, New Orleans, February 6-9, 2000.

Spetzler RF: Vascular lesions of the spinal cord. UCLA Division of Neurosurgery Grand Rounds, Los Angeles, CA, February 16, 2000.

Spetzler RF: Management of brainstem cavernous malformations - given to residents and attending staff. UCLA Division of Neurosurgery, Los Angeles, CA, February 16, 2000.

Spetzler RF: The impossible aneurysm. Women's Board of Barrow Neurological Foundation Education Day, Phoenix, AZ, February 22, 2000.

Spetzler RF: Profound hypothermia and circulatory arrest for neurovascular lesions: A

team approach. Neuroscience Nursing Partnership - Barrow Neurological Institute, Phoenix, AZ, February 29–March 1, 2000.

Spetzler RF: Spinal cord vascular lesions: Part I and II. Neurosurgery in Jackson Hole, Jackson Hole, WY, March 4-8, 2000.

Spetzler RF: Extended pterional/orbitozygomatic approach. North American Skull Base Society Meeting, Scottsdale, AZ, Pre-meeting courses, March 16, 2000.

Spetzler RF: Level 3 transfacial approach. North American Skull Base Society Meeting, Scottsdale, AZ, Pre-meeting courses, March 16, 2000.

Spetzler RF: Surgical approaches: Degloving with olfactory sparing. Annual meeting. North American Skull Base Society Meeting, Scottsdale, AZ, March 17-20, 2000.

Spetzler RF (Panelist): Radiosurgery in my practice. 2000 AANS Annual Meeting, San Francisco, CA, April 11-13, 2000.

Spetzler RF (Discussant): Residual dysplastic vessels after AVM resection: Implications for postoperative angiogram. 2000 AANS Annual Meeting, San Francisco, CA, April 11-13, 2000.

Spetzler RF (Panelist): Cerebral revascularization. 2000 AANS Annual Meeting, San Francisco, CA, April 11-13, 2000.

Spetzler RF (Panelist): Neurosurgical approaches to cavernous and vascular malformations and vascular malformations of the brainstem. 2000 AANS Annual Meeting, San Francisco, CA, April 11-13, 2000.

Spetzler RF: AVMs: Surgical approach to: Risks and efficacy. Neurovascular Update: The New Millennium - San Francisco, Presented by UCSF and Harvard Medical School, May 25, 2000.

Spetzler RF: Arteriovenous malformations. XXIX Latin American Congress of Neurosurgery, Fortaleza Cera Brasil, June 11-16, 2000.

Spetzler RF: Management of giant aneurysms. XXIX Latin American Congress of Neurosurgery, Fortaleza Cera Brasil, June 11-16, 2000.

Spetzler RF: Brainstem cavernous malformations. XXIX Latin American Congress of Neurosurgery, Fortaleza Cera Brasil, June 11-16, 2000.

Spetzler RF: Anterior circulation aneurysms: Options and approaches. CNS Annual Meeting, San Antonio, TX, September 23-28, 2000.

Spetzler RF: CHARLES DRAKE LECTURE: Unruptured intracranial aneurysms. CNS Annual Meeting, San Antonio, TX, September 23-28, 2000.

Spetzler RF: Surgical treatment of giant aneurysms. XXIII Brazilian Congress of Neurosurgery, Sao Paulo Brazil, September 3-9, 2000.

Spetzler RF: How I treat grades 3, 4 and 5 AVMs. XXIII Brazilian Congress of

Neurosurgery, Sao Paulo Brazil, September 3-9, 2000.

Spetzler RF: Giant aneurysms: Treatment with deep hypothermia and cardiac arrest. XXIII Brazilian Congress of Neurosurgery, Sao Paulo Brazil, September 3-9, 2000.

Spetzler RF: Brainstem cavernous malformations. XXIII Brazilian Congress of Neurosurgery, Sao Paulo Brazil, September 3-9, 2000.

Spetzler RF: Spinal cord AVMs: Surgical treatment. XXIII Brazilian Congress of Neurosurgery, Sao Paulo Brazil, September 3-9, 2000.

Spetzler RF: Management of giant aneurysms. Given to Neurosurgical Residents and Attendings at the Frank P. Smith Lectureship in Neurosurgery, University of Rochester Medical Center, Rochester, NY, October 13, 2000.

Spetzler RF: Management of brain stem cavernous malformations. Frank P. Smith Lectureship in Neurosurgery, University of Rochester Medical Center, Rochester, NY, October 13, 2000.

Spetzler RF: Point Counterpoint: The management of very large AVMs. AANS Annual Meeting - Colorado Springs, CO, October 11-14, 2000.

Spetzler RF: Approaches to anterior inferior cerebellar artery: Experience with 38 cases. AANS Annual Meeting - Colorado Springs, CO, October 11-14, 2000.

#### **Presented in 1999:**

Spetzler RF: Management of giant aneurysms. Egyptian Society of Neurological Surgeons, Cairo, Egypt, March 8-12, 1999.

Spetzler RF: Bypass status. Neurosurgery at Jackson Hole, Jackson Hole, WY, March 13-17, 1999.

Spetzler RF: Management of giant aneurysms. Winter Neurosurgical Conference, Alberta, Canada, March 20-27, 1999.

Spetzler RF (Discussant): Spinal dural arteriovenous fistulae: Endovascular or microsurgical therapy? 67th Annual Meeting, American Association of Neurological Surgeons, New Orleans, LA, April 25-29, 1999.

Spetzler RF (Panelist): Pathophysiology of spinal arteriovenous fistulae. 67th Annual Meeting, American Association of Neurological Surgeons, New Orleans, LA, April 25-29, 1999.

Spetzler RF (Panelist): How I do it: High risk carotid patients. 67th Annual Meeting, American Association of Neurological Surgeons, New Orleans, LA, April 25-29, 1999.

Spetzler RF (Visiting Professor): Management of giant aneurysms. New York University, New York, NY, April 30, 1999.

Spetzler RF: Microsurgery of arteriovenous malformations. X Venezuelan Neurosurgery

Congress, Caracas, Venezuela, May 21, 1999.

Spetzler RF: Spinal arteriovenous malformations. X Venezuelan Neurosurgery Congress, Caracas, Venezuela, May 21, 1999.

Spetzler RF: Management of giant aneurysms. X Venezuelan Neurosurgery Congress, Caracas, Venezuela, May 21, 1999.

Spetzler RF (Moderator): Localization of anatomy and function in neurosurgery. 50th Annual Meeting of the German Society for Neurosurgery, Munich, Germany, June 6-9, 1999.

Spetzler RF: Vascular lesions of the spinal cord: New concepts and treatment. 50th Annual Meeting of the German Society for Neurosurgery, Munich, Germany, June 6-9, 1999.

Spetzler RF: Surgical strategies for aneurysms of the posterior circulation. UCSF Cerebrovascular Symposium, San Francisco, CA, June 19, 1999.

Spetzler RF: Surgery for complex arteriovenous malformations. UCSF Cerebrovascular Symposium, San Francisco, CA, June 19, 1999.

Spetzler RF: Surgery for cavernous malformations of the brain stem. UCSF Cerebrovascular Symposium, San Francisco, CA, June 19, 1999.

Spetzler RF: Surgery for vascular lesions of the spinal cord. UCSF Cerebrovascular Symposium, San Francisco, CA, June 19, 1999.

Spetzler RF: Case presentation. Global Endovascular Interventions Complications: A Multidisciplinary Peer Review Seminar, Jackson Hole, WY, June 23-26, 1999.

Spetzler RF: Management of giant aneurysms. XV Mexican Congress of Neurological Surgery, Cancun, Mexico, July 25-30, 1999.

Spetzler RF: Surgical treatment of arteriovenous malformations. XV Mexican Congress of Neurological Surgery, Cancun, Mexico, July 25-30, 1999.

Spetzler RF (Panelist): Vascular malformations & arteriovenous fistula. 12th Annual Interventional Neuroradiology Peer Review Conference, Jackson Hole, WY, July 28-August 1, 1999.

Spetzler RF (Guest Lecturer): Management of arteriovenous malformations of the central nervous system. King's College Hospital, London, England, November 5, 1999.

Spetzler RF: Point-Counter-Point: Treatment of unruptured 8-mm aneurysms. American Academy of Neurological Surgeons, Amelia Island, FL, November 10-13, 1999.

Spetzler RF: Grand Rounds Presentation. Intracranial AVMs: Pathophysiology and strategies for treatment. Karolinska Hospital, Stockholm, Sweden, December 9, 1999.

Spetzler RF (Olivecrona Lecturer): Classification and treatment of spinal AVMs. Karolinska Hospital, Stockholm, Sweden, December 9, 1999.

**Presented in 1998:**

Spetzler RF: Strategies for treating intimidating aneurysms. Twenty-Fourth Annual Symposium. Recent Advances in Neurology, Neurosurgery, and Neuroradiology, Barrow Neurological Institute, Phoenix, AZ, March 8-11, 1998.

Spetzler RF: Innovations in the management of spinal AVMs. Twenty-Fourth Annual Symposium. Recent Advances in Neurology, Neurosurgery, and Neuroradiology, Barrow Neurological Institute, Phoenix, AZ, March 8-11, 1998.

Spetzler RF: Scientific Session, Revascularization for traumatic ICA dissection. Inn at Jackson Hole, Jackson Hole, WY, March 15-18, 1998.

Spetzler RF (Breakfast Seminar Panelist): Complex basilar artery clipping after cardiac standstill. "Aneurysm Clipping: Advanced Techniques," 66th Annual Meeting of the American Association for Neurological Surgeons, Philadelphia, PA, April 25-30, 1998.

Spetzler RF: 3-D Breakfast Seminar demonstration (cadaver dissection). "Surgical treatment of spinal arteriovenous malformations. 66th Annual Meeting of the American Association for Neurological Surgeons, Philadelphia, PA, April 25-30, 1998.

Spetzler RF (Schneider Lecture): Vascular lesions of the spinal cord. New concepts and treatment strategies. 66th Annual Meeting of the American Association for Neurological Surgeons, Philadelphia, PA, April 25-30, 1998.

Spetzler RF (Breakfast Seminar Panelist): Symptomatic complete carotid occlusion. "How I Do It - High Risk Carotid Patients," 66th Annual Meeting of the American Association for Neurological Surgeons, Philadelphia, PA, April 25-30, 1998.

**Presented in 1997:**

Spetzler RF: Surgical management of giant intracranial aneurysms: Experience with 171 patients. Richard Lende Winter Neurosurgery Conference, Snowbird, UT, February 1-8, 1997.

Spetzler RF: Management of brain stem cavernous malformations. Neurosurgery at Jackson Hole, Teton Village, WY, February 22-26, 1997.

Spetzler RF: Case presentations. Winter Neurosurgical Conference, Alberta, Canada, March 1-8, 1997.

Spetzler RF: 3D practical course: Operative techniques. 8th Annual Meeting, North American Skull Base Society. Little Rock, AR, March 21-25, 1997.

Spetzler RF: Pathophysiology of AVMs. 8th Annual Meeting, North American Skull Base Society. Little Rock, AR, March 21-25, 1997.

Spetzler RF: Vascular considerations in skull base surgery. 8th Annual Meeting, North American Skull Base Society. Little Rock, AR, March 21-25, 1997.

Spetzler RF: Practical Course (4/13): Vertebral basilar artery aneurysms. Surgical Techniques in Intracranial Aneurysms. 65th Annual Meeting of the American Association for Neurological Surgeons, Denver, CO, April 12-17, 1997.

Spetzler RF (Panelist): Breakfast Seminar (4/14) - Giant Aneurysms. Point: Counter Point: Proximal basilar aneurysms. Coil vs. clip. 65th Annual Meeting of the American Association for Neurological Surgeons, Denver, CO, April 12-17, 1997.

Spetzler RF: 3D Video Breakfast Seminar (4/15). Microvascular treatment of vascular and skull base lesions. 65th Annual Meeting of the American Association for Neurological Surgeons, Denver, CO, April 12-17, 1997.

Spetzler RF (Discussant): Plenary Session II. Delayed complications after permanent balloon occlusion of the ICA for treatment of aneurysms of the ICA. 65th Annual Meeting of the American Association for Neurological Surgeons, Denver, CO, April 12-17, 1997.

Spetzler RF (Panelist): Breakfast Seminar (4/16). Midbasilar artery aneurysms. Posterior circulation aneurysms. 65th Annual Meeting of the American Association for Neurological Surgeons, Denver, CO, April 12-17, 1997.

Spetzler RF: Management of giant aneurysms. Brussels Symposium on Aneurysm Management. State of the Art in Honor of Professor Jacques Noterman. Musée de la Médecine Hopital Erasme, Brussels, Belgium, April 30, 1997.

Spetzler RF: The internet and its role in the future practice of neurosurgery. Virtual Conference on Brain "Attack," National Medical Practice Knowledge Bank Project, Marriott's Camelback Inn, Scottsdale, AZ, May 1-4, 1997.

Spetzler RF: Posterior circulation aneurysms. Virtual Conference on Brain "Attack," National Medical Practice Knowledge Bank Project, Marriott's Camelback Inn, Scottsdale, AZ, May 1-4, 1997.

Spetzler RF (Charles Drake Lecturer): Management of giant aneurysms. The Fourth Annual Charles Drake Lecture, University of Virginia, Charlottesville, VA, June 4-5, 1997.

Spetzler RF: Surgical approach to brainstem cavernous malformations. Symposium - Diagnosis and Management of Cavernomas, University of Virginia, Charlottesville, VA, June 4-5, 1997.

Spetzler RF (Panelist): Symposium - Diagnosis and Management of Cavernomas, University of Virginia, Charlottesville, VA, June 4-5, 1997.

Spetzler RF: Surgical management of meningiomas involving the cavernous sinus. Symposium - Meningiomas Involving the Cavernous Sinus. University of Virginia, Charlottesville, VA, June 4-5, 1997.

Spetzler RF (Panelist): Symposium - Meningiomas Involving the Cavernous Sinus, University of Virginia, Charlottesville, VA, June 4-5, 1997.

Spetzler RF: Plenary Session, Guided vascular and tumor surgery. 3rd International Minimally Invasive Neurosurgery (M.I.N.), Palais des Congrès, Paris, France, June 30,

1997.

Spetzler RF (Chairman): Plenary Session, Interventional neuroradiology. 3rd International Minimally Invasive Neurosurgery (M.I.N.), Palais des Congrès, Paris, France, July 1, 1997.

Spetzler RF (Chairman): Introduction. Elekta Special Symposia, 3rd International Minimally Invasive Neurosurgery (M.I.N.), Palais des Congrès, Paris, France, July 7, 1997.

Spetzler RF: Minimally invasive neurosurgery for cavernous malformation in the brain stem. 3rd International Minimally Invasive Neurosurgery (M.I.N.), Palais des Congrès, Paris, France, July 1, 1997.

Spetzler RF (Lecturer): Management of arteriovenous malformations. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF (Lecturer): Extracranial/intracranial bypass in the treatment of ischemic cerebrovascular disease. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF (Lecturer): Foramen magnum tumors. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF (Lecturer): Aneurysm surgery with cardiac arrest. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF (Lecturer): Giant aneurysms of posterior circulation. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF (Lecturer): Anterior circulation aneurysms. VII Congresso Nacional Da Academia Brasileira De Neurocirurgia (Brazilian Academy of Neurosurgery), Goiânia-Goiás-Brasil, September 13-16, 1997.

Spetzler RF: Management of giant aneurysms. XLVI Congresso Nazionale, Società Italiana di Neurochirurgia, Bologna, Palazzo dei Congressi, October 19-22, 1997.

Spetzler RF: Approach to basilar trunk aneurysms. The 56th Annual Meeting of the Japan Neurosurgical Society, Royal Hotel, Osaka, Japan, October 22-24, 1997.

Spetzler RF: Spinal AVMs. The 56th Annual Meeting of the Japan Neurosurgical Society, Royal Hotel, Osaka, Japan, October 22-24, 1997.

Spetzler RF: Ultimate temporary arterial occlusion - cardiac standstill. The 56th Annual Meeting of the Japan Neurosurgical Society, Royal Hotel, Osaka, Japan, October 22-24, 1997.

Spetzler RF: Avoiding cardiac ischemia in the neurosurgeon during premature aneurysm rupture. The 56th Annual Meeting of the Japan Neurosurgical Society, Royal Hotel, Osaka, Japan, October 22-24, 1997.

### **Presented in 1996:**

Spetzler RF: Giant and difficult AVMs: When and how to go for the cure. Joint Section on Cerebrovascular Surgery. San Antonio Marriott River Center, San Antonio, TX, January 23-25, 1996.

Spetzler RF: Case management. Cranial. BNI Symposium. The Phoenician Resort, Scottsdale, AZ, March 7-9, 1996.

Spetzler RF: Changes in skull base approaches for basilar aneurysms. Neurosurgery in Jackson Hole. The Inn at Jackson Hole, Teton Village, WY, March 9-13, 1996.

Spetzler RF: Management of giant and complex aneurysms. Ginde Oration. Bombay Hospital Institute, Bombay, India, March 17-30, 1996.

Spetzler RF: Surgical management of the distal vertebrobasilar berry aneurysm. Symposium on Aneurysms. Texas Medical Center at the Houston Marriott Medical Center Hotel, Houston, TX, March 29-30, 1996.

Spetzler RF (Moderator): Round table discussion: Giant aneurysms. Symposium on Aneurysms. Texas Medical Center at the Houston Marriott Medical Center Hotel, Houston, TX, March 29-30, 1996.

Spetzler RF: Cardiac standstill. Japanese Neurological Congress. Matsue Kunibiki Meese, Matsue, Japan, April 9-13, 1996.

Spetzler RF: AVM - Case presentations. Japanese Neurological Congress. Matsue Kunibiki Meese, Matsue, Japan, April 9-13, 1996.

Spetzler RF: Management of giant and complex aneurysms. Japanese Neurological Congress. Matsue Kunibiki Meese, Matsue, Japan, April 9-13, 1996.

Spetzler RF: Anterior fossa skull base surgery - Preserving olfaction. Japanese Neurological Congress. Matsue Kunibiki Meese, Matsue, Japan, April 9-13, 1996.

Spetzler RF: AVMs in eloquent areas. Japanese Neurological Congress. Matsue Kunibiki Meese, Matsue, Japan, April 9-13, 1996.

Spetzler RF: FDA approved GD coils: How well do they work and when should they be used? American Association of Neurological Surgery. Minnesota Convention Center, Minneapolis, MN, April 28-May 2, 1996.

Spetzler RF: Donaghy lecture - The history and development of skull base approaches for cerebral aneurysms. American Association of Neurological Surgery. Minnesota Convention Center, Minneapolis, MN, April 28-May 2, 1996.

Spetzler RF: Techniques for cerebral revascularization: Vein bypasses—Indications,

techniques, and results. American Association of Neurological Surgery. Minnesota Convention Center, Minneapolis, MN, April 28-May 2, 1996.

Spetzler RF: Special Course—Carotid endarterectomy. American Association of Neurological Surgery. Minnesota Convention Center, Minneapolis, MN, April 28-May 2, 1996.

Spetzler RF: Getting started and building a practice competing with vascular surgery. American Association of Neurological Surgery. Minnesota Convention Center, Minneapolis, MN, April 28-May 2, 1996.

Spetzler RF: Management of intracranial aneurysms. Family Practice Annual Berens Lecture. St. Joseph's Hospital and Medical Center, Phoenix, AZ, May 16, 1996.

Spetzler RF (Visiting Professor): The management of giant and complex aneurysms. Neurosurgery Grand Rounds. Johns Hopkins University, Baltimore, MD, May 22, 1996.

Spetzler RF: Aneurysm Focus Session: Surgical management of giant intracranial aneurysms. American Society of Neuroradiology. Washington State Convention and Trade Center, Seattle, WA, June 23-27, 1996.

Spetzler RF (Faculty member): Special Practical Course: Combined petrosal approach. Skull Base Congress/North American Skull Base Society, San Diego, CA, June 29-July 4, 1996.

Spetzler RF: Morning Seminar - Approaches to the carotid artery. Skull Base Congress/North American Skull Base Society, San Diego, CA, July 1, 1996.

Spetzler RF (Chairman, morning seminar): Combined approaches to the middle and posterior fossa. Skull Base Congress/North American Skull Base Society, San Diego, CA, July 3, 1996.

Spetzler RF: Special Lecture: Management of the internal carotid artery in skull base surgery. Skull Base Congress/North American Skull Base Society, San Diego, CA, July 4, 1996.

Spetzler RF: Pathogenesis of dural AVMs. Kasdon Neurosurgical Research Forum, Jackson, WY, July 27, 1996.

Spetzler RF (Panelist): Vascular malformations. 9th International Neuroradiology Peer Review Conference, Jackson, WY, July 31, 1996.

Spetzler RF: Posterior fossa aneurysms. Neurovascular Symposium. Santiago, Chile, August 22-24, 1996.

Spetzler RF: AVM classification. Neurovascular Symposium. Santiago, Chile, August 22-24, 1996.

Spetzler RF: Supratentorial AVMs. Neurovascular Symposium. Santiago, Chile, August 22-24, 1996.

Spetzler RF: Posterior fossa. Neurovascular Symposium. Santiago, Chile, August 22-24,

1996.

Spetzler RF: Cavernomas. Neurovascular Symposium. Santiago, Chile, August 22-24, 1996.

Spetzler RF (Moderator): "Firing Line" - Controversies in management. Neurovascular Symposium. Santiago, Chile, August 22-24, 1996.

Spetzler RF: What is recurrent carotid disease and should we treat it? Joint 3rd World Stroke Congress and 5th European Stroke Conference, Munich, Germany, August 31-September 13, 1996.

Spetzler RF (Chairperson): Hemorrhages - oral session. Joint 3rd World Stroke Congress and 5th European Stroke Conference, Munich, Germany, August 31-September 13, 1996.

Spetzler RF: The General Scientific Session IV: A comprehensive discussion of posterior fossa tumors - Skull-based meningiomas, foramen magnum. 46th Annual Meeting, Congress of Neurological Surgeons. Montreal, Quebec, Canada, September 28-October 3, 1996.

Spetzler RF (Special Lecture): Neurosurgical aspects of AVMs. 28th Annual Meeting, Western Neuroradiology Society. Le Meridien Hotel San Diego at Coronado Resort & Spa, San Diego, CA, October 3-6, 1996.

Spetzler RF: Hypothermic circulatory arrest for cerebrovascular surgery. Stroke Update '96 - October 25, 1996. Mercy Healthcare Arizona, St. Joseph's Hospital and Medical Center, Phoenix, AZ, October 25, 1996.

Spetzler RF: Skull-based approaches for benign tumors. 9th Annual Fall Meeting of the Arizona Neurosurgical Society. Loew's Ventana Canyon Resort, Tucson, AZ, November 2, 1996.

Spetzler RF: Indications and surgical technique for carotid endarterectomy. Bi-Annual Neurosurgical Meeting. Hacettepe University Department of Neurosurgery, Ankara, Turkey, November 23-24, 1996.

Spetzler RF: Management of cavernous malformations. Bi-Annual Neurosurgical Meeting. Hacettepe University Department of Neurosurgery, Ankara, Turkey, November 23-24, 1996.

Spetzler RF: Management of AVMs. Bi-Annual Neurosurgical Meeting. Hacettepe University Department of Neurosurgery, Ankara, Turkey, November 23-24, 1996.

Spetzler RF: Surgical approaches to tentorial hiatus. Neurosurgery Department. University of Istanbul, Istanbul, Turkey, November 25, 1996.

Spetzler RF: AVMs. Annual Meeting of the Society of Neurosurgery of France. Paris, France, December 2-4, 1996.

Spetzler RF (Cone Lecture): The history and development of skull base approaches for aneurysms. Neurosurgery Conference Day, Jeanne Timmins Amphitheater, Montreal Neurological Institute, McGill University, Montreal, Quebec, Canada, December 13, 1996.

**Presented in 1995:**

Spetzler RF: Transfacial approach to the skull base. 21st Annual Richard Lende Winter Neurosurgery Conference. Cliff Lodge, Snowbird, UT, February 4-11, 1995.

Spetzler RF: Far lateral approach to the foramen magnum and upper cervical spine. Joint Section on Disorders of the Spine and Peripheral Nerves. Pointe Hilton, South Mountain Resort, Phoenix, AZ, February 14-18, 1995.

Spetzler RF: Supratentorial infraoccipital approach to medial temporal lobe lesions. Neurosurgery in Jackson Hole, Teton Village, WY, February 25-March 2, 1995.

Spetzler RF: Vessel reconstruction and bypass. Winter Neurosurgical Conference in Alberta Canada, March 4-11, 1995.

Spetzler RF: Far lateral approach to lesions of the craniovertebral junction. Winter Neurosurgical Conference in Alberta Canada, March 4-11, 1995.

Spetzler RF: Spine AVM: Classification and treatment. 9th Annual Magnetic Resonance Imaging Conference, Marriott's Camelback Inn Resort, Scottsdale, AZ, March 12-15, 1995.

Spetzler RF: Vascular lesions of the craniovertebral junction. 22nd Annual Symposium. Recent Advances in Neurology and Neurosurgery, Marriott's Camelback Inn Resort, Scottsdale, AZ, March 16-18, 1995.

Spetzler RF: Radial resection of the craniocervical junction. 22nd Annual Symposium. Recent Advances in Neurology and Neurosurgery, Marriott's Camelback Inn Resort, Scottsdale, AZ, March 16-18, 1995.

Spetzler RF: 3D video, special session: Operation aneurysm management. 22nd Annual Symposium. Recent Advances in Neurology and Neurosurgery, Marriott's Camelback Inn Resort, Scottsdale, AZ, March 16-18, 1995.

Spetzler RF: Carotid endarterectomy practical clinic: Special situations, Problem cases. 63rd Annual AANS meeting, Orlando, FL, April 22-27, 1995.

Spetzler RF: Vertebral basilar circuit aneurysms: Surgical techniques in intracranial aneurysms. 63rd Annual AANS meeting, Orlando, FL, April 22-27, 1995.

Spetzler RF: Combined approaches to the petrous region: Combined approaches to lateral skull base. 63rd Annual AANS meeting, Orlando, FL, April 22-27, 1995.

Spetzler RF (discussant): The prospective natural history of cavernous malformations. 63rd Annual AANS meeting, Orlando, FL, April 22-27, 1995.

Spetzler RF: Special lecture - A neurosurgeon's view of spinal AVMs. 33rd Annual Meeting, American Society of Neuroradiology, Sheraton Chicago Hotel & Towers, Chicago, IL, April 21-27, 1995.

Spetzler RF: The surgical treatment of AVMs. 10th European Congress of Neurosurgery, Berlin, Germany, May 7-12, 1995.

Spetzler RF: Endovascular treatment of intracranial aneurysms. 10th European Congress of Neurosurgery, Berlin, Germany, May 7-12, 1995.

Spetzler RF: Spinal arteriovenous malformations. University of San Diego Grand Rounds, San Diego, CA, June 6, 1995.

Spetzler RF: Arteriovenous malformations. Cerebrovascular Malformations and Aneurysms: Current Management and Future Horizons, Massachusetts General Hospital, June 28-July 1, 1995.

Spetzler RF: Spinal arteriovenous malformations. Cerebrovascular Malformations and Aneurysms: Current Management and Future Horizons, Massachusetts General Hospital, June 28-July 1, 1995.

Spetzler RF: Spinal AVM: New classification. Kasdon Neurosurgical Research Forum, Seaside Resort, Seaside, FL, July 13-15, 1995.

Spetzler RF: Arteriovenous malformations and fistulas. Eighth Annual Interventional Neuroradiology Peer Review Conference, Jackson Hole, WY, August 1-5, 1995.

Spetzler RF: New classifications for spinal AVMs. Ohio State Neurosurgical Society, Mt. Sterling, OH, September 8-9, 1995.

Spetzler RF: Treatment of giant AVMs. UCLA Cerebrovascular Symposium - Brain Attack, UCLA, Santa Monica, CA, September 21-23, 1995.

Spetzler RF: Management of cavernous angiomas. UCLA Cerebrovascular Symposium - Brain Attack, UCLA, Santa Monica, CA, September 21-23, 1995.

Spetzler RF: (visiting professor): Spinal AVMs. University of Oklahoma, Oklahoma City OK, September 28-29, 1995.

Spetzler RF: (visiting professor): Combined approach for tumors. University of Oklahoma, Oklahoma City OK, September 28-29, 1995.

Spetzler RF: Innovations in cranial approaches and exposures: Lateral cranial exposures. Congress of Neurological Surgeons, San Francisco, CA, October 15-19, 1995.

Spetzler RF: (guest lecturer): Challenges in the management of giant intracranial aneurysms. Holland Memorial, The Mount Sinai Medical Center, New York, NY, October 24-25, 1995.

Spetzler RF: Hypothermic cardiac standstill for cerebrovascular surgery. Stroke Update '95, Barrow Neurological Institute, Phoenix, AZ, October 27, 1995.

Spetzler RF: Combined supra- and infratentorial approach: An update. The 3rd Annual Asian-Oceanian International Congress on Skull Base Surgery, Seoul, Korea, November 1-3, 1995.

Spetzler RF: Vascular lesions of the craniovertebral junction. The 3rd Annual Asian-Oceanian International Congress on Skull Base Surgery, Seoul, Korea, November 1-3, 1995.

Spetzler RF: Surgical management of intraspinal tumors at the craniocervical junction. The 9th Asian-Australasian Congress of Neurosurgery, Taipei, Taiwan, November 5-10, 1995.

Spetzler RF: Combined approaches to lesions of the clivus or transfacial approaches to the skull base. The 9th Asian-Australasian Congress of Neurosurgery, Taipei, Taiwan, November 5-10, 1995.

Spetzler RF: Guidance using the viewing wand. Advanced Image-Guided Stereotactic Surgery, Radiosurgery, and Frameless Techniques in the Desert. University of Pittsburgh-Scottsdale Course, Scottsdale, AZ, December 5, 1995.

Spetzler RF: Management of cerebral AVMs. The Buenos Aires Congress of Neurosurgery, Buenos Aires, Argentina, December 7-9, 1995.

Spetzler RF: Combined approach for skull base lesions. The Buenos Aires Congress of Neurosurgery, Buenos Aires, Argentina, December 7-9, 1995.

Spetzler RF: Management of giant aneurysms. The Buenos Aires Congress of Neurosurgery, Buenos Aires, Argentina, December 7-9, 1995.

#### **Presented in 1994:**

Spetzler RF: Cardiac standstill for complex aneurysms. 20th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 29-February 4, 1994.

Spetzler RF: Vessel reconstruction and bypass in skull base surgery. North American Skull Base Society. Orlando, FL, February 18-23, 1994.

Spetzler RF: Practical Course—Combined supra- infratentorial presigmoid petrosectomy approach. North American Skull Base Society. Orlando, FL, February 18-23, 1994.

Spetzler RF: Aneurysms of the basilar artery. Mayfield Winter Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF: Complex AVMs of the posterior fossa. Mayfield Winter Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF (panel discussion): Multistrategy approaches to the treatment of aneurysms and AVMs. Mayfield Winter Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF: The combined supra- and infratentorial approach for lesions of the petrous and clival region. Mayfield Winter Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF (panel discussion): Controversies in skull base surgery. Mayfield Winter

Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF (panel discussion): Controversies in cervical spine surgery. Mayfield Winter Neuroscience Symposium. Aspen, CO, February 28-March 5, 1994.

Spetzler RF: The combined supra- and infratentorial approach for lesions of the petrous and clival region. Neurosurgery at Jackson Hole. Jackson Hole, WY, March 12-17, 1994.

Spetzler RF: Vascular malformations—Nomenclature and treatment. BNI Symposium. Phoenix, AZ, March 17-19, 1994.

Spetzler RF: 3D Microsurgical workshop—Skull base approaches. BNI Symposium. Phoenix, AZ, March 17-19, 1994.

Spetzler RF: Management strategies of giant aneurysms. BNI Symposium. Phoenix, AZ, March 17-19, 1994.

Spetzler RF: The combined supra- and infratentorial approach for lesions of the petrous and clival region. Annual Arnold Barnett Lecture, Wichita Society of Neuroscience. Wichita, KS, April 4-6, 1994.

Spetzler RF (faculty member): Surgical techniques in intracranial aneurysms. Practical clinic. American Association of Neurological Surgeons. San Diego, CA, April 10-14, 1994.

Spetzler RF (demonstrating surgeon): Surgical dissection—3D video demonstration. American Association of Neurological Surgeons. San Diego, CA, April 10-14, 1994.

Spetzler RF (panel member): Management of petroclival meningiomas. American Association of Neurological Surgeons. San Diego, CA, April 10-14, 1994.

Spetzler RF: The combined supra- and infratentorial approach for lesions of the petrous and clival region. Kemink Lecture, University of Michigan. Ann Arbor, MI, April 28-29, 1994.

Spetzler RF: Posterior circulation aneurysms. Southern California Neurosurgical Society. Long Beach, CA, May 18, 1994.

Spetzler RF: Microsurgical AVM resection: Indications, techniques, and results. The 14th Annual Meeting of the Japanese Congress of Neurological Surgeons. Sendai, Japan, May 27-29, 1994.

Spetzler RF: Learning, advice, and enthusiasm. Commencement Address - Knox College. Galesburg, IL, June 4, 1994.

Spetzler RF, Zabramski JM: Use of bypass for complex aneurysms. 19th Annual Meeting, Rocky Mountain Neurosurgical Society. Aspen, CO, June 12-16, 1994.

Spetzler RF (panel member): Aneurysms. 7th Annual Interventional Neuroradiology Peer Review Conference. Jackson, WY, July 5-9, 1994.

Spetzler RF: Spinal AVMs. Second International Neurosurgical Summer Conference. Mombasa/Kenya, Africa, August 12-27, 1994.

Spetzler RF: Giant aneurysms. XX Congresso Brasileiro de Neurocirurgia - Belo Horizonte, Brazil, September 3, 1994.

Spetzler RF: Spinal arteriovenous malformations. XX Congresso Brasileiro de Neurocirurgia - Belo Horizonte, Brazil, September 4, 1994.

Spetzler RF: Cerebral arteriovenous malformations. XX Congresso Brasileiro de Neurocirurgia - Belo Horizonte, Brazil, September 5, 1994.

Spetzler RF: The occluded carotid artery - experience with 65 cases. BNI Stroke Update '94, Phoenix, Arizona, September 23, 1994.

Spetzler RF: Carotid endarterectomy course. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 2, 1994.

Spetzler RF: Microendarterectomy - Operative techniques. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 1-6, 1994.

Spetzler RF: Controversies in skull base surgery. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 1-6, 1994.

Spetzler RF: The role of endovascular treatment in surgically accessible aneurysms. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 1-6, 1994.

Spetzler RF: Management of giant intracranial aneurysms. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 1-6, 1994.

Spetzler RF: Management of lesions of the occipital-cervical junction. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 1-6, 1994.

Spetzler RF: AVMs: Radiosurgery vs. surgery. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Giant aneurysms. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Infratentorial aneurysms. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Surgical management of skull base lesions. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Sellar region and cavernous sinus tumors. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Hypothermia and cardiac arrest in surgical treatment of giant aneurysms. XXVI Congresso Latinoamericano De Neurocirurgia-Cartagena, Colombia, October 16-21, 1994.

Spetzler RF: Transoral approach to the upper cervical spine. BNI Spine Workshop, Phoenix, AZ, November 11-12, 1994.

Spetzler RF: Modern management of arteriovenous malformations. North Carolina Neurosurgical Society, Greensboro, NC, November 19, 1994.

Spetzler RF: Modern management of AVMs. University of Arizona Neurology/Neurosurgery Grand Rounds, Tucson, AZ, December 2, 1994.

### **Presented in 1993:**

Spetzler RF: Surgical management of large incisural lesions. UCLA Neurosurgery Skull Base Program. Cranial Base Workshop. Los Angeles, CA, January 18-19 and January 23-24, 1993.

Spetzler RF: Preservation of olfaction and prevention of CSF leakage in anterior craniofacial approaches. 19th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 30-February 6, 1993.

Spetzler RF: Spinal cord AVMs: Diagnosis, pathophysiology, and treatment. 20th Annual Symposium. Recent Advances in Neurology and Neurosurgery. Phoenix, AZ, March 18-20, 1993.

Spetzler RF: 3-D Video microsurgical workshop. 20th Annual Symposium. Recent Advances in Neurology and Neurosurgery. Phoenix, AZ, March 18-20, 1993.

Spetzler RF: Management of complex aneurysms. Winter Neurosurgical Conference. Calgary, Alberta, March 6-13, 1993.

Spetzler RF: Diagnosis and treatment of spinal AVMs. Winter Neurosurgical Conference. Calgary, Alberta, March 6-13, 1993.

Spetzler RF: Vertebral-basilar circuit aneurysms. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Khayata M, Dean B, Flom RA, Zabramski J, Spetzler RF: Efficacy of endovascular treatment of meningiomas: A controlled study. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Spetzler RF (moderator): Approaches and problems in the management of intracranial AVMs. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Spetzler RF (discussant): The efficacy of particulate embolization and stereotactic radiosurgery for large AVMs of the brain. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Spetzler RF (panelist): Lateral and posterior approaches to the skull base. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Spetzler RF: Neurosurgery and the carotid artery. Operative techniques to improve outcome. 61st Annual Meeting, American Association of Neurological Surgeons. Boston, MA, April 24-29, 1993.

Spetzler RF: Operative strategy of midline and ventricle related supratentorial AVMs. 44th Annual Meeting of the German Society of Neurosurgery. Frankfurt, Germany, May 1-3, 1993.

Spetzler RF (visiting professor): Skull base approaches to the clivus. University of Maryland, School of Medicine. Baltimore, MD, May 4-5, 1993.

Spetzler RF (visiting professor): Pathophysiology and treatment of spinal AVMs. Tri-State Neurosurgery Conference, University of Pittsburgh. Pittsburgh, PA, May 27, 1993.

Johnson BA, Drayer BP, Wascher TM, Zabramski JM, Spetzler RF: The natural history of familial cavernous malformations: A prospective clinical and MR imaging trial. American Society of Neuroradiology. Vancouver, BC, May 1993.

Spetzler RF (Charles A. Elsberg Lecturer): Spinal AVMs. Columbia University, New York, NY, June 1, 1993.

Hamilton MG, Spieser BL, Khayata MH, Shetter AG, Spetzler RF: The role for radiosurgery in the management of cerebral arteriovenous malformations. Rocky Mountain Neurosurgical Society Scientific Program. 28th Annual Meeting, Bigfork, MT, June 13-17, 1993.

Zimmerman CG, Zerick WR, Spetzler RF, Sonntag VKH: Transoral odontoidectomy Update: Report of 105 Cases. Rocky Mountain Neurosurgical Society Scientific Program. 28th Annual Meeting, Bigfork, MT, June 13-17, 1993.

Spetzler RF: Midfacial approaches for tumors. Kasdan Neurosurgical Research Forum. Bermuda, June 26-30, 1993.

Spetzler RF (visiting professor): Combined approaches to tumors of the petrous ridge. University of Miami. Miami, FL, June 1, 1993.

Spetzler RF (Arthur A. Ward lecturer and visiting professor): Management and pathophysiology of spinal AVMs. University of Washington. Seattle, WA, August 10-12, 1993.

Spetzler RF: Revascularization in skull base and vascular surgery. The decade of the brain. An International Conference. Washington, DC, September 10-14, 1993.

Spetzler RF: Transfacial approaches to the skull base, role and perspectives. European Skull Base Society, 1st Congress. Riva del Garda, Italy, September 25-30, 1993.

Spetzler RF: Internal carotid artery problems in lesions in the skull base: Surgical management. European Skull Base Society, 1st Congress. Riva del Garda, Italy, September 25-30, 1993.

Spetzler RF: Systematic approach to the entire clivus. European Skull Base Society, 1st Congress, Riva del Garda. Italy, September 25-30, 1993.

Spetzler RF: Management of large tumors of the clival region. European Skull Base Society, 1st Congress. Riva del Garda, Italy, September 25-30, 1993.

Spetzler RF: Surgical management of meningiomas. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Spetzler RF: Techniques in aneurysm surgery. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Spetzler RF (moderator): Controversies in clinical management (panel discussion). Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Spetzler RF: Anterior circulation aneurysms (video luncheon). Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Apostolides PJ, Zimmerman CG, Zerick WR, Spetzler RF, Sonntag VKH: Transoral odontoidectomy update: Report of 105 cases. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Spetzler RF: Normal perfusion breakthrough—a 15-year retrospective. Joint Section on Cerebrovascular Surgery Workshop. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Hamilton MG, Spetzler RF: Giant cerebral aneurysms treated with circulatory arrest, hypothermia, and barbiturate cerebral protection. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Francis PM, Zabramski JM, Spetzler RF: The use of 3% sodium chloride (NaCl) in the management of vasospasm from aneurysmal subarachnoid hemorrhage. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Smith KA, Spetzler RF: Supratentorial-occipital interhemispheric approach for medial temporal lobe lesions. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Lawton MT, Hamilton MG, Spetzler RF: Management of deep AVMs: Thalamus, basal ganglia, and brain stem. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Khayata MH, Wallace RC, Flom RA, Zabramski JM, Spetzler RF: Comparison of arteriovenous malformation embolization with glue versus particles. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Greene KA, Marciano FF, Dickman CA, Coons SW, Johnson PC, Bailes JE, Spetzler RF: Anterior communicating artery aneurysm paraparesis syndrome: Clinical manifestations and pathologic correlates. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Hamilton MG, Spetzler RF: The prospective application of a grading system for arteriovenous malformations. Congress of Neurological Surgeons, 43rd Annual Meeting. Vancouver, BC, October 2-7, 1993.

Spetzler RF: The role of microsurgery in the treatment of cerebral arteriovenous

malformations. Arizona Neurological Society. Tucson, AZ, October 9, 1993.

Spetzler RF (coordinator): Cerebral arteriovenous malformations. World Federation of Neurosurgical Societies. Acapulco, Mexico, October 17-22, 1993.

Spetzler RF: Spinal AVMs (video seminar). World Federation of Neurological Societies. Acapulco, Mexico, October 17-22, 1993.

Spetzler RF (coordinator): Management of giant cerebral arteriovenous vascular malformations. World Federation of Neurological Societies. Acapulco, Mexico, October 17-22, 1993.

Spetzler RF: Thalamic and brain stem arteriovenous malformations (video seminar). World Federation of Neurological Societies. Acapulco, Mexico, October 17-22, 1993.

Spetzler RF: Vascular surgery: Brain stem cavernous malformations. World Federation of Neurological Societies. Acapulco, Mexico, October 17-22, 1993.

Spetzler RF: Multimodality management of cerebral arteriovenous malformations. International Society for Pediatric Neurosurgery, 21st Annual Scientific Meeting. Phoenix, AZ, October 24-28, 1993.

Spetzler RF: Transfacial approach to the skull base with emphasis on preservation of olfaction. American Academy of Neurological Surgery. Phoenix, AZ, October 27-31, 1993.

Spetzler RF (visiting professor): Skull base approaches for petro-clival lesions. Montreal Neurological Sciences Symposium. Montreal, Quebec, November 4-5, 1993.

Spetzler RF (visiting professor): The management of vascular malformations. Montreal Neurological Sciences Symposium. Montreal, Quebec, November 4-5, 1993.

Spetzler RF: Surgical management of AVMs. CNS tumors and cerebrovascular lesions: Modern management. The 18th Annual Neurosurgery Postgraduate Course. San Francisco, CA, December 3, 1993.

Spetzler RF: Vascular problems in skull base surgery. Modern management. The 18th Annual Neurosurgery Postgraduate Course. San Francisco, CA, December 3, 1993.

### **Presented in 1992:**

Spetzler RF: Combined approach (tumors of the skull base round table). French Society of Neurosurgery. Chamonix, France, January 21, 1992.

Spetzler RF: Surgery of giant aneurysms (problems on vascular neurosurgery round table). French Society of Neurosurgery. Chamonix, France, January 23, 1992.

Spetzler RF: American experience in the treatment of intracranial aneurysms. French Society of Neurosurgery. Chamonix, France, January 24, 1992.

Spetzler RF: Combined approach to CP angle and clivus. UCLA Cranial Base Surgery Workshop. Los Angeles, CA, January 30, 1992.

Spetzler RF (panelist): Cerebellopontine angle surgery round table. UCLA Cranial Base Surgery Workshop. Los Angeles, CA, January 30, 1992.

Spetzler RF: Far lateral approach to anterior foramen magnum tumors. UCLA Cranial Base Surgery Workshop. Los Angeles, CA, January 31, 1992.

Spetzler RF: Natural history and management of cavernous malformations. XVII International Joint Conference on Stroke and Cerebral Circulation. Phoenix, AZ, February 1, 1992.

Spetzler RF: Vascular malformation of brain. Cleveland Clinic Foundation. Cleveland, OH, February 7-8, 1992.

Spetzler RF: Management of brain tumor: Clinical and surgical techniques. Cook County Graduate Course. Chicago, IL, February 9, 1992.

Spetzler RF (panel moderator): Results of invasive evaluations and surgery on internal carotid arteries. North American Skull Base Society Meeting. Acapulco, Mexico, February 16-18, 1992.

Spetzler RF (panel moderator): Far lateral approach to the anterior clivus and the upper cervical region. North American Skull Base Society Meeting. Acapulco, Mexico, February 16-18, 1992.

Spetzler RF (panel moderator): Combined approach for lesions involving the cerebellopontine angle and skull base: Experience with 30 cases. North American Skull Base Society Meeting. Acapulco, Mexico, February 16-18, 1992.

Spetzler RF (panel moderator): Reconstruction of ICA. North American Skull Base Society Meeting. Acapulco, Mexico, February 16-18, 1992.

Spetzler RF: Complex basilar artery aneurysm treated under cardiac standstill. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Dilemma of intraoperative ruptured basilar artery aneurysm. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Symptomatic dolichoectatic vertebral artery. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Classification of vascular malformations. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Management of symptomatic carotid artery occlusion. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Management of anterior cervical intra-medullary arteriovenous malformations. Japanese Conference on Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Cavernous malformations of the brain stem. Japanese Conference on

Surgery for Cerebral Stroke. Nagoya, Japan, March 3-4, 1992.

Spetzler RF: Combined approach for clivus tumors. Korean Society for Cerebrovascular Disease. Seoul, Korea, March 6-7, 1992.

Spetzler RF: Cardiac standstill for complex aneurysms. Korean Society for Cerebrovascular Disease. Seoul, Korea, March 6-7, 1992.

Spetzler RF: Management of giant aneurysms. Korean Society for Cerebrovascular Disease. Seoul, Korea, March 6-7, 1992.

Spetzler RF: Sixth Annual Magnetic Resonance Imaging Conference, Barrow Neurological Institute. Phoenix, AZ, March 7-11, 1992.

Spetzler RF: Spinal AVM. Recent advances in neurology and neurosurgery. 19th Annual Symposium, Barrow Neurological Institute. Phoenix, AZ, March 12-14, 1992.

Spetzler RF (panelist): Incidental vascular lesions, judgments, techniques, and special aspects of management. 60th Annual Meeting, American Association of Neurological Surgeons. San Francisco, CA, April 11-16, 1992.

Spetzler RF (panelist): Technical refinements in the surgery of vascular lesions of the posterior circulation. 60th Annual Meeting, American Association of Neurological Surgeons. San Francisco, CA, April 11-16, 1992.

Spetzler RF (panelist): Vertebrobasilar aneurysms. 60th Annual Meeting, American Association of Neurological Surgeons. San Francisco, CA, April 11-16, 1992.

Spetzler RF (panelist): Problems and management of occipital/parietal AVMs. 60th Annual Meeting, American Association of Neurological Surgeons. San Francisco, CA, April 11-16, 1992.

Spetzler RF: Practical course on techniques in aneurysm surgery. 60th Annual Meeting, American Association of Neurological Surgeons. San Francisco, CA, April 11-16, 1992.

Spetzler RF (visiting professor): Combined approach for clival tumors. University of Virginia Health Sciences Center. Charlottesville, VA, May 14-16, 1992.

Spetzler RF: Development of departmental organization and leadership. The Society of Neurological Surgeons, 83rd Meeting in the 72nd Year. Louisville, KY, May 17-20, 1992.

Spetzler RF: Extirpation of arteriovenous malformations: A preventable cause of stroke. 11th Mayfield Lecturer at Neuroscience Symposium. Cincinnati, OH, May 28-29, 1992.

Spetzler RF: 3-D videotape review and discussion - advanced neurosurgical techniques in cerebrovascular disease. 11th Mayfield Lecturer at Neuroscience Symposium. Cincinnati, OH, May 28-29, 1992.

Spetzler RF: Intracisternal therapy with tissue plasminogen activator for the prevention of vasospasm in patients with aneurysmal subarachnoid hemorrhage. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Acute medical and surgical management of severely ill patients. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: EC-IC bypass: Current role in giant aneurysms. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Classification of cerebral AVMs. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Management of high flow AVMs. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Staged occlusions of giant AVMs. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Management of brain stem cavernous malformations. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Management of venous angiomas. New Trends in Management of Cerebro-Vascular Malformations. Verona, Italy June 8-12, 1992.

Spetzler RF: Far lateral approach. First International Skull Base Congress. Hanover, West Germany, June 14-20, 1992.

Spetzler RF: Vessel reconstruction in skull base surgery. First International Skull Base Congress. Hanover, West Germany, June 14-20, 1992.

Spetzler RF: Combined supra and infratentorial approach for lesions of the petrous and clival regions. Kasdon Neurosurgical Research Forum. Camp Denali, Alaska. July 20-24, 1992.

Spetzler RF: Vascular malformations: Classifications and treatment. Kasdon Neurosurgical Research Forum. Camp Denali, Alaska. July 20-24, 1992.

Spetzler RF (visiting professor): Surgery and classification of high flow cerebral lesions. Indiana University. Indianapolis, IN, September 18-19, 1992

Spetzler RF: Surgery and classification of high flow cerebral lesions. Western Neurosurgical Society Meeting. Whistler, BC, September 20-23, 1992.

Spetzler RF: Neurovascular surgical advances in the treatment of stroke. 13th Annual Current Concepts in Critical Care Medicine. Scottsdale, AZ, September 26, 1992.

Johnson BA, Drayer BP, Wascher TM, Zabramski JM, Spetzler RF: The variable and dynamic MRI appearance of cavernous malformations. Western Neuroradiological Society. San Francisco, CA, October 1992.

Spetzler RF: Giant AVMs. XXV Congress Latino Americano de Neurocirurgia. La Paz, Bolivia, October 4-9, 1992.

Spetzler RF: Techniques in aneurysm surgery. Congress of Neurological Surgeons. Washington, DC, October 31-November 5, 1992.

Spetzler RF: Management of arteriovenous malformations. Microsurgery versus radiosurgery. Congress of Neurological Surgeons. Washington, DC, October 31-November 5, 1992.

Spetzler RF: Use of frameless stereotactic navigational device during resection of skull base lesions. Congress of Neurological Surgeons. Washington, DC, October 31-November 5, 1992.

Spetzler RF: Cerebral vascularization before, during, or after surgery. Congress of Neurological Surgeons. Washington, DC, October 31-November 5, 1992.

Spetzler RF: Intracranial vertebral endarterectomy via the far lateral approach. Congress of Neurological Surgeons. Washington, DC, October 31-November 5, 1992.

Spetzler RF: Transoral approach to the upper cervical spine. 5th Annual Spine Workshop, Barrow Neurological Institute. Scottsdale, AZ, November 15-17, 1992.

Spetzler RF: Transoral approach. 5th Annual Spine Workshop, Barrow Neurological Institute. Scottsdale, AZ, November 15-17, 1992.

Spetzler RF (visiting professor): Spinal arteriovenous malformations. Their diagnosis and treatment. The University of Chicago. Chicago, IL, November 18-20, 1992.

#### **Presented in 1991:**

Spetzler RF: Classification of vascular malformations. Part I & II. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 3, 1991.

Spetzler RF: The far lateral approach to the anterior clivus and the upper cervical region. North American Skull Base Society. Lake Buena Vista, FL, March 1, 1991.

Spetzler RF: Combined approach for lesions involving the cerebellopontine angle and skull base: Experience with 30 cases. North American Skull Base Society. Lake Buena Vista, FL, March 2, 1991.

Spetzler RF (panelist): Reconstruction after cranial base surgery. Reconstruction of ICA. North American Skull Base Society. Lake Buena Vista, FL, March 3, 1991.

Spetzler RF: Clinical aspects of intracranial aneurysms. 5th Annual Barrow Neurological Institute Magnetic Resonance Imaging Conference. Phoenix, AZ, March 19, 1991.

Spetzler RF: Classification of vascular malformations. 18th Annual Barrow Neurological Institute Symposium. Recent Advances in Neurology and Neurosurgery. Phoenix, AZ, May 21, 1991.

Spetzler RF: 3D video microsurgical workshop. 18th Annual Barrow Neurological Institute Symposium. Recent Advances in Neurology and Neurosurgery. Phoenix, AZ, May 21, 1991.

Spetzler RF (chairman): Dynamics of cerebral circulation in AVM. 9th European Congress

on Neurosurgery. Moscow, USSR, June 24, 1991.

Spetzler RF, Zimmerman RS, Lee KS, Zabramski JM, Hargraves RW: Cavernous malformations of the brain stem. 9th European Congress on Neurosurgery. Moscow, USSR, June 24, 1991.

Zabramski JM, Spetzler RF, Lee KS, Papadopoulos SM: Phase I trial of tissue plasminogen activator for the prevention of vasospasm in patients with aneurysmal subarachnoid hemorrhage. 9th European Congress on Neurosurgery. Moscow, USSR, June 24, 1991.

Spetzler RF (visiting professor): State University of New York, Buffalo, NY, July 18, 1991.

Spetzler RF: Relationship of AVM size to risk of rupture. Neurosurgical Research Forum 7th Annual Meeting. Newport, RI, July 23, 1991.

Spetzler RF: Three-dimensional video imaging of microsurgical carotid endarterectomy and spinal cord AVM surgery. Congress of Neurological Surgeons. Orlando, FL, October 1991.

Spetzler RF: Oral board exams. Houston, TX, November 1991.

Spetzler RF: 4th Annual Spine Workshop, Barrow Neurological Institute. Phoenix, AZ, November 14-16, 1991.

Spetzler RF: Mt. Fuji Workshop on Cerebrovascular Disease. Maui, HI, November 23-26, 1991.

#### **Presented in 1990:**

Spetzler RF: Petrosectomy for clivus meningioma. Cranial Base Surgery Workshop. The UCLA Neurosurgery Skull Base Program. Los Angeles, CA, January 18, 1990.

Spetzler RF: Skull base procedure. Cranial Base Surgery Workshop. The UCLA Neurosurgery Skull Base Program. Los Angeles, CA, January 18, 1990.

Grahm TW, Spetzler RF: Transcranial Doppler and aneurysmal subarachnoid hemorrhage. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 4, 1990.

Zabramski JM, Zimmerman RS, Hargraves R, Spetzler RF, Culicchia F: Cardiac standstill and hypothermia—An evaluation of time and temperature. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 4, 1990.

Spetzler RF, Zabramski JM: Cardiac standstill in primates and homo sapiens. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 4, 1990.

Zimmerman RS, Spetzler RF: Surgery for cavernous malformations of the brain stem. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 7, 1990.

Spetzler RF: Combined approach for lesions involving the clivus and CPA—Experience

with 23 cases. North American Skull Base Society. Los Angeles, CA, February 20, 1990.

Spetzler RF: Transoral approach to the odontoid. 7th Saudi Annual Neurosciences Symposium. Riyadh, Saudi Arabia, February 11, 1990.

Spetzler RF: Spinal cord arteriovenous malformations. 7th Saudi Annual Neurosciences Symposium. Riyadh, Saudi Arabia, February 12, 1990.

Spetzler RF: Transcallosal approach to tumor excision. 17th Annual Barrow Neurological Institute Symposium. Recent Advances in Neurology and Neurosurgery. Phoenix, AZ, March 9, 1990.

Spetzler RF, Heros RC, Samson DS (faculty): Surgical approaches for intracranial aneurysms. The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, April 29, 1990.

Barrow DL, Fox AJ, Spetzler RF (panelist): Dural AVMs. The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, April 30, 1990.

Spetzler RF, Dasplit CP, Pappas CTE: Combined approach for lesions involving the clivus and cerebellopontine angle: Experience with 23 Cases. The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, April 30, 1990.

Rigamonti D, Martin N, Spetzler RF (panelist): Occult vascular malformations. The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, May 2, 1990.

Lee KS, Spetzler RF: Surgical management of cavernous malformations of the brain stem (poster presentation). The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, May 3, 1990.

Zimmerman RS, Hargraves RW, Zabramski JM, Spetzler RF: Cardiac standstill and hypothermia: An evaluation of time and temperature (poster presentation). The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, May 3, 1990.

Hargraves RW, Zimmerman RS, Zabramski JM, Grahm TW, Spetzler RF: SAH in patients over 60 years of age (poster presentation). The 58th Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN, May 3, 1990.

Spetzler RF: Complex giant basilar artery aneurysms treated under cardiac standstill. International Symposium on Processes of the Cranial Midline. Vienna, Austria, May 21, 1990.

Spetzler RF: Management of brain stem cavernomas and their association with venous malformations. International Symposium on Processes of the Cranial Midline. Vienna, Austria, May 22, 1990.

Puca A, Spetzler RF, Zabramski JM, Culicchia F: Hypothermic circulatory arrest: A useful adjunct in the treatment of basilar artery aneurysm. Experimental study. International Symposium on Processes of the Cranial Midline. Vienna, Austria, May 23, 1990.

Spetzler RF, Dasplit CP, Pappas CTE: Combined approach for lesions involving the clivus and cerebellopontine angle: Experience with 23 Cases. International Symposium of Processes of the Cranial Midline. Vienna, Austria, May 25, 1990.

Spetzler RF, Grahm TW: Far-lateral approach to the inferior clivus and the upper cervical region. International Symposium of Processes of the Cranial Midline. Vienna, Austria, May 25, 1990.

Spetzler RF, Sonntag VKH: The transoral approach to the odontoid region. International Symposium of Processes of the Cranial Midline. Vienna, Austria, May 25, 1990.

Zimmerman RS, Spetzler RF: Microsurgery of cavernous malformations of the brain stem. 10th International Symposium on Microsurgery for Cerebral Ischemia. San Francisco, CA, July 14, 1990.

Spetzler RF: Special Conference. Society of Neurological Surgery of Western AC. 60th Congress. Puerto Vallarta, August 4, 1990.

Spetzler RF: Cerebral bypass: Complicated and unique problems of management. 1990 Annual Kasdon Neurosurgical Research Forum. Westwater Canyon and Telluride, CO, August 11, 1990.

Spetzler RF: Subtemporal approach to the region of the basilar artery: Anatomical and surgical aspects. 18th Brazilian Congress of Neurosurgery. 5th Brazilian Congress of Functional Neurosurgery. Porto Alegre, Brazil, September 9, 1990.

Spetzler RF: Supra- and infratentorial approach to the petroclival region. 18th Brazilian Congress of Neurosurgery. 5th Brazilian Congress of Functional Neurosurgery. Porto Alegre, Brazil, September 9, 1990.

Spetzler RF: Transoral approach to the odontoid. 18th Brazilian Congress of Neurosurgery. 5th Brazilian Congress of Functional Neurosurgery. Porto Alegre, Brazil, September 10, 1990.

Spetzler RF, Alves A: Cerebral protection. 18th Brazilian Congress of Neurosurgery. 5th Brazilian Congress of Functional Neurosurgery. Porto Alegre, Brazil, September 11, 1990.

Spetzler RF: Giant aneurysms of the posterior circulation: Technical and surgical aspects. 18th Brazilian Congress of Neurosurgery. 5th Brazilian Congress of Functional Neurosurgery. Porto Alegre, Brazil, September 12, 1990.

Spetzler RF: Intraoperative monitoring with transcranial Doppler versus EEG monitoring. 63rd Annual Clinical Assembly of Osteopathic Subspecialists. Los Angeles, CA, October 30, 1990.

Spetzler RF: Transcranial bypass at the Barrow Neurological Institute. 63rd Annual Clinical Assembly of Osteopathic Subspecialists. Los Angeles, CA, October 30, 1990.

Spetzler RF (lecturer): Combined approach for skull base lesions. 1990 J. Garber Galbraith. Neurosurgical Society. Birmingham, AL, November 16, 1990.

Spetzler RF (faculty): Spinal arteriovenous malformations. J. Garber Galbraith

Neurosurgical Society. Birmingham, AL, November 16, 1990.

Spetzler RF: Classification of vascular malformations. Surgical Grand Rounds Lecture. Birmingham, AL, November 17, 1990.

**Presented in 1989:**

Raudzens P, Matthews M, Spetzler R: Transcranial Doppler monitoring of MCA velocity during carotid endarterectomy compared with EEG and SSEP. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 5, 1989.

Spetzler RF: Tumors of the clivus. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 7, 1989.

Carter LP, Dickman C, Spetzler RF: ICP–CBF monitoring in head trauma. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 8, 1989.

Culicchia F, Zabramski JM, Spetzler RF: Electroconvulsive somatosensory responses predict outcome from focal cerebral ischemia: Results in a reliable new primate model of stroke. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 10, 1989.

Zabramski JM, Culicchia F, Spetzler RF: Hypervolemic hemodilution improves outcome in a primate model of focal cerebral ischemia. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 10, 1989.

Spetzler RF: Vertebral artery aneurysms. International Symposium on Intracranial Aneurysms. Omaha, NE, March 31, 1989.

Spetzler RF (moderator): Spinal AVMs. The Annual Meeting of the American Association of Neurological Surgeons. Washington, DC, April 3, 1989.

Bailes JE, Spetzler RF, Hadley MN, Baldwin HZ, Zabramski JM (panelists): Management morbidity and mortality of Hunt and Hess grades IV and V aneurysm patients. The Annual Meeting of the American Association of Neurological Surgeons. Washington, DC, April 4, 1989.

Fitzpatrick BC, Johnson PC, Drayer BP, Spetzler RF (panelists): Correlation of postmortem magnetic resonance images and neuropathological findings in 23 patients with gliomas. The Annual Meeting of the American Association of Neurological Surgeons. Washington, DC, April 4, 1989.

Carter LP, Grahm TM, Zabramski JM, Lopez LJ, Tallman DH, Spetzler RF: Postoperative monitoring of cerebral blood flow in patients with intracranial aneurysms (poster session). The Annual Meeting of the American Association of Neurological Surgeons. Washington, DC, April 6, 1989.

Guthkelch AN, Carter LP, Iacono RP, Shetter A, Spetzler RF, Cassady JR, Cetas TC, Rossmann K, Lulu B, Lutz W, Shimm D, Stea B, Obbens E, Hodak J: A phase I trial of ferromagnetic induction hyperthermia combined with brachytherapy for high-grade cerebral astrocytomas (poster session). The Annual Meeting of the American Association of Neurological Surgeons. Washington, DC, April 6, 1989.

Spetzler RF: Surgical treatment of masses at the base of the skull. 41st Annual Meeting of the American Academy of Neurology. Chicago, IL, April 13-19, 1989.

Spetzler RF: Classification of vascular lesions. Kasdon Neurological Research Forum. Sedona, AZ, April 22-24, 1989.

Spetzler RF, Zabramski JM: Hypothermic arrest with barbiturate coma in a primate model. Neurosurgical Satellite: Surgical Research Society (British Isles). Windsor, England, June 15, 1989.

Zabramski JM, Spetzler RF: New model of temporary focal ischemia in the primate: Experience with hemodilution and NMDA/receptor antagonist. Neurosurgical Satellite: Surgical Research Society (British Isles). Windsor, England, June 15, 1989.

Spetzler RF: Surgical approach to the third ventricle and its surrounding lesions. 48th Annual Meeting of the Japan Neurosurgical Society. Morioka City, Japan, September 27, 1989.

Spetzler RF: Approaches to the third ventricle— anterior and posterior. 48th Annual Meeting of the Japan Neurosurgical Society. Morioka City, Japan, September 27, 1989.

Spetzler RF: Intravascular neurosurgery. 48th Annual Meeting of the Japan Neurosurgical Society. Morioka City, Japan, September 27, 1989.

Spetzler RF: Treatment of deep seated arteriovenous malformations. 48th Annual Meeting of the Japan Neurosurgical Society. Morioka City, Japan, September 27, 1989.

Spetzler RF: Treatment of hardly manageable AVM. 48th Annual Meeting of the Japan Neurosurgical Society. Morioka City, Japan, September 29, 1989.

Spetzler RF: Spinal cord AVMs. Ramathibodi Hospital. Bangkok, Thailand, October 4, 1989.

Spetzler RF: Cerebral AVMs. Siriraj Hospital. Bangkok, Thailand, October 6, 1989.

Spetzler RF: Transcranial Doppler sonography in cerebral vasospasm. 9th International Congress of Neurological Surgery. New Delhi, India, October 9, 1989.

Spetzler RF: Management of giant AVMs. 9th International Congress of Neurological Surgery. New Delhi, India, October 9, 1989.

Spetzler RF: EEG monitored brain protection and intraoperative angiography. 9th International Congress of Neurological Surgery. New Delhi, India, October 10, 1989.

Spetzler RF: Incidental deep seated arteriovenous malformations. 9th International Congress of Neurological Surgery. New Delhi, India, October 10, 1989.

Spetzler RF (chairperson): Trends in management of AVMs. 9th International Congress of Neurological Surgery. New Delhi, India, October 11, 1989.

Spetzler RF: The surgical challenge. 9th International Congress of Neurological Surgery.

New Delhi, India, October 11, 1989.

Spetzler RF (panel discussion): Cardiac standstill for complex basilar artery aneurysm. International Symposium on Vascular Lesions of the Brain (A Satellite Conference of the 9th ICNS). Trivandrum, India, October 15, 1989.

Spetzler RF, Zabramski JM: Vascular malformations of the brain: An overview (keynote address). International Symposium on Vascular Lesions of the Brain (A Satellite Conference of the 9th ICNS). Trivandrum, India, October 16, 1989.

Spetzler RF: Normal perfusion pressure breakthrough syndrome: Recent concepts. International Symposium on Vascular Lesions on the Brain (A Satellite Conference of the 9th ICNS). Trivandrum, India, October 16, 1989.

### **Presented in 1988:**

Spetzler RF: Tumors of the tentorial incisura. 14th Annual Richard Lende Winter Neurosurgery Conference, Cliff Conference Center. Snowbird, UT, January 30–February 6, 1988.

Spetzler RF: Surgical management of spinal AVMs. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons. Phoenix, AZ, February 16-20, 1988.

Rigamonti D, Uede T, Johnson PC, Bojanowski WM, Michaels KT, Carter LP, Spetzler RF: Cerebral embolic infarction: BNI model (poster presentation). 13th International Joint Conference on Stroke and Cerebral Circulation. San Diego, CA, February 18-20, 1988.

Hadley MN, Spetzler RF, Zabramski JM: Efficacy of IV nimodipine in the treatment of focal cerebral ischemia in a primate model. Workshop: Preclinical studies with nimodipine. Rye Brook, NY, March 1-9, 1988.

Spetzler RF: Classification of AVMs and management of giant AVMs. 10th South African International Neurosurgical Congress. Johannesburg, South Africa, March 21-23, 1988.

Spetzler RF: Cardiac standstill for complex basilar artery aneurysms. 10th South African International Neurosurgical Congress. Johannesburg, South Africa, March 21-23, 1988.

Spetzler RF: Spinal AVMs. 10th South African International Neurosurgical Congress. Johannesburg, South Africa, March 21-23, 1988.

Spetzler RF: Extra and intracranial management of basilar artery ischemia. 10th South African International Neurosurgical Congress. Johannesburg, South Africa, March 21-23, 1988.

Zabramski JM, Spetzler RF: Why classify arteriovenous malformations? III International Symposium and Workshop on Microsurgery. Caracas, Venezuela, March 22, 1988.

Spetzler RF (guest professor): Spinal cord AVMs. A new perspective. The Dana Foundation Visiting Professor, College of Physicians & Surgeons of Columbia University. New York, NY, May 19, 1988.

Rigamonti D, Spetzler RF, Drayer BP, Johnson PC, Hoenig-Rigamonti K: Cerebral cavernous malformations (angiomas) and stroke. AAN Scientific Program, 40th Annual Meeting of the Academy of Neurology. Cincinnati, OH, April 13-17, 1988.

Rigamonti D, Spetzler RF, Drayer BP, Rigamonti KH, Medina M: Cerebral venous malformations (angiomas). AAN Scientific Program, 40th Annual Meeting of the Academy of Neurology. Cincinnati, OH, April 13-17, 1988.

Rigamonti D, Spetzler RF, Hoenig-Rigamonti D, Medina M, Elsner HJ: Venous malformations: Their association with cavernous malformations. 1988 Annual Meeting, American Association of Neurological Surgeons. Toronto, Ontario, April 24-28, 1988.

Grahm TW, Williams FC, Harrington T, Spetzler RF: Civilian gunshot wounds to the head: A prospective study. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Bailes JE, Spetzler RF: Management of occluded internal carotid arteries. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Baldwin HZ, Hadley MN, Zabramski JM, Spetzler RF, Carter LP: Posterior circulation aneurysms: Management and outcome. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Spetzler RF: Management of spinal cord arteriovenous malformations. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Zabramski JM, Spetzler RF et al: Hypervolemic hemodilution in the treatment of acute stroke: Results of the pentastarch study. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Hadley MN, Zabramski JM, Spetzler RF, Rigamonti D, Fifield MS, Johnson PC: Intravenous nimodipine in the treatment of focal cerebral ischemia. 23rd Annual Meeting, Rocky Mountain Neurosurgical Society. Lake Tahoe, NV, June 12-16, 1988.

Spetzler RF (moderator): Acute cerebral ischemia. Microsurgery for cerebral ischemia. 9th International Symposium. Detroit, MI, July 7, 1988.

Spetzler R, Yashimoto L, Auer L, et al: Session one (round table). Microsurgery for cerebral ischemia. 9th International Symposium. Detroit, MI, July 7, 1988.

Caplan L, Ausman J, Robertson J, Spetzler R, George B: Session two (round table). Microsurgery for cerebral ischemia. 9th International Symposium. Detroit, MI, July 7, 1988.

Ausman J, Schmiedek P, Caplan L, Spetzler R, Walker M, Tilley B: Session two (round table). Discussion and plans for future studies. Microsurgery for cerebral ischemia. 9th International Symposium. Detroit, MI, July 8, 1988.

Spetzler RF: Management of giant arteriovenous malformations. 34th Annual Meeting of the Western Neurosurgical Society. Laguna Niguel, CA, September 12, 1988.

Awad IA, Spetzler RF, Hodak JA: Magnetic resonance imaging in minor brain ischemia. 4th Toronto Stroke Workshop. Toronto, Ontario, September 14-16, 1988.

Spetzler RF: Will the carotid endarterectomy trials settle the main issues? No. 1st International Guillain-Barre Syndrome Symposium, American Neurological Association. Philadelphia, PA, October 5, 1988.

Spetzler RF: EEG monitored brain protection and intraoperative angiography. 9th International Congress of Neurological Surgery. Delhi, India, October 8-13, 1988.

Spetzler RF, Sonntag VKH: Transoral approach. 1st Annual Spine Workshop. Phoenix, AZ, November 10-12, 1988.

Awad IA, Spetzler RF, Johnson PC: Chronic cerebrovascular disease: The impact of age and vascular risk factors on brain parenchyma. Washington, DC, November 14-17, 1988.

Spetzler RF: Surgery for vertebrobasilar ischemia. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Spetzler RF: Neurovascular perioperative care. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Spetzler RF: Vertebrobasilar aneurysms. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Spetzler RF: Large convexity AVM's. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Spetzler RF: Spinal AVM's. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Spetzler RF (panelist): Aneurysms and AVM's. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

Onofrio B, Long D, Ackerman R, Spetzler RF (panelists): Benign tumors and cerebrovascular surgery. Postgraduate Course Neurosurgery Update, Harvard Medical School. Boston, MA, November 15, 1988.

#### **Presented in 1987:**

Spetzler RF: Treatment of spinal arteriovenous malformations. Joint Section on Spinal Disorders AANS/CNS. Boca Raton, FL, January 17, 1987.

Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA: The effect of nimodipine on intracranial pressure and cerebral perfusion pressure. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 31-February 7, 1987.

Hadley MN, Spetzler RF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC: Transoral dural closure techniques. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 31-February 17, 1987.

Spetzler RF: Base of the skull tumors—surgical approaches. Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 31-February 7, 1987.

Spetzler RF: Introduction. 1st Annual Barrow Neurological Institute "Magnetic Resonance Imaging Conference," Phoenix, AZ, February 22, 1987.

Spetzler RF: Vascular malformations, Clinical. 1st Annual Barrow Neurological Institute "Magnetic Resonance Imaging Conference," Phoenix, AZ, February 22, 1987.

Spetzler RF: Aneurysm and AVM. 14th Annual Symposium, Barrow Neurological Institute "Neurology & Neurosurgery of the Aging," Phoenix, AZ, February 26, 1987.

Awad IA, Spetzler RF, Johnson PC: "Unidentified bright objects" on magnetic resonance imaging of the brain. 12th International Joint Conference on Stroke and Cerebral Circulation. Tampa, FL, February 26-28, 1987.

Spetzler RF (moderator): 14th Annual Symposium, Barrow Neurological Institute "Neurology & Neurosurgery of the Aging," Phoenix, AZ, February 27, 1987.

Spetzler RF: Cardiac arrest for giant basilar artery aneurysms. Winter Conference in the Bugaboos. Banff, Alberta, Canada, March 7, 1987.

Hadley MN, Spetzler RF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC: Comparative transoral dural closure techniques: A canine model. Federation of Western Societies of Neurological Science. San Diego, CA, March 29-April 1, 1987.

Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA: The effect of nimodipine on intracranial pressure: Volume-pressure studies in a primate model. Federation Western Societies of Neurological Science. San Diego, CA, March 29-April 1, 1987.

Spetzler RF: Pathophysiology and treatment of spinal arteriovenous malformations. Grand Rounds, University of Nebraska Medical Center. Omaha, NE, April 15, 1987.

Spetzler RF: Transoral approach to the cervicomedullary junction. Keegan Lecture, University of Nebraska Medical Center. Omaha, NE, April 15, 1987.

Spetzler RF: Normal Perfusion pressure breakthrough. 7th Annual Meeting of the Japanese Congress of Neurological Surgeons. Sapporo, Japan, May 14, 1987.

Spetzler RF: Indications of bypass surgery. 7th Annual Meeting of the Japanese Congress of Neurological Surgeons. Sapporo, Japan, May 15, 1987.

Spetzler RF: Transoral approach to the skull base lesions. 7th Annual Meeting of the Japanese Congress of Neurological Surgeons. Sapporo, Japan, May 16, 1987.

Spetzler RF: Removal of intramedullary AVM in cervicomedullary junction. Video presentation. International Symposium on Surgery for Cerebral Stroke. Sendai, Japan, May 25, 1987.

Spetzler RF: Extracranial/intracranial bypass for cerebral revascularization. Round table discussion—Bypass surgery. International Symposium on Surgery for Cerebral Stroke.

Sendai, Japan, May 25, 1987.

Spetzler RF: Overview of cerebral ischemia: Rationale for cerebral protection. Round table discussion—Scientific basis for cerebral infarction. International Symposium on Surgery for Cerebral Stroke. Sendai, Japan, May 25, 1987.

Spetzler RF: Operative selection of patients with arteriovenous malformations. Round table discussion—Surgical treatment of deep seated or large AVM. International Symposium on Surgery for Cerebral Stroke. Sendai, Japan, May 27, 1987.

Spetzler RF: Cerebral revascularization. Round table discussion—Revascularization in the acute stage of cerebral infarction. International Symposium on Surgery for Cerebral Stroke. Sendai, Japan, May 27, 1987.

Spetzler RF (discussant): Surgical neuroangiography: Past, present, and future by Flom RA. 1987 Annual Meeting, The Arizona Medical Association, Inc. Phoenix, AZ, June 4, 1987.

Rigamonti D, Johnson PC, Drayer BP, Spetzler RF: Cavernous malformation and capillary telangiectases: Two facets of the same pathological entity. Annual Meeting of the American Association of Neuropathologists. Seattle, WA, June 13, 1987.

Rigamonti D, Pappas C, Bojanowski M, Medina M, Liu SS, Johnson PC, Sonntag VKH, Spetzler RF: Hemangioblastomas. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA: The effect of nimodipine on intracranial pressure: Volume pressure studies in a primate model. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Liu SS, Spetzler RF, Medina M, Johnson PC, Hadley MN: Primary lymphomas. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Williams FC, Awad IA, Spetzler RF, Carter LP: Early surgery for midline aneurysms. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Rigamonti D, Drayer BP, Johnson PC, Spetzler RF: Cavernous malformations. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Hadley MN, Spetzler RF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC: Comparative transoral dural closure techniques: A canine model. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society. Deer Valley, UT, June 21-25, 1987.

Rigamonti D, Rekate H, Pittman H, Spetzler RF: Cavernous malformations (angiomas) in children. 1987 Annual Meeting of The International Society for Paediatric Neurosurgery. New York, NY, July 12-16, 1987.

Spetzler RF, Hadley MN, Sonntag VKH: The transoral approach to the anterior superior

cervical spine: A review of 26 cases. 8th European Congress of Neurosurgery. Barcelona, Spain, September 6-11, 1987.

Spetzler RF, Hadley MN, Rigamonti D: Complex aneurysms of the basilar artery treated with circulatory arrest, hypothermia, and barbiturate cerebral protection. 8th European Congress of Neurosurgery. Barcelona, Spain, September 6-11, 1987.

Spetzler RF, Martin NA, Carter LP, Flom RA, Raudzens PA, Wilkinson E: Surgical management of large AVMs by staged embolization and operative excision. 8th European Congress of Neurosurgery. Barcelona, Spain, September 6-11, 1987.

Spetzler RF: Intradural pathology. Transoral approach to the skull base. Seminar 8th European Congress of Neurosurgery. Barcelona, Spain, September 6-11, 1987.

Spetzler RF (guest speaker): Cerebral angiomas—classification and surgery. Neurochirurgische Klinik, Der Universitat Erlangen-Nurnberg. Erlangen, West Germany. September 17, 1987.

Spetzler RF: Symposium: Therapeutic options in intracranial arteriovenous malformations. 1987 Annual Meeting Western Neuroradiological Society. Scottsdale, AZ, October 10, 1987.

Spetzler RF: Transoral approach to ventral extradural cervicomedullary junction pathology. Congress of Neurological Surgeons. Baltimore, MD, October 25, 1987.

Spetzler RF: The future of carotid endarterectomy for symptomatic occlusive disease. Congress of Neurological Surgeons. Baltimore, MD, October 25, 1987.

Spetzler RF: Role of hemodynamic monitoring in the neurosurgical ICU. Congress of Neurological Surgeons. Baltimore, MD, October 26, 1987.

Spetzler RF: Neurosurgical subspecialization: To fellowship or not to fellowship. Congress of Neurological Surgeons. Baltimore, MD, October 27, 1987.

Spetzler RF: Approaches to the anterior third ventricle. Congress of Neurological Surgeons. Baltimore, MD, October 28, 1987.

Spetzler RF (guest lecturer): The transoral approach for the craniocervical junction. Toronto Neurological Society. The E. Harry Botterell Visiting Lecturer in Neurosurgery. November 17, 1987.

Spetzler RF (round table discussant): Timing of aneurysm surgery—does it really make a difference? Toronto Neurological Society. The E. Harry Botterell Visiting Lecturer in Neurosurgery. November 17, 1987.

Spetzler RF: Management and classification of AVM's. Royal College Lecture, Toronto Neurological Society. The E. Harry Botterell Visiting Lecturer in Neurosurgery. November 17, 1987.

Rigamonti D, Spetzler RF: Cerebral venous malformations in children. 16th Winter Meeting of the Pediatric Section of the American Association of Neurological Surgeons. Chicago, IL, December 8-11, 1987.

Rigamonti D, Rekate HA, Spetzler RF, Hoenig-Rigamonti K, Medina MK, Epstein MA: Cerebral venous malformations in children. 16th Winter Meeting of the Pediatric Section of the American Association of Neurological Surgeons. Chicago, IL, December 8-11, 1987.

**Presented in 1986:**

Spetzler RF: A new classification for AVMs. 12th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 2, 1986.

Spetzler RF: Giant arteriovenous malformations. 12th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 2, 1986.

Spetzler RF: Hemodilution in vasospasm. 11th International Joint Conference on Stroke and Cerebral Circulation. San Francisco, CA, February 6, 1986.

Carter LP, Medina M, Williams F, Spetzler RF: Hypervolemic hemodilution therapy in the management of intracranial aneurysms. 11th International Joint Conference on Stroke and Cerebral Circulation. San Francisco, CA, February 8, 1986.

Spetzler RF: Approaches to the base of the skull. Midas Rex Neurosurgical Symposium. Scottsdale, AZ, February 25, 1986.

Spetzler RF (moderator): Current issues in neurology and neurosurgery. 13th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 27, 1986.

Carter LP, Spetzler RF: Research in cerebrovascular disease. 13th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 28, 1986.

Spetzler RF, Carter LP: Surgical intervention in cerebrovascular disease. 13th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 28, 1986.

Awad IA, Spetzler RF, Johnson PC, Hodak JA, Carey R: Incidental lesions noted on magnetic resonance imaging of the brain—an index of chronic cerebrovascular disease. The Research Society of Neurological Surgeons. Phoenix, AZ, March 6, 1986.

Hadley MN, Martin NA, Spetzler RF: The transoral approach to the brain stem, Clinical and experimental considerations. The Research Society of Neurological Surgeons. Phoenix, AZ, March 5, 1986.

Spetzler RF: Transoral approach to the upper cervical spine and clivus. The 3rd Biennial American-European Neurosurgical Winter Conference. Davos, Switzerland, March 11, 1986.

Spetzler RF: AVM classification. The 3rd Biennial American-European Neurosurgical Winter Conference. Davos, Switzerland, March 13, 1986.

Spetzler RF: Management of giant AVMs. The 3rd Biennial American-European Neurosurgical Winter Conference. Obergurgl, Austria, March 17, 1986.

Spetzler RF: Management of CSF leaks. The 3rd Biennial American-European

Neurosurgical Winter Conference. Obergurgl, Austria, March 18, 1986.

Spetzler RF (visiting professor): Grading of arteriovenous malformations. Sapporo Medical College. Sapporo, Japan, April 1, 1986.

Spetzler RF (visiting professor): Management of giant arteriovenous malformations. Sapporo Medical College. Sapporo, Japan, April 1, 1986.

Spetzler RF: Extra-intracranial arterial bypass in the management of giant internal carotid aneurysms. 1st International Workshop on Intracranial Aneurysms. Tokyo, Japan, April 4, 1986.

Spetzler RF: Giant basilar aneurysms managed under circulatory arrest. 1st International Workshop on Intracranial Aneurysms. Tokyo, Japan, April 4, 1986.

Spetzler RF (visiting professor): Grading of arteriovenous malformations. Tokai University Medical Center. Bohseidai, Japan, April 5, 1986.

Spetzler RF (visiting professor): Management of giant arteriovenous malformations. Tokai University Medical Center. Bohseidai, Japan, April 5, 1986.

Spetzler RF: EC-IC bypass. New Mexico Neurological/Neurosurgical Society Meeting. Albuquerque, NM, April 11, 1986.

Williams F, Awad IA, Spetzler RF, Carter LP: Neurological complications after nonpenetrating trauma to the cervical carotid artery. American Association of Neurological Surgeons. Denver, CO, April 13-17, 1986.

Spetzler RF: Carotid endarterectomies. American Association of Neurological Surgeons Annual Meeting. Denver, CO, April 15, 1986.

Spetzler RF: Anterior circulating aneurysms. American Association of Neurological Surgeons Annual Meeting. Denver, CO, April 16, 1986.

Spetzler RF: CSF fistulae. American Association of Neurological Surgeons Annual Meeting. Denver, CO, April 17, 1986.

Spetzler RF, Awad IA: The future of EC-IC bypass surgery. 38th Annual Meeting, American Academy of Neurology. New Orleans, LA, April 27-May 3, 1986.

Spetzler RF: The use of the EC-IC bypass. 38th Annual Meeting, American Academy of Neurology. New Orleans, LA, May 2, 1986.

Spetzler RF: Cardiac standstill for complex giant aneurysms. Trends in Neurosurgery Meeting. Vienna, Austria, May 16, 1986.

Spetzler RF: A new classification for arteriovenous malformations. Trends in Neurosurgery Meeting. Vienna, Austria, May 16, 1986.

Spetzler RF: Management of normal perfusion pressure breakthrough in giant AVMs. Trends in Neurosurgery Meeting. Vienna, Austria, May 16, 1986.

Spetzler RF (moderator): Revascularization after the bypass study. Trends in Neurosurgery Meeting. Vienna, Austria, May 17, 1976.

Spetzler RF: Reflections on the EC-IC bypass. Neurosurgical Research Forum. Cape Cod, MA, May 22-26, 1986.

Spetzler RF (visiting professor): Management of giant AVMs. Tucson Medical Center. Tucson, AZ, June 4, 1986.

Spetzler RF: Magnetic resonance imaging impact on tumor diagnosis. Arizona Medical Association 1986 Annual Meeting. Tucson, AZ, June 5, 1986.

Spetzler RF (visiting professor): New AVM classification. University of Alberta. Edmonton, Alberta, Canada, June 21, 1986.

Spetzler RF: Grading of arteriovenous malformations. 21st Annual Meeting, The Rocky Mountain Neurosurgical Society, Inc. Keystone, CO, June 23, 1986.

Spetzler RF (moderator): 21st Annual Meeting, The Rocky Mountain Neurosurgical Society, Inc. Keystone, CO, June 24, 1986.

Spetzler RF: Giant AVMs. 21st Annual Meeting, The Rocky Mountain Neurosurgical Society, Inc. Keystone, CO, June 25, 1986.

Spetzler RF: Present indications for bypass. 3rd Toronto Stroke Workshop. Toronto, Ontario, September 5, 1986.

Spetzler RF (chairman): Session III. Carotid plaques and neck bruits. 3rd Toronto Stroke Workshop. Toronto, Ontario, September 5, 1986.

Spetzler RF: Present indications for carotid endarterectomy. 3rd Toronto Stroke Workshop. Toronto, Ontario, September 5, 1986.

Spetzler RF: Approaches to the base of the skull. Midas Rex Neurosurgical Symposium. New Orleans, LA, September 13, 1986.

Hadley MN, Martin NA, Spetzler RF, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC: Comparative transoral closure techniques: A canine model. Congress of Neurological Surgeons. New Orleans, September 14-19, 1986.

Awad IA, Spetzler RF, Liu SS, Hadley MN: Pathophysiology of ischemic symptoms in patients with lesions amenable to EC-IC bypass surgery. 8th International Symposium on Microsurgical Anastomosis for Cerebral Ischemia. Florence, Italy, September 14-17, 1986.

Awad IA, Spetzler RF, Hodak JA: Proton magnetic resonance imaging in the evaluation of patients for EC-IC bypass surgery—advantages and limitations. 8th International Symposium on Microsurgical Anastomosis for Cerebral Ischemia. Florence, Italy, September 14-17, 1986.

Spetzler RF (moderator): Surgical therapy of skull base tumors. Congress of Neurological Surgeons 36th Annual Meeting. New Orleans, LA, September 16, 1986.

Spetzler RF, Hadley MN: Complex aneurysms of the basilar artery treated with circulatory arrest, hypothermia, and barbiturate cerebral protection. Annual Meeting of the American Academy of Neurological Surgery. Sea Island, GA, November 6, 1986.

### **Presented in 1985:**

Spetzler RF: Historical aspects of cerebrovascular disorders. 8th Annual Winter Symposium on Cerebrovascular Diseases. Grand Junction, CO, January 23-25, 1985.

Spetzler RF: Posterior cerebral circulation: What is vertebral basilar insufficiency and what can be surgically treated? 8th Annual Winter Symposium on Cerebrovascular Diseases. Grand Junction, CO, January 23-25, 1985.

Spetzler RF: Overview of carotid artery surgery. 8th Annual Winter Symposium on Cerebrovascular Diseases. Grand Junction, CO, January 23-25, 1985.

Spetzler RF: Surgery for subarachnoid hemorrhage. 8th Annual Winter Symposium on Cerebrovascular Diseases. Grand Junction, CO, January 23-25, 1985.

Spetzler RF: The future of neurosurgery for stroke: Brain protection and resuscitation. 8th Annual Winter Symposium on Cerebrovascular Diseases. Grand Junction, CO, January 23-25, 1985.

Spetzler RF: Barbiturates and microendarterectomy. 11th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 26–February 2, 1985.

Spetzler RF: Transcallosal approach for midline lesions. 11th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 26–February 2, 1985.

Spetzler RF: Posterior fossa craniotomy with one burr hole. Midas Rex Conference. Scottsdale, AZ, February 8-10, 1985.

Spetzler RF: Transcallosal tumor Surgery. 12th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 11, 1985.

Spetzler RF (moderator): Tumors of the central nervous system. 12th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 12, 1985.

Spetzler RF: Revascularization of the brain stem. International Symposium on Surgery in and Around the Brain Stem and the Third Ventricle. Hanover, West Germany, February 18-23, 1985.

Spetzler RF: Surgery of processes affecting midbrain and basal ganglia. International Symposium on Surgery in and Around the Brain stem and the Third Ventricle. Hanover, West Germany, February 18-23, 1985.

Spetzler RF: Transoral approach to foramen magnum and clivus. International Symposium on Surgery in and Around the Brain Stem and the Third Ventricle. Hanover, West Germany, February 18-23, 1985.

Spetzler RF: Neurosurgical management of posterior fossa ischemia. 37th Annual

Meeting, Southern Neurosurgical Society. Scottsdale, AZ, February 27-March 3, 1985.

Spetzler RF: Brain revascularization surgery. 6th Annual Vail Clinical Brain Conference. Vail, CO, March 11-15, 1985.

Spetzler RF: Management of arteriovenous malformations. 6th Annual Vail Clinical Brain Conference. Vail, CO, March 11-15, 1985.

Spetzler RF: Aneurysm management. 6th Annual Vail Clinical Brain Conference. Vail, CO, March 11-15, 1985.

Spetzler RF: Intraventricular lesions. 6th Annual Vail Clinical Brain Conference. Vail, CO, March 11-15, 1985.

Spetzler RF: Extracranial-intracranial bypass. American Association of Neurological Surgeons Annual Meeting. Atlanta, GA, April 21-25, 1985.

Spetzler RF: Staged management of giant AVMs. 76th Meeting, The Society of Neurological Surgeons. Phoenix, AZ, May 5-8, 1985.

Spetzler RF: Perioperative therapy of patients with ruptured aneurysms. Neurosciences Society Meeting. Tulsa, OK, May 15, 1985.

Spetzler RF: Posterior fossa revascularization. 1st International Neurosurgical Summer Conference. Mombasa, Kenya, June 16, 1985.

Spetzler RF: Giant basilar aneurysms: Hypothermia and extracorporeal circulation. 1st International Neurosurgical Summer Conference. Mombasa, Kenya, June 17, 1985.

Spetzler RF: Transoral approach to the odontoid. 1st International Neurosurgical Summer Conference. Mombasa, Kenya, June 18, 1985.

Spetzler RF: Giant AVMs and their management. 1st International Neurosurgical Summer Conference. Mombasa, Kenya, June 18, 1985.

Spetzler RF: Management of spinal fluid leak. 1st International Neurosurgical Summer Conference. Mombasa, Kenya, June 20, 1985.

Spetzler RF: Staged embolization and excision of giant AVMs. 8th International Congress of Neurological Surgery. Toronto, Ontario, July 12, 1985.

Spetzler RF: Staging of AVMs. Management of perfusion-pressure breakthrough. Giant aneurysms and the bypass. The 3rd Annual Stonwin Medical Conference on Subarachnoid Hemorrhage. New York, NY, July 16, 1985.

Spetzler RF: Tumors involving major vessels. Neurosurgical Research Forum. Santa Fe, NM, September 5, 1985.

Spetzler RF: Intracranial hemorrhage: Pathophysiology, medical diagnosis and management related to aneurysms, vascular malformations, and other spontaneous hemorrhage. Pilot Program of the Neuroscience Nursing Graduate Program. Barrow Neurological Institute. Phoenix, AZ, October 22, 1985.

Spetzler RF: Surgical treatment of hemorrhagic stroke. Stroke Update '85. St. Joseph's Hospital and Medical Center. Phoenix, AZ, October 26, 1985.

Spetzler RF: Microsurgical endarterectomy under barbiturate protection: A prospective study. American Academy of Neurological Surgery Annual Meeting. Houston, TX, October 28, 1985.

#### **Presented in 1984:**

Spetzler RF: Management of head trauma. Yavapai Community Hospital. Prescott, AZ, January 5, 1984.

Spetzler RF: Barbiturate protection in cerebral ischemia. Barrow Neurological Institute. Phoenix, AZ, January 26, 1984.

Spetzler RF: Clinical value of NMR. 10th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 28–February 4, 1984.

Spetzler RF: Surgery on AVMs. 11th Annual Barrow Neurological Institute Symposium. Scottsdale, AZ, February 13-15, 1984.

Spetzler RF, Zabramski JM: NMR Imaging: Pulse technique and early detection of focal ischemic injury. 9th International Joint Conference on Stroke and Cerebral Circulation. Tampa, FL, February 16-18, 1984.

Spetzler RF: Therapy of cerebrovascular disease. Federation of Western Societies of Neurological Science. Napa, CA, February 23-26, 1984.

Spetzler RF: Cerebral revascularization. Desert Samaritan Hospital. Mesa, AZ, February 29, 1984.

Spetzler RF: Transoral/transclival approaches for brain stem compressing lesions. 2nd Biennial American-European Neurosurgical Winter Conference. St. Moritz, Switzerland, March 12, 1984.

Spetzler RF: Clinical usefulness of NMR. 2nd Biennial American-European Neurosurgical Winter Conference. St. Moritz, Switzerland, March 12, 1984.

Spetzler RF: Giant cerebral AVMs. 2nd Biennial American-European Neurosurgical Winter Conference. St. Moritz, Switzerland, March 12, 1984.

Spetzler RF: Transcallosal approach. Microsurgical Research Institute. San Francisco, CA, April 6, 1984.

Spetzler RF: Techniques for giant aneurysms. American Association of Neurological Surgeons. San Francisco, CA, April 11, 1984.

Spetzler RF: Clinical role of NMR technology in the neurosurgical patient. American Association of Neurological Surgeons. San Francisco, CA, April 8-12, 1984.

Spetzler RF: Neurosurgical management of stroke. Internal Medicine Grand Rounds, St. Joseph's Hospital and Medical Center. Phoenix, AZ, April 18, 1984.

Spetzler RF: Management of focal ischemia in primates. UCSD Medical Center. San Diego, CA, May 3, 1984.

Spetzler RF: Current status & indication of EC-IC bypass surgery. Neurosciences Grand Rounds of UCSD Medical Center. San Diego, CA, May 4, 1984.

Spetzler RF: Evolution of edema following cerebral ischemia as monitored by NMR scanning. Research Society of Neurological Surgeons. Chicago, IL, May 23-26, 1984.

Spetzler RF: Management of posterior fossa ischemia. Rocky Mountain Neurosurgical Society. Colorado Springs, CO, June 6-10, 1984.

Spetzler RF (visiting professor): Cerebrovascular disease. Lecture, Dent Institute. Buffalo, NY, July 7-9, 1984.

Spetzler RF: Physiology and therapy of focal ischemia. 4th Annual Clinical Neuroanesthesia Conference. San Diego, CA, August 17-21, 1984.

Spetzler RF: Case: Occlusive vascular disease (and EEG monitoring). 4th Annual Clinical Neuroanesthesia Conference. San Diego, CA, August 17-21, 1984.

Spetzler RF: Case: Cerebral aneurysm and subarachnoid hemorrhage. 4th Annual Clinical Neuroanesthesia Conference. San Diego, CA, August 17-21, 1984.

Spetzler RF, Hadley MN: Management of posterior fossa cerebral ischemia. 30th Annual Meeting, Western Neurosurgical Society. Colorado Springs, CO, September 9-12, 1984.

Spetzler RF: The use of regional cerebral blood flow in aneurysm surgery. 34th Annual Meeting, Congress of Neurological Surgeons. New York, NY, September 30-October 5, 1984.

Spetzler RF: Application of new technology in the treatment of cerebellopontine angle tumors. 34th Annual Meeting, Congress of Neurological Surgeons. New York, NY, September 30-October 5, 1984.

Spetzler RF: Management of posterior fossa cerebral aneurysms. Congress of Neurological Surgeons—Post Congress Scientific Meeting. Berlin, Germany, October 6-13, 1984.

Spetzler RF: Transoral odontoid resection. Congress of Neurological Surgeons—Post Congress Scientific Meeting. Berlin, Germany, October 6-13, 1984.

Spetzler RF, Hadley MN, Masferrer R, Carter LP, et al: Management of vertebrobasilar insufficiency. 7th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. Phoenix, AZ, October 14-17, 1984.

Spetzler RF, Carter LP: Management of unclippable giant aneurysms (poster presentation). 7th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. Phoenix, AZ, October 14-17, 1984.

Spetzler RF: Medullary cervical junction—NMR evaluation and comprehensive diagnosis with tomography and metrizamide CT supplementation. 70th Scientific Assembly of the Radiological Society of North America. Washington, DC, November 1984.

Spetzler RF: Microendarterectomy under barbiturate anesthesia. Symposium on Contemporary Neurosurgery. Amelia Island, FL, November 14-17, 1984.

Spetzler RF: Surgical management of posterior fossa ischemia. Symposium on Contemporary Neurosurgery. Amelia Island, FL, November 14-17, 1984.

Spetzler RF: Indications and methods of carotid artery ligation. Symposium on Contemporary Neurosurgery. Amelia Island, FL, November 14-17, 1984.

### **Presented in 1983:**

Spetzler RF (visiting professor): Cerebral protection from ischemia. Thomas Jefferson University. Philadelphia, PA, January 6-7, 1983.

Spetzler RF: Endarterectomy using barbiturate anesthesia, antiplatelet protection and the microscope—a prospective study. 9th Annual Richard Lende Winter Neurosurgery Conference. Salt Lake City, UT, February 1, 1983.

Zabramski JM, Spetzler RF, Selman WR, Hershey LA, Roessmann U: Naloxone improved neurologic function during, and outcome after temporary focal cerebral ischemia. 8th International Joint Conference on Stroke and Cerebral Circulation. San Diego, CA, February 11, 1983.

Spetzler RF: Surgical management of cerebrovascular disease. Conference on Stroke, St. Joseph's Hospital. Lorain, OH, February 19, 1983.

Spetzler RF: Reconstructive intracranial surgery. Vascular Conference, Cleveland Clinic Foundation. Cleveland, OH, March 4, 1983.

Spetzler RF (visiting professor): Barbiturate protection in the primate. University of Wisconsin at Madison. Madison, WI, March 23-24, 1983.

Spetzler RF (visiting professor): Cerebrovascular disease. Medical College of Wisconsin. Milwaukee, WI, March 25, 1983.

Spetzler RF: Current thoughts on cerebral revascularization in strokes. State Medical Society Meeting of Wisconsin. Milwaukee, WI, March 25, 1983.

Spetzler RF: New ideas in the treatment of subarachnoid hemorrhage. Practical Approaches to Critical Care Neurology and Neurosurgery Symposium. Cleveland, OH, April 15, 1983.

Zabramski JM, Spetzler RF, Selman WR, Hershey LA, Roessmann U: Cerebral protection during focal cerebral ischemia: Evaluation of naloxone and barbiturates in a primate model. 1983 Annual Meeting of The American Association of Neurological Surgeons. Washington, DC, April 15, 1983.

Spetzler RF, Zabramski JM, Selman WR, VanDerVeer C: Evaluation of antiplatelet therapy and barbiturate protection during carotid endarterectomy: A prospective study. 1983 Annual Meeting of The American Association of Neurological Surgeons. Washington, DC, April 15, 1983.

Spetzler RF: Recent advances in the surgical approach to the stroke prone patient. Medicine, 1983. Cleveland, OH, May 4, 1983.

Spetzler RF: Surgical management of vascular disease. Booth Memorial Medical Center Seminar in Current Trends in the Management of Cerebrovascular Disease, May 10, 1983.

Spetzler RF: Influence of naloxone on recovery from cerebral ischemia. Workshop on Reperfusion of Ischaemic Tissues. University of Newcastle upon Tyne, England, May 19, 1983.

Bonstelle CT, Zabramski JM, Spetzler RF: Evaluation of effect of nifedipine upon basilar artery spasms in a canine model. 69th Scientific Assembly of The Radiological Society of North America, 1983.

Spetzler RF: TAPE: Indication and techniques for revascularizing anterior circulation. Neurosurgery Review, Volume 1282, Issue 1, 1983.

Spetzler RF: TAPE: The stroke prone patient—recent surgical advances. Audio-Digest Surgery, Volume 30, No. 14, July 27, 1983.

Spetzler RF (visiting professor): What's new in microvascular neurosurgery. University of Vienna. Vienna, Austria, December 3-12, 1983.

Spetzler RF: Extracranial-intracranial arterial bypass. Current Perspectives in Cerebrovascular Disease. The Arizona Medical Association. Phoenix, AZ, December 14, 1983.

#### **Presented in 1982:**

Spetzler RF: Management of giant AVM. 8th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, January 31, 1982.

Spetzler RF (chairman): Microsurgery of the sellar region study section. Conference on Cerebrovascular Disease and Posterior Fossa Pathology. Vienna, Austria, March 21, 1982.

Spetzler RF: Intracranial aneurysms: Variations on a theme. Conference on Cerebrovascular Disease and Posterior Fossa Pathology. Vienna, Austria, March 22, 1982.

Spetzler RF: Giant AVMs with normal perfusion pressure breakthrough. Conference on Cerebrovascular Disease and Posterior Fossa Pathology. Vienna, Austria, March 23, 1982.

Spetzler RF: Pineal tumors—supracerebellar approach. Conference on Cerebrovascular Disease and Posterior Fossa Pathology. Vienna, Austria, March 26, 1982.

Spetzler RF (visiting professor): A third ventricular mass. St. Luke's Hospital. Cleveland, Ohio, April 17, 1982.

Spetzler RF: Neurosurgery update: Aneurysms. American Academy of Neurology. Washington, DC, April 25, 1982.

Roski RA, Spetzler RF: Middle cerebral artery perfusion pressure in occlusive cerebrovascular disease. Annual Meeting of the American Association of Neurological Surgeons. Honolulu, HI, April 26, 1982.

Spetzler RF (panelist): Management of carotid aneurysms. Annual Meeting of the American Association of Neurological Surgeons. Honolulu, HI, April 19, 1982.

Spetzler RF (panelist): Management of giant and complex aneurysms. Annual Meeting of the American Association of Neurological Surgeons. Honolulu, HI, April 29, 1982.

Spetzler RF: The protection from cerebral ischemia by pharmacologic agents. Ohio State Neurosurgical Society Meeting, May 4, 1982.

Spetzler RF: Indications and techniques for revascularizing anterior circulation. 12th Annual Neurosurgery Postgraduate Course, University of California. San Francisco, CA, June 4, 1982.

Spetzler RF: Cerebral protection. 12th Annual Neurosurgery Postgraduate Course, University of California. San Francisco, CA, June 4, 1982.

Spetzler RF: Management of normal perfusion pressure break-through in giant AVMs. 12th Annual Neurosurgery Postgraduate Course. University of California, San Francisco, CA, June 4, 1982.

Spetzler RF, Hyde-Rowan D, Roski RA, et al: Cerebral venous vascular reconstruction surgery. 6th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. Kyoto, Japan, September 13, 1982.

Spetzler RF, Zabramski JM, Kaufman B, et al: Acute NMR changes in primates following MCA occlusion. 6th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. Kyoto, Japan, September 15, 1982.

Spetzler RF: Cerebrospinal fluid rhinorrhea/otorrhea. 32nd Annual Meeting, Congress of Neurological Surgeons. Toronto, Ontario, October 5, 1982.

Spetzler RF, Zabramski JM, Kaufman B, Yeung HN: NMR changes in primate cerebral focal ischemia. 32nd Annual Meeting, Congress of Neurological Surgeons. Toronto, Ontario, October 7, 1982.

Spetzler RF, Selman WR, Zabramski JM: Management of the "normal perfusion pressure breakthrough phenomenon" in giant AVMs. 32nd Annual Meeting, Congress of Neurological Surgeons. Toronto, Ontario, October 7, 1982.

Kaufman B, Hopkins A, Spetzler RF, Yeung HN, Kramer D, Hinshaw W, Bratton C, Bonstelle C: NMR imaging of mesencephalic hind brain in cerebellar anatomy: Normal and abnormal. 12th Symposium Neuroradiologicum. Washington, DC, October 10-16, 1982.

Spetzler RF, Kaufman B, Zabramski JM, Yeung HN, Kramer D, Crumrine, RC, Hinshaw W, Alfidi R: NMR demonstration of acute brain infarcts in primates following middle cerebral artery occlusion. 12th Symposium Neuroradiologicum. Washington, DC, October 10-16, 1982.

Kaufman B, Miraldi F, Spetzler RF, Yeung HN, Kramer H, Hinshaw W, Bonstelle C, Alfidi R: Movement of paramagnetic field. 12th Symposium Neuroradiologicum. Washington DC, October 10-16, 1982.

Kaufman B, Hopkins A, Spetzler RF, Yeung HN, Hinshaw W, Bonstelle C, Bratton C, Ratcheson RA: 3-D NMR imaging of posterior fossa in medullary—cervical junction abnormalities. R.S.N.A., Chicago, IL, November 1982.

Spetzler RF: Giant aneurysms. Symposium on Contemporary Neurosurgery. Boca Raton, FL, November 18, 1982.

Spetzler RF: Transoral odontoid resection. Symposium on Contemporary Neurosurgery. Boca Raton, FL, November 19, 1982.

Spetzler RF: Large AVM with perfusion pressure breakthrough. Symposium on Contemporary Neurosurgery. Boca Raton, FL, November 19, 1982.

Spetzler RF: Large graft bypass. Symposium on Contemporary Neurosurgery. Boca Raton, FL, November 20, 1982.

### **Presented in 1981:**

Spetzler RF: Barbiturate protection in primates and man. 7th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 4, 1981.

Rhodes RS, Spetzler RF, Roski RA: Improved neurologic function post CVA with extracranial-intracranial arterial bypass. 42nd Annual Meeting of the Society of University Surgeons. Hershey, PA, February 12-14, 1981.

Spetzler RF, Roski RA: A combination of STA-MCA bypass and staged internal carotid artery occlusion for the treatment of giant internal carotid artery aneurysms. 6th International Joint Conference on Stroke and Cerebral Circulation. Los Angeles, CA, February 13, 1981.

Roski RA, Spetzler RF, Nulsen FE: Comparison of late complications for internal carotid versus common carotid artery ligation. 6th International Joint Conference on Stroke and Cerebral Circulation. Los Angeles, CA, February 13, 1981.

Selman WR, Roski RA: Barbiturate coma: Relation of protection to timing of therapy and duration of occlusion. 6th International Joint Conference on Stroke and Cerebral Circulation. Los Angeles, CA, February 14, 1981.

Spetzler RF: Management of cerebral ischemia. Neurosurgery Grand Rounds, Cleveland Clinic. Cleveland, OH, March 11, 1981.

Spetzler RF: Variations of the EC-IC (anterior and posterior circulations). Central Neurosurgical Society Meeting. Chicago, IL, March 21, 1981.

Spetzler RF: Extra-intracranial bypass. "Cardiology 1981" at Western Pennsylvania Hospital. Pittsburgh, PA, March 22, 1981.

Spetzler RF: Thoughts on cerebral ischemia. Columbia University College of Physicians and Surgeons. New York, NY, April 2, 1981.

Matjasko J, Wurm H, Spetzler RF, Ferguson G (panelists): Intraoperative monitoring. American Association of Neurological Surgeons Meeting. Boston, MA, April 7, 1981.

Spetzler RF (discussant): Holographic reconstruction of neuroradiogram. American Association of Neurological Surgeons Meeting. Boston, MA, April 9, 1981.

Spetzler RF: Barbiturate induced coma for focal cerebral ischemia in primates. 17th Annual Meeting, The Society of University Neurosurgeons. London, Ontario, May 8, 1981.

Spetzler RF: Indications and technique for transoral approach to C1-2. American Academy of Orthopaedic Surgeons, Treatment of Adult Spinal Disorders. Cleveland, OH, May 12, 1981.

Spetzler RF: Indications for posterior vs. anterior approach to the cervical disc. American Academy of Orthopaedic Surgeons, Treatment of Adult Spinal Disorders. Cleveland, OH, May 12, 1981.

Spetzler RF: Regional cerebral blood flow following middle cerebral artery occlusion and barbiturate therapy in baboons. 10th International Symposium on Cerebral Blood Flow and Metabolism. St. Louis, MO, June 22, 1981.

Spetzler RF, Selman WR, Redford J, Roski RA, Dabb B, Anton A, Cascorbi H: Intraoperative barbiturate protection during temporary vessel occlusion in man. International Symposium on Cerebrovascular Diseases: New Trends in Surgical and Medical Aspects. Garda Lake, Italy, July 3, 1981.

Spetzler RF: Treatment of communicating hydrocephalus. Symposium of Hydrocephalus. Munich, Germany, July 12, 1981.

Spetzler RF, Rhodes RS, Roski RA: High flow extracranial to intracranial bypass. 7th International Congress of Neurological Surgery. Munich, Germany, July 16, 1981.

Selman WR, Spetzler RF, Roski RA: Therapeutic barbiturate induced coma for focal cerebral ischemia: Relation of response to timing of therapy and duration of occlusion. 7th International Congress of Neurological Surgery. Munich, Germany, July 17, 1981.

Spetzler RF (visiting professor): Pharmacologic protection for cerebral ischemia. Dent Neurologic Institute of Millary Fillmore Hospital. Buffalo, NY, August 7, 1981.

Spetzler RF: Cerebral protection during ischemia. University of New York. Buffalo, NY, August 14, 1981.

Spetzler RF: Subarachnoid hemorrhage. Lakewood Hospital. Lakewood, OH, September 30, 1981.

Spetzler RF: Variations on a theme. American College of Surgeons. San Francisco, CA, October 16, 1981.

Spetzler RF, Zabramski JM: Revascularization of anterior and posterior circulation ischemia. Congress of Neurological Surgeons. Los Angeles, CA, October 21, 1981.

Selman WR, Roski RA, Spetzler RF, Crumrine RC, Jackson D: Cerebral blood flow during MCA occlusion and barbiturate coma in primates: Analysis radiolabeled microspheres. Congress of Neurological Surgeons. Los Angeles, CA, October 22, 1981.

Kaufman B, Roessmann U, Spetzler RF: Transforaminal cerebellar ectopia. Radiological Society of North America. Chicago, IL, November 16, 1981.

Kaufman B, Roessmann U, Spetzler RF: Classification of craniovertebral junction abnormalities. Radiological Society of North America. Chicago, IL, November 16, 1981.

#### **Presented in 1980:**

Spetzler RF: Techniques of lumboperitoneal shunting. Heyer-Schulte meeting, LaCosta Hotel & Spa. Rancho LaCosta, Carlsbad, CA, January 1980.

Spetzler RF: Extracranial-intracranial arterial anastomosis in the treatment of giant aneurysms. 6th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT, February 2-7, 1980.

Spetzler RF: What's new in the treatment of stroke. Lutheran Medical Center Seminar. Cleveland, OH, March 12, 1980.

Spetzler RF: Posterior fossa vascular compression syndromes. American Association of Neurosurgical Nurses of Northeast Ohio. Cleveland, OH, March 13, 1980.

Roski RA, Spetzler RF, Nulsen FE: Late ischemic complications of carotid ligation in the treatment of intracranial aneurysms. American Association of Neurological Surgeons Annual Meeting. New York, NY, April 21, 1980.

Spetzler RF, Schuster H, Roski RA: EIAB in the treatment of giant ICA aneurysms. American Association of Neurological Surgeons Annual Meeting. New York, NY, April 21, 1980.

Selman WR, Spetzler RF: Therapeutic management of prolonged barbiturate coma. American Association of Neurological Surgeons Annual Meeting. New York, NY, April 23, 1980.

Yamada S, Zinke DE (Spetzler RF: discussant): Surgical treatment of arteriovenous malformations (AVMs) in the functional areas: Correlation with CBF. American Association

of Neurological Surgeons Annual Meeting. New York, NY, April 23, 1980.

Kricheff I, Spetzler RF, Clark WK, Sugar O (panelists): CT scan diagnosis in neurosurgery. American Association of Neurological Surgeons Annual Meeting. New York, NY, April 24, 1980.

Selman WR, Spetzler RF: Barbiturate control of ischemic edema: Comparison of effect on permanent and temporary middle cerebral artery occlusion in baboons. Ohio State Medical Association Annual Meeting. Cincinnati, OH, May 13, 1980.

Selman WR, Spetzler RF: Therapeutic barbiturate induced coma for control of ICP after middle cerebral artery occlusion: Relation to duration of occlusion (First Prize). 5th Annual Neuroscience Residents' Day, Rainbow Babies and Children's Amphitheater. Cleveland, OH, May 15, 1980.

Selman WR, Spetzler RF: Therapeutic barbiturate induced coma for focal cerebral ischemia: Relationship of protection to timing of therapy. 5th Annual Neuroscience Residents' Day, Rainbow Babies and Children's Amphitheater. Cleveland, OH, May 15, 1980.

Spetzler RF: Long-term effects of carotid artery ligation. Aneurysm Patient Seminar. Niagara Falls, NY, June 12, 1980.

Spetzler RF: Intracranial pressure and subarachnoid hemorrhage: Implications, monitoring, and control. Aneurysm Patient Seminar. Niagara Falls, NY, June 13, 1980.

Spetzler RF: Barbiturate coma. Aneurysm Patient Seminar. Niagara Falls, NY, June 13, 1980.

Spetzler RF: Normal perfusion pressure breakthrough theory in clinical practice. Aneurysm Patient Seminar. Niagara Falls, NY, June 13, 1980.

Spetzler RF: EC-IC and ligation-cerebral perfusion. Aneurysm Patient Seminar. Niagara Falls, NY, June 14, 1980.

Spetzler RF: Bypass surgery and carotid ligation for aneurysms. Panel discussion: "The role of cerebral bypass in the treatment of aneurysms," Aneurysm Patient Seminar. Niagara Falls, NY, June 14, 1980.

Spetzler RF: Transoral odontoid removal. Philippine General Hospital, Sino-American Neurosurgery Study Tour, June 23, 1980.

Spetzler RF: Extracranial-intracranial aneurysm. Philippine General Hospital, Sino-American Neurosurgery Study Tour, June 23, 1980.

Spetzler RF: Cerebrovascular disease. Peking, Sino-American Neurosurgery Study Tour, June 26, 1980.

Spetzler RF: Normal perfusion pressure theory. Peking, Sino-American Neurosurgery Study Tour, June 26, 1980.

Spetzler RF: Barbiturates for clinical use. Beidagai, Sino-American Neurosurgery Study

Tour, June 28, 1980.

Spetzler RF: Microsurgery for aneurysms. Tiaryin, Sino-American Neurosurgery Study Tour, June 30, 1980.

Spetzler RF: Extracranial-intracranial bypass. Tiaryin, Sino-American Neurosurgery Study Tour, June 30, 1980.

Spetzler RF: Variation on a theme. Shanghai, Sino-American Neurosurgery Study Tour, July 2, 1980.

Spetzler RF: Variation of Extracranial-intracranial bypass. Shanghai, Sino-American Neurosurgery Study Tour, July 2, 1980.

Spetzler RF: Embolization and surgery for large AVMs. Shanghai, Sino-American Neurosurgery Study Tour, July 3, 1980.

Spetzler RF: CSF leaks. Hong Kong, Sino-American Neurosurgery Study Tour, July 7, 1980.

Spetzler RF: Revascularization for aneurysms. Hong Kong, Sino-American Neurosurgery Study Tour, July 8, 1980.

Spetzler RF: Surgical approaches to improving cerebral perfusion. Current Concepts of Medical-Surgical Management of Cerebral Vascular Disease Conference, Lakewood Hospital. Lakewood, OH, September 10, 1980.

Spetzler RF, Roski RA: Middle cerebral artery perfusion pressure in cerebral ischemia. 5th International Symposium on Microvascular Anastomoses for Cerebral Ischemia. Vienna, Austria, September 15, 1980.

Spetzler RF, Selman WR: Barbiturate control of ischemic intracranial pressure. 5th International Symposium on Microvascular Anastomoses for Cerebral Ischemia. Vienna, Austria, September 15, 1980.

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Roski RA, Spetzler RF: Late complications of carotid ligation in the treatment of intracranial aneurysms. 5th International Symposium on Microvascular Anastomoses for Cerebral Ischemia. Vienna, Austria, September 16, 1980.

Spetzler RF, Kopaniky D, Cuante S, Modic M, Roski RA, Bonstelle C: By-pass surgery—variations on a theme. Exhibit, 30th Annual Meeting, Congress of Neurological Surgeons. Houston, TX, October 5-10, 1980.

Spetzler RF: Identification and management of CSF fistulae. 30th Annual Meeting,

Congress of Neurological Surgeons. Houston, TX, October 9, 1980.

Selman WR, Spetzler RF: Therapeutic barbiturate induced coma for focal cerebral ischemia: Relation of response to timing of therapy and duration of occlusion. 30th Annual Meeting, Congress of Neurological Surgeons. Houston, TX, October 9, 1980.

Spetzler RF: The microscope in cervical disc excision. American Academy of Orthopaedic Surgeons, The Spine—Surgery and Rehabilitation Meeting. Kissimmee, FL, December 1, 1980.

Spetzler RF: Surgical technique of excision of the odontoid. American Academy of Orthopaedic Surgeons, The Spine—Surgery and Rehabilitation Meeting. Kissimmee, FL, December 4, 1980.

Kaufman B, Bohlman HH, Spetzler RF: Craniovertebral junction evaluation with metrizamide, metrizamide plus tomography, and computerized tomography with sagittal reconstruction. 8th Annual Meeting Cervical Spine Research Society. Palm Beach, FL, December 11, 1980.

Spetzler RF, Roski RA, Kaufman B: Microsurgical approach to the anterior cervical spine. 8th Annual Meeting Cervical Spine Research Society. Palm Beach, FL, December 11, 1980.

#### **Presented in 1979:**

Spetzler RF: Normal perfusion pressure breakthrough theory in large AVMs. 5th Annual Richard Lende Winter Neurosurgery Conference sponsored by the University of Utah. Salt Lake City, UT, February 10-15, 1979.

Selman WR, Spetzler RF: Transoral microsurgical odontoid resection and spinal cord monitoring. 5th Annual Richard Lende Winter Neurosurgery Conference sponsored by the University of Utah. Salt Lake City, UT, February 10-15, 1979.

Spetzler RF: Neurosurgical management of stroke. Cleveland Clinic (co-sponsored with the American Association of Neurosurgical Nurses of Northeast Ohio). Changing Concepts in Neurosurgical Nursing. Cleveland, Ohio, March 9, 1979.

Spetzler RF: Neurosurgical management of stroke. Cleveland Clinic (co-sponsored with the American Association of Neurosurgical Nurses of Northeast Ohio). Changing Concepts in Neurosurgical Nursing. Cleveland, OH, March 9-10, 1979.

Spetzler RF: Microsurgical treatment of arteriovenous malformation. Cleveland Clinic (co-sponsored with the American Association of Neurosurgical Nurses of Northeast Ohio). Changing Concepts in Neurosurgical Nursing. Cleveland, Ohio, March 9-10, 1979.

Selman WR, Spetzler RF: Simplified shunting therapy for communicating hydrocephalus. First Place, Annual Resident Essay Contest. Northeast Ohio Neurosurgical Society Meeting. Cleveland, OH, March 15, 1979.

Spetzler RF: Microsurgical technique for removal of osteophytes from the cervical spinal canal. Surgery of the Spine Indications and Techniques (course designed by Department

of Orthopaedics and Rehabilitation of the University of Miami School of Medicine), Americana Hotel. Miami Beach, FL, April 5, 1979.

Spetzler RF: CSF leaks. American Association of Neurological Surgeons Scientific Program Committee Breakfast Seminar, Annual Meeting, Century Plaza Hotel. Los Angeles, CA, April 24, 1979.

Spetzler RF, Spetzler H, Nulsen FE: Holography in neurosurgery. American Association of Neurological Surgeons Annual Meeting General Scientific Session, Century Plaza Hotel. Los Angeles, CA, April 24, 1979.

Selman WR, Spetzler RF, Wilson CB, Grollmus JS: Percutaneous lumboperitoneal shunt: Review of 130 cases. American Association of Neurological Surgeons Annual Meeting General Scientific Session, Century Plaza Hotel. Los Angeles, CA, April 26, 1979.

Selman WR, Spetzler RF, Cascorbi HF, Nulsen FE, Brodkey JS, Crumrine RC: Rational management of barbiturate induced coma. Annual Meeting of the Ohio State Neurological Surgeons Meeting. Columbus, OH, May 15, 1979.

Spetzler RF: Microsurgical application of cerebrovascular disease. Fairview General Hospital. Cleveland, OH, May 19, 1979.

Kaufman B, Roessmann U, Spetzler RF, Nulsen FE, Bonstelle C: Trans-foraminal cerebellar ectopia. 17th Annual Meeting, American Society of Neuroradiology. Toronto, Ontario, May 20-24, 1979.

Spetzler RF, Rhodes RS, Likavec M, Roski R: Subclavian artery—middle cerebral artery—saphenous bypass and variations on this theme. 4th Annual Meeting of The Cleveland Vascular Society. May 9, 1979.

Spetzler RF: Recent advances in occlusive cerebral ischemia. NEONS, May 18, 1979.

Selman WR, Spetzler RF: Neurophysiological monitoring of barbiturate coma. 9th International Symposium on Cerebral Blood Flow and Metabolism. Tokyo, Japan, June 5, 1979.

Spetzler RF (moderator): Management of shunt complications. 29th Annual Meeting for Congress of Neurological Surgeons Meeting. Las Vegas, NV, October 7-12, 1979.

Spetzler RF, Rhodes RS, Likavec M, Roski R: Subclavian artery—middle cerebral artery saphenous vein bypass. 29th Annual Meeting for Congress of Neurological Surgeons. Las Vegas, NV, October 7-12, 1979.

Spetzler RF, Selman WR, Brodkey JS, Nulsen FE, Lorig RJ, Good W: Visual evoked potentials during deep barbiturate therapy. 29th Annual Meeting for Congress of Neurological Surgeons. Las Vegas, NV, October 7-12, 1979.

Selman WR, Spetzler RF (presenter): Correlation between CO<sub>2</sub> and ICP with response to therapeutics. Society of Neurosurgical Anesthesia and Neurologic Supportive Care. San Francisco, CA, October 19, 1979.

Spetzler RF: Microsurgical application to cerebrovascular disease. Lutheran Medical

Center. Cleveland, OH, Surgical Grand Rounds, October 25, 1979.

Spetzler RF: Role of extracranial-intracranial anastomosis. Northeast Ohio Neurosurgery Society. Cleveland, OH, November 2, 1979.

Spetzler RF, Selman WR, Bonstelle C: Neuroradiologic assessment in a new model for chronic reversible ischemia in baboons. Scientific Sessions of the Society for Computerized Tomography and Neuro-Imaging (SCTNI). Ponte Vedra Club, Ponte Vedra Beach, FL, November 5, 1979.

Spetzler RF, Schuster H, Nulsen FE: Elective extracranial-intracranial arterial bypass in the treatment of giant aneurysms. Annual Meeting of American Academy of Neurological Surgery. Memphis, TN, November 7-10, 1979.

Kaufman B, Roessmann U, Spetzler RF, Nulsen FE, Bonstelle C: Trans-foraminal cerebellar ectopia. Cervical Spine Research Society. Cambridge, MA, December 8, 1979.

### **Presented in 1978:**

Spetzler RF: IC/EC bypass. Northeast Ohio Vascular Society—Rainbow Babies and Children's Amphitheater. Cleveland, OH, January 24, 1978.

Owen M, Spetzler RF: Blue nevus syndrome. 6th Annual Interim Meeting, Pediatric Section of American Association of Neurological Surgeons. Cleveland, OH, February 2-4, 1978.

Spetzler RF: Cauda equina electrical monitoring. 6th Annual Interim Meeting, Pediatric Section of American Association of Neurological Surgeons. Cleveland, OH, February 2-4, 1978.

Spetzler RF (program coordinator): Lesions of sella and parasellar area and cerebral vascular disease, Winter Seminar. Davos, Switzerland/St. Anton, Austria, February 10-25, 1978.

Spetzler RF: Surgical anatomy of the sellar region. Winter seminar. Davos, Switzerland, February 12, 1978.

Spetzler RF: Review of the surgical merit of the frontal approach of sella and parasellar area. Winter seminar. Davos, Switzerland, February 14, 1978.

Derome P, Spetzler RF: Hypersecreting pituitary adenomas. Winter seminar. Davos, Switzerland, February 15, 1978.

Spetzler RF: Pathophysiology of cerebral infarction. Winter seminar. St. Anton, Austria, February 19, 1978.

Spetzler RF: Anatomical physiological consideration of extracranial to intracranial arterial bypass. Winter seminar. St. Anton, Austria, February 20, 1978.

Koos W, Spetzler RF: Technique of cerebral revascularization surgery. Winter seminar. Davos/St. Anton, Austria, February 20, 1978.

Spetzler RF: Special problems associated with subarachnoid hemorrhage. Winter seminar. Davos/St. Anton, Austria, February 22, 1978.

Spetzler RF: Spinal cord injury—acute care—medical/surgical management. American Association of Neurosurgical Nurses of Northeast Ohio. Cleveland, OH, March 21, 1978.

Spetzler RF: Spinal cord injury—acute care—medical/surgical management. Physicians' Radio Station. Cleveland, OH, March 21, 1978.

Spetzler RF, Weinstein P, Mehdorn M: New model for chronic reversible cerebral ischemia. Annual Meeting American Association of Neurological Surgeons. New Orleans, LA, April 24, 1978.

Spetzler RF: Experimental cerebral blood flow studies. Clinical Neurosciences Didactic Lecture Series, Cleveland Clinic. Cleveland, OH, May 6, 1978.

Spetzler RF, Weinstein PR, Selman WR: Reversible cerebral ischemia. 4th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. The University of Western Ontario. London, Ontario, September 6, 1978.

Weinstein PR, Mehdorn HM, Spetzler RF: Arterial dilatation and augmentation of blood flow in experimental arteriovenous fistulae. 4th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia. The University of Western Ontario. London, Ontario, September 7, 1978.

Spetzler RF (moderator), Apfelbaum RI (speaker): Television, movie, and still photography through the operating microscope. 28th Annual Meeting, Congress of Neurological Surgeons. Washington, DC, September 28, 1978.

Wilson CB, Spetzler RF: Operative approaches to aneurysms. 28th Annual Meeting, Congress of Neurological Surgeons. Washington, DC, September 28-29, 1978.

Spetzler RF: Cerebral revascularization. Lakewood Hospital. Lakewood, OH, October 11, 1978.

Spetzler RF, Selman W, Brown RH: Transoral cervical odontoid decompression and spinal cord monitoring. 6th Annual Meeting Cervical Spine Research Society. Baltimore, MD, November 30-December 2, 1978.

#### **Presented in 1977:**

Spetzler RF: Percutaneous shunting techniques. San Francisco Neurological Society. Oak Knoll, CA, January 19, 1977.

Spetzler RF: Ondine's curse. Sierra Neurosurgical Society. February 18-21, 1977.

Spetzler RF: Lumbo-peritoneal shunting in the diagnosis and treatment of normal pressure hydrocephalus. Federation of Western Societies of Neurological Science. Mazatlan, Mexico, February 24-27, 1977.

Wilson CB, U Hoi Sang (Spetzler RF, presenter): Microsurgical treatment of intracranial vascular malformation. American Association of Neurological Surgeons, Sheraton Centre. Toronto, Ontario, April 24-28, 1977.

Spetzler RF (discussant): (a) Genetic control of brain tumor growth. C. Albright and T. Gill (b) Evaluation of glucose metabolism in experimental cerebral neoplasm with 2-deoxy-d-glucose radioautography. Alteman L, Kindt G, McGauley J. American Association of Neurological Surgeons, Sheraton Centre. Toronto, Ontario, April 24-28, 1977.

Wilson CB, Spetzler RF: Results of 250 transsphenoidal operations for pituitary tumors. San Francisco Neurological Society, Silverado Lodge. Napa, CA, May 21-22, 1977.

Hoff JT, Pitts LH, Spetzler RF, Wilson CB: Barbiturates for protection from cerebral ischemia in aneurysm surgery. 8th International Symposium on Cerebral Function, Metabolism, and Circulation. Lassen N (ed). Copenhagen, June 1977.

Spetzler RF, Weinstein PR: Alterations in blood flow through an experimental cerebral arteriovenous fistula. 27th Annual Meeting, Congress of Neurological Surgeons, Inc., San Francisco Hilton. San Francisco, CA, October 9-14, 1977; (Annual Resident Award—October 13, 1977).

#### **Presented in 1976:**

Spetzler RF: Regional cerebral blood flow before and after cerebral revascularization. Microneurosurgery Course, VA Hospital. San Francisco, CA, March 1-5, 1976.

Spetzler RF: Percutaneous lumbo-peritoneal shunting. 6th Annual Neurosurgery Postgraduate Course. San Francisco, CA, May 20-27, 1976.

Spetzler RF, Wilson CB: Management of recurrent CSF rhinorrhea. 6th Annual Neurosurgery Postgraduate Course. San Francisco, CA, May 20-27, 1976.

Spetzler RF, Wing SD, Norman D: Evaluation of patients with cerebral ischemia using computerized tomography. 3rd International Symposium on Microneurosurgical Anastomoses for Cerebral Ischemia. Rottach-Egern, West Germany, June 28-30, 1976.

Spetzler RF: Closing comments. 3rd International Symposium on Microneurosurgical Anastomoses for Cerebral Ischemia. Rottach-Egern, West Germany, June 28-30, 1976.

#### **Presented in 1975:**

Spetzler RF: A shunt for the diagnosis of normal pressure hydrocephalus. Televised Neurology Grand Rounds, University of California. San Francisco, June 1975.

Spetzler RF, Wilson CB: A new approach to the diagnosis of normal pressure hydrocephalus. Congress of Neurological Surgeons. Atlanta, GA, October 1975.

#### **Presented in 1974:**

Spetzler RF, Chater NL: Blood flow measurements of superficial temporal artery middle cerebral artery bypass procedure. Cushing Meeting, April 1974.

**Presented in 1973:**

Spetzler RF, Chater NL: Middle cerebral artery anatomical studies. International Symposium on Neurosurgery through the Microscope. Mt. Sinai School of Medicine, City University. New York, June 12, 1973.

Chater NL, Spetzler RF: Alternative blood supply for cerebral microvascular bypass. International Symposium on Neurosurgery through the Microscope. Mt. Sinai School of Medicine, City University. New York, June 12, 1973.

Chater NL, Spetzler RF: Anatomical studies of cerebral cortical vasculature of microvascular surgical significance. International Congress of Neurosurgery Symposium on Microneurosurgery. Kyoto, Japan, October 1973.

**ROBERT F. SPETZLER, MD****SECTION III OF III****BIBLIOGRAPHY OF PUBLICATIONS****BOOKS****REFEREED JOURNALS****CHAPTERS****NON-REFEREED JOURNALS**

*(current through 2007 only)*

**BOOK REVIEWS**

*(current through 2004 only)*

**COMMENTS**

*(current through 2002 only)*

**LETTERS**

*(current through 2002 only)*

**ABSTRACTS**

*(current through 2004 only)*

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Total Number of Books (29)

1. Kalani MYS, Spetzler RF, Lawton MT (eds): *Surgery of the Brainstem*. New York: Thieme, 2019.
2. Rangel-Castilla L, Nakaji P, Siddiqui AH, Spetzler RF, Levy EI (eds): *Decision Making in Neurovascular Disease*. New York: Thieme, 2018.
3. Spetzler RF, Kalani MYS, Nakaji P, Yağmurlu K (eds): *Color Atlas of Brainstem Surgery*. New York: Thieme, 2017.
4. Spetzler RF, Moon K, Almefty RO (eds): *Arteriovenous and Cavernous Malformations*. Philadelphia: Elsevier, 2017.
5. Bambakidis NC, Nakaji P, Spetzler RF, Amin-Hanjani S (eds): *Cerebrovascular Surgery: An Interactive Video*. People's Medical Publishing House, 2016.
6. Kalani MYS, Nakaji P, Spetzler RF (eds): *Neurovascular Surgery*. 2nd ed. New York: Thieme, 2015.
7. Spetzler RF, Kondziolka DS, Higashida RT, Kalani MYS (eds): *Comprehensive Management of Arteriovenous Malformations of the Brain and Spine*. Cambridge: Cambridge University Press, 2015.
8. Spetzler RF (section ed). In: Aminoff MJ, Daroff RB (eds): *Encyclopedia of Neurological Sciences*. 2nd ed. Oxford: Elsevier, 2014.
9. Spetzler RF, Nakaji P, Rhoton AL Jr, Kawashima M (eds): *Color Atlas of Cerebral Revascularization*. New York: Thieme, 2013.
10. Bambakidis C, Dickman CA, Spetzler RF, Sonntag VKH (eds): *Surgery of the Craniovertebral Junction*. 2nd ed. New York: Thieme, 2013.
11. Wanebo J, Spetzler RF, Zabramski JM, Khan N (eds): *Moyamoya Disease: Diagnosis and Treatment*. New York: Thieme, 2013.
12. Bruneau M, George B, Spetzler RF (eds): *Pathology and Surgery around the Vertebral Artery*. New York: Springer, 2012.
13. George, Bruneau, Spetzler (eds): *Pathology and Surgery Around the Vertebral Artery*. Springer-Verlag, 2011.
14. Bambakidis NC, Megerian C, Spetzler RF (eds): *Surgery of the Cerebellopontine Angle*. Shelton CT: People's Medical Publishing House, 2009.
15. Khurana VG, Spetzler RF (eds): *The Brain Aneurysm. A Comprehensive Resource for Brain Aneurysm Patients, Their Families, and Physicians*. Bloomington: Authorhouse, 2007.
16. Alexander MJ, Spetzler RF (eds): *Pediatric Neurovascular Disease. Surgical,*

*Endovascular, and Medical Management*. New York: Thieme, 2006.

17. Spetzler RF (section ed). In: Winn HR (ed): *Youman's Neurological Surgery*. 5th ed. Philadelphia: WB Saunders, 2004.
18. Spetzler RF (section ed). In: Aminoff MJ, Darof RB (eds): *Encyclopedia of Neurological Sciences*. San Diego: Academic Press, 2003.
19. Spetzler RF, Koos WT (eds): *Color Atlas of Microneurosurgery*. 2nd ed. Vol 3. New York: Thieme, 2000.
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21. Dickman CA, Sonntag VKH, Spetzler RF (eds): *Surgery of the Craniovertebral Junction*. New York: Thieme, 1998.
22. Spetzler RF, Koos WT (eds): *Color Atlas of Microneurosurgery*. 2nd ed. Vol II. Stuttgart: Georg Thieme Verlag, 1997.
23. Bailes JE, Spetzler RF (eds): *Microsurgical Carotid Endarterectomy*. Philadelphia: Lippincott-Raven, 1996.
24. Carter LP, Spetzler RF, Hamilton MG (eds): *Neurovascular Surgery*. New York: McGraw-Hill, 1995.
25. Koos WT, Spetzler RF, Lang J (eds): *Color Atlas of Microneurosurgery*. 2nd ed. Vol 1. Stuttgart: Georg Thieme Verlag, 1993.
26. Koos WT, Spetzler RF, Lang J (eds): *Color Atlas of Microneurosurgery*. Stuttgart: Georg Thieme Verlag, 1986.
27. Spetzler RF, Carter LP, Selman WR, Martin NA (eds): *Cerebral Revascularization for Stroke*. New York: Thieme-Stratton, 1985.
28. Schmidek P, Gratzl O, Spetzler RF (eds): *Microsurgery for Stroke*. New York: Springer-Verlag, 1977.
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Total Number of Refereed Manuscripts (783)

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1. Almefty RO, Xu DS, Mooney MA, Montoure A, Naeem K, Coons SW, Spetzler RF, Porter RW. Comparison of surgical outcomes and recurrence rates of cystic and solid vestibular schwannomas. **J Neurol Surg Part B**
2. Catapano JS, Frisoli FA, Nguyen CL, Labib MA, Cole TS, Baranoski JF, Kim H, Spetzler RF, Lawton MT. Intermediate-grade brain arteriovenous malformations and the boundary of operability using the supplemented Spetzler-Martin grading system. **J Neurosurg**
3. Hendricks BK, Spetzler RF. C5-6 anterior cervical laminectomy for resection of a tumor. **Oper Neurosurg**
4. Hendricks BK, Spetzler RF. Double-barrel superficial temporal artery to middle cerebral artery bypass for giant thrombosed middle cerebral artery aneurysm. **Oper Neurosurg**
5. Hendricks BK, Spetzler RF. Grade V thalamic arteriovenous malformation. **Oper Neurosurg**
6. Hendricks BK, Spetzler RF. Lateral supracerebellar infratentorial approach for midbrain cavernous malformation. **Oper Neurosurg**
7. Hendricks BK, Spetzler RF. Management of a rapidly expanding traumatic ICA aneurysm with high-flow EC-IC bypass. **Oper Neurosurg**
8. Hendricks BK, Spetzler RF. Orbitozygomatic craniotomy basilar artery apex aneurysm. **Oper Neurosurg**
9. Hendricks BK, Spetzler RF. Orbitozygomatic craniotomy for pontine cavernous malformation. **Oper Neurosurg**
10. Kalani MYS, Huentelman M, Arango J, Adelson PD, Spetzler RF, and Van Keuren-Jensen K. Hemorrhagic Stroke, Brain Injury and ex-RNAs. **J Extracell Vesicles**
11. Kalani MYS, Lei T, Martirosyan NL, Spetzler RF, Nakaji P. The endoscopic supracerebellar infratentorial approach to the pineal region. **Neurosurgical Focus**
12. Kalani MYS, Spetzler RF. Cavernous malformation from vein. **J Neurosurg**
13. Kalani MYS, Yağmurlu K, Martirosyan NL, Spetzler RF. The lateral supracerebellar infratentorial, trans-lateral mesencephalic sulcus approach to the mesencephalopontine junction. **Neurosurg Focus**
14. Lei T, Snyder LA, Belykh E, Yağmurlu K, Sun G, Malik KM, Malekooti DM, Spetzler RF, Preul MC, Nakaji P. Endoscopic keyhole supracerebellar transtentorial approach for posterior temporal and inferior occipital lesions. **J Neurosurg**

15. Moon K, Spetzler RF. Outlooks. **Nature Reviews Disease Primers**
16. Rankin TM, Fennell VS, Biswas A, Spetzler RF, Hurst C. Lobar holoprosencephaly. early median cleft repair for speech facilitation. **Cureus**
17. Safavi-Abbasi S, Sun H, Oppenlander ME, Kalani MYS, Nakaji P, Spetzler RF. Surgical Technique of the transciliary supraorbital keyhole approach for the management of a ruptured anterior communicating artery aneurysm. **Neurosurg Focus**
18. Sun H, Safavi-Abbasi S, Oppenlander ME, Hulbeck, Nakaji P, Spetzler RF. Clipping of posterior communicating artery aneurysms requiring anterior clinoidectomy. **Neurosurg Focus**
19. Woodall MN, Catapano JS, Lawton MT, Spetzler RF. Cavernous malformations in and around the third ventricle: indications, approaches, and outcomes. **Oper Neurosurg**

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