



**Matthew R. Reynolds, M.D., Ph.D., F.A.A.N.S.**  
*Director of Neurological Surgery and Neuro-Endovascular Surgery*  
*Chief-of-Staff/Chairman of Surgical Services*  
*Silver Cross Hospital, Midwest Institute for Neurosciences*

**Date Prepared:**

3/2026

**Contact Information:**

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**Education:**

7/2000-5/2008: *Doctor of Medicine (M.D.)*

Northwestern University Medical School, Chicago, IL

7/2000-5/2008: *Doctor of Philosophy (Ph.D.)*, Department of Cell and Molecular Biology

Northwestern University Medical School, Chicago, IL

7/1996-6/2000: *Bachelor of Arts (B.A.)*, English Literature

Hope College, Holland, MI, *Summa Cum Laude* (G.P.A. 3.95/4.0)

**Post-Doctoral Training:**

7/2016-6/2017: *Fellowship*, Neuro-Endovascular Surgery and Neurocritical Care

Department of Neurological Surgery, Thomas Jefferson University, Philadelphia, PA

7/2015-6/2016: *Fellowship*, Cerebrovascular and Skull Base Surgery

Department of Neurological Surgery, Emory University, Atlanta, GA

7/2014-6/2015: *Chief Resident*, Neurological Surgery

Barnes-Jewish Hospital, Washington University in St. Louis, MO

7/2013-6/2014: *Senior Registrar*, Fellowship in Cerebrovascular Surgery

Department of Neurological Surgery, Beaumont Hospital, Dublin, Ireland

7/2012-6/2013: *Research Fellow*, Hope Center Program on Protein Aggregation and Neurodegeneration

Barnes-Jewish Hospital, Washington University in St. Louis, MO

7/2009-6/2014: *Residency*, Neurological Surgery

Barnes-Jewish Hospital, Washington University in St. Louis, MO

7/2008-6/2009: *Internship*, General Surgery

Barnes-Jewish Hospital, Washington University in St. Louis, MO

**Certifications:**

5/2024-5/2025: Fellow of the Congress of Neurological Surgeons (F.C.N.S.)

12/2021-Present: Recognition of Focused Practice (RFP) in CNS Endovascular Surgery (Society of Neurological Surgery)

10/2020-Present: Board Certified Diplomate of Neurological Surgery (American Board of Neurological Surgery)

10/2020-Present: Fellow of the American Association of Neurological Surgery (F.A.A.N.S.)

**Licensure:**

5/17/17-7/31/2026: Illinois State Medical License (Active; License Number: 036143220)

**Academic Appointments:**

3/2022-1/2023: *Associate Professor*, Neurological Surgery and Radiology  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

8/2017-3/2022: *Assistant Professor*, Neurological Surgery and Radiology  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

7/2015-6/2016: *Clinical Assistant Professor*, Neurological Surgery  
Emory University Hospital, Emory University School of Medicine, Atlanta, GA

**Hospital or Affiliated Institution Appointments:**

7/2023-Present: *Staff Neurosurgeon and Neuro-Endovascular Surgeon*  
Silver Cross Hospital, Midwest Institute for Neuroscience, New Lenox, IL

10/2018-3/2022: *Staff Neurosurgeon and Neuro-Endovascular Surgeon*  
Silver Cross Hospital, Midwest Institute for Neuroscience, New Lenox, IL

**Major Administrative Responsibilities:**

10/2025-Present: *Chief-of-Staff/Chairman of Surgical Services*  
Silver Cross Hospital, New Lenox, IL

7/2023-Present: *Director of Neurological and Neuro-Endovascular Surgery*  
Silver Cross Hospital, Midwest Institute for Neuroscience, New Lenox, IL

2/2022-1/2023: *Neurosurgery Liasson/Advocate for Diversity, Equity, and Inclusion*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2021-1/2023: *Director of Neurosurgery Resident Research Curriculum*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2021-1/2023: *Neurosurgery Liasson for the Trauma Surgery Service*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

7/2020-1/2023: *Director of Neuro-Endovascular Surgery Fellowship Program* (ACGME and CAST Accredited)

Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2018-1/2023: *Stritch School of Medicine (SSOM) Neurosurgery Faculty Advisor*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

10/2018-3/2022: *Director of Neuro-Endovascular Surgery*  
Silver Cross Hospital, Midwest Institute for Neuroscience, New Lenox, IL

**Major Committee Assignments:**

2/2026-Present, *Communication and Optimal Resolution (CANDOR) Response Team*  
Silver Cross Hospital, New Lenox, IL

10/2025-Present, *Improving Organizational Performance Committee*  
Silver Cross Hospital, New Lenox, IL

10/2025-Present, *Clinical Excellence Committee*  
Silver Cross Hospital, New Lenox, IL

8/2025-Present, *Medical Staff Quality Committee (MSQC)*  
Silver Cross Hospital, New Lenox, IL

8/2025-Present, *Medical Executive Committee*  
Silver Cross Hospital, New Lenox, IL

7/2023-Present: *Trauma Multidisciplinary Peer Review Committee*  
Silver Cross Hospital, New Lenox, IL

9/2021-7/2023: *AANS/CNS Joint Guidelines Review Committee (JGRC)*, Cerebrovascular (CV) Section Representative

6/2021-1/2023: *Neurosurgery Representative for the Faculty Ambassador's Committee*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2021-1/2023: *Stritch School of Medicine Credentialing Committee*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2021-1/2023: *Scientific Abstract and Fellowship Application Award Review Committee*, Neurosurgery Research and Education Foundation (NREF)

6/2020-1/2023: *Trauma Multidisciplinary Peer Review Committee*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2020-1/2023: *Graduate Medical Education Committee (GMEC)*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

6/2020-1/2023: *Scientific and Clinical Abstract Review Committee*, American Association of Neurological Surgery (AANS) Annual Scientific Meeting

10/2018-3/2022: *Trauma Multidisciplinary Peer Review Committee*  
Silver Cross Hospital, New Lenox, IL

8/2017-1/2023: *Stroke Quality Improvement Committee*

Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

8/2017-1/2023: *Neurological Surgery Quality Improvement Committee*  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

### **Professional Societies:**

6/2020-6/2025: Cerebrovascular (CV) Section of the AANS/CNS  
Role: *Member*

6/2009-Present: American Association of Neurological Surgeons (AANS)  
Role: *Member (6/2009-Present), Fellow (10/2020-Present)*

6/2009-6/2025: Congress of Neurological Surgeons (CNS)  
Role: *Member (6/2009-6/2025), Fellow (6/2024-6/2025)*

6/2007-Present: *Alpha Omega Alpha (AOA) Medical Honors Society*  
Role: *Member*

6/2003-6/2009: Society for Neuroscience (SFN)  
Role: *Member*

6/2000-Present: *Phi Beta Kappa*  
Role: *Member*

### **Editorial Boards and Reviewer Responsibilities:**

6/2022-7/2023: Associate Editor, *Neurointerventional Surgery*

6/2021-1/2023: Ad Hoc Reviewer for *Journal of Endovascular Therapy*

6/2020-1/2023: Editorial Review Board Member, *Journal of Stroke and Cerebrovascular Disease*

6/2018-1/2023: Ad Hoc Reviewer for *Journal of Neurointerventional Surgery, World Neurosurgery, and Stroke*

6/2010-1/2023: Ad Hoc Reviewer for *Journal of Neuroscience, Biochemistry, Journal of Neurosurgery, Neurosurgery, Journal of Neurological Surgery, Neurology, American Journal of Neuroradiology, Brain Research, and British Journal of Neurosurgery*

### **Awards and Honors:**

2026: Recognized as “Best Neurosurgeon in New Lenox in 2026” as analyzed and certified by BusinessRate

2025: Clinical Provider of the Month (March), Unit 5-1/5-2 (Nominated by Staff Nurses for Clinical Excellence)  
Silver Cross Hospital, New Lenox, IL

2020-Present: 5-Star Physician Rating for Excellence in Patient Clinical Care  
Silver Cross Hospital, New Lenox, IL

2017 & 2018: Magis Star Recognition for Outstanding Neurosurgical Clinical Care  
Loyola University Medical Center, Stritch School of Medicine, Maywood, IL

2014: Tae Sung Park, M.D., Award for Academic Excellence on the Written ABNS Neurosurgical Board Examination (>90<sup>th</sup> percentile)

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2014: Best Oral Presentation (Co-Author), Annual Patient Safety and Quality Improvement Symposium

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2014: Best Poster Presentation (Co-Author), Patient Safety and Quality Symposium

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2013: Neurosurgery Research Education Foundation (NREF) Individual Fellowship, Cerebrovascular Section Research Fellow, Project Title: *Examining the Role of Heparin Sulfate Proteoglycans in the A $\beta$ -Induced Cerebrovascular Dysfunction of Alzheimer's Disease*

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2013: Best Scientific Oral Presentation, Annual Resident Research Symposium

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2013: Individual Scientific Fellowship, Center for Innovation in Neuroscience and Technology

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2011 & 2012: Neurosurgical Surgery Resident Teaching Award

Barnes-Jewish Hospital, Department of Neurosurgery, Washington University in St. Louis, MO

2008: Graduated with highest distinction (top 10% of class) from Northwestern University Feinberg School of Medicine (AOA Medical Honors Society)

2007: Scientific Topical Review Paper Entitled "Nitration in Neurodegeneration: Deciphering the "Hows" "nYs" (Reynolds et al., *Biochemistry*, 2007) recognized as a "Hot Topic" by the American Chemical Society

2006: Best Scientific Poster Presentation, Drug Discovery Program Symposium

Northwestern University Medical School, Chicago, IL

2005 & 2006: Best Scientific Oral Research Presentation, MSTP Annual Retreat

Northwestern University Medical School, Chicago, IL

2000: Biography Published in *The National Dean's List*, awarded to 0.5% of the Nation's Top College Students  
Hope College, Holland, MI

2000: Elected member of *Phi Beta Kappa* Academic Honor Society

Hope College, Holland, MI

2000: Jaecker Chemistry Research Scholarship

Hope College, Holland, MI

2000: *Sigma Xi* Chemistry Research Award

Hope College, Holland, MI

2000: George Birkhoff Award for Outstanding English Student with a Consistent Excellence in Writing

Hope College, Holland, MI

1999: Erica Brubaker Award for Outstanding Performance in the Field of Literature

Hope College, Holland, MI

1999: Charles 29' and Marie Resema Chemistry Scholarship  
Hope College, Holland, MI

1999: Dow Corning Chemistry Research Award  
Hope College, Holland, MI

1999: Vissar Fellowship for Chemistry Research  
Hope College, Holland, MI

## **RESEARCH GRANTS**

### **Grant Funding Information:**

2012-2013: *AANS Neurosurgery Research and Education Foundation (NREF) Award*

Cerebrovascular Section Research Fellow

"Examining the role of Heparin Sulfate Proteoglycans in the Amyloid-Beta-Induced Cerebrovascular Dysfunction of Alzheimer's Disease"

Washington University in St. Louis, Barnes-Jewish Hospital , St. Louis, MO

**Role: Principle Investigator**

2004-2007: *NIH—NINDS F30 NS051043*

*Ruth L. Kirschstein—National Research Service Award (NRSA) Individual Fellowship*

"Nitration of the Microtubule-Associated Tau Protein in Alzheimer's Disease"

Northwestern University, Department of Cell and Molecular Biology, Chicago, IL

**Role: Principal Investigator**

2002-2003: *NIH T32 AG20506 Training Grant*

Northwestern University, Medical Scientist Training Program, Chicago, IL

**Role: Trainee**

2001-2002: *NIH T32 GM08152 Training Grant*

Northwestern University, Medical Scientist Training Program, Chicago, IL

**Role: Trainee**

### **Invited Lectures and Presentations:**

*Silver Cross Hospital Institute for Neuroscience Graduate Medical Education (GME) Lecture*

Title: Mechanical Thrombectomy for Acute Ischemic Stroke

Role: Faculty Lecturer and Discussant

Date: 9/2024

Location: New Lenox, IL

*Silver Cross Hospital Institute for Neuroscience Social Event and Fundraiser*

Title: Stroke: Time is Brain

Role: Co-Chair/Speaker

Date: 5/2024

Location: New Lenox, IL

*University of Missouri Department of Neurological Surgery Grand Rounds*

Title: The Role of Endovascular Flow Diversion in the Treatment of Unruptured Intracerebral Aneurysms

Role: Invited Guest Lecturer

Date: 6/2022

Location: University of Missouri, Columbia, MO

*American Association of Neurological Surgeons (AANS) Interurban Neurosurgical Society Annual Meeting*

Title: Recent Advances in the Endovascular Treatment of Acute Ischemic Stroke

Role: Faculty Presenter and Discussant

Moderator: Shelly Timmons, M.D.

Date: 3/2022

Location: University Club, Chicago, IL

*American Association of Neurological Surgeons (AANS) National Meeting*

Section of Cerebrovascular Surgery

Title: Fishbowl: Discussion and Criticism of Clinical Quandaries Session

Role: Faculty Presenter and Discussant

Moderator: Stavropoula Tjoumakaris

Date: 8/2021

Location: Orlando, FL

*Department of Neurosurgery Resident/Fellow Educational Conference*

Title: Technical Nuances of the Far Lateral Approach

Role: Guest/Invited Faculty Lecturer

Date: 6/2021

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Annual Resident/Fellow Neuroendovascular Surgery Skills Course*

Title: Coiling of Intracerebral Aneurysms

Role: Course Director and Presenter

Date: 5/2021

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Department of Neurosurgery Resident/Fellow Educational Conference*

Title: Adult Traumatic Brain Injury

Role: Guest/Invited Faculty Lecturer

Date: 3/2021

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Silver Cross Hospital Community Educational Lectures*

Title: Acute Ischemic Stroke in Women

Role: Guest/Invited Faculty Lecturer, Moderator, and Discussant

Date: 6/2020

Silver Cross Hospital, New Lenox, IL

*Congress of Neurological Surgeons (CNS) National Meeting*

Section of Cerebrovascular Surgery

Title: Symposia 10, Acute Stroke Care: Guidelines Review and Future Directions (Management of Intracerebral Hemorrhage)

Role: Faculty Presenter and Discussant

Moderators: Mohammad A. Aziz-Sultan, Mandy J. Binning, and R. Webster Crowley

Date: 11/2019

Location: San Francisco, CA

*Congress of Neurological Surgeons (CNS) National Meeting*

Section of Cerebrovascular Surgery

Title: Luncheon Seminar, Contemporary and Practical Management of an Enigmatic Process: Cerebral Vasospasm (Delayed Cerebral Ischemia)

Role: Faculty Presenter and Discussant  
Moderator: Brian M. Howard  
Date: 10/2019  
Location: San Francisco, CA

*Silver Cross Hospital Community Educational Lectures*

Title: Extracranial Carotid Artery Athero-Occlusive Disease and its Management  
Role: Guest/Invited Faculty Lecturer, Moderator, and Discussant  
Date: 6/2019  
Silver Cross Hospital, New Lenox, IL

*Congress of Neurological Surgeons (CNS) National Meeting*

Section of Cerebrovascular Surgery  
Title: Session I: Oral Abstract Presentations  
Role: Co-Moderator and Discussant  
Speakers: Elad I. Levy and J.D. Mocco  
Date: 10/2018  
Location: Houston, TX

*Congress of Neurological Surgeons (CNS) National Meeting*

Section of Cerebrovascular Surgery  
Title: Luncheon Seminar, Dural AV Fistula: Diagnosis, Classification, and Management  
Role: Faculty Presenter and Discussant  
Moderator: Amir R. Dehdashti  
Date: 10/2018  
Location: Houston, TX

*Congress of Neurological Surgeons (CNS) National Meeting*

Section of Cerebrovascular Surgery  
Title: Cerebrovascular Case-Based Discussion Section: Multi-Modality Treatment of Cerebral Arteriovenous Malformations  
Role: Faculty Presenter and Discussant  
Moderator: Chad W. Washington  
Date: 10/2018  
Location: Houston, TX

*Department of Neurological Surgery Grand Rounds, Mayo Clinic*

Title: The Safety of Vasopressor-Induced Hypertension in Subarachnoid Hemorrhage Patients with Co-Existing Unruptured, Unprotected Intracerebral Aneurysms  
Role: Invited Guest Lecturer/Faculty Interview  
Date: 2/2017  
Location: Mayo Clinic, Rochester, MN

*Cerebrovascular Neurosurgery Conference*

Title: The Safety of Vasopressor-Induced Hypertension in Subarachnoid Hemorrhage Patients with Co-Existing Unruptured, Unprotected Intracerebral Aneurysms  
Role: Invited Fellow Speaker  
Date: 7/2016  
Location: Jackson Hole, WY (Personal Residence of L. Nelson Hopkins)

*Department of Neurosurgery Resident Annual Research Symposium, Washington University in St. Louis*

Title: The Safety of Induced Hypertensive Therapy for Treatment of Vasospasm in the Setting of Aneurysmal Subarachnoid Hemorrhage and Other, Unprotected, Unruptured Intracerebral Aneurysms

Role: Resident Presenter

Date: 10/2014

Location: Washington University in St. Louis, Barnes-Jewish Hospital, St. Louis, MO

*American Association of Neurological Surgeons (AANS) National Meeting*

Title: Heparin Sulfate Proteoglycans (HSPG) Mediate Amyloid-Beta-Induced Oxidative Stress and Hypercontractility in Cultured Vascular Smooth Muscle Cells

Role: NREF Cerebrovascular Section Fellow, Invited/Guest Speaker

Date: 4/2013

Location: New Orleans, LA

*Hope Center Annual Research Symposium*

Title: The Role of Heparin Sulfate Proteoglycans in the Amyloid-Beta-Induced Oxidative Stress and Cerebrovascular Dysfunction of Alzheimer's Disease

Role: Guest/Invited Speaker

Date: 3/2013

Location: Washington University in St. Louis, Barnes-Jewish Hospital, St. Louis, MO

### **Meetings and Courses Organized:**

*Department of Surgery Peer Review Conference*

Date: 3/2026-Present (Monthly)

Role: Chairman/Chief-of-Staff

Location: Silver Cross Hospital, New Lenox, IL

*Neurological Surgery Morbidity and Mortality Conference*

Date: 7/2023-Present (Quarterly)

Role: Medical Director

Location: Silver Cross Hospital, New Lenox, IL

*Loyola University Neurosurgery Resident and Medical Student Suturing Course*

Date: 8/2021-1/2023

Role: Course Co-Director

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Annual Neurosurgery Resident/Fellow Stryker Cadaver Lab and Skills Course*

Date: 5/2021-1/2023

Role: Faculty Preceptor for the "Far Lateral Approach" Cadaveric Dissections

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Annual Resident/Fellow Neuro-Endovascular Skills Course*

Date: 5/2021-1/2023

Role: Course Director

Location: Loyola University Medical Center, SSOM, Maywood, IL

*Annual Resident/Fellow Cerebrovascular Anastomosis Course*

Date: 6/2020-1/2023

Role: Presenter and Faculty Preceptor

Location: Loyola University Medical Center, SSOM, Maywood, IL

### **BIBLIOGRAPHY**

### **Original Peer-Reviewed Articles:**

Horowitz PM, Patterson KR, Guillozet-Bongaarts AL, **Reynolds MR**, Caroll CA, Wientraub ST, Bennett DA, Cryns VL, Berry RW, and Binder LI. Early N-Terminal Changes and Caspase-6 Cleavage of Tau in Alzheimer's Disease. *J Neurosci*. 2004 Sept 8; 24(36):7895-902.

**Reynolds MR**, Berry RW, and Binder LI. Site-Specific Nitration and Oxidative Dityrosine Bridging of the Tau Protein by Peroxynitrite: Implications for Alzheimer's Disease. *Biochemistry*. 2005 Feb 8;44(5)1690-700.

Guillozet-Bongaarts AL, Garcia-Sierra F, **Reynolds MR**, Horowitz PM, Fu Y, Wang T, Cahill ME, Bigio EH, Berry RW, and Binder LI. Tau Truncation during Neurofibrillary Tangle Evolution in Alzheimer's Disease. *Neurobiol Aging*. 2005 Jul 26;(7):1015-22.

**Reynolds MR**, Berry RW, and Binder LI. Site-Specific Nitration Differentially Influences Tau Assembly In Vitro. *Biochemistry*. 2005 Oct 25;44(42)13997-4009.

Binder LI, Guillozet-Bongaarts AL, **Reynolds MR**, LaPointe N, and Berry RW. Neurofibrillary Tangles as Windows into Alzheimer's Disease. *J Neurochem*. 2006 96(Suppl 1):135-150.

**Reynolds MR**, Lukas TJ, Berry RW, and Binder LI. Peroxynitrite-Mediated Tau Modifications Stabilize Preformed Filaments and Destabilize Microtubules through Distinct Mechanisms. *Biochemistry*. 2006 Apr 4;45(13):4314-26.

Guillozet-Bongaarts AL, Cahill ME, Cryns VL, **Reynolds MR**, Berry RW, and Binder LI. Pseudophosphorylation of Tau at Serine 422 Inhibits Caspase Cleavage: In Vitro Evidence and Implications for Tangle Formation In Vivo. *J Neurochem*. 2006 May 97(4):1005-14.

**Reynolds MR**, Reyes JF, Fu Y, Bigio EH, Guillozet-Bongaarts, Berry RW, and Binder LI. Tau Nitration Occurs at Tyrosine 29 in the Fibrillar Lesions of Alzheimer's Disease and other Tauopathies. *J Neurosci*. 2006 Oct 18;26(42):10636-45.

**Reynolds MR**, Berry RW, and Binder LI. Nitration in Neurodegeneration: Deciphering the "Hows" "nYs." *Biochemistry*. 2007 Jun 26;46(25);7325-36.

Reyes JF, **Reynolds MR**, Horowitz PM, Fu Y, Guillozet-Bongaarts AL, Berry RW, and Binder LI. A Possible Link between Astrocyte Activation and Tau Nitration in Alzheimer's Disease. *Neurobiol Dis*. 2008 Aug 31(2):198-208.

**Reynolds MR**, Blackburn SL, and Smyth MD. Ossified Pseudomenigocele Following Chiari Decompression Surgery in a Patient with Kleeblattschadel Deformity. *J Neurosurg Pediatr*. 2008 Sept 2(3):203-6.

**Reynolds MR**, Willie JT, Zipfel GJ, and Dacey RG Jr. Sexual Intercourse and Cerebral Aneurysm Rupture: Potential Mechanisms and Precipitants. *J Neurosurg*. 2011 Apr 114(4):969-77.

Stone J, **Reynolds MR**, and Leuthardt EC. Transient Hemispatial Neglect after Surgical Resection of a Right Frontal Lobe Mass. *World Neurosurg*. 2011 Sept-Oct 76(3-4):361.e7-10.

**Reynolds MR**, Blackburn SL, and Zipfel GJ. Recurrent Idiopathic Perimesencephalic Subarachnoid Hemorrhage: A Case Report and Literature Review. *J Neurosurg*. 2011 Sept 115(3):612-6.

**Reynolds MR**, Ray WZ, Strom RG, Blackburn SL, Lee A, and Park TS. Clinical Outcomes after Selective Dorsal Rhizotomy in an Adult Population. *World Neurosurg*. 2011 Jan 75(1):138-44.

**Reynolds MR**, Panagos PD, Zipfel GJ, Lee JM, and Derdeyn CP. Elements of a Stroke Center. *Tech Vasc Interv Radiol*. 2012 Mar 15(1):5-9.

**Reynolds MR**, Vega RA, Murphy RK, Miller-Thomas MM, and Zipfel GJ. Perimesencephalic Subarachnoid Hemorrhage Associated with a Painless, Pupillary-Involving Third Cranial Nerve Palsy: Case Report and Literature Review. *Clin Neurol Neurosurg*. 2012 Oct 114(8):1168-71.

Thurman RJ, Jauch EC, Panagos PD, **Reynolds MR**, and Mocco J. Four Evolving Strategies in the Emergent Treatment of Acute Ischemic Stroke. *Emerg Med Practice*. 2012 Jul 14(7):1-26.

Akbari SH, **Reynolds MR**, Kadkhodayan Y, Cross DT 3<sup>rd</sup>, and Moran CJ. Hemorrhagic Complications after Prasugrel (Effient) Therapy for Vascular Neurointerventional Procedures. *J Neurointerv Surg*. 2013 Jul 5(4):337-43.

Kadkhodayan Y, Shetty VS, Blackburn SL, **Reynolds MR**, Cross DT 3<sup>rd</sup>, and Moran CJ. Pipeline Embolization Device and Subsequent Vessel Sacrifice for Treatment of a Bleeding Carotid Pseudoaneurysm at the Skull Base: A Case Report. *J Neurointerv Surg*. 2013 Sep 1;5(5):e31.

Murphy RK, **Reynolds MR**, Mansur DB, and Smyth MD. Gamma Knife Surgery for a Hemangioma of the Cavernous Sinus in a Child. *J Neurosurg Pediatr*. 2013 Jan 11(1):74-8.

**Reynolds MR**, Hawasli AH, Murphy RK, Ray WZ, Simpson JR, Drzymala RE, and Rich KM. Acute Hemorrhage Following Gamma Knife Radiosurgery to a Clival Meningioma. *J Spine Neurosurg*. 2013 Feb 1;2(2):108.

**Reynolds MR**, Grubb RL Jr, Clarke WR, Powers WJ, Zipfel GJ, Adams HP Jr, and Derdeyn CP for the Carotid Occlusion Surgery Study Investigators. Investigating the Mechanisms of Perioperative Ischemic Stroke in the Carotid Occlusion Surgery Study. *J Neurosurg*. 2013 Oct 119(4):988-95.

**Reynolds MR**, Kamath AA, Grubb RL Jr, Powers WJ, Adams HP, and Derdeyn CP for the Carotid Occlusion Surgery Study Investigators. The Safety of Aeroplane Travel in Patients with Symptomatic Carotid Occlusion. *J Neurol Neurosurg Psychiatry*. 2014 Apr 85(4):435-7.

**Reynolds MR**, Derdeyn CP, Grubb RL Jr, Powers WJ, and Zipfel GJ. Extracranial-Intracranial Bypass for Ischemic Cerebrovascular Disease: What Have We Learned from the Carotid Occlusion Surgery Study? *Neurosurg Focus*. 2014 Jan 36(1):E9.

**Reynolds MR**, Sweeney KJ, Crilly SM, Farrell M, Jaffe ES, and Javadpour M. Rapid, De Novo Development of Isolated Intracranial Rosai-Dorfman Disease: A Case Report. *Br J Neurosurg*. 2014 Feb 29(1):82-4.

**Reynolds MR**, Roland JL, Gibson D, Cimino PJ, Chicoine MR, and Moran CJ. Acute Intratumoral Hemorrhage after Diagnostic Cerebral Catheter Angiography: A Case Report and Literature Review. *J Spine Neurosurg*. 2014 3(6).

**Reynolds MR**, Mollman ME, Murphy RK, Arias EJ, and Zipfel GJ. Acute Rupture of a Previously Unruptured, Untreated Intracerebral Aneurysm during Induced Hypertension for Vasospasm in Subarachnoid Hemorrhage. *J Spine Neurosurg*. 2014 3(5).

**Reynolds MR**, Crilly SM, Sweeney KJ, Farrell, and Rawluk D. Metastatic Pancreatic Neuroendocrine Tumor to the Central Nervous System in a Patient with Von Hippel-Lindau Disease: A Case Report and Literature Review. *B J Neurosurg*. 2015 Apr 29(2):291-3.

Murphy RK, Liu B, Srinath A, **Reynolds MR**, Liu J, Craighead MC, Camins BC, Dhar R, Kummer TT, and Zipfel GJ. No Additional Protection Against Ventriculitis with Prolonged Systemic Antibiotic Prophylaxis for Patients Treated with Antibiotic-Coated External Ventricular Drains. *J Neurosurg*. 2015 May 122(5):1120-6.

**Reynolds MR** and Zipfel GJ. Book Review: Seven AVMs, Tenets and Techniques for Resection. *Neurosurg*. 2015 76(6):781-3.

**Reynolds MR**, Buckley RT, Indrakanti SS, Turkmani AH, Oh G, Crobeddu E, Fargen KM, El Ahmadieh TY, Naidech AM, Amin-Hanjani S, Lanzino G, Hoh BL, Bendok BR, and Zipfel GJ. The Safety of Vasopressor-Induced Hypertension in Subarachnoid Hemorrhage Patients with Co-Existing Unruptured, Unprotected Intracranial Aneurysms. *J Neurosurg*. 2015 Oct 123(4):862-71.

Hawasli AH, Chang J, **Reynolds MR**, and Ray WZ. Transfer of the Brachialis to the Anterior Interosseus Nerve as a Treatment Strategy for Cervical Spinal Cord Injury. *Global Spine J*. 2015 Apr 5(2):110-7.

**Reynolds MR**, Roland JR, Kamath AA, Cross DT 3<sup>rd</sup>, and Dacey RG Jr. Microsurgical Confirmation of Perforating Arteries Arising from the Fundus of a Posterior Communicating Artery Aneurysm. *Neurosurg Focus*. 2015 Jul;39 Video Suppl 1:V16.

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