

**Curriculum Vitae**  
Aaron Patrick Wessel, MD, FAANS, FCNS  
Neurosurgeon  
Sentara Medical Group

**DATE** Jan 26, 2026

**CONTACT INFORMATION**

Address: 301 Riverview Ave Ste 202A  
Norfolk, VA 23510

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Personal Email: apwessel@gmail.com

**EDUCATION**

09/2006 – 05/2010 Bachelor of Science, Biology (*with Distinction*), University of Wisconsin, Madison, Wisconsin  
08/2010 – 05/2014 Doctor of Medicine (*Research Track*), The George Washington University School of Medicine & Health Sciences, Washington, District of Columbia

**POST-DOCTORAL TRAINING**

07/2014 – 06/2015 *Intern*, Department of Neurosurgery, University of Maryland Medical Center, Baltimore, Maryland  
07/2015 – 06/2020 *Resident*, Department of Neurosurgery (expected graduation June 2021), University of Maryland Medical Center, Baltimore, Maryland  
07/2016 – 06/2017 *Resident*, Trauma Neurosurgery Service, R. Adams Cowley Shock Trauma Center, Baltimore, Maryland  
01/2018 – 04/2018 *Resident*, Pediatric Neurosurgery (4 months), Department of Neurosurgery Johns Hopkins Hospital, Baltimore, Maryland  
07/2018 – 06/2019 *Enfolded Endovascular Fellow*, Department of Radiology, University of Maryland Medical Center, Baltimore, Maryland  
07/2019 – 12/2019 *Elective Clinical/Research Rotation (6 months)*, Neurovascular Surgery, Department of Neurosurgery, University of Maryland Medical Center, Baltimore, Maryland  
07/2020 – 06/2021 *Chief Resident*, Department of Neurosurgery, University of Maryland Medical Center, Baltimore, Maryland  
07/2021 – 07/2022 *CAST-Accredited Endovascular Neurosurgery Fellow*, Mayo Clinic Florida, Jacksonville, Florida

## **CERTIFICATION EXAMS**

2012 United States Medical Licensing Exam Step 1  
2013 United States Medical Licensing Exam Step 2 CK  
2013 United States Medical Licensing Exam Step 2 CS  
2015 United States Medical Licensing Exam Step 3  
2017 American Board of Neurological Surgery, Primary Examination  
2026 American Board of Neurological Surgery, Oral Examination  
(Certificate #2511008)

## **STATE LICENSURE**

Florida – *Inactive*  
Ohio – *Inactive*  
Virginia - *Active*

## **ACADEMIC APPOINTMENTS**

10/2024 – Present Assistant Professor, Department of Neurology  
Macon and Joan Brock Virginia Health Sciences at Eastern Virginia  
Medical School, Norfolk, VA

## **HOSPITAL APPOINTMENTS**

07/2014 – 06/2021 House Staff, Department of Neurosurgery  
University of Maryland Medical Center, Baltimore, Maryland  
07/2014 – 06/2021 House Staff, Department of Neurosurgery  
Baltimore Veterans Affairs Medical Center, Baltimore, Maryland  
07/2014 – 06/2021 House Staff, Trauma Neurosurgery  
R. Adams Cowley Shock Trauma Center, Baltimore, Maryland  
07/2015 – 06/2017 Adjunct Staff, Neurocare Intensive Care Unit  
University of Maryland Medical Center, Baltimore, Maryland  
01/2018 – 04/2018 House Staff, Department of Neurosurgery  
Johns Hopkins Hospital, Baltimore, Maryland  
07/2018 – 06/2019 House Staff, Department of Radiology  
University of Maryland Medical Center, Baltimore, Maryland  
07/2021 – 07/2022 Associate Surgeon, Department of Neurosurgery  
Mayo Clinic Florida, Jacksonville, FL  
08/2022 – Present Sentara Norfolk General Hospital  
Norfolk, VA  
08/2022 – Present Sentara Virginia Beach General Hospital  
Virginia Beach, VA

## **HONORS AND AWARDS**

2006 Rasmussen Scholarship, Stevens Point, Wisconsin

2006 – 2010 Dean’s List, University of Wisconsin, Madison, Wisconsin  
 2011 William T. Gill Research Fellowship in Endoscopic Skullbase Surgery, George Washington University School of Medicine & Health Sciences, Washington, District of Columbia  
 2014 *Winner*, Surgical Skills Competition, George Washington University School of Medicine & Health Sciences, Washington, District of Columbia  
 2016 *Nominee*, UM ER Excellent Consultant Award, Baltimore, Maryland  
 2017 *Nominee*, UM ER Excellent Consultant Award, Baltimore, Maryland  
 2017 RUNN Resident Award, Society of Neurological Surgeons  
 2019 Gallery of Excellence Award, Society of Academic Emergency Medicine  
 2019 5-Year Service Award, University of Maryland Medical Center, Baltimore, Maryland  
 2022 Walter Grand Neurosurgical Forum Award

### **RESEARCH POSITIONS**

08/2007 – 12/2007 Research Assistant  
 Department of Biomedical Engineering  
 University of Wisconsin, Madison, Wisconsin  
 09/2009 – 06/2010 Research Assistant  
 Department of Pediatrics  
 University of Wisconsin, Madison, Wisconsin  
 06/2011 – 05/2014 Medical Student Researcher  
 Endoscopic Pituitary and Skullbase Surgery Program  
 George Washington University School of Medicine & Health Sciences  
 Washington, District of Columbia  
 07/2017 – 06/2021 Co-Developer  
 The Maryland Neurosurgery Outcomes Registry  
 University of Maryland Medical Center, Baltimore, Maryland

### **FUNDING**

05/2013 – 08/2013 William T. Gill Research Fellowship, George Washington University School of Medicine & Health Sciences  
 Surgical Anatomy and Physiology for the Skull Base Surgeon  
 Award Amount: \$3,000.00  
 05/2017 – 05/2018 Society of Neurological Surgeons  
 Magnetic resonance vessel wall imaging: a prospective comparative analysis of vessel wall enhancement and TNF- $\alpha$ , TLR-4, NF-kB, and MMP-9 expression in ruptured and unruptured cerebral aneurysms  
 Award Amount: \$5,000.00

### **TEACHING ACTIVITIES**

07/2006 – 08/2006 Migrant Program Student Tutor, Stevens Point Area Public School District, Stevens Point, Wisconsin

09/2008 – 05/2009 Undergraduate Tutor, Department of Physiology, University of Wisconsin, Madison, Wisconsin

### **COMMITTEES**

08/2010 – 04/2011 Body Donor Memorial Service Planning Committee, George Washington University School of Medicine & Health Sciences, Washington, District of Columbia

01/2014 – 05/2014 Neurosurgery Interest Group, George Washington University School of Medicine & Health Sciences, Washington, District of Columbia

07/2015 – 06/2016 Neurosurgery Quality Improvement Committee, Resident Attendee University of Maryland Medical Center, Baltimore, Maryland

10/2018 – 01/2019 Neurosurgery Resident Selection Committee University of Maryland, Department of Neurosurgery

07/2019 – 06/2021 Resident Advisor, University of Maryland Student Chapter of the American Association of Neurological Surgeons

04/2023 – Present Intracerebral Hemorrhage Protocol Workgroup Sentara Norfolk General Hospital

05/2023 – Present Neuroscience Quality Improvement Committee Chair Sentara Norfolk General Hospital

05/2024 – Present Trauma Systems Committee, Sentara Norfolk General Hospital

### **EDITORIAL ACTIVITIES**

2015 Textbook Proposal Reviewer, Thieme Publishers

2016 Ad Hoc Reviewer, *Operative Neurosurgery*, Oxford Academic

2019 Ad Hoc Reviewer, *Neuroradiology*, Springer Publishers

2019 Ad Hoc Reviewer, *Neurographics*, American Society of Neuroradiology

2019 Ad Hoc Reviewer, *Journal of Spine Surgery*, AME Publishing Company

2019 Ad Hoc Reviewer, *The Neuroradiology Journal*, SAGE Journals

2020 Ad Hoc Reviewer, *Research Square*, American Journal Experts

2020 Ad Hoc Reviewer, *Neuroradiology*, Springer Publishers

2020 Ad Hoc Reviewer, *Journal of Spine Surgery*, AME Publishing Company

2020 Ad Hoc Reviewer, *World Neurosurgery*, Elsevier

### **CONTINUING EDUCATION**

10/2016 Research Update in Neuroscience for Neurosurgeons, Woods Hole, MA; Course Directors: Allan H. Friedman, MD; Robert M. Friedlander, MD, MA

01/2019 2019 Annual Spetzler Microneurosurgery Course, BNI, Phoenix, AZ; Course Director: Michael T. Lawton, MD, FAANS

- 11/2019 AANS/NREF Endovascular and Vascular Techniques Course for Senior Residents, Memphis, TN; Course Directors: Adam S. Arthur, MD, MPH, FAANS, FACS; Erol Veznedaroglu, MD, FAANS, FACS, FAHA; Michael T. Lawton, MD, FAANS
- 02/2020 Minimally Invasive Parafascicular Surgery (MIPS): A Deficit-Sparing Approach; Johns Hopkins Hospital, Baltimore, MD; Course Director: Gustavo Pradilla
- 02/2024 Stryker Spine, Minimally Invasive Solutions  
Fort Lauderdale, FL

### **LOCAL AND NATIONAL SERVICE**

2007 – 2008 Emergency Room Volunteer, St. Mary's Hospital, Madison, Wisconsin

### **OTHER CERTIFICATION**

- 2017 - Present *Basic Life Support*, American Red Cross
- 2017 - Present *Advanced Cardiac Life Support*, American Red Cross
- 2017 *Certificate*, Statistical Reasoning for Public Health  
Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland

### **PUBLICATIONS**

#### **Peer-Reviewed Journal Articles**

1. Singh A, **Wessell A**, Anand VK, Schwartz TH. Surgical anatomy and physiology for the skull base surgeon. *Operative Techniques in Otolaryngology – Head and Neck Surgery*. 2011. 22(3):184-93
2. **Wessell A**, Singh A, Litvack Z. One-piece modified gasket seal technique. *J Neurol Surg B Skull Base*. 2013 Oct.; 74(5):305-10. doi: 10.1055/s-0033-1348952
3. **Wessell A**, Singh A, Litvack Z. Preservation of olfaction after unilateral endoscopic approach for resection of esthesioneuroblastoma. *J Neurol Surg Rep*. 2014 Aug;75(1):e149-53. doi: 10.1055/s-0034-1376427
4. **Wessell A**, DeRosa P, Cherrick A, Sherman J. Cervical instability in Klippel-Feil syndrome: case report and review of the literature. *Chinese Neurosurgical Journal*, 2015;1:6. doi: 10.1186/s41016-015-0002-7
5. Hayman E, **Wessell A**, Gerzanich V, Sheth KN, Simard JM. Mechanisms of global cerebral edema formation in aneurysmal subarachnoid hemorrhage. *Neurocrit Care*. 2016 Dec 19. doi: 10.1007/s12028-016-0354-7.
6. Schultz R, Stevens A, **Wessell A**, Fischbein N, Sansur C, Gandhi D, Ibrahim D, Raghavan P. Differentiation of idiopathic spinal cord herniation from arachnoid webs on MRI and CT Myelography. *J Neurosurg Spine*. 2017;1-6. doi: 10.3171/2016.11.SPINE16696.
7. **Wessell A**, Kole MJ, Badjatia N, Parikh G, Albrecht JS, Schreiber D, Simard JM. High compliance with scheduled nimodipine is associated with better outcome in aneurysmal subarachnoid hemorrhage patients co-treated with heparin infusion. *Front. Neurol*. Doi: 10.3389/fneur.2017.00268.

8. **Wessell A**, Hersh DS, Ho CY, Lumpkins KM, Groves M. Surgical treatment of a type IV cystic sacrococcygeal teratoma with intraspinal extension utilizing a posterior-anterior-posterior approach: a case report. *Childs Nerv Syst*. Jan 24, 2018.
9. **Wessell A**, Kole MJ, Cannarsa G, Oliver J, Jindal G, Miller T, Gandhi D, Parikh G, Badjatia N, Aldrich EF, Simard JM. A sustained systemic inflammatory response syndrome is associated with shunt-dependent hydrocephalus after aneurysmal subarachnoid hemorrhage. Accepted for publication by *Journal of Neurosurgery*, 2018.
10. **Wessell A**, Mushlin H, Fleming C, Lewis E, Sansur C. Thoracic discectomy through a unilateral transpedicular or costotransversectomy approach with intraoperative ultrasound guidance. *Accepted to Operative Neurosurgery*, 2018.
11. Aarabi B, Olexa J, Chryssikos T, Galvagno SM, Hersh D, **Wessell A**, Sansur C, Schwartzbauer G, Crandall K, Shanmuganathan K, Simard JM, Mushlin H, Kole M, Le E, Pratt, Cannarsa G, Lomangino CD, Scarboro M, Aresco C, Curry B. Extent of spinal cord decompression in motor complete (AIS grades A and B) traumatic spinal cord injury patients: postoperative MRI analysis of standard operative approaches. *J Neurotrauma*, 2018 Oct 9 doi: 10.1089/neu.2018.5834.
12. Kole MJ, Cannarsa G, Jones S, **Wessell A**, Le E, Jindal G, Aldrich EF, Simard JM, Gandhi D, Miller TR. Pipeline diameter significantly impacts the long-term fate of jailed side branches during treatment of intracranial aneurysms. *AJNR Am J Neuroradiol*, 2018 Nov 1. Doi: 10.3174/ajnr.A5863.
13. Kole MJ, Miller TR, Cannarsa G, **Wessell A**, Jones S, Le E, Jindal G, Aldrich EF, Simard JM, Gandhi D. Pipeline embolization device diameter is an important factor determining the efficacy of flow diversion treatment of small intracranial saccular aneurysms. *J Neurointerv Surg*, 2019 Mar 29.
14. Jindal G, Carvalho H, **Wessell A**, Le E, Naragum V, Miller T, Shivashankar R, Wozniak M, Gandhi D. Beyond the First Pass: Revascularization Remains Critical in Stroke Thrombectomy. *J Neurointerv Surg*, 2019 May 2.
15. Khatrar N, Fortuny EM, **Wessell AP**, John KD, Bak E, Adams SW, Meyer KS, Schirmer CS, Simard JM, Niemat JS, Ding D. Minimally invasive surgery for spontaneous cerebellar hemorrhage: a multicenter study. *World Neurosurgery*, 2019 Apr 28.
16. Kole MJ, Shea P, Cannarsa G, **Wessell AP**, Albrecht J, Simard JM. Utility of the Hijdra sum score in predicting risk of aneurysm in patients presenting with subarachnoid hemorrhage. *Neurosurgery* 2019 Sept 9.
17. Aarabi B, Akhtardanesh N, Chryssikos T, Shanmuganathan K, Schwartzbauer G, Simard JM, Olexa J, Sansur C, Crandall K, Mushlin H, Kole M, Le E, **Wessell A**, Pratt N, Cannarsa G, Lomangino C, Scarboro M, Aresco C, Oliver J, Caffes N, Carbine S, Kanami M. Efficacy of Ultra-Early (<12 hours), Early (12-24 hours), and Late (>24-138.5 hours) Surgery with MRI-Confirmed Decompression in AIS grades A, B, and C Cervical Spinal Cord Injury. *Journal of Neurotrauma* 2019 Aug 1.
18. **Wessell AP**, Cannarsa G, Carvalho H, Kole MJ, Sharma P, Le EJ, Jindal G, Miller TR, Gandhi D. Thrombectomy for acute ischemic stroke with the new Sofia 6-French PLUS distal access reperfusion catheter: a single-center experience. *The Neuroradiology Journal*, 2019.
19. Gurshawn T, Jackson M, Barr J, Cao-Pham M, Capobianco P, Kuhn D, Pope K, Strong J, Kole MJ, **Wessell AP**, Thom S, Tran QK. Transportation management affecting

- outcomes of patients with spontaneous intracerebral hemorrhage. *Air Medical Journal* 00 (2019) 1-7. <https://doi.org/10.1016/j.amj.2019.12.001>.
20. **Wessell AP**, Carvalho H, Le E, Cannarsa G, Kole MJ, Miller TR, Chaturvedi S, Gandhi D, Yarbrough K, Satti S, Jindal G. A critical assessment of the golden hour and the impact of procedure timing in stroke thrombectomy. *AJNR* 2020 May; 41(5):822-827.
  21. Nguyen T, Pope K, Capobianco P, Cao-Pham M, Hassan S, Kole MJ, O'Connell C, **Wessell AP**, Strong J, Tran QK. Sedation and hyperosmolar therapy were associated with blood pressure variability and outcome among patients with spontaneous intracranial hemorrhage in emergency departments. *Journal of Emergencies Trauma and Shock*. 2020 April-June 13(2): 151-160.
  22. Mushlin H, Lessing N, **Wessell A**, Chryssikos T, Pratt N, Caffes N, Oliver J, Aarabi B, Schwartzbauer G. The effect of elevated mean arterial blood pressure in cervical traumatic spinal cord injury with hemorrhagic contusion. *World Neurosurgery*. 2020 Sep 2;S1878-8759(20)319-X. doi:10.1016/j.wnew.2020.08.163.
  23. Kole MJ, **Wessell AP**, Ugiliweneza B, Cannarsa GJ, Fortuny E, Stokum JA, Shea P, Chryssikos TJ, Khattar NK, Crabill GA, Schreiber DL, Badjatia N, Gandhi D, Aldrich F, James RF, Simard JM. Low-dose intravenous heparin infusion after aneurysmal subarachnoid hemorrhage is associated with decreased risk of delayed neurologic deficit and cerebral infarction. *Neurosurgery*. 02 December 2020.
  24. Greenfield A, Bailey J, **Wessell AP**, Olexa J, Sansur CA. A unique case of *Rhizopus oryzae* brain abscess treated with intracavitary amphotericin. *Br J Neurosurg*. 2020 Dec4;1-4.
  25. Cannarsa GJ, Olexa J, Chryssikos T, **Wessell AP**, Sharma A, Miller TR, Jindal G, Aarabi B, Gandhi D. Stand-alone middle meningeal artery embolization for treatment of giant chronic subdural hematoma in the elderly, frail patients: a case series. *Neurosurgery Open*. Oct 10, 2020.
  26. Tran QK, Dave S, Haase DJ, Tiffany L, Gaasch S, Chang W, Jones K, Kole MJ, **Wessell AP**, Schwartzbauer G, Scalea TM, Menaker J. The transfer of patients with spontaneous intracranial hemorrhage in need of external ventricular drain placement – does location matter? *Western Journal of Emergency Medicine*. 2021 Jan. 12. Online ahead of Print. <https://escholarship.org/uc/item/662334ch>
  27. Aarabi B, Albrecht JS, Simard JM, Chryssikos T, Schwartzbauer G, Sansur C, Crandall K, Gertner M, Howie B, **Wessell A**, Cannarsa G, Caffes N, Oliver J, Shanmuganathan K, Olexa J, Lomangino C, Scarboro M. Trends in demographics and markers of injury severity in traumatic cervical spinal cord injury. *J Neurotrauma*. 2021 Mar 15;38(6):756-764
  28. Stokum Ja, Cannarsa GJ, **Wessell AP**, Shea P, Wenger N, Simard JM. When the blood hits your brain: the neurotoxicity of extravasated blood. *International Journal of Molecular Sciences*. *Int J Mol Sci*. 2021 May 12;22(10):5132
  29. Miller TR, **Wessell AP**, G Jindal, Malhotra A, Simard JM, Gandhi D. The utility of platelet inhibition testing in patients undergoing pipeline embolization of intracranial aneurysms. *J Neurointerv Surg*. 2021 Jun 2;neurintsurg-2021-017681
  30. Chryssikos T, **Wessell A**, Pratt N, Cannarsa G, Sharma A, Olexa J, Han N, Schwartzbauer G, Sansur C, Crandall K. Enhanced safety of pedicle subtraction osteotomy reduction using intraoperative ultrasound. *World Neurosurg*. 2021 Aug;152:e523-e531

31. Cannarsa GJ, **Wessell AP**, Chryssikos T, Stokum JA, Kim K, Carvalho HDP, Miller TR, Gandhi D, Simard JM, Jindal G. Peri-procedural factors associated with malignant cerebral edema and hemorrhage after mechanical thrombectomy. *Neurosurgery*. 2022 Jan 1;90(1):66-71.
32. Kim K, **Wessell A**, Oliver J, Stokum J, Boulter J, Aarabi B, Chryssikos T, Schwartzbauer G. Comparative therapeutic effectiveness of anticoagulation and conservative management in traumatic cerebral venous thrombosis. *Neurosurgery*. 2022 Jun ;90(60):708-716.
33. Chryssikos T, Stokum JA, Ahmed AK, Chen C, **Wessell A**, Cannarsa G, Caffes N, Oliver J, Olexa J, Shea P, Labib M, Woodworth G, Ksendzovsky A, Bodanapally U, Crandall K, Sansur C, Schwartzbauer G, Aarabi B. Surgical decompression of traumatic cervical spinal cord injury: a pilot study comparing real-time intraoperative ultrasound after laminectomy with postoperative MRI and CT myelography. *Neurosurgery*. 2023 Feb 1;92(2):353-362.
34. Moniz-Garcia D, Ravindran K, **Wessell A**, Muneer MS, Ahmed E, Perez Vega C, Kashyap S, Vibhute P, Gupta V, Freeman WD, Sandhu S, Tawk RG. Intracranial Aneurysms in patients with acute ischemic stroke prevalence and influence on mechanical thrombectomy over 14 years in a tertiary-care center. *J Clin Neurosci*. 2024 Jun;124:109-114.

#### **Book Chapters**

1. **Wessell A**, Watson J, Singh A. Advanced endoscopic skull base anatomy. In: *Surgical Techniques in Otolaryngology: Head and Neck Surgery Sinonasal Surgery*. JayPee Brothers Medical Publishers. 2015.
2. **Wessell A**, Pratt NL, Aarabi B. Emergency medical management in spinal cord injury. *Neurotrauma: Fundamental Elements for Emergency Management, Surgery and Critical Care*. Editor: Andrés M. Rubiano MD, PhD.
3. Pratt NL, **Wessell A**, Aarabi B. Prognosis in spinal cord injury. *Neurotrauma: Fundamental Elements for Emergency Management, Surgery and Critical Care*. Editor: Andrés M. Rubiano MD, PhD.
4. Aarabi B, Pratt N, Cannarsa G, Patel A, Chryssikos T, Scarboro M, **Wessell A**. Patient selection for decompressive craniectomy in traumatic brain injury. Nova Sciences, 2018. Editor: B. Aarabi, MD, FRCSC & J. Marc Simard, MD, PhD.

#### **Medical Illustrations**

1. *Operative Techniques in Otolaryngology – Head and Neck Surgery*. 2011. 22(3). (Cover illustration).
2. *Surgical Techniques in Otolaryngology: Head & Neck Surgery Sinonasal Surgery*. JayPee Brothers Medical Publishers. 2015. (Cover illustration).
3. *Operative Techniques in Otolaryngology – Head and Neck Surgery*. 2011. 22(3). “Surgical Anatomy and Physiology for the Skull Base Surgeon.”
4. Journal of Neurological Surgery Reports. Oct. 2013. “One-Piece Modified Gasket Seal Technique.”
5. Journal of Neurological Surgery Reports. Aug. 2014. “Preservation of olfaction after unilateral endoscopic approach for resection of esthesioneuroblastoma.”

6. *Surgical Techniques in Otolaryngology: Head & Neck Surgery Sinonasal Surgery.* JayPee Brothers Medical Publishers. 2015.
7. *Neurosurgical Operative Atlas – Vascular Neurosurgery: Third Edition.* “Anterior communicating artery aneurysms.” Thieme Publishers. Editor: R. Loch Macdonald.
8. Neurocritical Care. Dec. 2016. “Mechanisms of global cerebral edema formation in aneurysmal subarachnoid hemorrhage.”
9. Journal of Neurosurgery: Spine. 2017;1-6. “Differentiation of idiopathic spinal cord herniation from arachnoid webs on MRI and CT Myelography.”

## **PRESENTATIONS**

### **National and International Meetings**

1. **Wessell A** (Presenter), Singh A, Litvack Z. One-piece modified gasket seal technique. 23<sup>rd</sup> Annual North American Skull Base Society Meeting. 2013.
2. Singh A, Siu A, **Wessell A** (Presenter), Roberti F, Litvack Z. Use of a synthetic biodegradable fragmentable foam to immobilize vascularized pedicled flaps after multi-layered skull base reconstruction. 23<sup>rd</sup> Annual North American Skull Base Society Meeting. 2013.
3. **Wessell A** (Presenter), Litvack Z, Singh A. Preservation of Olfaction after unilateral endoscopic approach for resection of esthesioneuroblastoma. 59th Annual Meeting of the North American Rhinologic Society. 2013.
4. **Wessell A** (Presenter), Kole M, Badjatia N, Parikh G, Schreiber D, Simard JM. High compliance with scheduled nimodipine is associated with better outcome in aneurysmal subarachnoid hemorrhage patients co-treated with heparin infusion. Annual Meeting of the North American Neurological Association. 2016.
5. Aarabi B, Hersh DS, Le E, Patel A, Mushlin H, Kole M, **Wessell A**, Pratt N, Sliker CW, Simard JM, Sansur CA, Ibrahim DM, Schwartzbauer G, Stein D, Scalea T, Aresco C, Diaz C, Massetti J, Scarboro M, Akhtar-Danesh, N. In traumatic upper cervical spinal cord injuries (C1-C3), Glasgow Coma Scale score, intramedullary lesion length (IMLL) on MRI, and age are independent predictors of mortality. Accepted for presentation at Spine Summit (DSPN), Las Vegas, NV and Global Spine Congress in Milan, Italy. 2017.
6. Khatrar NK, White A, Fortuny E, Aljuboori Z, Schirmer C, **Wessell A**, Simard JM, Neimat JS, James RF. Minimally invasive evacuation of cerebellar hematomas using the Apollo system. 2018 AANS/CNS Joint Cerebrovascular Section Annual Meeting.
7. **Wessell A**, Kole MJ, Cannarsa G, Oliver J, Jindal G, Miller T, Gandhi D, Parikh G, Badjatia N, Aldrich EF, Simard JM. A sustained inflammatory response syndrome is associated with shunt-dependent hydrocephalus after aneurysmal subarachnoid hemorrhage. Accepted for presentation at the 2018 Annual Meeting of the American Association of Neurological Surgeons.
8. Aarabi B, Olexa J, Chryssikos T, Galvagno SM, Hersh D, **Wessell A**, Sansur C, Schwartzbauer G, Crandall K, Shanmuganathan K, Simard JM, Mushlin H, Kole M, Le E, Pratt, Cannarsa G, Lomangino CD, Scarboro M, Aresco C, Curry B. Postoperative MRI evidence of spinal cord decompression in motor complete spinal cord injury. Accepted to Neurotrauma Symposium, 2018.

9. Aarabi B, Schwartzbauer B, Akhtar-Danesh , Sansur C, Shanmuganathan K, Aresco C, Scarboro M, Lomangino CD, Hersh D, **Wessell A**, Le E, Kole M, Mushlin H, Pratt N. The significance of intramedullary lesion length on MRI in upper cervical spinal cord injuries. Accepted to Neurotrauma Symposium, 2018.
10. **Wessell A**, Oliver J, Kole MJ, Cannarsa G, Simard JM. Systemic inflammatory response syndrome and anemia in aneurysmal subarachnoid hemorrhage: an exploratory analysis. Accepted to 2018 Annual Meeting of the Congress of Neurological Surgeons.
11. Aarabi B, Olexa J, Chryssikos T, Galvagno SM, Hersh D, **Wessell A**, Sansur C, Schwartzbauer G, Crandall K, Shanmuganathan K, Simard JM, Mushlin H, Kole M, Le E, Pratt, Cannarsa G, Lomangino CD, Scarboro M, Aresco C, Curry B. Extent of spinal cord decompression in motor complete (AIS grades A and B) traumatic spinal cord injury patients: postoperative MRI analysis of standard operative approaches. Accepted to the 2018 Annual Meeting of the Congress of Neurological Surgeons.
12. Kole MJ, Miller TR, Cannarsa G, **Wessell A**, Jones S, Le E, Jindal G, Aldrich EF, Simard JM, Gandhi D. Diameter of the Pipeline embolization device is an important factor determining the efficacy of flow diversion treatment of intracranial aneurysms. Accepted to the 2018 Annual Meeting of the Congress of Neurological Surgeons.
13. Kole MJ, Ugiliweneza B, **Wessell AP**, Fortuny E, Cannarsa G, Stokum JA, Crabill GA, Khattar NK, Aldrich EF, James RF, Simard JM. Low-dose intravenous unfractionated heparin and in-hospital outcomes after aneurysmal subarachnoid hemorrhage. Accepted to the 2019 International Stroke Conference.
14. Jindal G, Carvalho H, **Wessell A**, Le E, Naragum V, Miller T, Shivashankar R, Wozniak M, Gandhi D. Beyond the First Pass: Revascularization Remains Critical in Stroke Thrombectomy. Accepted to the 57<sup>th</sup> Annual Meeting of the American Society of Neuroradiology, 2018.
15. Tran Q, Cao-Pham M, Gaasch S, Capobianco P, Pope K, **Wessell A**, Kole MJ, Chang W, Schwartzbauer G, Jones K, Scalea T, Menaker J. External-ventricular drain for intracerebral hemorrhage – is time of the essence? Accepted to 2019 Annual Meeting of the Society of Academic Emergency Medicine.
16. Kole MJ, Ugiliweneza B, **Wessell AP**, Fortuny E, Cannarsa G, Stokum JA, Crabill GA, Khattar NK, Aldrich EF, James RF, Simard JM. Outcomes in 233 patients with aneurysmal subarachnoid hemorrhage treated with a continuous intravenous low-dose heparin infusion. Accepted to ISAH 2019.
17. Jindal G, Carvalho H, **Wessell A**, Le E, Naragum V, Miller T, Shivashankar R, Wozniak M, Gandhi D. Beyond the First Pass: Revascularization Remains Critical in Stroke Thrombectomy. Accepted to ASNR 57<sup>th</sup> Annual Meeting, May, 2019.
18. Schreiberman, D. Kole MJ, Ugiliweneza B, **Wessell AP**, Fortuny E, Cannarsa G, Stokum JA, Crabill GA, Khattar NK, Aldrich EF, James RF, Simard JM. The use of a low dose heparin infusion to prevent delayed neurological deficits in aneurysmal subarachnoid hemorrhage. Accepted for presentation at the SNACC 2019 Annual Meeting.
19. **Wessell AP**, Kole MJ, Crabill GA, Cannarsa G, Kim K, Simard JM. Cannabis and aneurysmal subarachnoid hemorrhage: a single-center study of the association between cannabis use and poor outcome. Accepted for presentation at the 2019 Annual Meeting of the Congress of Neurological Surgeons.
20. Aarabi B, Akhtardanesh N, Chryssikos T, Shanmuganathan K, Schwartzbauer G, Simard JM, Olexa J, Sansur C, Crandall K, Mushlin H, Kole M, Le E, **Wessell A**, Pratt N,

- Cannarsa G, Lomangino C, Scarboro M, Aresco C, Oliver J, Caffes N, Carbine S, Kanami M. Efficacy of Ultra-Early (<12 hours), Early (12-24 hours), and Late (>24-138.5 hours) Surgery with MRI-Confirmed Decompression in AIS grades A, B, and C Cervical Spinal Cord Injury. 2019 Annual Meeting of the Congress of Neurological Surgeons.
21. **Wessell AP**, Kole MJ, Crabill GA, Cannarsa G, Kim KT, Simard JM. Cannabis and aneurysmal subarachnoid hemorrhage: a single-center study of the association between cannabis use and poor outcome. Accepted to the 2019 Annual Meeting of the Congress of Neurological Surgeons.
  22. **Wessell AP**, Carvalho HDP, Le E, Cannarsa G, Kole MJ, Yarbrough K, Miller TR, Chaturvedi S, Satti S, Gandhi D, Jindal G. A critical assessment of the golden hour and the impact of procedural timing in stroke thrombectomy: a single-center study. Accepted to the 2020 International Stroke Conference.
  23. Mushlin HM, Chryssikos T, Lessing N, Pratt N, Caffes N, Oliver J, **Wessell AP**, Aarabi B, Schwartzbauer G. Elevated mean arterial pressure does not expand hemorrhagic component in cervical traumatic spinal cord injury. Submitted to the 2020 Annual Meeting of the American Association of Neurological Surgeons.
  24. Jindal G, **Wessell AP**, Carvalho H, Cannarsa G, Miller T, Gandhi G. Stroke thrombectomy time of day does not impact patient outcomes. Submitted to the 2020 Annual Meeting of the American Society of Neuroradiology.
  25. Mushlin H, Chryssikos T, Lessing N, Pratt N, Caffes N, Oliver J, **Wessell A**, Aarabi B, Schwartzbauer G. The effect of elevated mean arterial pressure in cervical traumatic spinal cord injury with hemorrhagic contusion. Accepted to the 2020 Annual Meeting of the AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves.
  26. Carvalho H, **Wessell A**, Miller TR, Gandhi D, Jindal G. Race in stroke thrombectomy does not significantly impact patient outcomes. Accepted to the 2020 International Stroke Conference.
  27. Cannarsa G, **Wessell A**, Chryssikos T, Stokum J, Carvalho, Miller T, Gandhi D, Jindal G. Four or more thrombectomy passes and TPA use are independently associated with malignant cerebral edema after mechanical thrombectomy: a single-center, retrospective study. [Accepted to SNIS 2020]
  28. Carvalho H, **Wessell A**, Cannarsa G, Miller T, Gandhi D, Jindal G. Peri-procedure anemia is associated with poor functional outcome after mechanical thrombectomy for acute ischemic stroke. [Accepted to SNIS 2020]
  29. Jindal G, **Wessell A**, Carvalho H, Cannarsa G, Miller T, Gandhi G. Stroke thrombectomy time of day or night does not impact patient outcomes. [Accepted to ASNR 2020]
  30. Kim K, Wessell A, Oliver J, Stokum J, Boulter J, Aarabi B, Chryssikos T, Schwartzbauer G. Long-term clinical and radiographic follow-up of patients with cerebral venous sinus thrombosis after traumatic skull fractures. [Accepted to CNS 2021]
  31. Carvalho H, **Wessell A**, Cannarsa G, Miller T, Gandhi D, Jindal G. The impact of intravenous thrombolysis on reperfusion status in stroke thrombectomy. [Submitted to 2021 International Stroke Conference]
  32. Oliver J, Chryssikos T, Cannarsa G, **Wessell AP**, Kim K, Schwartzbauer G, Aarabi B. Bilateral twist drill placement for bilateral chronic subdural hematoma: single center outcomes, complications, and readmission rates. [Accepted to CNS 2021]

33. Perez-Vega, Carlos, **Wessell AP**, Tawk R. Carotid revascularization for symptomatic thrombus after failure of medical therapy. Accepted for oral presentation at LINNC Americas 2022 Seminar. Miami, FL March 2022.
34. **Wessell AP**. Intracranial carotid atherosclerosis & aneurysms: medical management & referral to neuro-intervention. Oral presentation at Current Concepts in Vascular Therapies. March 20-22, 2025, Virginia Beach, VA.

### **Local Presentations**

1. **Wessell A** (Presenter), Paguirigan A. Microfluidics meet cell biology: application of microscale techniques for cell biological assays. Undergraduate Research Symposium, University of Wisconsin, Madison, Wisconsin. 2008.
2. Singh A, **Wessell A** (Presenter), Anand VK, Schwartz TH. Surgical anatomy and physiology for the skull base surgeon. 17<sup>th</sup> Annual Research Symposium, the George Washington University, Washington, DC. March 2012.
3. **Wessell A** (presenter), Singh A, Litvack Z. One-piece modified gasket seal technique. Oral presentation at Neurosurgery Grand Rounds, Johns Hopkins Hospital, Baltimore, Maryland; July 18, 2013.
4. **Wessell A** (presenter), Singh A, Litvack Z. One-Piece Modified Gasket Seal Technique. Oral presentation at Neurosurgery Grand Rounds, Vanderbilt University, Nashville, Tennessee; August 30, 2013.
5. **Wessell A**. Unruptured Intracranial Aneurysms: A Current Review. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. 2014.
6. **Wessell A**. Treatment of cerebral vasospasm and delayed neurologic deterioration after subarachnoid hemorrhage. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. 2016.
7. **Wessell A**. Perihematoma edema: discussion of the pathophysiology, role of surgery and a review of emerging therapies. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. Dec. 22, 2016.
8. **Wessell A**. Anemia in the neurovascular patient. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. 2018.
9. **Wessell A**. Review of carotid endarterectomy and carotid artery stenosis trials. Neurointerventional Radiology, University of Maryland, Baltimore, Maryland. June 11, 2019.
10. **Wessell A**. Endovascular treatment of dural arteriovenous fistulas: a practical review. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. June 13, 2019.
11. **Wessell A**. Surgical treatment of intracerebral hemorrhage. Neurosurgery Grand Rounds, University of Maryland, Baltimore, Maryland. April 16, 2020.
12. **Wessell A**. Endovascular treatment of DAVFs: A Practical Review. Neuro ICU Grand Rounds, Mayo Clinic Florida. December 17, 2021.
13. **Wessell A**. Carotid endarterectomy. Mayo Clinic Neurosurgery Resident Educational Lecture. Mayo Clinic Florida. February 7, 2022.
14. **Wessell A**. Low dose continuous IV heparin in aneurysmal subarachnoid hemorrhage. Neurosurgery Grand Rounds, Mayo Clinic Florida. March 21, 2022.