

CURRICULUM VITAE OF ALEXANDER L. COON
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Alexander Lewis Coon, M.D,

February 2018

DEMOGRAPHIC AND PERSONAL INFORMATION

CURRENT APPOINTMENT

2010 – Present Assistant Professor of Neurosurgery, Neurology, and Radiology and Radiological Science
The Johns Hopkins University School of Medicine, Baltimore, Maryland

PERSONAL DATA

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EDUCATION AND TRAINING

Undergraduate

1998 B.S.E., Chemical Engineering, University of Kentucky, Lexington, KY

Doctoral

2003 M.D., Columbia University, College of Physicians and Surgeons, New York, NY

Post-doctoral

2003 – 2004 Intern, Surgery, The Johns Hopkins Hospital, Baltimore, MD

2004 – 2007 Resident, Neurosurgery, The Johns Hopkins Hospital, Baltimore, MD

2007 – 2009 Fellow, Endovascular Neurosurgery and Interventional Neuroradiology, The Johns Hopkins Hospital, Baltimore, MD

2009 – 2010 Chief Resident and Assistant Chief of Service, Neurosurgery, The Johns Hopkins Hospital, Baltimore, MD

PROFESSIONAL EXPERIENCE

2010 – Present Assistant Professor of Neurosurgery, Neurology, and Radiology and Radiological Sciences, The Johns Hopkins University School of Medicine, Baltimore, MD

2010 – 2017 Attending Physician, The Johns Hopkins Hospital and the Johns Hopkins Bayview Medical Center

PUBLICATIONS

Hirsch Index ("H- index"): 23 calculated by Google Scholar

Original Research [OR] *Corresponding Author, Mentees are underlined

1. **Coon AL**, Wallace DR, *Mactutus CF, Booze RM. L-type Calcium channels in the hippocampus and cerebellum of Alzheimer's disease brain tissue. *Neurobiol Aging*. 1999; 20 (6): 597-603.
2. Ivanova S, Batliwalla F, Borovikova L, Yang H, Mocco J, Kiss S, Huang J, Mack W, **Coon AL**, *Bernik T, Haywood-Watson II R, Al-Abed Y, Eaton J, Gregersen P, Shohami E, Connolly E, Tracey K. Neuroprotection in cerebral ischemia by neutralization of 3-aminopropanal. *Proc Nat Acad Sci*. 2002; 99 (8): 5579-5584.
3. *Mack WJ, King RG, Hoh DJ, **Coon AL**, Ducruet AF, Huang J, Mocco JD, Winfree CJ, D'Ambrosio AL, Nair MN, Sciacca RR, Connolly, Jr ES. An Improved Neurological Examination for Use in Non-Human Primate Studies of Focal Reperfused Cerebral Ischemia. *Neurol Res*. 2003; 25(3): 280-284.
4. Mack WJ, Komotar RJ, Mocco J, **Coon AL**, Hoh DJ, King RG, Ducruet AF, Ransom ER, Oppermann M, DeLaPaz R, *Connolly, Jr ES. Serial magnetic resonance imaging in experimental primate stroke: validation of MRI for pre-clinical cerebroprotective trials. *Neurol Res*. 2003; 25(8): 846-852.
5. ***Coon AL**, Colby GP, Mack WJ, Feng L, Meyers P, Connolly ES. Treatment of mechanically-induced vasospasm of the carotid artery in a primate using intra-arterial verapamil: a technical case report. *BMC Cardiovasc Disord*. 2004 Jul 21;4(1):11.
6. McGirt MJ, Woodworth GF, **Coon AL**, Frazier JM, Amundson E, Garonzik I, Olivi A, *Weingart JD. Independent predictors of morbidity after image-guided stereotactic brain biopsy: a risk assessment of 270 cases. *J Neurosurg*. 2005;102(5): 897-901.
7. Colby GP, **Coon AL**, Connolly ES, *Ambron RT. Activation of c-Jun and ATF-2 in primate motor cranial nerve nuclei is not associated with apoptosis following axotomy. *Exp Neurol*. 2005 Jul;194(1):57-65.
8. Lynch JR, Wang H, McGirt MJ, Floyd J, Friedman AH, **Coon AL**, Blessing R, Alexander MJ, Graffagnino C, Warner DS, *Laskowitz DT. Simvastatin reduces vasospasm after aneurysmal subarachnoid hemorrhage: results of a pilot randomized clinical trial. *Stroke*. 2005;36(9): 2024-6.
9. McGirt MJ, Woodworth G, **Coon AL**, Thomas G, Williams MA, *Rigamonti D. Diagnosis, treatment, and analysis of long-term outcomes in idiopathic normal-pressure hydrocephalus. *Neurosurgery*. 2005; 57(4): 699-705; discussion 699-705.
10. McGirt MJ, Perler BA, Brooke BS, Woodworth GF, **Coon AL**, Jain S, Buck D, Roseborough GS, Tamargo RJ, Heller J, Freischlag JA, *Williams GM. 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitors reduce the risk of perioperative stroke and mortality after carotid endarterectomy. *J Vasc Surg*. 2005; 42(5): 829-36.
11. ***Coon AL**, Arias-Mendoza F, Colby GP, Cruz-Lobo J, Mocco J, Mack WJ, Komotar RJ, Brown TR, Connolly ES. Correlation of cerebral metabolites with functional outcome in experimental primate stroke using in vivo 1H-magnetic resonance spectroscopy. *AJNR Am J Neuroradiol*. 2006 May;27(5):1053-8.
12. *McGirt MJ, Woodworth GF, Brooke BS, **Coon AL**, Jain S, Buck D, Huang J, Clatterbuck RE, Tamargo RJ, Perler BA. Hyperglycemia independently increases the risk of perioperative stroke, myocardial infarction, and death after carotid endarterectomy. *Neurosurgery*. 2006; 58(6):1066-1073.
13. Mocco J, Mack WJ, Ducruet AF, King RG, Sughrue ME, **Coon AL**, Sosunov SA, Sciacca RR, Zhang Y, Marsh HC Jr, Pinsky DJ, Connolly ES Jr. Preclinical evaluation of the neuroprotective effect of soluble complement receptor type 1 in a nonhuman primate model of reperfused stroke. *J Neurosurg*. 2006; 105(4): 595-601.
14. Ducruet AF, Mocco J, Mack WJ, **Coon AL**, Marsh HC, Pinsky DJ, Hickman ZL, Kim GH, Connolly ES Jr. Pre-clinical evaluation of an sLe x-glycosylated complement inhibitory protein in a non-human primate model of reperfused stroke. *J Med Primatol*. 2007; 36(6): 375-380.

15. McGirt MJ, Woodworth G, **Coon AL**, Thomas G, Williams MA, Rigamonti D. Diagnosis, treatment, and analysis of long-term outcomes in idiopathic normal-pressure hydrocephalus. *Neurosurgery*. 2008; 62 Suppl 2: 670-677.
16. Colby GP, **Coon AL**, Sciubba D, Bydon A, Gailloud P, *Tamargo RJ. Intraoperative indocyanine green angiography for obliteration of spinal dural arteriovenous fistula. *J Neurosurg Spine*. 2009 Dec;11(6):705-9.
17. Paul AR, Colby GP, Radvany MG, Huang J, Tamargo RJ, ***Coon AL**. Femoral Access in 100 Consecutive Subarachnoid Hemorrhage Patients: The "Craniotomy" of Endovascular Neurosurgery. *BMC Research Notes* 2010 Nov 5;3(1):285.
18. Kretzer RM, **Coon AL**, Tamargo RJ. Walter E. Dandy's contributions to cerebrovascular neurosurgery. *J Neurosurg*. 2010;112(6): 1182-1191.
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20. Ducruet AF, Mack WJ, Mocco J, Hoh DJ, **Coon AL**, D'Ambrosio AL, Winfree CJ, Pinsky DJ, Connolly ES. Pre-clinical evaluation of postischemic dehydroascorbic acid administration in a large-animal stroke model. *Trans Stroke Res*. 2011; 2(3): 399-403.
21. Chaichana KL, **Coon AL**, Tamargo RJ, Huang J. Dural arteriovenous fistulas: epidemiology and clinical presentation. *Neurosurg Clin N Am*. 2012; 23(1): 7-13.
22. ***Coon AL**, Paul AR, Colby GP, Lin LM, Pradilla G, Huang J, Tamargo RJ. Comparison of tertiary-center aneurysm location frequencies in 400 consecutive cases: decreasing incidence of posterior communicating artery region aneurysms. *Surg Neurol Int*. 2011;2:152.
23. Pradilla G, **Coon AL**, Huang J, *Tamargo RJ. Surgical treatment of cranial arteriovenous malformations and dural arteriovenous fistulas. *Neurosurg Clin N Am*. 2012; 23(1): 105-122.
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25. Colby GP, Lin LM, Gomez JF, Paul AR, Huang J, Tamargo RJ, ***Coon AL**. Immediate procedural outcomes in 35 consecutive pipeline embolization cases: A single-center, single-user experience. *J Neurointerv Surg*. 2013 May;5(3):237-46.
26. Wicks RT, Pradilla G, Raza SM, Handelsberg U, **Coon AL**, Huang J, Tamargo RJ. Impact of changes in intraoperative somato-sensory evoked potentials (SSEPs) on stroke rates after clipping of intracranial aneurysms. *Neurosurgery*. 2012;70(5): 1114-1124.
27. Colby GP, Lin LM, Paul AR, Huang J, Tamargo RJ, ***Coon AL**. Cost comparison of endovascular treatment of anterior circulation aneurysms with the pipeline embolization device versus stent-assisted coiling. *Neurosurgery*. 2012 Nov;71(5):944-50.
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30. Puvanesarajah V, Lina IA, Liauw JA, **Coon AL**, Witham TF. Intercostal aneurysm causing spinal cord compression in an NF1 patient. *Eur Spine J*. 2015, 24 (5): 940-944.
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41. Caplan JM, Sankey E, Yang W, Radvany MG, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Impact of indocyanine green videoangiography on rate of clip adjustments following intraoperative angiography. *Neurosurgery*. 2014 Oct;75(4):437-444.
42. *Colby GP, Lin LM, Zeiler SR, **Coon AL**. Curative reconstruction of a cerebral aneurysm by flow diversion with the Pipeline embolization device in a patient with Loeys-Dietz syndrome. *BMJ Case Rep*. 2014 Oct 16
43. Yang W, Wang J, Caplan J, Braileanu M, Shang H, Upadhyay U, Zenonos GA, Rigamonti D, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Predictors of functional outcome following treatment of posterior fossa arteriovenous malformations. *J. Clinical Neurosci*. 2015 Feb;22(2):357-62.
44. Wei Z, Garzon-Muvdi T, Yang W, Caplan JM, Radvany MG, Colby G, **Coon, AL**, Tamargo RJ, *Huang J. Utility of intraoperative diagnostic C-arm angiography for management of high grade subarachnoid hemorrhage. *Interdisciplinary Neurosurgery: Advanced Techniques and Case Management*. 2015 Jun;2(2):98-102.
45. Yang W, Caplan JM, Ye X, Wang JY, Braileanu M, Rigamonti D, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Racial associations with hemorrhagic presentation in cerebral arteriovenous malformations. *World Neurosurgery*. 2015 Aug;84(2):461-9.
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47. *Colby GP, Lin LM, Caplan JM, Jiang B, Huang J, Tamargo RJ, **Coon AL**. Immediate procedural outcomes in 44 consecutive Pipeline Flex cases: the first North American single-center series. *J Neurointerv Surg*. 2016 Jul;8(7):702-9.
48. *Lin LM, Colby GP, Jiang B, Nundkumar N, Huang J, Tamargo RJ, **Coon AL**. Intra-DIC (distal intracranial catheter) deployment of the Pipeline embolization device: a novel rescue strategy for failed device expansion. *J Neurointerv Surg*. 2016;8:840-846.
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53. Yang W, Wei Z, Wang JY, Hung A, Caplan JM, Braileanu M, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Long-term Outcomes of Patients With Giant Intracranial Arteriovenous Malformations. *Neurosurgery*. 2016 Jul;79(1):116-24.
54. Yang W, Hung A, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Delayed Hemorrhage Following Treatment of Brain Arteriovenous Malformations (AVMs). *World Neurosurg*. 2016 Mar;87:98-109.
55. Rong X, Yang W, Garzon-Muvdi T, Ye X, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Risk Factors Associated with Ipsilateral Ischemic Events Following Carotid Endarterectomy for Carotid Artery Stenosis. *World Neurosurg*. 2016 May;89:611-9.
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59. *Lin LM, Colby GP, Iyer RR, Jiang B, Huang J, Tamargo RJ, **Coon AL**. Pentaxial access platform for ultra-distal intracranial delivery of a large-bore hyperflexible DIC (distal intracranial catheter): A technical note. *Interdisciplinary Neurosurgery: Advances Techniques and Case Management* 6. 2016. 29-34
60. Yang W, Porras JL, Garzon-Muvdi T, Xu R, Caplan JM, Hung AL, Braileanu M, Rong X, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Management Outcome of Brainstem Arteriovenous Malformations (AVMs): The Role of Radiosurgery. *World Neurosurg*. 2016 Oct;94:64-72.
61. Yang W, Porras JL, Xu R, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J, *Ahn ES. Effectiveness of Surgical Revascularization for Stroke Prevention in Pediatric Patients with Sickle Cell Disease and Moyamoya Syndrome. *Neurosurgery*. 2016 Aug;63 Suppl 1:178.
62. Yang W, Porras JL, Hung AL, Khalid S, Garzon-Muvdi T, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Risk of hemorrhage in patients over age 60 with arteriovenous malformation (AVMs). *J Clin Neurosci*. 2016 Dec;34:121-127. DOI: 10.1016/j.jocn.2016.05.010.

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64. Porras JL, Yang W, Garzon-Muvdi T, Xu R, Blakeley J, Belzberg A, Caplan JM, Khalid S, Colby GP, **Coon AL**, Tamargo RJ, Ahn ES, *Huang J. Surgical Treatment for Patients with Moyamoya Syndrome and Type 1 Neurofibromatosis. *World Neurosurg*. 2017 Mar;99:19-25. DOI: 10.1016/j.wneu.2016.11.051.
65. Colby GP, Bender MT, Lin LM, Beaty NB, Huang J, Tamargo RJ, ***Coon AL**. Endovascular flow diversion for treatment of anterior communicating artery region cerebral aneurysms: a single-center cohort of 50 cases. *J Neurointerv Surg*. 2017 Jul;9(7):679-685. DOI: 10.1136/neurintsurg-2016-012946.
66. *Lin LM, Colby GP, Bender MT, Xu R, Huang J, Tamargo RJ, **Coon AL**. Use of the 0.027-inch VIA microcatheter for delivery of Pipeline Flex: a technical note. *J Neurointerv Surg*. 2017 Jul;9(7):689-693. DOI: 10.1136/neurintsurg-2016-012971.
67. *Colby GP, Lin LM, Xu R, Beaty NB, Bender MT, Jiang B, Huang J, Tamargo RJ, **Coon AL**. Utilization of a Novel, Multi-Durometer Intracranial Distal Access Catheter: Nuances and Experience in 110 Consecutive Cases of Aneurysm Flow Diversion. *Interv Neurol*. 2017 Mar;6(1-2):90-104. DOI: 10.1159/000456086.
68. Hung AL, Yang W, Westbroek EM, Garzon-Muvdi T, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Differences in Functional Outcome Across Subtypes with Spetzler-Martin Grade II Arteriovenous Malformations. *Neurosurgery*. 2017 Feb 4. doi: 10.1093/neuros/nyw140.
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71. Porras JL, Yang W, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Hemorrhage Risk of Brain Arteriovenous Malformations During Pregnancy and Puerperium in a North American Cohort. *Stroke* 2017 Jun;48(6):1507-1513. doi: 10.1161/STROKEAHA.117.016828.
72. Luksik AS, Law J, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Assessing the Role of Preoperative Embolization in the Surgical Management of Cerebral Arteriovenous Malformations. *World Neurosurg*. 2017 Aug;104:430-441. DOI: 10.1016/j.wneu.2017.05.026.
73. Hung AL, Yang W, Braileanu M, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Risk Assessment of Hemorrhage of Posterior Inferior Cerebellar Artery Aneurysms in Posterior Fossa Arteriovenous Malformations. *Oper Neurosurg (Hagerstown)*. 2017 May 18. DOI: 10.1093/ons/oxp120.
74. Yang W, Westbroek EM, Anderson-Keightly H, Caplan JM, Rong X, Hung AL, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, Ahn ES, *Huang J. Male Gender Associated with Post-Treatment Seizure Risk of Pediatric Arteriovenous Malformation Patients. *Neurosurgery*. 2017 Jun 1;80(6):899-907. DOI: 10.1093/neuros/nyx018.
75. Hung AL, Yang W, Westbroek EM, Garzon-Muvdi T, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, *Huang J. Differences in Functional Outcome Across Subtypes with Spetzler-Martin Grade II Arteriovenous Malformations. *Neurosurgery*. 2017 Jun 1;80(6):991. DOI: 10.1093/neuros/nyx269.
76. Bender MT, Lin LM, **Coon AL**, *Colby GP. Staged curative treatment of a complex direct carotid-cavernous fistula with a large arterial defect and an 'oversized' internal carotid artery. *BMJ Case Rep*. 2017 Jun 14;2017. pii: bcr-2017-219662. DOI: 10.1136/bcr-2017-219662.
77. Yang W, Xu R, Porras JL, Takemoto CM, Khalid S, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J, *Ahn ES. Effectiveness of surgical revascularization for stroke prevention in pediatric

patients with sickle cell disease and moyamoya syndrome. *J Neurosurg Pediatr.* 2017 Jul 7:1-7. doi: 10.3171/2017.1.PEDS16576.

78. *Lin LM, Bender MT, Colby GP, Beaty NB, Jiang B, Campos JK, Huang J, Tamargo RJ, **Coon AL**. Use of a next-generation multi-durometer long guide sheath for triaxial access in flow diversion: experience in 95 consecutive cases. *J Neurointerv Surg.* 2017 Jul 14. pii: neurintsurg-2017-013184. DOI: 10.1136/neurintsurg-2017-013184.
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82. Jiang B, Paff M, Colby GP, **Coon AL**, Lin LM. Cerebral aneurysm treatment: modern neurovascular techniques. *Stroke Vasc Neurol.* 2016 Oct 25;1(3):93-100. DOI: 10.1136/svn-2016-000027.
83. Bender MT, Wendt H, Monarch T, Beaty NB, Lin LM, Huang J, **Coon AL**, Tamargo RJ, Colby GP. Small Aneurysms Account for the Majority and Increasing Percentage of Aneurysmal Subarachnoid Hemorrhage: A 25-Year, Single Institution Study. *Neurosurgery.* 2017 Oct 6. DOI: 10.1093/neuros/nyx484.
84. Yang W, Porras JL, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Treatment decision for occipital arteriovenous malformations (AVMs) to achieve hemorrhagic control while maximizing visual preservation: Our experience and review of literature. *J Clin Neurosci.* 2018 Feb;48:50-57. DOI: 10.1016/j.jocn.2017.10.058.
85. Lin LM, Iyer RR, Bender MT, Monarch T, Colby GP, Huang J, Tamargo RJ, **Coon AL**. Rescue Treatment with Pipeline Embolization for Postsurgical Clipping Recurrences of Anterior Communicating Artery Region Aneurysms. *Interventional Neurology.* 2017 Oct;6(3-4):135-146. DOI: 10.1159/000460264.
86. Porras JL, Yang W, Xu R, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Ahn ES, Tamargo RJ, Huang J. Effectiveness of Ipsilateral Stroke Prevention Between Conservative Management and Indirect Revascularization for Moyamoya Disease in a North American Cohort. *World Neurosurg.* 2017 Dec 2. pii: S1878-8750(17)32045-4. DOI: 10.1016/j.wneu.2017.11.113.
87. Bender MT, Hurtado C, Jiang B, Campos JK, Huang J, Tamargo RJ, Lin LM, **Coon AL**, Colby GP. Safety Assessment of Endovascular Treatment of Cerebral Aneurysms in Patients with Fibromuscular Dysplasia. *Interv Neurol* 2018;7:110-117. DOI: 10.1159/000485133
88. Colby GP, Bender MT, Lin LM, Beaty NB, Caplan JM, Jiang B, Westbroek EM, Varjayand B, Campos JK, Huang J, Tamargo RJ, **Coon AL**. Declining complication rates with flow diversion of anterior circulation aneurysms after introduction of the Pipeline Flex: analysis of a single-institution series of 568 cases. *The Journal of Neurosurgery.* 2018 Jan 12:1-7. DOI: 10.3171/2017.7.JNS171289.
89. Beaty NB, Campos JK, Lin LM, Colby GP, Bender MT, Xu R, **Coon AL**. Pipeline Flex Embolization of Flow-Related Aneurysms associated with Arteriovenous Malformations: A Case Report. *Intervent Neurol* 2018;7:164-170. doi: 10.1159/000484986
90. Lin LM, Jiang B, Campos JK, Beaty NB, Bender MT, Tamargo RJ, Huang J, Colby GP, **Coon AL**. Abciximab (ReoPro) dosing strategy for the management of acute intra-procedural thromboembolic complications during Pipeline flow diversion treatment of intracranial aneurysms. *Interventional Neurology.* 2018 [In Press]

91. Lin LM, Jiang B, Bender MT, Westbroek EM, Campos JK, Tamargo RJ, Huang J, **Coon AL**, Colby GP. 47 Consecutive Cases of Pipeline Flex Flow Diversion Utilizing a Novel Large-Bore Intracranial Intermediate Catheter: Nuances and Institutional Experience with the Syphontrak. *Intervent Neurol*. 2018 [In Press]
92. Wolff A, Santiago GF, Belzberg M, Huggins C, Lim M, Weingart JD, Anderson WS, **Coon AL**, Huang J, Brem H, Gordon CR. Adult cranioplasty reconstruction with customized cranial implants: Preferred technique, timing, and biomaterials. *Journal of Craniofacial Surgery*. 2018 [In Press]
93. Bender MT, Colby GP, Jiang B, Lin LM, Campos JK, Xu R, Westbroek EM, Vo CD, Zarrin DZ, Caplan JM, Huang J, Tamargo RJ, **Coon AL**. Flow Diversion of Posterior Circulation Cerebral Aneurysms: A Single-Institution Series of 59 Cases. *Neurosurgery*. 2018 [In Press]
94. Bender MT, Colby GP, Lin LM, Beaty NB, Caplan JM, Jiang B, Campos JK, Vo CD, Zarrin DA, Huang J, Tamargo RJ, **Coon AL**. Single-stage flow diversion with adjunctive coiling for cerebral aneurysm: outcomes and technical considerations in 72 cases. *J Neurointerv Surg*. 2018 [Submitted]
95. Bender MT, Vo CD, Jiang B, Campos JK, Zarrin DA, Caplan JM, Westbroek EM, Xu R, Huang J, Tamargo RJ, Lin LM, Colby GC, **Coon AL**. Pipeline embolization for salvage treatment of previously-stented residual and recurrent cerebral aneurysms. *Intervent Neurol*. 2018 [Submitted]

Book Chapters, Monographs [BC]

1. Colby GP, **Coon AL**, *Tamargo RJ. Surgical management of aneurysmal subarachnoid hemorrhage. *Neurosurg Clin N Am*. 2010 Apr;21(2):247-61.
2. Colby GP, **Coon AL**, Huang J, *Tamargo RJ. Historical perspective of treatments of cranial arteriovenous malformations (AVMs) and dural arteriovenous fistulas (DAVFs). *Neurosurg Clin N Am*. 2012 Jan;23(1):15-25.
4. Paul AR, Colby GP, Huang J, Tamargo RJ, ***Coon AL**. Selection of treatment modalities or observation of dural arteriovenous fistulas (DAVFs). *Neurosurg Clin N Am*. 2012 Jan;23(1):77-85.
5. Colby GP, Paul AR, Ciceri EF, **Coon AL**. "Endovascular Management of Cranial Dural Arteriovenous Fistulas." In Schmidek and Sweet's Operative Neurosurgical Techniques: Indications, Methods, and Results, 6th Edition. Quinones-Hinojosa A, Editor (Elsevier Saunders, Philadelphia), 2012. pp 1079-1088.
6. Caplan JM, Colby GP, **Coon AL**, Huang J, *Tamargo RJ. Managing subarachnoid hemorrhage in the neurocritical care unit. *Neurosurg Clin N Am*. 2013 Jul;24(3):321-37.
7. Witek A, Colby GP, Lin LM, **Coon AL**. "The Role of Pre-Operative Embolization for Meningiomas (Skull Base and Non-Skull Base)." In Controversies in Neuro-Oncology: Best Evidence Medicine for Brain Tumor Surgery. 1st Edition. Quinones-Hinojosa A and Raza S, Editors. (Thieme Medical Publishers, New York, NY). 2013. Section VII/29

Letters, Correspondence [LT]

1. Colby GP, Lin LM, ***Coon AL**. Revisiting the risk of intraparenchymal hemorrhage following aneurysm treatment by flow diversion. *AJNR Am J Neuroradiol*. 2012. Aug;33(7):E107; author reply E108.

CLINICAL ACTIVITIES**Certification:**

Medical, other state/government licensure

2010-present State of Maryland – D0070409

DEA Certification Number – *available upon request*

Boards, other specialty certification

2014 Certified, American Board of Neurological Surgery

2016 Subspecialty Certification in NeuroEndovascular Surgery, The Society of Neurological Surgeons
Committee on Advanced Subspecialty Training (CAST)

Clinical (Service) Responsibilities:

2010 – Present Attending Neurosurgeon, Johns Hopkins Hospital & Johns Hopkins Bayview Medical Center

Clinical Productivity

	<u>RVUs</u>	<u>Call Days</u>
FY'2011	13,697	49 HAL
FY'2012	17,937	49 HAL
FY'2013	17,226	49 HAL
FY'2014	13,216	49 HAL
FY'2015	11,262	28 HAL, 90 BV Stroke
FY'2016	12,356	28 HAL, 180 BV Stroke
FY'2017	15,757	28 HAL, 180 BV Stroke

EDUCATIONAL ACTIVITIES

TEACHING

Classroom Instruction

2007-present Lecturer, Neurosurgery Cerebrovascular/Endovascular Conference: Weekly hour-long morning interactive case conference dedicated to cerebrovascular and endovascular neurosurgery for residents and medical students.

Clinical Instruction

2010-present Attending physician for Johns Hopkins Neurosurgery Residents teaching in clinics, operating room, and wards

2010-present Attending physician for Johns Hopkins medical students teaching in clinics, operating room, and wards

Clinical Case Proctoring

2011-present Device Proctor for Medtronic Pipeline Embolization Device (>150 case), USA and International

2012-present Device Proctor for Stryker Surpass Flow Diversion Device (>80 cases), USA and International

2012-present Device Proctor for Microvention Flow-Redirection Intraluminal Device (FRED) (>30 cases), USA and International

2014-present Device Proctor for Sequent Woven Endobridge (WEB) Intracranial Device (> 20 cases), USA

2016-present Device Proctor for Medtronic ARTISSE Intracranial Device (Enrolling March 2016), USA

Workshops/Seminars

05/15/12 Pipeline Embolization Technique: 10 Steps to PED Success. Pipeline Fellows Course, Irvine, CA

05/12/14 The Pipeline Embolization Device at The Johns Hopkins Hospital: The Experience, Outcomes, and Lessons. Pipeline International Training (Covidien), Baltimore, MD

05/19/14 Exotic Flow Diversion Cases at Johns Hopkins. Pipeline Dinner Exchange Course, Pittsburgh, PA

03/12/15 The Evolution of Cerebral Aneurysm Treatment in the Flow Diversion Era. University of California Irvine Technologists In-service, Irvine, CA

01/28/16 The Surpass Flow Diverter Comes to Canada: Lessons from the Front Lines at Hopkins. Stryker Flow Diversion Bootcamp, Fremont, CA

08/14/17 Access, Getting Where You Want to Go. Stryker Neurovascular 26th Annual Fellows National Symposium. Fremont, CA. 14 Aug. 2017.

08/26/17 Endovascular Management of Cerebrovascular Aneurysms. The Workshop on Management of Cerebrovascular Aneurysms. University Medical Center: Ho Chi Minh City. Vietnam. 26 Aug. 2017.

09/11/17 The Surpass Training Course. Medanta Medicity, Gurgaon, India. 11 Sept. 2017.

MENTORING

Enfolded Endovascular Fellowship Trainees:

2010-2012 Geoffrey P. Colby M.D., Ph.D., currently the Director of Cerebrovascular Neurosurgery and Associate Professor of Neurosurgery and Radiology at the University of California, Los Angeles

2011-2013 Li-Mei Lin, M.D., currently Assistant Professor of Neurosurgery and Director of the Cerebrovascular/Endovascular Neurosurgery Research Program at the University of California, Irvine

2014-2015 Justin M. Caplan, M.D., currently an Assistant Professor of Neurosurgery at Johns Hopkins University School of Medicine, Baltimore, Maryland

- 2016-present Matthew T. Bender, M.D., currently a Neurosurgery Resident at Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2017-present Bowen Jiang, M.D., currently a Neurosurgery Resident at Johns Hopkins University School of Medicine, Baltimore, Maryland

Post-Doctoral Advisees:

- 2010-2012 Juan Gomez, M.D., Interventional Neuroradiology Fellow, Trained in Flow Diversion, currently practicing Neurointervention at Miami Baptist Hospital
- 2010-2013 Ryan Kretzer, M.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, currently practicing at Western Neurosurgery, LTD, Tucson, Arizona
- 2010-2013 Shaan Raza, M.D., Neurosurgery Resident, Johns Hopkins Hospital, currently Assistant Professor of Neurosurgery at University of Texas, MD Anderson Cancer Center, Houston, Texas
- 2010-2017 C. Rory Goodwin M.D., Ph.D., Neurosurgery Resident, currently Assistant Professor of Neurosurgery at Duke University, Durham, North Carolina
- 2013-2014 Neelesh Nundkumar, M.D., Endovascular Neurosurgery Fellow, currently practicing with Carolina Neurosurgery & Spine Associates, Greensboro, North Carolina
- 2013-present Bowen Jiang, M.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2014-present Erick M. Westbroek, M.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2014 (05-07) Ammar Al Kawi, M.D., Endovascular Fellow, currently practicing at King Faisal Specialty Hospital, Riyadh, Saudi Arabia
- 2015-present Risheng Xu M.D., Ph.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2015-present Daniel Lubelski, M.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2015-present Yike Jin M.D., Neurosurgery Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2016-2017 Narlin B. Beaty, M.D., Endovascular Neurosurgery Fellow, currently practicing at Tallahassee Neurological Clinic, Tallahassee, Florida
- 2016-present Jessica K. Campos, M.D., Post-doctoral Research Fellow, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2017-present Nancy Abu-Bonsrah, M.D., Neurosurgery Resident, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

Pre-Doctoral Advisees:

- 2010-2011 Alexandra Paul, M.D, Medical Student, Johns Hopkins University, currently Neurosurgery Housestaff at Albany, New York
- 2014-present Tom Monarch, Undergraduate student, University of Louisville. Research on flow diversion of cerebral aneurysms. Currently an undergraduate at University of Louisville, Kentucky with plans to attend law school in the Fall 2018.
- 2015-present Haley Wendt, B.S., Undergraduate student, Johns Hopkins University. Research on relationship of aneurysm size to subarachnoid hemorrhage, Currently a Research Fellow Johns Hopkins Hospital with plans to attend medical school in the Fall of 2018.
- 2016-present Bejan Varjavand, Undergraduate student, Johns Hopkins University. Research on Using Flow Diversion for delayed treatment of subarachnoid hemorrhage
- 2017-present Chau D. Vo, B.A., Medical student, Johns Hopkins University School of Medicine, Summer Research Fellowship (2017) on using implanting flow diverting devices within indwelling stents

for recurrent cerebral aneurysms and internal carotid artery tortuosity as a predictor of procedural complexity and clinical outcomes in mechanical thrombectomies

2017-present David A. Zarrin, B.S., Post-baccalaureate student at Johns Hopkins University. Student researcher in group since April 2017

RESEARCH & ORGANIZATIONAL ACTIVITIES

INSTITUTIONAL ADMINISTRATIVE APPOINTMENTS

2010-present Director of Endovascular Neurosurgery, The Johns Hopkins Hospital
 2010-present Director of Endovascular Neurosurgery, The Johns Hopkins Bayview Medical Center
 2010-present Director of Endovascular Neurosurgery Fellowship Training Program, The Johns Hopkins University School of Medicine

EDITORIAL ACTIVITIES

Journal peer review activities

2014-present *World Neurosurgery*
 2010-present *Journal of Neurointerventional Surgery*
 2016-present *The Neuroradiology Journal*
 2016-present *Journal of Neuroimaging*
 2010-present *Neurosurgery*

Advisory Committees, Review Groups/Study Sections

2016-present Medical Advisory Board, InNeuroCo (Sunrise, FL)
 2016-present President, Board of Directors, Treat the Stroke Foundation, Inc. (Reisterstown, MD)

Professional Societies:

2010-present Senior Member, Society of NeuroInterventional Surgery (SNIS)
 2010-present Active Member, Congress of Neurological Surgeons (CNS)
 2010-present Active Member, American Association of Neurological Surgeons (AANS)
 2010-present Medical Associate Member, European Society of Minimally Invasive Neurological Therapy (ESMINT)
 2010-present Member, American Society of Neuroradiology (ASNR)
 2010-present Active Member, Joint Cerebrovascular Section of the AANS/CNS
 2010-present Active Member, American Association of Neurological Surgeons (AANS)

Consultantships:

2011-present Consultant, Medtronic Neurovascular (Irvine, California, USA)
 2012-present Consultant, Stryker Neurovascular (Fremont, California, USA)
 2012-present Consultant, MicroVention-Terumo (Tustin, California, USA)
 2017-present Consultant, InNeuroCo (Sunrise, Florida, USA)

RECOGNITION

AWARDS, HONORS

- 1994 *The Fluor Foundation Scholarship*. Scott High School, Taylor Mill, KY
- 1994 Salutatorian, Scott High School, Taylor Mill, KY
- 1994 Otis A. Singletary Scholarship, The University of Kentucky, Lexington, KY
- 1994 The University of Kentucky's Presidential Scholarship, The University of Kentucky, Lexington, KY
- 1996 Howard Hughes Medical Institute Undergraduate Research Fellowship with Dr. R. M. Booze, Department of Anatomy and Neurobiology, The University of Kentucky, Lexington, KY
- 1996 Kentucky Academy of Sciences Undergraduate Research Award, The University of Kentucky, Lexington, KY
- 1998 *Summa Cum Laude*, The University of Kentucky, Lexington, KY
- 1998 Phi Beta Kappa Honor Society, The University of Kentucky, Lexington, KY
- 1999 NIH Summer Research Fellowship with Sander Connolly Jr. M.D., Department of Neurosurgery, Columbia University, New York, NY
- 2001 Doris Duke Foundation Medical Student Research Fellowship with Sander Connolly Jr. M.D., Department of Neurosurgery, Columbia University, New York, NY
- 2002 Alpha Omega Alpha National Medical Honor Society, College of Physicians and Surgeons, Columbia University, New York, NY
- 2003 NIH Research Fellowship with Dr. Richard T. Ambron, Department of Anatomy and Cell Biology, Columbia University, New York, NY
- 2009 Neurosurgery Chairman's Award for Excellence in Teaching, Department of Neurological Surgery, Johns Hopkins University, Baltimore, MD
- 2009 American College of Surgeons Recognition for Excellence in Resident Training, Department of Neurological Surgery, Johns Hopkins University, Baltimore, MD
- 2012 Richard J. Otenasek Faculty Teaching Award, Department of Neurological Surgery, Johns Hopkins University, Baltimore, MD
- 2017-18 Healthgrades Recognized Doctor: Healthgrades Honor Roll.
- 2017-18 "America's Top Surgeons" in Neurosurgery. Consumers' Research Council of America. Thirteenth and Fourteenth Edition.

OTHER PROFESSIONAL ACCOMPLISHMENTS

INVITED TALKS

JHMI/Regional

- 06/27/02 Persistent Activation of c-Jun in Primate Axotomy: A Neurosurgical Model of Nerve Injury. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD.
- 03/17/05 Carotid Duplex Ultrasonography for Stenosis Assessment in Carotid Endarterectomy. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 02/17/05 Acute Subdural Hematoma Evacuation in the Chronically Anticoagulated Patient. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 06/16/05 Treatment of Cerebral Aneurysms with Muslin (Cotton) Wrapping: Indications, Outcomes, and Complications. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 11/17/05 Outcome Prognostication Following Acute Subdural Hematoma Evacuation: Introduction of the JASH Score. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 01/19/06 Outcome Prognostication in Stroke Using Magnetic Resonance Spectroscopy: Further Evidence through Primate Studies Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 04/06/06 Acute Mountain Sickness and High-Altitude Cerebral Edema: Knowledge for the Neurosurgeon/Mountaineer. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 02/22/07 Contralateral Approaches to Cerebral Aneurysms. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 05/08/08 Beginnings in Endovascular Neurosurgery: From Groinology to Denali. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 10/07/11 Endovascular Neurosurgery at Johns Hopkins: Changing the Field of Aneurysm Treatment. Suburban Hospital Neuroscience Update, Bethesda, MD
- 12/01/11 The Pipeline Embolization Device: Initial Experiences at Johns Hopkins. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 08/16/12 The Microsurgical Treatment of Cerebral Aneurysms with Cotton Wrapping: Indications, Outcomes, and Complications. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 03/25/13 Changing Paradigms in Aneurysm Treatment: At the Forefront at Johns Hopkins. Neuroscience Nursing In-Service, Johns Hopkins Bayview Medical Center, Baltimore, MD
- 07/25/13 Introduction to the Internal Carotid Artery: An Attending Lecture Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 09/26/13 Beyond the Pipeline Device: Multicenter Clinical Trials in Flow Diversion at Johns Hopkins Neurosurgery. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 11/01/13 The Evolution of Cerebral Aneurysm Treatment at Johns Hopkins Medicine. Suburban Hospital Update in Neurosurgery, Bethesda, MD
- 03/27/14 Get to Know an Artery: The Posterior Cerebral Artery, An Attending Lecture Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 08/24/14 Introduction to Dural Arteriovenous Fistulas: A Grand Rounds Review. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 02/12/15 Evolution of Flow Diversion at Johns Hopkins: Introduction to the Surpass Flow Diverter. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD

- 11/19/15 Access Challenges in Neuroendovascular Surgery: The Ongoing (R)Evolution. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD
- 03/16/16 The Flow Diverter Revolution at Johns Hopkins: From the Pipeline to the Surpass and Beyond. Johns Hopkins Neurointensive Care Symposium 2016, Baltimore, MD
- 05/11/17 Intra-Saccular Flow Disruption for the Treatment of Wide-Necked Bifurcation Aneurysms. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD. *11 May 2017.*
- 10/18/17 Introduction to Cerebrovascular Neurosurgery. Neurosurgery Interest Group, Johns Hopkins University School of Medicine, Baltimore, MD. *18 Oct. 2017.*
- 07/27/17 Flow Diversion Maximus: Case Experiences Gained at Johns Hopkins Neurosurgery. Department of Neurosurgery Grand Rounds, Johns Hopkins University, Baltimore, MD. *27 July 2017.*

National

- 1996 The Calcium Homeostasis Neurotoxicity Hypothesis: Possible Evidence Through L-type Calcium Channel Density in Hippocampal Subregions. Molecular and Cell Biology Division, Kentucky Academy of Sciences Meeting
- 11/12/00 Pediatric Brain Tumors: A High-Yield Review of the Differential. Noon Teaching Conference, Department of Pediatrics, Monmouth Medical Center, Long Branch, NJ
- 04/12/04 Ventriculoperitoneal Shunting for Idiopathic Normal Pressure Hydrocephalus: Predictors of Treatment Response and Analysis of Long-Term Outcomes. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA
- 04/14/05 Phenytoin therapy predicts improved functional outcome after acute subdural hematoma evacuation. American Association of Neurological Surgeons Annual Meeting – New Orleans, LA
- 10/10/05 Chronic anticoagulation with warfarin is associated with decreased functional outcome and increased length of stay following craniotomy for acute subdural hematoma. Congress of Neurological Surgeons Meeting, Boston, MA
- 10/11/05 Outcomes Following Craniotomy for Acute Subdural Hematoma Evacuation in Children: A Pediatric Trauma Center Experience. Congress of Neurological Surgeons Meeting, Boston, MA
- 03/28/11 Comparison of tertiary-center aneurysm location frequencies in 200 consecutive cases: Where did all the Pcom aneurysms go? 64th Neurosurgical Society of America Meeting, Big Island, HI
- 06/13/12 Initial Procedural Outcomes in 35 Consecutive Pipeline Aneurysm Cases: A Single-Center Experience. 65th Neurosurgical Society of America Meeting, Deer Valley, Park City, UT
- 07/27/12 Flow Diversion: This is going to be bigger than you think. Microvention NeuroNext, Tustin, CA. *July 27.*
- 02/27/14 Pearls and Pitfalls of Flow Diverter Technology: Insights from the Johns Hopkins Experience in >200 Cases. Pipeline Dinner Lecture, Sacramento, CA. *27 July 2014.*
- 06/11/14 Treatment of ICA Aneurysms Less than 10 mm Using the Pipeline Embolization Device: Experience in 44 Consecutive Cases. 66th Neurosurgical Society of America Meeting, Sea Island, GA
- 07/30/14 Initial Experiences with the FRED Flow Diverter at Johns Hopkins University. FRED Investigators Meeting, Colorado Springs, CO
- 10/18/14 Update on the FRED Pivotal Trial: Where we are now and case examples. 2014 Congress of Neurological Surgeons Annual Meeting, Boston, MA
- 01/24/15 Intraluminal Flow Diverters in 2015: The Future is Now. Cedars Sinai Update on Neurosurgery, Casa Del Mar Hotel, Santa Monica, CA

- 03/12/15 The Flow Diverter Revolution at Johns Hopkins: From the Pipeline to the Surpass and Beyond. University of California Irvine, Neurosurgery Grand Rounds, Irvine, CA
- 04/07/15 Initial Experiences Using an Intracranial Flow Disruption Device. 68th Neurosurgical Society of America Meeting, St. Newport Coast, CA
- 10/26/15 Access Challenges in NeuroEndovascular Surgery: The Ongoing (R)evolution. Stryker Neurovascular NeuroNext Symposium 2015, Santa Monica, CA
- 11/07/15 The Flow Diverter Revolution at Johns Hopkins: From the Pipeline to the Surpass and Beyond. Stryker Neurovascular Western Users' Group Meeting, Las Vegas, NV
- 01/27/16 Initial Clinical Experiences Using the AXS Catalyst 5: Cases from the Johns Hopkins Hospital. Stryker Neurovascular NSM 2016, Dana Point, CA
- 02/15/16 Access is The Key: Experiences Using the AXS Catalyst 5/6. AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. Los Angeles, CA.
- 02/16/16 The ACom WEB: Experiences from the WEB-IT Study. WEB-IT Study Investigators' Meeting, Los Angeles, CA
- 07/27/16 Trackability Redefined: Clinical Experiences Using the Catalyst 5 Distal Access Catheter. Society of Neurointerventional Surgery National Meeting Lunch Symposium, Boston, MA
- 09/12/16 The Evolution of Complex Access Techniques for Neurointervention. Stryker Neurovascular NeuroNext Symposium 2016. San Jose, CA
- 08/14/17 Access, Getting Where You Want to Go. Stryker Neurovascular 26th Annual Fellows National Symposium. Fremont, CA. 14 Aug. 2017.
- 11/18/16 Access Redefined: Clinical Experiences Using the Infinity LS and Catalyst Distal Access Catheters. Society of Vascular and Interventional Neurology National Meeting, Brooklyn, NY
- 11/27/17 The Ever-Expanding Role of Endovascular Aneurysm Surgery. Keynote Speaker. Mayo Clinic. Neuroscience-Neurosurgery Lecture Series. Jacksonville, FL. 27 Nov. 2017.
- 01/23/18 Off-label Use of Flow Diverters in the Treatment of Challenging Cerebral Aneurysms: Flow Diverters for Distal Circulation Aneurysms. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. Los Angeles, CA. 23 Jan. 2018.
- 01/31/18 The Ever - expanding Role of Endovascular Cerebral Aneurysm Surgery. Keynote speaker. Department of Neurosurgery Grand Rounds, University of Cincinnati, Ohio. 31 Jan. 2018.
- 05/18/18 *The Evolution of Cerebral Aneurysm Treatment: Experiences From the Johns Hopkins Hospital. Tallahassee Neurological Clinic. Planned 18 May 2018*

International

- 09/05/12 The Pipeline Embolization Device at the Johns Hopkins Hospital: The Experience, Outcomes, and Lessons. European Pipeline Users Meeting, Nice, France
- 06/11/14 Endovascular Management of MCA Aneurysms: We can...and We will. 67th Neurosurgical Society of America Meeting, St. Andrews, Canada.
- 06/23/14 Evolution of the Surpass Flow-Diverter Experience at Johns Hopkins: It's Time to Climb. Live Interventional Neuroradiology and Neurosurgery Course, Paris, France
- 09/03/14 The Pipeline Embolization Device: A Clinically-Proven Design. European Pipeline Users Meeting, Nice, France.
- 09/04/14 The SCENT Trial Update: Using Access to Achieve Success. European Society of Minimally Invasive Neurological Therapy Congress Meeting, Nice, France.
- 05/15/15 Evolution of the Flow Diverter Experience at the Johns Hopkins Hospital: From Pipeline to Surpass. TINMAN Conference 2016, Bangalore, India.

- 06/13/16 Flow Diversion and Flow Disruption for the Treatment of ACom Aneurysms. Bombay Neurosurgery Society Dinner, Mumbai, India.
- 06/22/16 The Use of Flow-Diverting Stents for The Treatment of ACom Region Aneurysms. 69th Neurosurgical Society of America Meeting, Wicklow, Ireland
- 09/08/16 The “FRED PED SHRED”: Superior PED delivery and resheathing using a more supportive 0.027” microcatheter. European Society of Minimally Invasive Neurological Therapy Congress Meeting, Nice, France.
- 09/29/16 The Surpass Flow Diverter Comes to India: Lessons from the Trenches in Baltimore. 13th Annual Indian Interventional Neuro Foundation Monsoon Meeting, Goa, India
- 09/29/16 Endovascular Management of Middle Cerebral Artery Aneurysms. 13th Annual Indian Interventional Neuro Foundation Monsoon Meeting, Goa, India.
- 09/29/16 The Recent Evolution of Distal Access Techniques for Neurointervention. 13th Annual Indian Interventional Neuro Foundation Monsoon Meeting, Goa, India
- 01/21/17 Flow Diversion: Beyond the ICA Bifurcation. Neurointervention Concept Elucidate (NICE) Conference 2017, Delhi, India. 21 Jan. 2017.
- 01/21/17 Branch Vessels and Perforator Coverage in Flow Diversion: Friend or Foe? Neurointervention Concept Elucidate (NICE) Conference 2017, Delhi, India. 21 Jan. 2017.
- 08/26/17 Endovascular Management of Cerebrovascular Aneurysms. The Workshop on Management of Cerebrovascular Aneurysms. University Medical Center: Ho Chi Minh City. Vietnam. 26 Aug. 2017.
- 09/11/17 The Surpass Training Course. Medanta Medicity, Gurgaon, India. 11 Sept. 2017.
- 12/15/17 Aneurysm coiling for beginners: Lessons learnt over the last 2 decades. Neurointervention Concept Elucidate (NICE) Conference 2018, Delhi, India. 15 Dec. 2017.
- 12/16/17 Stent and “Me.” Session: Scaffolding with Stents in Complex Cases: Personal Choices and Challenges Faced. Neurointervention Concept Elucidate (NICE) Conference 2018, Delhi, India. 16 Dec. 2017.
- 12/16/17 Flow diversion in complex aneurysms. Session: Achieving the Flow Diversion in Complex Aneurysms: The Flow Must Go On. Neurointervention Concept Elucidate (NICE) Conference 2018, Delhi, India. 16 Dec. 2017.
- 12/16/17 LIVE Case from Medanta Neurovascular Center, Gurugram (Flow Diverter in complex aneurysm treatment); Proctor. Neurointervention Concept Elucidate (NICE) Conference 2018, Delhi, India. 16 Dec. 2017.

PEER-REVIEWED SCIENTIFIC ABSTRACTS

1. **Coon AL**, Feng L, Mocco J, Colby GP, Meyers P, Connolly ES. Treatment of Mechanically-Induced Vasospasm of the Carotid Artery in a Non-Human Primate Using Intra-arterial Verapamil: A Technical Case Report. *Congress of Neurological Surgeons 52nd Annual Meeting*. 2002. Philadelphia, PA.
2. **Coon AL**, Arias-Mendoza F, Cruz-Lobo J, Berardocco F, Mocco J, Colby GP, King R, Mack WJ, Brown TR, Connolly ES. In Vivo Characterization of Experimental Primate Stroke Using 1H Magnetic Resonance Spectroscopy. *Congress of Neurological Surgeons 52nd Annual Meeting*. 2002. Philadelphia, PA.
3. **Coon AL**, D’Ambrosio A, Mocco J, Colby GP, King RG, Yorgason JG, Laufer I, Connolly ES. Rapid Achievement of Therapeutic Hypothermia in a Non-Human Primate Using Ambient Air Convective Surface Cooling. *Congress of Neurological Surgeons 52nd Annual Meeting*. 2002. Philadelphia, PA.
4. **Coon AL**, Colby GP, Sung YJ, Ambron RT, Connolly ES. Persistent Activation of c-Jun Is Not Associated with Apoptosis in Primate CN III Neurons Following Axotomy. *Society for Neuroscience 32nd Annual Meeting*. 2002. Orlando, FL.

5. **Coon AL**, Arias-Mendoza F, Mack WJ, King R, Colby GP, Cruz-Lobo J, Ziv E, Brown TR, Connolly ES. In Vivo Characterization of Experimental Primate Stroke Using ³¹P-Magnetic Resonance Spectroscopy. *Joint Cerebrovascular Section Meeting of the AANS/CNS/ASITN*. 2003. Phoenix, AZ.
6. **Coon AL**, Feng L, Mocco J, Colby GP, Meyers P, Connolly ES. Treatment of Mechanically-Induced Vasospasm of the Carotid Artery in a Non-Human Primate Using Intra-arterial Verapamil: A Technical Case Report. *Joint Cerebrovascular Section Meeting of the AANS/CNS/ASITN*. 2003. Phoenix, AZ.
7. Colby GP, **Coon AL**, Campos LW, Connolly ES, Ambron RT. Activation of c-Jun and ATF-2 Does Not Correlate with Apoptosis in Axotomized Primate CN VI Neurons. *Society for Neuroscience 33rd Annual Meeting*. 2003. New Orleans, LA.
8. **Coon AL**, Arias-Mendoza F, Mack WJ, King R, Colby GP, Cruz-Lobo J, Ziv E, Brown TR, Connolly ES. In Vivo Characterization of Experimental Primate Stroke Using ³¹P-Magnetic Resonance Spectroscopy. *American Association of Neurological Surgeons Annual Meeting*. 2003. San Diego, CA.
9. **Coon AL**, Arias-Mendoza F, Mack WJ, Colby GP, King RG, Cruz-Lobo J, Brown TR, Connolly ES. Magnetic Resonance Spectroscopic Footprint of Hyper-Acute Global Brain Anoxia in Primates. *American Association of Neurological Surgeons Annual Meeting*. 2003. San Diego, CA.
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11. **Coon AL**, Woodworth GF, McGirt MJ, Munding GS, Foran MP, Colby GP, Huang J. Phenytoin Therapy Predicts Improved Functional Outcome After Acute Subdural Hematoma Evacuation. *American Association of Neurological Surgeons Annual Meeting*. 2005. New Orleans, LA.
12. Colby GP, Coon AL, Arias-Mendoza F, Mack WJ, Komotar R, Cruz-Lobo J, Brown TR, Connolly ES. Immediate Changes in Cerebral Brain Metabolism Following Circulatory Arrest in Primates: A ¹H-Magnetic Resonance Spectroscopy Study. *Congress of Neurological Surgeons 55th Annual Meeting*. 2005. Boston, MA.
13. **Coon AL**, McGirt MJ, Woodworth GF, Munding GS, Foran MP, Colby GP, Huang J. Independent Predictors of Outcome Following Acute Subdural Hematoma Evacuation: A Novel Grading Scale for Outcome Prediction. *Congress of Neurological Surgeons Meeting*, 2005. Boston, MA.
14. **Coon AL**, McGirt MJ, Woodworth GF, Vogel T, Colby GP, Jallo G. Outcomes Following Craniotomy for Acute Subdural Hematoma Evacuation in Children: A Pediatric Trauma Center Experience. *Congress of Neurological Surgeons Meeting*. 2005. Boston, MA.
15. **Coon AL**, McGirt MJ, Woodworth GF, Munding GS, Foran M, Colby GP, Huang J. Chronic anticoagulation with warfarin is associated with decreased functional outcome and increased length of stay following craniotomy for acute subdural hematoma. *Congress of Neurological Surgeons Meeting*. 2005, Boston, MA.
16. **Coon AL**, Havlena G, Colby GP, Wyse G, San Millan-Ruiz D, Tamargo RJ, Gailloud P. Characterization of Proximal A1 Segment Aneurysms: A Possible Source of Occult Subarachnoid Hemorrhage. *American Association of Neurological Surgeons Annual Meeting*. 2009. San Diego, CA.
17. **Coon AL**, Colby GP, Wyse G, Radvany MG, San Millan-Ruiz D, Tamargo RJ, Gailloud RJ, Huang J. Prevalence of Small Ruptured Cerebral Aneurysms Measured with 3D Digital Subtraction Angiography (DSA): Does size matter? *American Association of Neurological Surgeons Annual Meeting*. 2009. San Diego, CA.
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Implications for endovascular therapy. *Congress of Neurological Surgeons Meeting*. 2009. New Orleans, LA.

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22. Colby GP, Lin LM, Paul AR, Huang J, Tamargo RJ, **Coon AL**. Cost comparison of endovascular treatment of anterior circulation aneurysms with the pipeline embolization device versus stent-assisted coiling. *Society of Neurointerventional Surgery Meeting*. Presentation July, 25 2012. San Diego, CA.
23. Colby GP, Lin LM, Paul AR, Huang J, Tamargo RJ, **Coon AL**. Immediate procedural outcomes in 35 consecutive pipeline embolization cases: A single-center, single-user experience. *Society of Neurointerventional Surgery Meeting* July 2012. San Diego, CA.
24. Lin LM, Paul AR, Colby GP, Huang J, Tamargo RJ, **Coon AL**. Differences in cerebral aneurysms selected for open microsurgical treatment: A comparison of a hybrid cerebrovascular neurosurgeon with traditional cerebrovascular neurosurgeons. *Congress of Neurological Surgeons Meeting*. October, 2012. Chicago, IL.
25. Colby GP, Lin LM, Paul AR, Huang J, Tamargo RJ, **Coon AL**. Cost comparison of endovascular treatment of anterior circulation aneurysms with the pipeline embolization device versus stent-assisted coiling. *Congress of Neurological Surgeons Meeting*. October 2012. Chicago, IL.
26. Colby GP, Lin LM, Paul AR, Huang J, Tamargo RJ, **Coon AL**. Immediate procedural outcomes in 35 consecutive pipeline embolization cases: A single-center, single-user experience. *Congress of Neurological Surgeons Meeting*. Presentation October 7, 2012. Chicago, IL.
27. Lin LM, Colby GP, Watson J, Guglielmo P, Huang J, Tamargo RJ, Boccardi E, **Coon AL**. Transvenous approach for the treatment of direct carotid cavernous fistula following pipeline embolization of cavernous carotid aneurysm. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
28. Lin LM, Colby GP, Kim JE, Huang J, Tamargo RJ, **Coon AL**. Immediate and follow-up results for 43 consecutive cases of small (<10mm) internal carotid artery aneurysms treated with the pipeline embolization device. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
29. Lin LM, Colby GP, Huang J, Tamargo RJ, **Coon AL**. Ultra-distal large-bore intracranial access using the hyperflexible ReFlex distal intracranial catheter for treatment of cerebrovascular pathologies. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
30. Colby GP, Lin LM, Huang J, Tamargo RJ, **Coon AL**. Immediate Procedural Outcomes and Intermediate Angiographic Follow-up Results in 100 Consecutive Pipeline Embolization Cases. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
31. Colby GP, Lin LM, Huang J, Tamargo RJ, **Coon AL**. Utilization of the ReFlex intracranial catheter during anterior circulation aneurysm treatment with the Pipeline embolization device: a report of 67 consecutive cases. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
32. Colby GP, Lin LM, Huang J, Tamargo RJ, Zeiler SR, **Coon AL**. Curative endovascular treatment of a cerebral aneurysm by flow diversion in a patient with Loeys-Dietz syndrome: technical considerations for Pipeline embolization in the setting of a pronounced connective tissue disorder. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.
33. Colby GP, Lin LM, Huang J, Tamargo RJ, Zeiler SR, **Coon AL**. Pipeline embolization of proximal and mid A1 aneurysms: technical and clinical implications of jailing the M1 origin with a flow diverter. *Joint Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. Honolulu, HI.

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35. Colby GP, Lin LM, Huang J, Tamargo RJ, **Coon AL**. Utilization of the Navien distal intracranial catheter during 78 cases of anterior circulation aneurysm treatment with the Pipeline embolization device. *Society of Neurointerventional Surgery Meeting*. July 2013. Miami, FL.
36. Colby GP, Lin LM, **Coon AL**. Definitive endovascular management of a 10 mm mid-A1 pseudoaneurysm. *European Society of Minimally Invasive Neurological Surgery (ESMINT)*. September 2013. Nice, France.
37. Nundkumar N, Lin LM, Huang J, Tamargo RJ, Colby GP, **Coon AL**. Pipeline embolization is associated with significant reductions in radiation compared to traditional stent-coiling. *Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. San Diego, CA.
38. Yang W, Caplan JM, Ye X, Wang JY, Braileanu M, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Race/Ethnicity and other risk factors associated with hemorrhagic presentation of intracranial arteriovenous malformations. *Cerebrovascular Section Meeting of the AANS/CNS/SNIS*. February 2013. San Diego, CA.
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40. Braileanu M, Yang W, Caplan J, Lin LM, Radvany M, Nwaba A, Wang J, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Quantification of Arteriovenous Malformation Diffuseness on Digital Subtraction Angiography Using a Vessel Density Based Computational Approach. *AANS 2014*. April 2014. San Francisco, CA.
41. Patel M, Caplan JM, Yang W, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Arterial fenestrations and their association with cerebral aneurysms: a comprehensive review. *AANS 2014*. April 2014. San Francisco, CA.
42. Caplan JM, Sankey E, Yang W, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Indocyanine green videoangiography does not decrease the rate of clip adjustments following intraoperative angiography. *AANS 2014*. April 2014. San Francisco, CA.
43. Yang W, Caplan JM, Shang H, Wang J, Braileanu M, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Predictors of functional outcome following treatment of posterior fossa arteriovenous malformations. *AANS 2014*. April 2014. San Francisco, CA.
44. Colby GP, Lin LM, Nundkumar N, Jiang B, Huang J, Tamargo RJ, Coon AL. Radiation dose analysis of large and giant internal carotid artery aneurysm treatment with Pipeline embolization device versus traditional coiling techniques. *SNIS 2014*. July 2014. Colorado Springs, CO.
45. Lin LM, Colby GP, Jiang B, Uwandu C, Huang J, Tamargo RJ, **Coon AL**. Classification of cavernous internal carotid artery tortuosity: a predictor of procedural complexity in Pipeline embolization. *SNIS 2014*. July 2014. Colorado Springs, CO.
46. Colby GP, Lin LM, **Coon AL**. Staged embolization of a ruptured 14 mm MCA bifurcation aneurysm: The “Coil it now, divert it later” technique. *European Society of Minimally Invasive Neurological Surgery (ESMINT)*. September 2014. Nice, France.
47. Lin LM, Colby GP, **Coon AL**. Intra-Navien PED deployment. *European Society of Minimally Invasive Neurological Surgery (ESMINT)*. September 2014. Nice, France.
48. Yang W, Shang H, Caplan J, Wang J, Braileanu M, Hung A, Patel V, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Arteriovenous Malformations of the Posterior Circulation. *CNS 2014*. October 2014. Boston, MA.
49. Caplan JM, Yang W, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Improved Early Visual Outcomes in Patients with Ophthalmic Region Aneurysms Undergoing Anterior Clinoidectomy using the SONOPET® Ultrasonic Aspirator Compared to the use of the High Speed Drill. *CNS 2014*. October 2014. Boston, MA.

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51. Ruzevick J, Caplan JM, Yang W, Pradilla G, Colby GP, **Coon AL**, Huang J, Tamargo RJ. The contralateral approach reduces costs and length of stay associated with treating bilateral unruptured aneurysms of the anterior circulation. *CNS 2014*. October 2014. Boston, MA.
52. Ruzevick J, Caplan JM, Yang W, Pradilla G, Colby GP, **Coon AL**, Huang J, Tamargo RJ. The contralateral approach is a safe alternative to a staged approach for treating bilateral anterior circulation aneurysms. *CNS 2014*. October 2014. Boston, MA.
53. Colby GP, Lin LM, Caplan JM, Jiang B, Huang J, Tamargo RJ, **Coon AL**. Immediate procedural outcomes in 44 consecutive Pipeline Flex cases: the first North American single-center series. *SNIS 2015*. July 2015. San Francisco, CA.
54. Lin LM, Colby GP, Jiang B, Nundkumar N, Huang J, Tamargo RJ, **Coon AL**. Intra-Navien Deployment of the Pipeline Embolization Device: A Novel Rescue Strategy for Failed Device Expansion. *SNIS 2015*. July 2015. San Francisco, CA.
55. Hung A, Yang W, Caplan JM, Braileanu M, Wang J, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Differences in functional outcomes across subtypes with Spetzler-Martin grade II arteriovenous malformations (AVM). *CNS 2015*. September 2015. New Orleans, LA.
56. Yang W, Rong X, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang, J. Predictors of delayed ischemic events following carotid endarterectomy (CEA). *CNS 2015*. September 2015. New Orleans, LA.
57. Wei Z, Yang W, Caplan JM, Hung A, Braileanu M, Wang J, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Long-term outcomes of patients with giant intracranial arteriovenous malformations. *CNS 2015*. September 2015. New Orleans, LA.
58. Caplan JM, Colby GP, Lin LM, Jiang B, Yang W, Huang J, Tamargo RJ, **Coon AL**. Use of the Pipeline Embolization Device for Anterior Communicating Artery Region Aneurysms (Oral presentation). AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. February 2016. Los Angeles, CA.
59. Garzon-Muvdi T, Yang W, Rong X, Caplan JM, Ye X, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Restenosis After Carotid Endarterectomy: Insight into risk factors and modification of postoperative management (Oral presentation). AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. February 2016. Los Angeles, CA.
60. Porras JL, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Ahn ES, Huang J. Concurrent Moyamoya Disease and Type 1 Neurofibromatosis – Is Revascularization Indicated? AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. February 2016. Los Angeles, CA.
61. Yang W, Porras JL, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Ahn EA, Huang J. Comparison of Surgical and Conservative Management for Moyamoya Disease in a North American Cohort. AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. February 2016. Los Angeles, CA.
62. Yang W, Porras JL, Hung AL, Garzon-Muvdi T, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Risk of Hemorrhage in AVM Patients Over Age 60. AANS/CNS Joint Cerebrovascular Section 2016 Annual Meeting. February 2016. Los Angeles, CA.
63. Porras JL, Yang W, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Ahn ES, Huang J. Mid-Term Follow-up in a North American Cohort with Moyamoya Disease (Oral presentation). 84th AANS Annual Meeting. April-May 2016. Chicago, IL.
64. Yang W, Anderson-Keightly H, Westbroek EM, Caplan JM, Rong X, Hung AL, Colby GP, **Coon AL**, Tamargo RJ, Huang J, Ahn ES. Long Term Hemorrhagic Risk in Pediatric Arteriovenous Malformation (AVM) Patients. (oral presentation) 84th AANS Annual Meeting. April-May 2016. Chicago, IL.

65. Yang W, Westbrook EM, Anderson-Keightly H, Caplan JM, Rong X, Hung AL, Colby GP, **Coon AL**, Tamargo RJ, Ahn ES, Huang J. Male Gender Associated with Post-Treatment Seizure Risk of Pediatric Arteriovenous Malformation (AVM) Patients. 84th AANS Annual Meeting. April-May 2016. Chicago, IL.
66. Yang W, Rong X, Jiang B, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Is Carotid Endarterectomy (CEA) Safe for Patients with Concomitant Carotid Stenosis and Intracranial Aneurysms? 84th AANS Annual Meeting. April-May 2016. Chicago, IL.
67. Hung AL, Yang W, Caplan JM, Braileanu M, Wang JY, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Higher Risk of Feeder Aneurysm Rupture on PICA Fed Posterior Fossa AVMs. 84th AANS Annual Meeting. April-May 2016. Chicago, IL.
68. Colby GP, Lin LM, Xu R, Bender MT, Jiang B, Lubelski D, Huang J, Tamargo RJ, **Coon AL**. Use of the Catalyst 5 Distal Access Catheter for Treatment of Intracranial Aneurysms: The First North American experience. SNIS 2016. July 2016. Boston, MA.
69. Bender MT, Lin LM, Colby GP, Lubelski D, Huang J, Tamargo RJ, **Coon AL**. P2Y12 Hypo-response (PRU>200) is Not Associated with Increased Thromboembolic Complications in Anterior Circulation Pipeline. SNIS 2016. July 2016. Boston, MA.
70. Lin LM, Colby GP, Xu R, Bender MT, Huang J, Tamargo RJ, **Coon AL**. Use of the 0.027" VIA Microcatheter for Pipeline Embolization of Cerebral Aneurysms. SNIS 2016. July 2016. Boston, MA.
71. **Coon AL**, Lin LM, Colby GP. Neutralization of a twisted PED during giant aneurysm treatment: Advanced FDS salvage techniques using VIA 27 and Catalyst 5 catheters. European Society of Minimally Invasive Neurological Surgery (ESMINT). September 2016. Nice, France.
72. Porras JL, Yang W, Garzon-Muvdi T, Xu R, Caplan JM, Hung AL, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Comparisons of Outcomes Between Radiosurgery and Conservative Management in Patients with Brainstem Arteriovenous Malformations (AVMs). CNS Annual Meeting. September 2016. San Diego, CA.
73. Yang W, Braileanu M, Garzon-Muvdi T, Xu R, Caplan JM, Hung AL, Porras JL, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Hemorrhagic Risk of Intracranial Arteriovenous Malformations (AVMs) Treated with Embolization as the Single Modality. CNS Annual Meeting. September 2016. San Diego, California, USA.
74. Yang W, Braileanu M, Garzon-Muvdi T, Xu R, Caplan JM, Hung AL, Porras JL, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Natural History of Conservatively Managed Arteriovenous Malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, San Diego, CA. 24-28 Sept. 2016.
75. Yang W, Porras JL, Xu R, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J, Ahn E. Effectiveness of surgical revascularization for stroke prevention in pediatric patients with sickle cell disease (SCD) and moyamoya syndrome (MMS). Congress of Neurological Surgeons Annual Meeting, San Diego, CA. 24-28 Sept. 2016. (Oral Presentation)
76. Colby GP, Lin LM, Bender MT, Caplan JM, Huang J, Tamargo RJ, **Coon AL**. Treatment of Anterior Communicating Artery Aneurysms by Flow Diversion with the Pipeline Embolization Device: A single center experience in 50 cases. Congress of Neurological Surgeons Annual Meeting, San Diego, CA. 24-28 Sept. 2016.
77. Yang W, Porras J, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Treatment Decision for Occipital AVMs to Achieve Hemorrhagic Control while Maximizing Visual Preservation- Our Experience and Review of the Literature. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting, Houston, TX. 20-21 February 2017.
78. Easwaran T, Yang W, Hung A, Porras JL, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Heterogeneity of Treatment Risk Profile in Patients with LowGrade Arteriovenous Malformations (AVMs). AANS/CNS Joint Cerebrovascular Section 2017 Annual Meeting, Houston, TX. 20-21 February 2017.

79. Hung A, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Prenidal Aneurysms and Hemorrhagic Risk of Intracranial Arteriovenous Malformations (AVMs). AANS/CNS Joint Cerebrovascular Section 2017 Annual Meeting, Houston, TX. 20-21 February 2017. (Oral Presentation)
80. Hung A, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Intracranial Aneurysms Do Not Increase Risk of Rupture in Patients with Intracranial AVMs. AANS/CNS Joint Cerebrovascular Section 2017 Annual Meeting, Houston, TX. 20-21 February 2017. (Oral Presentation)
81. Yang W, Porras JL, Hung AL, Garzon-Muvdi T, Caplan JM, Philadelphia E, Law J, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Spontaneous obliteration of brain arteriovenous malformations. *American Association of Neurological Surgeons Annual Meeting*, Los Angeles, CA. 22-26 April 2017.
82. Porras JL, Yang W, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Increased hemorrhage risk of arteriovenous malformations (AVMs) during pregnancy and puerperium: A case-crossover analysis in a North American cohort. *American Association of Neurological Surgeons Annual Meeting*, Los Angeles, CA. 22-26 April 2017.
83. Hung A, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. No association between hemorrhage risk of brain arteriovenous malformation (AVM) and unrelated aneurysms. *American Association of Neurological Surgeons Annual Meeting*, Los Angeles, CA. 22-26 April 2017.
84. Campos JK, Beaty NB, Colby GP, Bender MT, Jiang B, Westbroek EM, Xu R, Lin LM, Huang J, Tamargo RJ, **Coon AL**. Technical Endovascular Considerations of Intracranial Aneurysm Treatment with Single-Stage Coil-Assisted Pipeline Embolization. *Young Investigator's Day, Johns Hopkins University*. April 2017. (Poster)
85. Luksik A, Law J, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. The Role of Preoperative Embolization in Surgical Management of Brain Arteriovenous Malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, Boston, MA. 7-11 October 2017.
86. Luksik A, Law J, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Risk of Hemorrhage Following Radiosurgery for Cerebral Arteriovenous Malformations (AVMs) Is Associated with Venous Stenosis. Congress of Neurological Surgeons Annual Meeting, Boston, MA. 7-11 October 2017. (Rapid Exchange Oral Presentation)
87. Hung A, Purvis T, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Risk of De Novo Aneurysm Formation in Patients before Obliteration of Brain Arteriovenous Malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, Boston, MA. 7-11 October 2017. (Rapid Exchange Oral Presentation)
88. Hung A, Yang W, Garzon-Muvdi T, Caplan JM, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Outcome Comparison for Single versus Multiple Radiosurgery for Brain Arteriovenous Malformation (AVM): A Propensity-Matched Cohort Analysis. Congress of Neurological Surgeons Annual Meeting, Boston, MA. 7-11 October 2017. (Oral Presentation)
89. Caplan JM, Yang W, Garzon-Muvdi T, Colby GP, **Coon AL**, Tamargo RJ, Huang J. Rates of Re-hemorrhage, Risk Factors, and Outcomes of Previously Ruptured Arteriovenous Malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, Boston, MA. 7-11 October 2017. (Oral Presentation)
90. Bender MT, Colby GP, Lin LM, Beaty NB, Jiang B, Campos JK, Caplan JM, Huang J, Tamargo RJ, **Coon AL**. Outcomes of Posterior Circulation Pipeline in 52 Cases at a Single Institution. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.
91. Bender MT, Colby GP, Lin LM, Jiang B, Westbroek EM, Xu R, Campos JK, Huang J, Tamargo RJ, **Coon AL**. Aneurysm Occlusion after Anterior Circulation Pipeline: Follow-Up Angiography in 491 Patients at a Single Institution. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.
92. Beaty NB, Campos JK, Colby GP, Lin LM, Bender MT, Jiang B, Westbroek EM, Xu R, Huang J, Tamargo RJ, **Coon AL**. Technical Endovascular Considerations of Intracranial Aneurysm Treatment with Single-

Stage Coil-Assisted Pipeline Embolization. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.

93. Jiang B, Campos JK, Beaty NB, Westbroek EM, Bender MT, Tamargo RJ, Huang J, Colby GP, **Coon AL**, Lin LM. Intraarterial and intravenous Abciximab for management of acute in-situ thrombosis during Pipeline flow diversion of intracranial aneurysms. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017. (Oral Presentation)
94. Vo CD, Bender MT, Jiang B, Campos JK, Westbroek EM, Zarrin DA, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, **Coon AL**. Pipeline embolization for salvage treatment of previously-stented residual and recurrent cerebral aneurysms. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018.
95. Jiang B, Bender MT, Westbroek EM, Xu R, Campos JK, Lin LM, Caplan JM, Vo CD, Tamargo RJ, Huang J, **Coon AL**. Pipeline Flow Diversion of High Cervical and Intracranial Dissecting Aneurysms and Pseudoaneurysm: A Single-Institution Series of 39 Consecutive Cases. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018.
96. Zarrin DA, Campos JK, Bender MT, Jiang B, Vo CD, Chandra A, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, **Coon AL**. P2Y12 Precision in Therapeutic Monitoring of Dual Anti-Platelet Therapy for Flow Diversion of Cerebral Aneurysms. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018.
97. Campos JK, Bender MT, Jiang B, Westbroek EM, Zarrin DA, Vo CD, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, **Coon AL**. Characterization of Pipeline Flex Delivery Wire Recapture in 85 Consecutive Deployments. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018
98. Xu R, Bender MT, Jiang B, Westbroek EM, Campos JK, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, **Coon AL**. Pipeline flow diversion of aneurysms near the ICA terminus: long-term outcomes of jailing the A1 segment. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018,
99. Jiang B, Bender MT, Westbroek EM, Xu R, Campos JK, Lin LM, Zarrin DA, Vo CD, Tamargo RJ, Huang J, **Coon AL**. Procedural complexity independent of P2Y12 levels is a predictor of in-stent thrombosis in Pipeline flow diversion of cerebral aneurysms. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018
100. Bender MT, Colby GP, Lin LM, Jiang B, Campos JK, Xu R, Westbroek EM, Zarrin DA, Caplan JM, Huang J, Tamargo RJ, **Coon AL**. Safety Assessment of Flow Diversion at the Basilar Apex. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018
101. Bender MT, Jiang B, Campos JK, Xu R, Westbroek EM, Vo CD, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, **Coon AL**. Jailing the MCA to Treat Uncoilable and Surgically Inaccessible ICA Termination-region Aneurysms. *ANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting*, Los Angeles, California. 23-24 Jan. 2018

ADDITIONAL INTERESTS AND ACTIVITIES:

- Triathlons (Ironman x15 events), Marathoning
- Mountaineering (Denali 2008, Bona 2006, Rainier 2004)
- Hiking, Skiing, Basketball, Golf, Music (Piano and Trombone)
- Conversational Proficiency in Spanish