

Dr. Sudheer Ambekar M.Ch. Neurosurgery (NIMHANS)

ANS-62

General achievements:

After graduating in Neurosurgery from NIMHANS, Bangalore in 2012, I completed a Clinical Fellowship in SkullBase surgery at the Louisiana State University Health Sciences Centre, Shreveport, LA under the tutelage of Prof. Anil Nanda followed by a Clinical Fellowship in Endovascular Neurosurgery at the University of Miami under the mentorship of Prof. Roberto Heros. Following my fellowship training, I have been an academic faculty at the Jaslok Hospital and Research Centre since September 2015.

Awards and recognition:

1. Awarded Fellowship in Endovascular Neurosurgery from University of Miami, Miller School of Medicine, Miami, FL, USA
2. Awarded Fellowship in Skull Base surgery from Louisiana State University Health Sciences Centre, Shreveport, LA, USA
3. Awarded Best Outgoing Resident for the year 2011 at NIMHANS, Bangalore, India
4. Awarded LINNC (Live Interventional Neuroradiology and Neurosurgery Conference) fellowship in May 2015 (New York) and November 2016 (Singapore)
5. Session Speaker at the symposium on Surrogates of Rupture for Unruptured Intracranial Aneurysms, February 18, 2016. International Stroke Conference, Los Angeles, United States.
6. Session Speaker at the symposium on Inflammation and Intracranial Aneurysms, February 24, 2017. International Stroke Conference, Los Angeles, United States.

Contribution to NSI

I have been a member of NSI since 2008, and have been regularly attending NSI annual conference. Along with Dr. Paritosh Pandey, I have been a part of the activities organized by the NSI for Young Neurosurgeons. I also an associate editor of the Journal of Cerebrovascular Sciences, which is the official journal of the Cerebrovascular Society of India. I have been a reviewer of articles for Neurology India for the past 2 years. I would like to be a part of the team that takes care of the concerns of the younger members of the society and ensure their participation and education in the academic activities of the NSI.

Contribution to Neurosciences

I have published more than 90 papers in peer-reviewed journals, mostly in the subject of cerebrovascular and endovascular neurosurgery. Many of my publications are in renowned journals like Journal of Neurosurgery. Journal of Neurointerventional Surgery and World Neurosurgery. I am one of the only few fellowship-trained neurosurgeon both in endovascular and cerebrovascular surgery. I am a co-investigator in the Biomedical Engineering and Technology Incubation Center (BETiC) at the Indian Institute of Technology, Bombay. I also assist Dr. Paritosh Pandey in the management of the

Cerebrovascular Society of India website, and invited speaker in many conferences and operative workshops.

Research projects:

1. Mechanical thrombectomy in Acute Ischemic Stroke – In collaboration with BETiC, Indian Institute of Technology, Bombay
2. Rapid diagnosis of Stroke at bedside – In collaboration with BETiC, Indian Institute of Technology, Bombay
3. Computational Fluid Hemodynamics in Intracranial Aneurysms – In collaboration with BETiC, Indian Institute of Technology, Bombay

Selected publications (among a total of 91 publications)

1: Elhammady MS, Ambekar S, Heros RC. Epidemiology, clinical presentation, diagnostic evaluation, and prognosis of cerebral dural arteriovenous fistulas.

Handb Clin Neurol. 2017;143:99-105. doi: 10.1016/B978-0-444-63640-9.00009-6.

PubMed PMID: 28552162.

2: Snelling BM, Sur S, Shah SS, Wolfson RI, Ambekar S, Yavagal DR, Elhammady MS, Peterson EC. Venous Phase Timing Does Not Predict SPECT Results During Balloon

Test Occlusion of the Internal Carotid Artery. World Neurosurg. 2017

Jun;102:229-234. doi: 10.1016/j.wneu.2017.03.023. Epub 2017 Mar 16. PubMed PMID:

28315799.

3: Atchaneeyasakul K, Tipirneni A, Zhang T, Khandelwal P, Ambekar S, Snelling B, Dharmadhikari S, Dong C, Guada L, Ramdas K, Chaturvedi S, Rundek T, Yavagal DR.

Association of hypothyroidism with unruptured cerebral aneurysms: a case-control study. J Neurosurg. 2017 Feb 17:1-4. doi: 10.3171/2016.10.JNS161953. [Epub ahead

of print] PubMed PMID: 28298012.

4: Jimenez JE, Gersey ZC, Wagner J, Snelling B, Ambekar S, Peterson EC. Role of

follow-up imaging after resection of brain arteriovenous malformations in pediatric patients: a systematic review of the literature. *J Neurosurg Pediatr.* 2017 Feb;19(2):149-156. doi: 10.3171/2016.9.PEDS16235. Epub 2016 Dec 2. Review. PubMed PMID: 27911246.

5: Atchaneeyasakul K, Khandelwal P, Ambekar S, Ramdas K, Guada L, Yavagal D. Safety Outcomes Using a Proximal Protection Device in Carotid Stenting of Long Carotid Stenoses. *Interv Neurol.* 2016 Sep;5(3-4):123-130. Epub 2016 Jun 16. PubMed PMID: 27781040; PubMed Central PMCID: PMC5075902.

6: Ambekar S, Madhugiri V, Pandey P, Yavagal DR. Cerebral aneurysm treatment in India: Results of a national survey regarding practice patterns in India. *Neurol India.* 2016 Mar-Apr;64 Suppl:S62-9. doi: 10.4103/0028-3886.178044. PubMed PMID: 26954971.

7: Hanak BW, Haussen DC, Ambekar S, Ferreira M Jr, Ghodke BV, Peterson EC. Preoperative embolization of intracranial hemangiopericytomas: case series and introduction of the transtumoral embolization technique. *J Neurointerv Surg.* 2016 Oct;8(10):1084-94. doi: 10.1136/neurintsurg-2015-011980. Epub 2015 Oct 16. PubMed PMID: 26475475.

8: Ambekar S, Gaynor BG, Peterson EC, Elhammady MS. Long-term angiographic results of endovascularly "cured" intracranial dural arteriovenous fistulas. *J Neurosurg.* 2016 Apr;124(4):1123-7. doi: 10.3171/2015.3.JNS1558. Epub 2015 Sep 25. PubMed PMID: 26406789.

9: Gaynor BG, Haussen DC, Ambekar S, Peterson EC, Yavagal DR, Elhammady MS. Covered Stents for the Prevention and Treatment of Carotid Blowout Syndrome. *Neurosurgery.* 2015 Aug;77(2):164-7. doi: 10.1227/NEU.0000000000000738. PubMed PMID: 25790070.

10: Ambekar S, Madhugiri V, Sharma M, Cuellar H, Nanda A. Evolution of management strategies for cavernous carotid aneurysms: a review. *World Neurosurg.* 2014 Dec;82(6):1077-85. doi: 10.1016/j.wneu.2014.03.042. Epub 2014 Mar 30. Review. PubMed PMID: 24690538.

11: Ambekar S, Babu A, Pandey P, Devi IB. Intraoperative assessment of STA-MCA bypass patency using near-infrared indocyanine green video-angiography: a preliminary study. *Neurol India.* 2012 Nov-Dec;60(6):604-7. doi: 10.4103/0028-3886.105194. PubMed PMID: 23287322.