



## Chitra Venkatasubramanian, MBBS, MD, MSc, FNCS

- Clinical Professor, Adult Neurology
- Clinical Professor (By courtesy), Neurosurgery
- 📄 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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### Bio

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#### BIO

Dr. Venkatasubramanian is a board certified neurologist, vascular neurologist and neurocritical care physician. She completed her residency training in internal medicine from India and neurology residency and stroke/neurocritical care fellowships at Stanford University Medical Center. She holds a Masters degree in Clinical Trials from University of London. She is a board certified neurosonologist. She has been on faculty since 2007. Her primary focus is the clinical care of critically ill patients in the neurological and other intensive care units and patients with acute stroke and TIA in the inpatient stroke unit. In addition, she sees patients with stroke and neurovascular diseases in her stroke clinic as well as patients discharged from the neurological ICU in the Outcomes clinic. Her main interests are in brain hemorrhage, unusual and rare causes of stroke, cerebral venous thrombosis, anticoagulation management after strokes and use of technology for improving outcomes in the neurological ICU.

Her research focuses on the study of intracerebral hemorrhage using brain imaging with CT and MRI. She is the Stanford principal investigator for several clinical trials in intracerebral hemorrhage and large hemispheric infarction. She oversees guideline development for the Neurocritical Care Society, serves as a voting member for medical school admissions to Stanford and represents the neurology department at the Faculty Senate. She enjoys cooking, yoga, Bollywood fitness.

#### CLINICAL FOCUS

- Neurocritical Care
- Stroke
- Traumatic Brain Injury
- Intracerebral Hemorrhage
- Vascular Neurology

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Adult Neurology
- Clinical Professor (By courtesy), Neurosurgery

## ADMINISTRATIVE APPOINTMENTS

- Associate Chair, Faculty Affairs, Neurology, Stanford University, (2023- present)

## HONORS AND AWARDS

- Gold Medal in Pathology, Indian Association of Pathologists and Microbiologists (1993)
- Gold Medal for "Best Outgoing Student in M.B.B.S", Indian Medical Association (1996)
- Gold Medal in Cardiology, Cardiological and Electrophysiological Society of India (1999)
- Fellowship Award for Clinical Research, Neurocritical Care Society (2005)

## PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Neurology (2005) CA
- Board Certification: Neurocritical Care, American Board of Psychiatry and Neurology (2021)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2018)
- Board Certification: Vascular Neurology, American Board of Psychiatry and Neurology (2008)
- Board Certification: Neurocritical Care, United Council for Neurologic Subspecialties (2007)
- Fellowship: Stanford University Vascular Neurology Fellowship (2006) CA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (2002) CA
- Residency: Coimbatore Medical College (1999) India
- Board Certification, American Society of Neuroimaging , Neurosonology (2010)
- Board Certification, United Council of Neurologic Subspecialties , Neurocritical Care (2007)
- Medical Education: Coimbatore Medical College (1999) India
- M.B.B.S., Dr MGR Medical University India , Medicine (1996)

## LINKS

- Stanford Stroke Center: <http://strokecenter.stanford.edu/faculty.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I care for neurologically critically ill patients in the intensive care unit and patients with acute stroke and TIA in the inpatient stroke unit. I also see outpatients in a stroke clinic and conduct follow-up of patients discharged from the neurological ICU, in the "Outcomes clinic".

I am interested in the study of the radiological characteristics and temporal profile of edema/ tissue injury in the perihematomal area around spontaneous intracerebral hemorrhage. I am also interested in developing protocols for emergent reversal of anticoagulation in a life-threatening hemorrhage situation.

### CLINICAL TRIALS

- Antihypertensive Treatment of Acute Cerebral Hemorrhage-II, Not Recruiting
- High-Dose Deferoxamine in Intracerebral Hemorrhage, Not Recruiting
- Impact of Fever Prevention in Brain Injured Patients, Not Recruiting
- Phase 3 Study to Evaluate the Efficacy and Safety of Intravenous BIIB093 (Glibenclamide) for Severe Cerebral Edema Following Large Hemispheric Infarction, Not Recruiting

## Publications

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### PUBLICATIONS

- **Teleneurocritical Care (TeleNCC) Consensus Statement : The American Academy of Neurology (AAN), the American Association of Neurological Surgeons (AANS), and the Congress of Neurological Surgeons (CNS) affirm the value of this statement. Endorsed by the American Telemedicine Association (ATA).** *Neurocritical care*  
Murray, N. M., Demaerschalk, B. M., Brown, C. S., Chang, I., Fontaine, G. V., Freeman, W. D., Helbok, R., Knoedler, M. A., Kramer, C. L., LaRovere, K. L., McKasson, M., Nelson, M. A., Nelson, et al  
2026
- **Guidelines in Action: Blood Pressure Management in the Setting of an Acute Intracerebral Hemorrhage.** *Stroke*  
Venkataraman, P., Venkatasubramanian, C., Ayodele, M., Simpkins, A. N.  
2026
- **Impact of Arterial Spin Labeling (ASL) on Etiological Work-up of Adult Spontaneous Intracerebral Hemorrhage (ICH)**  
Chin, V., Mlynash, M., Venkatasubramanian, C., Dugue, R.  
LIPPINCOTT WILLIAMS & WILKINS.2026
- **Contemporary US Practice Patterns Regarding Anticoagulation and LAA Closure in ICH Survivors with Atrial Fibrillation**  
Kamel, H., Viscoli, C., Francois, C., Khatri, P., Elm, J., Feske, S., Bachmann, A., Murthy, S., Tirschwell, D., Shaban, A., Buletko, A., Venkatasubramanian, C., Sheth, et al  
LIPPINCOTT WILLIAMS & WILKINS.2026
- **Time to Acute Treatment in Intracerebral Hemorrhage Lags Significantly Behind Ischemic Stroke: A Multicenter, Observational Retrospective Study.** *Stroke*  
Melmed, K. R., Lele, A. V., Ayodele, M., Goldstein, J. N., Lackamp, A., Dombrowski, K. E., Alkhachroum, A., Mainali, S., de Havenon, A., Krishnamohan, P., Subramaniam, T., Stretz, C., Lee, et al  
2025
- **Intravenous glibenclamide for cerebral oedema after large hemispheric stroke (CHARM): a phase 3, double-blind, placebo-controlled, randomised trial.** *The Lancet. Neurology*  
Sheth, K. N., Albers, G. W., Saver, J. L., Campbell, B. C., Molyneaux, B. J., Hinson, H. E., Cordonnier, C., Steiner, T., Toyoda, K., Wintermark, M., Littauer, R., Collins, J., Lucas, et al  
2024; 23 (12): 1205-1213
- **Automated cerebral hemorrhage volume calculation and stability detection using automated software.** *Research square*  
Sreekrishnan, A., Venkatasubramanian, C., Heit, J. J.  
2023
- **Transcranial Direct Current Stimulation for Focal Status Epilepticus or Lateralized Periodic Discharges in Four Patients in a Critical Care Setting.** *Epilepsia*  
Fisher, R. S., McGinn, R. J., Von Stein, E. L., Wu, T. Q., Qing, K. Y., Fogarty, A., Razavi, B., Venkatasubramanian, C.  
2023
- **Prognostication of ICU Patients by Providers with and without Neurocritical Care Training.** *Neurocritical care*  
Finley Caulfield, A., Mlynash, M., Eyngorn, I., Lansberg, M. G., Afjei, A., Venkatasubramanian, C., Buckwalter, M. S., Hirsch, K. G.  
2022
- **Surgical Management of Spontaneous Intracerebral Hemorrhage** *CURRENT TREATMENT OPTIONS IN NEUROLOGY*  
Walia, S., Fisher, K., Dodd, R. L., Venkatasubramanian, C.  
2021; 23 (8)
- **Standardized Nomenclature for Modified Rankin Scale Global Disability Outcomes: Consensus Recommendations From Stroke Therapy Academic Industry Roundtable XI.** *Stroke*  
Saver, J. L., Chaisinanunkul, N., Campbell, B. C., Grotta, J. C., Hill, M. D., Khatri, P., Landen, J., Lansberg, M. G., Venkatasubramanian, C., Albers, G. W., XIth Stroke Treatment Academic Industry Roundtable  
2021: STROKEAHA121034480
- **Acute Stroke Imaging Research Roadmap IV: Imaging Selection and Outcomes in Acute Stroke Clinical Trials and Practice.** *Stroke*

Campbell, B. C., Lansberg, M. G., Broderick, J. P., Derdeyn, C. P., Khatri, P., Sarraj, A., Saver, J. L., Vagal, A., Albers, G. W., STAIR XI Consortium, Adeoye, O., Ansari, S., Boltze, J., et al  
2021: STROKEAHA121035132

- **Reversible Cerebral Vasoconstriction Syndrome in Patients with Coronavirus Disease: A Multicenter Case Series.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*  
Arandela, K., Samudrala, S., Abdalkader, M., Anand, P., Daneshmand, A., Dasenbrock, H., Nguyen, T., Ong, C., Takahashi, C., Shulman, J., Babi, M. A., Sivakumar, S., Shah, et al  
2021; 30 (12): 106118
- **Automated Cerebral Hemorrhage Detection Using RAPID.** *AJNR. American journal of neuroradiology*  
Heit, J. J., Coelho, H., Lima, F. O., Granja, M., Aghaebrahim, A., Hanel, R., Kwok, K., Haerian, H., Cereda, C. W., Venkatasubramanian, C., Dehkharghani, S., Carbonera, L. A., Wiener, et al  
2020
- **Prognostic value of diffusion-weighted MRI for post-cardiac arrest coma.** *Neurology*  
Hirsch, K. G., Fischbein, N., Mlynash, M., Kemp, S., Bammer, R., Eyngorn, I., Tong, J., Moseley, M., Venkatasubramanian, C., Caulfield, A. F., Albers, G.  
2020
- **Guidelines for the Acute Treatment of Cerebral Edema in Neurocritical Care Patients.** *Neurocritical care*  
Cook, A. M., Morgan Jones, G. n., Hawryluk, G. W., Mailloux, P. n., McLaughlin, D. n., Papangelou, A. n., Samuel, S. n., Tokumaru, S. n., Venkatasubramanian, C. n., Zacko, C. n., Zimmermann, L. L., Hirsch, K. n., Shutter, et al  
2020
- **Catecholamine-induced cerebral vasospasm and multifocal infarctions in pheochromocytoma.** *Endocrinology, diabetes & metabolism case reports*  
Madhok, J. n., Kloosterboer, A. n., Venkatasubramanian, C. n., Mihm, F. G.  
2020; 2020
- **Surgical Performance Determines Functional Outcome Benefit in the Minimally Invasive Surgery Plus Recombinant Tissue Plasminogen Activator for Intracerebral Hemorrhage Evacuation (MISTIE) Procedure** *NEUROSURGERY*  
Awad, I. A., Polster, S. P., Carrion-Penagos, J., Thompson, R. E., Cao, Y., Stadnik, A., Money, P., Fam, M. D., Koskimaeki, J., Girard, R., Lane, K., McBee, N., Ziai, et al  
2019; 84 (6): 1157–67
- **Efficacy and safety of minimally invasive surgery with thrombolysis in intracerebral haemorrhage evacuation (MISTIE III): a randomised, controlled, open-label, blinded endpoint phase 3 trial.** *Lancet (London, England)*  
Hanley, D. F., Thompson, R. E., Rosenblum, M., Yenokyan, G., Lane, K., McBee, N., Mayo, S. W., Bistran-Hall, A. J., Gandhi, D., Mould, W. A., Ullman, N., Ali, H., Carhuapoma, et al  
2019
- **Emergency Neurological Life Support: Fourth Edition, Updates in the Approach to Early Management of a Neurological Emergency.** *Neurocritical care*  
Venkatasubramanian, C. n., Lopez, G. A., O'Phelan, K. H.  
2019
- **Absolute risk and predictors of the growth of acute spontaneous intracerebral haemorrhage: a systematic review and meta-analysis of individual patient data** *LANCET NEUROLOGY*  
Salman, R., Frantzas, J., Lee, R. J., Lyden, P. D., Battey, T. W. K., Ayres, A. M., Goldstein, J. N., Mayer, S. A., Steiner, T., Wang, X., Arima, H., Hasegawa, H., Oishi, et al  
2018; 17 (10): 885–94
- **Phantom-based standardization of CT angiography images for spot sign detection** *NEURORADIOLOGY*  
Morotti, A., Romero, J. M., Jessel, M. J., Hernandez, A. M., Vashkevich, A., Schwab, K., Burns, J. D., Shah, Q. A., Bergman, T. A., Suri, M. K., Ezzeddine, M., Kirmani, J. F., Agarwal, et al  
2017; 59 (9): 839–44
- **Emergency Neurological Life Support: Traumatic Brain Injury** *NEUROCRITICAL CARE*  
Garvin, R., Venkatasubramanian, C., Lumba-Brown, A., Miller, C. M.  
2015; 23: S143-S154

- **Emergency Neurological Life Support: Traumatic Brain Injury.** *Neurocritical care*  
Garvin, R., Venkatasubramanian, C., Lumba-Brown, A., Miller, C. M.  
2015; 23 Suppl 2: S143-54
- **Serum Neuron-Specific Enolase Levels from the Same Patients Differ Between Laboratories: Assessment of a Prospective Post-cardiac Arrest Cohort.** *Neurocritical care*  
Mlynash, M., Buckwalter, M. S., Okada, A., Caulfield, A. F., Venkatasubramanian, C., Eyngorn, I., Verbeek, M. M., Wijman, C. A.  
2013; 19 (2): 161-166
- **Christine Anne Cunegonde Wijman, MD, PhD (1965-2013).** *Neurocritical care*  
Finley Caulfield, A., Venkatasubramanian, C.  
2013; 19 (1): 135-136
- **Natural history and prognostic value of corticospinal tract Wallerian degeneration in intracerebral hemorrhage.** *Journal of the American Heart Association*  
Venkatasubramanian, C., Kleinman, J. T., Fischbein, N. J., Olivot, J., Gean, A. D., Eyngorn, I., Snider, R. W., Mlynash, M., Wijman, C. A.  
2013; 2 (4)
- **Magnetic resonance imaging profile of blood-brain barrier injury in patients with acute intracerebral hemorrhage.** *Journal of the American Heart Association*  
Aksoy, D., Bammer, R., Mlynash, M., Venkatasubramanian, C., Eyngorn, I., Snider, R. W., Gupta, S. N., Narayana, R., Fischbein, N., Wijman, C. A.  
2013; 2 (3)
- **Natural history and prognostic value of corticospinal tract wallerian degeneration in intracerebral hemorrhage.** *Journal of the American Heart Association*  
Venkatasubramanian, C., Kleinman, J. T., Fischbein, N. J., Olivot, J., Gean, A. D., Eyngorn, I., Snider, R. W., Mlynash, M., Wijman, C. A.  
2013; 2 (4): e000090
- **Magnetic resonance imaging profile of blood-brain barrier injury in patients with acute intracerebral hemorrhage.** *Journal of the American Heart Association*  
Aksoy, D., Bammer, R., Mlynash, M., Venkatasubramanian, C., Eyngorn, I., Snider, R. W., Gupta, S. N., Narayana, R., Fischbein, N., Wijman, C. A.  
2013; 2 (3): e000161
- **Intracranial hypotension producing reversible coma: a systematic review, including three new cases A review** *JOURNAL OF NEUROSURGERY*  
Loya, J. J., Mindea, S. A., Yu, H., Venkatasubramanian, C., Chang, S. D., Burns, T. C.  
2012; 117 (3): 615-628
- **A comparison of cooling techniques to treat cardiac arrest patients with hypothermia.** *Stroke research and treatment*  
Finley Caulfield, A., Rachabattula, S., Eyngorn, I., Hamilton, S. A., Kalimuthu, R., Hsia, A. W., Lansberg, M. G., Venkatasubramanian, C., BAUMANN, J. J., Buckwalter, M. S., Kumar, M. A., Castle, J. S., Wijman, et al  
2011; 2011: 690506-?
- **Natural History of Perihematomal Edema After Intracerebral Hemorrhage Measured by Serial Magnetic Resonance Imaging** *STROKE*  
Venkatasubramanian, C., Mlynash, M., Finley-Caulfield, A., Eyngorn, I., Kalimuthu, R., Snider, R. W., Wijman, C. A.  
2011; 42 (1): 73-80
- **MRI Profile of the Perihematomal Region in Acute Intracerebral Hemorrhage** *STROKE*  
Olivot, J., Mlynash, M., Kleinman, J. T., Straka, M., Venkatasubramanian, C., Bammer, R., Moseley, M. E., Albers, G. W., Wijman, C. A.  
2010; 41 (11): 2681-2683
- **MIGRAINE-LIKE HEADACHE WITH VISUAL DEFICIT AND PERFUSION ABNORMALITY ON MRI** *NEUROLOGY*  
Kapinos, G., Fischbein, N. J., Zaharchuk, G., Venkatasubramanian, C.  
2010; 74 (21): 1743-1745
- **Outcome prediction in mechanically ventilated neurologic patients by junior neurointensivists** *NEUROLOGY*  
Caulfield, A. F., GABLER, L., Lansberg, M. G., Eyngorn, I., Mlynash, M., Buckwalter, M. S., Venkatasubramanian, C., Wijman, C. A.  
2010; 74 (14): 1096-1101
- **Utility of Early MRI in the Diagnosis and Management of Acute Spontaneous Intracerebral Hemorrhage** *CEREBROVASCULAR DISEASES*  
Wijman, C. A., Venkatasubramanian, C., Bruins, S., Fischbein, N., Schwartz, N.

2010; 30 (5): 456-463

- **Favorable Outcome From A Locked-In State Despite Extensive Pontine Infarction By MRI** *NEUROCRITICAL CARE*  
Samaniego, E. A., Lansberg, M. G., DeGeorgia, M., Venkatasubramanian, C., Wijman, C. A.  
2009; 11 (3): 369-371
- **Transient Isolated Vertigo Secondary to an Acute Stroke of the Cerebellar Nodulus** *Arch Neurol*  
Schwartz N, V. A.  
2007
- **Natural history and clinical significance of perihematomal edema after spontaneous intracerebral hemorrhage (abstract)** *Stroke*  
Venkatasubramanian C, M. K.  
2007
- **The effect of blood pressure on hematoma and perihematomal area in acute intracerebral hemorrhage.** *Neurosurgery clinics of North America*  
Wijman, C. A., Venkatasubramanian, C.  
2006; 17: 11-24
- **Myocarditis following scorpion sting** *The Antiseptic*  
S. Dandapani, Subbiah, Chitra V.  
1998: 303-304
- **Privatization of medical services in India** *Indian Journal of Clinical Practice*  
Chitra V.  
1997: 81-82