




## Chitra Venkatasubramanian, MBBS, MD

Clinical Professor, Neurology & Neurological Sciences

 Curriculum Vitae available Online

### CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

213 Quarry Rd 4th Fl

MC 5957

Palo Alto, CA 94304

**Tel** (650) 723-4448

**Fax** (650) 723-4451

### 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 has been on faculty since 2007. Her primary focus is the clinical care of neurologically critically ill patients in the intensive care unit 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. Her main interests are in brain hemorrhage, unusual and rare causes of stroke, cerebral venous thrombosis and anticoagulation management after strokes.

Her research focuses on the study of brain edema and tissue perfusion in intracerebral hemorrhage using novel MRI techniques and biomarkers. She is the Stanford principal investigator for several clinical trials in intracerebral hemorrhage. She is happily married and has two young boys. She enjoys cooking, yoga and coaching her son for spelling and geography bees.

#### CLINICAL FOCUS

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

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Neurology & Neurological Sciences

#### 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

- Fellowship: Stanford University Vascular Neurology Fellowship (2006) CA
- Residency: Stanford University Neurology Residency (2005) CA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (2002) CA
- Board Certification: Neurocritical Care, United Council for Neurologic Subspecialties
- Residency: Coimbatore Medical College (1999) India
- Board Certification, American Society of Neuroimaging , Neurosonology (2010)
- Board Certification: Vascular Neurology, American Board of Psychiatry and Neurology (2008)
- Board Certification, United Council of Neurologic Subspecialties , Neurocritical Care (2007)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (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 perihematoma 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

- Clot Lysis: Evaluating Accelerated Resolution of Intraventricular Hemorrhage Phase III, Recruiting
- Computed Tomography Perfusion (CTP) to Predict Response to Recanalization in Ischemic Stroke Project (CRISP), Recruiting
- High-Dose Deferoxamine in Intracerebral Hemorrhage, Recruiting
- Imaging Collaterals in Acute Stroke (iCAS), Recruiting
- Minimally Invasive Surgery Plus Rt-PA for ICH Evacuation Phase III, Recruiting
- Transient Ischemic Attack (TIA) Triage and Evaluation of Stroke Risk, Recruiting
- Antihypertensive Treatment of Acute Cerebral Hemorrhage-II, Not Recruiting
- Efficacy and Safety Study of Desmoteplase to Treat Acute Ischemic Stroke (DIAS-4), Not Recruiting
- Efficacy and Safety Trial of Transcranial Laser Therapy Within 24 Hours From Stroke Onset (NEST-3), Not Recruiting
- Insulin Resistance Intervention After Stroke Trial, Not Recruiting
- Progesterone for the Treatment of Traumatic Brain Injury III, Not Recruiting

## Publications

### PUBLICATIONS

- **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., Hawryluk, G. W., Mailloux, P., McLaughlin, D., Papangelou, A., Samuel, S., Tokumaru, S., Venkatasubramanian, C., Zacko, C., Zimmermann, L. L., Hirsch, K., Shutter, et al  
2020
- **Catecholamine-induced cerebral vasospasm and multifocal infarctions in pheochromocytoma.** *Endocrinology, diabetes & metabolism case reports*  
Madhok, J., Kloosterboer, A., Venkatasubramanian, C., 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., 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., Frantziias, J., Lee, R. J., Lyden, P. D., Battey, T. 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., Eyingorn, 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., Eyingorn, 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., Eyingorn, 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., Eyingorn, 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., Eyingorn, 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., Eyingorn, 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., Eyingorn, 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