



## Prasanthi Govindarajan

Associate Professor of Emergency Medicine (Adult Clinical/Academic)

### CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Emergency Medicine**

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### ACADEMIC CONTACT INFORMATION

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### Bio

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#### BIO

Dr. Govindarajan is a health services researcher with expertise in emergency medical services and healthcare systems. The goals of her research are to improve access to specialized centers for acute stroke care (thrombolysis-capable and thrombectomy-capable centers) through early detection of stroke in the prehospital setting.

Following her widely-cited (initial work on stroke detection by emergency medical services, she received a career development award (K08 HS17965) from the Agency of Healthcare Research and Quality to study the impact of a stroke destination protocol for emergency service providers that increased access to primary stroke centers in two California counties. The findings from this work has led to a national study on the effectiveness of a stroke destination protocol for emergency medical service providers and is funded by the Agency of Health Care Research and Quality (R01 HS026207). Her collaborators are scientists at the Center for Disease Control and Prevention (Heart Disease and Stroke Prevention) and Stanford-Surgery Policy Improvement Research and Education.

#### CLINICAL FOCUS

- Emergency Medicine
- Stroke
- Emergency Medical Services
- Health Services Research
- Neurologic emergencies

#### ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Emergency Medicine

#### ADMINISTRATIVE APPOINTMENTS

- Associate Vice-Chair, Department of Emergency Medicine, Stanford University School of Medicine, (2019- present)

#### HONORS AND AWARDS

- Certificate of Honor in Pathology, Madras Medical College (1994)
- David Frommer Award for Academic Excellence, Boston Medical Center (2005)

- Essential Core Teaching Award for “Inspirational Teaching.” (“Danovic Case”), University of California, San Francisco (2008)
- Dean’s Prize for Clinical and Translational research (Student: Benjamin Friedman), University of California, San Francisco (2012)
- Save of the Month, Emergency Med, Stanford University Medical Center (2017)
- Named "Top 50 Peer reviewer for 2018", Annals of Emergency Medicine, the premier journal in emergency medicine (2019)
- R01026207-01A1, Agency of Healthcare Research and Quality (AHRQ) Department of Health and Human Services (07/2019)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, Society of Academic Emergency Medicine (2001 - present)
- Member, American Heart Association/American Stroke Association (2007 - present)
- Neurological Emergencies IG, SAEM (2014 - present)
- Member, Grants Committee, Society of Academic Emergency Medicine (2015 - 2016)

## **PROFESSIONAL EDUCATION**

- Internship: Boston University School of Medicine (2002) MA
- Fellowship: University Of San Diego (2007) CA
- Fellowship, University of California San Diego , Emergency Medical Services (2007)
- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2006)
- MAS, University of California-San Diego , Clinical Research (2007)
- Residency: Boston Medical Center (2005) MA
- Residency, Boston Medical Center , Emergency Medicine (2005)
- Internship, Boston University Medical Center , Medicine (2002)
- Medical Education: Madras Medical College and Government General Hospital (1997) India
- MBBS, Madras Medical College , Medicine (1997)

## **LINKS**

- Collaborator - S-SPIRE: <https://med.stanford.edu/s-spire.html>
- Mixed Methods Workshop Course Faculty: <https://med.stanford.edu/s-spire.html/mixed-methods-course.html>
- Stanford Artificial Intelligence Lab: [ai.stanford.edu](http://ai.stanford.edu)

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

My current research focuses on using large databases to understand the effect of state or county-wide public policy on health care outcomes (specifically stroke). Our team is also exploring how patient safety, effective and equitable care in acute stroke management can be achieved using technology.

### **PROJECTS**

- Improving Field Assessment of Stroke - Stanford University and Woodside Fire Department
- Effect of a Stroke Bypass on Outcomes in a National Sample - Stanford University
- Effect of a two-tier stroke bypass on a thrombectomy rates - Stanford University, UCLA and County of Los Angeles Emergency Medical Services
- Variability in the physician management of suspected sub-arachnoid hemorrhage - Stanford University

## Publications

### PUBLICATIONS

- **Effect of Rapid Response EEG on Anti-Seizure Medication Usage**  
Kurup, D., Davey, Z., Hoang, P., Wu, C., Werbaneth, K., Shah, V., Hirsch, K. G., Govindarajan, P., Meador, K. J.  
WILEY.2022: S88-S89
- **One-Year Costs Associated With the Veterans Affairs National TeleStroke Program.** *Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research*  
Wagner, T. H., Schoemaker, L., Gehlert, E., Nelson, R. E., Murphy, K., Martini, S., Graham, G. D., Govindarajan, P., Williams, L. S.  
2022
- **Feasibility of Specimen Self-collection in Young Children Undergoing SARS-CoV-2 Surveillance for In-Person Learning.** *JAMA network open*  
Altamirano, J., Lopez, M., Robinson, I. G., Chun, L. X., Tam, G. K., Shaikh, N. J., Hoyte, E. G., Carrington, Y. J., Jani, S. G., Toomarian, E. Y., Hsing, J. C., Ma, J., Pulendran, et al  
2022; 5 (2): e2148988
- **Lessons Learned From the Historical Trends on Thrombolysis Use for Acute Ischemic Stroke Among Medicare Beneficiaries in the United States.** *Frontiers in neurology*  
Meng, T., Trickey, A. W., Harris, A. H., Matheson, L., Rosenthal, S., Traboulsi, A. A., Saver, J. L., Wagner, T., Govindarajan, P.  
2022; 13: 827965
- **Evaluating the utility of Rapid Response EEG in emergency care.** *Emergency medicine journal : EMJ*  
Wright, N. M., Madill, E. S., Isenberg, D., Gururangan, K., McClellan, H., Snell, S., Jacobson, M. P., Gentile, N. T., Govindarajan, P.  
2021
- **Prehospital Identification of Large Vessel Occlusions Using Modified National Institutes of Health Stroke Scale: A Pilot Study.** *Frontiers in neurology*  
Mulkerin, W. D., Spokoyny, I., Francisco, J. T., Lima, B., Corry, M. D., Nudelman, M. J., Niknam, K., Brown, I. P., Kohn, M. A., Govindarajan, P.  
2021; 12: 643356
- **Trends in Intravenous Alteplase Use and Mortality Among Medicare Beneficiaries With Acute Stroke: A Eight-Year Retrospective Analysis**  
Meng, T., Trickey, A., Govindarajan, P.  
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Eight-year Trends in Ambulance Use in a National Sample of Medicare Beneficiaries With Stroke**  
Meng, T., Trickey, A. W., Govindarajan, P.  
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Are EMS bypass policies effective implementation strategies for intravenous alteplase for stroke?** *Implementation science communications*  
Harris, A. H., Barreto, N. B., Trickey, A. W., Bereksnyei, S. n., Meng, T. n., Wagner, T. H., Govindarajan, P. n.  
2020; 1: 50
- **Assessment of Sensitivity and Specificity of Patient-Collected Lower Nasal Specimens for Sudden Acute Respiratory Syndrome Coronavirus 2 Testing.** *JAMA network open*  
Altamirano, J. n., Govindarajan, P. n., Blomkalns, A. L., Kushner, L. E., Stevens, B. A., Pinsky, B. A., Maldonado, Y. n.  
2020; 3 (6): e2012005
- **Effect of Acute Stroke Care Regionalization on Intravenous Alteplase Use in Two Urban Counties.** *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*  
Govindarajan, P., Shiboski, S., Grimes, B., Cook, L., Ghilarducci, D., Meng, T., Trickey, A. W.  
2019: 1-14
- **Practice Variation in the Diagnosis of Aneurysmal Subarachnoid Hemorrhage: A Survey of US and Canadian Emergency Medicine Physicians.** *Neurocritical care*  
Kumar, A., Niknam, K., Lumba-Brown, A., Woodruff, M., Bledsoe, J. R., Kohn, M. A., Perry, J. J., Govindarajan, P.  
2019
- **Practice Variation in the Management of Aneurysmal Subarachnoid Hemorrhage-A Survey of US and Canadian Emergency Medicine Physicians**  
Kumar, A., Niknam, K., Lumba-Brown, A., Bledsoe, J., Woodruff, M., Kohn, M., Perry, J., Govindarajan, P.

LIPPINCOTT WILLIAMS & WILKINS.2019

- **Prehospital Systolic Hypertension and Outcomes in Patients with Spontaneous Intracerebral Hemorrhage.** *Cureus*  
Hatcher, S., Chen, C., Govindarajan, P.  
2017; 9 (1)
- **A low-cost, tablet-based option for prehospital neurologic assessment: The iTREAT Study.** *Neurology*  
Chapman Smith, S. N., Govindarajan, P., Padrick, M. M., Lippman, J. M., McMurry, T. L., Resler, B. L., Keenan, K., Gunnell, B. S., Mehndiratta, P., Chee, C. Y., Cahill, E. A., Dietiker, C., Cattell-Gordon, et al  
2016; 87 (1): 19-26
- **PARAMEDIC PERSPECTIVES ON BARRIERS TO PREHOSPITAL ACUTE STROKE RECOGNITION** *PREHOSPITAL EMERGENCY CARE*  
Hodell, E., Hughes, S. D., Corry, M., Kivlehan, S., Resler, B., Sheon, N., Govindarajan, P.  
2016; 20 (3): 415-424
- **Race and sex disparities in prehospital recognition of acute stroke.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*  
Govindarajan, P., Friedman, B. T., Delgadillo, J. Q., Ghilarducci, D., Cook, L. J., Grimes, B., McCulloch, C. E., Johnston, S. C.  
2015; 22 (3): 264-72
- **Prehospital aspirin administration for acute coronary syndrome (ACS) in the USA: an EMS quality assessment using the NEMSIS 2011 database.** *Emergency medicine journal : EMJ*  
Tataris, K. L., Mercer, M. P., Govindarajan, P.  
2015
- **National trends in the utilization of emergency medical services for acute myocardial infarction and stroke.** *The western journal of emergency medicine*  
Tataris, K., Kivlehan, S., Govindarajan, P.  
2014; 15 (7): 744-748
- **Regional Differences in Emergency Medical Services Use for Patients with Acute Stroke (Findings from the National Hospital Ambulatory Medical Care Survey Emergency Department Data File)** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*  
Govindarajan, P., Gonzales, R., Maselli, J. H., Johnston, S. C., Fahimi, J., Poisson, S., Stein, J. C.  
2013; 22 (8): E257-E263
- **Practice variability among the EMS systems participating in Cardiac Arrest Registry to Enhance Survival (CARES)** *RESUSCITATION*  
Govindarajan, P., Lin, L., Landman, A., McMullan, J. T., McNally, B. F., Crouch, A. J., Sasson, C.  
2012; 83 (1): 76-80
- **Air Medical Transport for Acute Ischemic Stroke Patients: A Retrospective Cohort Study of National Trends Over an 8-Year Period.** *Air medical journal*  
Urdaneta, A., Fisk, C., Tandel, M. D., Garcia, A., Govindarajan, P.  
2023; 42 (6): 423-428
- **Electronic Nose Development and Preliminary Human Breath Testing for Rapid, Non-Invasive COVID-19 Detection.** *ACS sensors*  
Li, J., Hannon, A., Yu, G., Idziak, L. A., Sahasrabhojane, A., Govindarajan, P., Maldonado, Y. A., Ngo, K., Abdou, J. P., Mai, N., Ricco, A. J.  
2023
- **Journal update monthly top five.** *Emergency medicine journal : EMJ*  
Nayak, R. U., Ravi, S., Kondayapalepu, P. S., Prabhakar, D., Govindarajan, P., Van Den Berg, P.  
2023; 40 (5): 390-391
- **Rapid Response EEG: Current State and Future Directions.** *Current neurology and neuroscience reports*  
Davey, Z., Gupta, P. B., Li, D. R., Nayak, R. U., Govindarajan, P.  
2022
- **Less is more: Recommendations for achieving best practices in antibiotic use for acute upper respiratory infections** *JOURNAL OF THE AMERICAN COLLEGE OF EMERGENCY PHYSICIANS OPEN*  
Sills, J., Boccio, E., Govindarajan, P., Duanmu, Y.  
2022; 3 (3)
- **External validation of the 4C Mortality Score for hospitalised patients with COVID-19 in the RECOVER network.** *BMJ open*  
Gordon, A. J., Govindarajan, P., Bennett, C. L., Matheson, L., Kohn, M. A., Camargo, C., Kline, J.

2022; 12 (4): e054700

- **Effect of rapid EEG on anti-seizure medication usage.** *Epileptic disorders : international epilepsy journal with videotape*  
Kurup, D., Davey, Z., Hoang, P., Wu, C., Werbaneth, K., Shah, V., Hirsch, K. G., Govindarajan, P., Meador, K. J.  
2022; 24 (5): 1-7
- **Multi-Center Study of Outcomes Among Persons with HIV who Presented to US Emergency Departments with suspected SARS-CoV-2.** *Journal of acquired immune deficiency syndromes (1999)*  
Bennett, C. L., Ogele, E., Pettit, N. R., Bischof, J. J., Meng, T., Govindarajan, P., Camargo, C. A., Nordenholz, K., Kline, J. A., RECOVER Investigators  
2021
- **Characteristics of Emergency Department Patients With COVID-19 at a Single Site in Northern California: Clinical Observations and Public Health Implications.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*  
Duanmu, Y. n., Brown, I. P., Gibb, W. R., Singh, J. n., Matheson, L. W., Blomkalns, A. L., Govindarajan, P. n.  
2020
- **Practice Variation in the Diagnosis of Aneurysmal Subarachnoid Hemorrhage: A Survey of US and Canadian Emergency Medicine Physicians** *NEUROCRITICAL CARE*  
Kumar, A., Niknam, K., Lumba-Brown, A., Woodruff, M., Bledsoe, J. R., Kohn, M. A., Perry, J. J., Govindarajan, P.  
2019; 31 (2): 321–28
- **Paramedic Detection of Large Vessel Occlusions Using mNIHSS: A Prospective Cohort Pilot Study.**  
Mulkerin, W., Francisco, J., Lima, B., Spokorny, I., Gilbert, G., Brown, I., Bernier, E., Niknam, K., Govindarajan, P.  
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Feasibility of a 'Psychologically Smart' Community Pharmacy Intervention to Improve Patient Recognition and Response Time in Stroke.**  
Malcolm, E., Spokorny, I., Safaeinili, N., Tai, A., Govindarajan, P., Donelson, S., Door, T., Fotuhi, O., Wu, W., Cohen, G.  
LIPPINCOTT WILLIAMS & WILKINS.2019
- **A Web-based Decision Tool to Estimate Subarachnoid Hemorrhage Risk in Emergency Department Patients.** *Cureus*  
Manella, H., Sivasankar, S., Perry, J. J., Pfeil, S., Senyak, J., Shachter, R., Govindarajan, P.  
2018; 10 (1): e2096
- **A Web-based Decision Tool to Estimate Subarachnoid Hemorrhage Risk in Emergency Department Patients** *Cureus*  
Manella, H., Sivasankar, S., Perry, J., Pfeil, S., Senyak, J., Shachter, R., Govindarajan, P.  
2018; 10 (1)
- **Impact of individual clinical outcomes on trial participants' perspectives on enrollment in emergency research without consent** *CLINICAL TRIALS*  
Whitesides, L. W., Baren, J. M., Biros, M. H., Fleischman, R. J., Govindarajan, P. R., Jones, E. B., Pancioli, A. M., Pentz, R. D., Scicluna, V. M., Wright, D. W., Dickert, N. W.  
2017; 14 (2): 180-186
- **Patients' perspectives of enrollment in research without consent: the patients' experiences in emergency research-progesterone for the treatment of traumatic brain injury study\*.** *Critical care medicine*  
Dickert, N. W., Scicluna, V. M., Baren, J. M., Biros, M. H., Fleischman, R. J., Govindarajan, P. R., Jones, E. B., Pancioli, A. M., Wright, D. W., Pentz, R. D.  
2015; 43 (3): 603-12
- **COMMUNITY CONSULTATION FOR PREHOSPITAL RESEARCH: EXPERIENCES OF STUDY COORDINATORS AND PRINCIPAL INVESTIGATORS** *PREHOSPITAL EMERGENCY CARE*  
Dickert, N. W., Govindarajan, P., Harney, D., Silbergleit, R., Sugarman, J., Weinfurt, K. P., Pentz, R. D.  
2014; 18 (2): 274-281
- **Emergency department visits and hospitalizations by tube-fed nursing home residents with varying degrees of cognitive impairment: a national study** *BMC GERIATRICS*  
Stephens, C. E., Sackett, N., Govindarajan, P., Lee, S. J.  
2014; 14
- **Enrollment in research under exception from informed consent: The Patients' Experiences in Emergency Research (PEER) study** *RESUSCITATION*  
Dickert, N. W., Mah, V. A., Baren, J. M., Biros, M. H., Govindarajan, P., Pancioli, A., Silbergleit, R., Wright, D. W., Pentz, R. D.  
2013; 84 (10): 1416-1421

- **Nationwide Patterns of Hospitalization after Transient Ischemic Attack** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*  
Kamel, H., Fahimi, J., Govindarajan, P., Navi, B. B.  
2013; 22 (7): E142-E145
- **Marked reduction in length of stay for patients with psychiatric emergencies after implementation of a comanagement model.** *Academic emergency medicine*  
Polevoi, S. K., Jewel Shim, J., McCulloch, C. E., Grimes, B., Govindarajan, P.  
2013; 20 (4): 338-343
- **Emergency Research: Using Exception from Informed Consent, Evaluation of Community Consultations** *ACADEMIC EMERGENCY MEDICINE*  
Govindarajan, P., Dickert, N. W., Meeker, M., de Souza, N., Harney, D., Hemphill, C. J., Pentz, R.  
2013; 20 (1): 98-103
- **Feasibility study to assess the use of the Cincinnati stroke scale by emergency medical dispatchers: a pilot study** *EMERGENCY MEDICINE JOURNAL*  
Govindarajan, P., Desouza, N. T., Pierog, J., Ghilarducci, D., Johnston, S. C.  
2012; 29 (10): 848-850
- **Emergency Physicians Research Common Problems in Proportion to their Frequency.** *The western journal of emergency medicine*  
Wilson, M. P., Vilke, G. M., Govindarajan, P., Itagaki, M. W.  
2012; 13 (4): 344-350
- **Comparative Evaluation of Stroke Triage Algorithms for Emergency Medical Dispatchers (MeDS): Prospective Cohort Study Protocol** *BMC NEUROLOGY*  
Govindarajan, P., Ghilarducci, D., McCulloch, C., Pierog, J., Bloom, E., Johnston, C.  
2011; 11
- **Patient-centered Integrated Networks of Emergency Care: Consensus-based Recommendations and Future Research Priorities** *ACADEMIC EMERGENCY MEDICINE*  
Govindarajan, P., Larkin, G. L., Rhodes, K. V., Piazza, G., Byczkowski, T. L., Edwards, M., Baren, J. M.  
2010; 17 (12): 1322-1329

## PRESENTATIONS

- Regionalization of Acute Stroke Care and Treatment Outcomes: Trends Over a Five Year Period - Clinical Cerebrovascular Conference (8/22/2016)
- Triage to Thrombolysis - Community - Stroke Neurologists, Prehospital Providers and Nurses (5/20/2016)
- iTREAT and mNIHSS for Fire and First Responders - 2016 Annual EMS Stroke Symposium: A Matter of Time Conference Program (10/18/2016)
- Stroke Regionalization on Access and Treatment Rates - S-SPIRE (5/24/2017)
- SHARED - Shared Decision Making in Spontaneous Sub-Arachnoid Hemorrhage - Western Regional Society of Academic Emergency Medicine (4/8/2017)