

## *Curriculum vitae*

**Date Prepared:** 10/01/2023

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### **Education**

<b>Year</b>	<b>Degree (Honors)</b>	<b>Field of Study (Thesis advisor for PhDs)</b>	<b>Institution</b>
2002 – 2005	Doctor of Medicine (MD-Anatomy)	Neurosciences, Developmental Neurobiology; Anatomy “Development of human fetal cochlear nerve” Advisor: Tara S Roy, M.D., PhD	All India Institute of Medical Sciences, New Delhi, India
1994 – 2000	Bachelor of Medicine, Bachelor of Surgery (MBBS)		Nilratan Sircar Medical College, Kolkata, India

### **Postdoctoral Training** *[Include residency/fellowship]*

<b>Year(s)</b>	<b>Titles</b>	<b>Specialty/Discipline (Lab PI for postdoc research)</b>	<b>Institution</b>
2011 – 2013	Fellowship	Neurocritical Care	University of Texas, Southwestern Medical Center, Dallas, TX
2010 – 2011	Chief Resident	Neurology	University of Arkansas for Medical Sciences, Little Rock, AR
2007 – 2010	Resident	Neurology	University of Arkansas for Medical Sciences, Little Rock, AR
2002 – 2005	Junior Resident	Developmental Neuroanatomy, Anatomy	All India Institute of Medical Sciences, New Delhi, India

### **Current Licensure and Certification**

**Licensure**

2011 – 2023 Texas Medical Board, Active

**Board and Other Certification**

2021 – 2031 American Board of Psychiatry and Neurology, Neurocritical Care, Active

2016 – 2026 Committee on Advanced Subspecialty Training (CAST), Neurocritical Care, Society of Neurological Surgeons, Active

2011 – 2025 American Board of Psychiatry and Neurology, Neurology, Active

**Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
2018	Outstanding Attending Award	Department of Neurology, University of Oklahoma Health Sciences Center, OK
2015	Most Influential Medical Educator Award	Department of Neurology University of Oklahoma Health Sciences Center, OK
2010	American Neurological Association Resident Symposium	American Neurological Association
2010	Neurocritical Care Society Travel Grant recipient	Neurocritical Care Society
2006	Research Associateship	Indian Council of Medical Research, New Delhi, India
2003	Travel Grant to attend SfN meeting	Council for Scientific and Industrial Research, New Delhi, India
2003	Travel Grant to attend SfN meeting	International Brain Research Organization - Asia Pacific Regional Committee

**Faculty Academic Appointments**

Year(s)	Academic Title	Department	Academic Institution
09/2019 – present	Associate Professor	Neurology and Neurological Surgery	UT Southwestern Medical Center, Dallas, TX
07/2019 – 08/2019	Associate Professor	Neurology	College of Medicine, University of Oklahoma Health Sciences, Oklahoma City, OK
07/2013 – 06/2019	Assistant Professor	Neurology	College of Medicine, University of Oklahoma Health Sciences, Oklahoma City, OK
01/2006 – 05/2007	Senior Demonstrator	Anatomy	All India Institute of Medical Sciences, New Delhi, India

**Appointments at Hospitals/Affiliated Institutions****Past**

<b>Year(s)</b>	<b>Position Title</b>	<b>Department/Division</b>	<b>Institution</b>
07/2013 – 08/2019	Attending physician	Department of Neurology/ Critical Care Neurology	University of Oklahoma Health Sciences Center, OK
<b><u>Current</u></b>			
<b>Year(s)</b>	<b>Position Title</b>	<b>Department/Division</b>	<b>Institution</b>
09/2019 – present	Attending physician	Neurology/ Neurocritical Care	UT Southwestern Medical Center, Dallas
09/2019 – present	Attending physician	Neurology/ Neurocritical Care	Parkland Memorial Hospital, Dallas
09/2019 – present	Attending physician	Neurology/ Neurocritical Care	Texas Health Presbyterian Hospital, Dallas

**Other Professional Positions** *[Industry, foundation, private practice]*

<b>Year(s)</b>	<b>Position Title</b>	<b>Institution</b>
2005 – 2007	Research Scholar, Department of Anatomy	All India Institute of Medical Sciences, New Delhi, India
2002	Housestaff, Department of Nephrology and Renal Transplant	SSKM Hospital, Calcutta, India

**Major Administrative/Leadership Positions** *[Do not include Professional Society positions]*

<b>Year(s)</b>	<b>Position Title</b>	<b>Institution</b>
09/2019 – present	Medical Director and Chief Neurocritical Care Services	Texas Health, Presbyterian Hospital, Dallas
07/2018 – 08/2019	Section Chief, In-patient Neurology	University of Oklahoma Health Sciences Center, Oklahoma City, OK
07/2016 – 08/2019	Medical Director, Neurocritical Intensive Care Unit	Oklahoma University Medical Center, Oklahoma City, OK
07/2015 – 08/2019	Medical Director (Research), Clinical Neurosciences	College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK

**Committee Service** *(Member, unless noted otherwise) [Do not include Professional Society positions]*

<b>Year(s)</b>	<b>Name of Committee</b>	<b>Institution/Organization</b>
<b><u>University</u></b>		
11/2019 – current	Hospital Stroke Leadership Committee	Texas Health Presbyterian Hospital, Dallas, TX
07/2017 – 08/2019	Faculty well-being and professional development committee	OU Health Sciences Center, OK

07/2016 – 06/2019	Program Evaluation Committee for Neurology Residency Program	Department of Neurology, OU Health Sciences Center, OK
07/2015 – 07/2019	Department Executive Committee	Department of Neurology, OU Health Sciences Center, OK
<b><u>Hospital</u></b>		
07/2011 – 06/2011	Hospital Stroke Committee	University of Arkansas for Medical Sciences, Little Rock
07/2008 – 06/2009	Quality and Performance Improvement Committee	University of Arkansas for Medical Sciences, Little Rock
<b><u>State/Regional</u></b>		
07/2017 – 01/2018	OU College of Medicine Admissions Board Subcommittee	OU College of Medicine
<b><u>National/International</u></b>		

**Professional Societies** *[List all society committees, leadership, and course leadership roles here]*

<b>Dates</b>	<b>Society Name, member</b>
2018 – present	American Neurological Association (ANA), member
2010 – present	American Stroke Association (ASA), member
2009 – present	Neurocritical Care Society (NCS), member
2009 – present	Society for Critical Care Medicine (SCCM), member
2008 – present	American Academy of Neurology (AAN), member
	<b>Fellowships</b>
08/2014 – 06/2015	Faculty Leadership Program, Oklahoma University Health Sciences Center, Oklahoma City, OK, USA, 128 Credit Hours, Monthly, August 2014 - June 2015

**Grant Review Activities**

<b>Year(s)</b>	<b>Name of Review Committee</b>	<b>Organization</b>
2018	Grant Review of project involving use of remote monitoring for blood pressure	Government of Ireland

**Editorial Activities**

<b>Year(s)</b>	<b>Journal Name</b>
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<b><u>Editor/Associate Editor</u></b>	
<b><u>Editorial Board</u></b>	
2017 – present	Editorial Board Member, Medicine - Academic
<b><u>Ad Hoc Reviewer</u></b>	
2017 – present	Neurocritical Care
2017	PLoS One
2017	Scientific Reports - Nature Publications
2017 – present	Translational Stroke Research
2016 – present	Journal of Neuroscience Nursing
2016	Neurosurgery
2013	Journal of Neurosciences in Rural Practice
2015	European Neurology
2015	Journal of the Saudi Heart Association
2015	Medical Research Archives
2014	CNS Drugs
2013	Neural Regeneration Research

### **Grant Support**

<b><u>Present</u></b>	
09/2022 – present	<i>Grantor:</i> Sponsored by NIH (subaward)
	<i>Title of Project:</i> “REASSESS” trial
	<i>Role (Principal Investigator, Co-Investigator):</i> Site PI, UT Southwestern Medical Center, Dallas – 2% effort
	<i>Annual amount and date (direct costs only):</i>
<b><u>Past</u></b>	
11/2019 – 01/2022	<i>Grantor:</i> Sponsored by NIH (subaward)
	<i>Title of Project:</i> “ASPIRE” trial
	<i>Role (Principal Investigator, Co-Investigator):</i> Site PI, UT Southwestern Medical Center, Dallas – 2% effort
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>

## Clinical Trials Activities

<u>Present</u>	
09/2022 – present	<i>Grantor:</i> Sponsored by NIH (subaward)
	<i>Title of Project:</i> “REASSESS” trial
	<i>Role (Principal Investigator, Co-Investigator):</i> Site PI, UT Southwestern Medical Center, Dallas – 2% effort
	<i>Annual amount and date (direct costs only):</i>

<u>Past</u>	
11/2019 – 01/2022	<i>Grantor:</i> Sponsored by NIH (subaward)
	<i>Title of Project:</i> “ASPIRE” trial
	<i>Role (Principal Investigator, Co-Investigator):</i> Site PI, UT Southwestern Medical Center, Dallas – 2% effort
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
10/2018 – 08/2019	<i>Grantor:</i> Idorsia Pharmaceuticals, Private
	<i>Title of Project:</i> “REACT trial” Additional Information: A prospective multicenter international, randomized trial evaluating efficacy of Clazosentan in high-risk Subarachnoid Hemorrhage patients in prevention of delayed cerebral ischemia
	<i>Role:</i> Site PI, OU Health Sciences Center, Oklahoma City – 5% effort
	<i>Annual amount and date (direct costs only):</i> (Total Cost per Year): \$57,500.00
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> n/a
01/2017 – 08/2019	<i>Grantor:</i> NICO Corporation, Private
	<i>Title of Project:</i> “ENRICH trial” Additional Information: A prospective multicenter, randomized trial evaluating efficacy of minimally invasive evacuation of intracerebral hemorrhage vs. standard of care
	<i>Role:</i> Site Co-I, OU Health Sciences Center, Oklahoma City – 2% effort
	<i>Annual amount:</i> (Total Cost per Year): \$57,000.00
12/2017 – 08/2019	<i>Grantor:</i> Sponsored by NIH (subaward)
	<i>Title of Project:</i> “ACARDIA” trial
	<i>Role:</i> Site Co-I, OU Health Sciences Center, Oklahoma City – 2% effort

	<i>Annual amount and date (direct costs only): (Total Cost per Year): \$2,100.00</i>
12/2016 – 08/2019	<i>Grantor:</i> Sponsored by Medtronic Inc.
	<i>Title of Project:</i> “Stroke-AF” trial
	<i>Role:</i> Site Co-I, OU Health Sciences Center, Oklahoma City – 2% effort
	<i>Annual amount and date (direct costs only): (Total Cost per Year): \$46,200.00</i>

### **Teaching Activities**

<b>Year(s)</b>	<b>Activity</b>
<u>Medical and graduate school didactic and small group teaching</u>	
9/2020	Grand Rounds: Subarachnoid Hemorrhage – Systemic Aspect and How to Modify Lecturer, Neurology, UT Southwestern
8/2020	Lecture: Management of Brain Hemorrhages Lecturer, Internal Medicine, Texas Health Presbyterian Hospital, Dallas
7/2020	Lecture: Management of Intracerebral Hemorrhage Lecturer, Neurocritical Care, UT Southwestern
2/2020	Lecture: Coma Lecturer, Neurosurgery, OU Health Science Center
7/2017-6/2019	Lecture: Critical Care Management of Acute Ischemic Stroke Lecturer, Neurosurgery, OU Health Science Center
7/2017-6/2019	Lecture: Medical Emergencies in Neurocritical Care Unit Lecturer, Neurology, OU Health Science Center
7/2017-6/2019	Lecture: Disorders of Consciousness Lecturer, Internal Medicine, OU Health Science Center
2017	Lecture: Frontiers in Translational Cancer Research: Role of platelets in acute neurological disorders (and cancer) Lecturer, Neurology, OU Health Science Center
5/2017	Grand Rounds: Third circulation of the body - CSF and its circulatory abnormalities after aneurysmal subarachnoid hemorrhage Lecturer, Department of Neurology, OU Health Science Center
9/2016	Grand Rounds: Diagnosis and Management of Subarachnoid Hemorrhage Lecturer, Department of Neurology, OU Health Science Center
9/2016	Lecture: Coma and Encephalopathy Lecturer, Department of Neurology, OU Health Science Center
7/2016	Lecture: Intracranial Hypertension and Cerebral Herniation Syndromes Lecturer, Department of Neurology, OU Health Science Center
9/2015	Lecture: ICU management of SAH patients Lecturer, Department of Neurology
8/2015	Lecture: Intracranial Hypertension and Cerebral Herniation Syndromes

	Lecturer, Department of Neurology, OU Health Science Center
5/2015	Lecture: Intracranial Hypertension and Cerebral Herniation Syndromes Lecturer, Department of Neurology, OU Health Science Center
4/2015	Lecture: Hydrocephalus Lecturer, Department of Neurology, OU Health Science Center
9/2014	Lecture: ICU management of SAH patients Lecturer, Department of Neurology, OU Health Science Center
1/2014	Grand Rounds: Hydrocephalus and CSF Shunts Lecturer, Department of Neurology, OU Health Science Center
7/2011-6/2013	Lecture: Adrenal dysfunction in ICU Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Cerebral salt wasting and autonomic storming Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Chronic obstructive pulmonary disease Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Cranio-cervical dissection Lecturer, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Evaluation of a patient with hypotension Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Hepatic encephalopathy Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Infection in ICU Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Peri-operative neurosurgical care Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Physiology of hemostasis Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Pleural diseases Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Prognosis of coma Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Pulmonary embolism Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Sedation and analgesia for neurocritical care unit Instructor, University of Texas – Southwestern Medical Center, - Dallas, TX
7/2011-6/2013	Lecture: Thyroid dysfunction in ICU Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2011-6/2013	Lecture: Uremic encephalopathy Instructor, University of Texas – Southwestern Medical Center - Dallas, TX
7/2008-6/2011	Lecture: Amebic encephalitis Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Amyloidosis Lecturer, University of Arkansas for Medical Sciences - Little Rock



7/2008-6/2011	Lecture: Antiepileptic agents Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Botulism Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Brain Tumors Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Coma Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Development of Brain Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Inflammatory myopathies Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Neurosarcoidosis Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Prion disease Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: Psychopharmacology of Psychosis Lecturer, University of Arkansas for Medical Sciences - Little Rock
7/2008-6/2011	Lecture: “Intraspinal tumors”, “Auditory pathway” Lecturer, University of Arkansas for Medical Sciences - Little Rock
10/2010	Grand Rounds: Sedation in Neurologic Intensive Care Unit Lecturer, Department of Neurology
3/2010	Grand Rounds: Intracranial hypertension–physiology, pathophysiology and management Lecturer, Department of Neurology
Dissertation committees	
<u>Qualifying examination committees</u>	
<u>Committees concerned with medical and graduate student education</u>	
<u>Graduate student rotations</u>	
<u>Medical student rotations</u>	
<u>Graduate student trainees</u>	

<u>Postgraduate medical education (graduate &amp; continuing medical education)</u>	
10/2023	Continuing Education: Acute Ischemic Stroke: Advances in Management During the Last Decade and Future Directions, Presenter, CME event, Texas Health Resources, Hurst, TX
5/2023	Continuing Education: Intracerebral Hemorrhage – Bread, butter and some sides Presenter, Neurocritical Care Lecture Series, UT Southwestern Medical Center, Dallas
4/2023	Professional Education: CSF circulation and hydrocephalus: neurocritical care perspective; Presenter, Annual Neurocritical Care Fellow Lecture Series, UT Southwestern Medical Center, Dallas
8/2022	Professional Education: Subarachnoid Hemorrhage – Monitoring and Treatment Presenter, Annual Neurocritical Care Fellow Lecture Series, UT Southwestern Medical Center, Dallas
10/2021	Professional Education: Intracerebral Hemorrhage Presenter, Annual Neurocritical Care Fellow Lecture Series, UT Southwestern Medical Center, Dallas
5/2021	Professional Education: Coagulopathy after Traumatic Brain Injury Presenter, Surgical & Trauma Critical Care Lecture, UT Southwestern Medical Center, Dallas
9/2020	Continuing Education: Subarachnoid hemorrhage: Why there’s been no level 1 evidence after Nimodipine Presenter, Neurology Grand Rounds, UT Southwestern Medical Center, Dallas
4/2020	Professional Education: Hypotension Evaluation Presenter, Neurocritical Care, UT Southwestern Medical Center, Dallas
3/2020 – Yearly lecture	Professional Education: Acute Ischemic Stroke Management Presenter, Neurocritical Care, UT Southwestern Medical Center, Dallas
3/2019	Continuing Education: EMS conference - EMS evaluation of a patient with acute neurological decline – Is it stroke and what should I do? Presenter, OU Medical Center, Oklahoma City
4/2018-6/2019	Continuing Education: Neurology Grand Rounds - Role of activated platelets in SAH Presenter, Neurology, Oklahoma City
7/2017-6/2019	Review Course: Neurologic care for CCRN Presenter, OU Medical Center - Nursing
2/2017-6/2019	Seminar: Hemorrhagic Stroke - Initial Management Presenter, Mercy Hospital, Enid, OK
11/2016- 6/2019	Seminar: Hemorrhagic Stroke - Initial Management Presenter, Comanche County Hospital, Lawton, OK
9/2018	Continuing Education: Neurology Grand Rounds - Coma and Consciousness Presenter, Neurology, Oklahoma City
2/2018	Continuing Education: OUMC 2018 Annual Winter Respiratory Conference Presenter, Department of Respiratory Therapists, OUMC, Oklahoma City
4/2017	Continuing Education: Transcranial dopplers in Neurocritical care unit

	Presenter, Internal Medicine, OUHSC
3/2014	Continuing Education: ICU management of subarachnoid hemorrhage Presenter, The University of Oklahoma Health Sciences Center
<u>Postdoctoral trainees</u>	
2022 – to date	Sheetal Hegde, MD, Resident, Mentor – Research project
2022 – 2023	Brian Nguyen, DO, Fellow, Mentor – Research project
2020 – 2022	Megan Walley, MD, Fellow, Mentor – Research project
2020 – 2022	Huy Nguyen, MD, Fellow, Mentor – Research project, book chapter
2020-2021	Yesica Campos, MD, Fellow, Mentor – Research project, peer-reviewed publication
2018-2019	Syeda Maria Muzammil, MD, Resident, Mentor - Annual research project
2018-2019	Syeda Dania Shujaat, MD, Resident, Mentor - Annual research project
2017-2019	Jason King, MD, Resident, Mentor - Annual research project
2017-2019	Mausaminben Y Hathidara, MD, Resident, Mentor - Research project; Multiple original research peer-review publication and book chapter
2017-2019	Christopher Hollen, MD, Resident, Mentor - Annual research project, Case report publication
2017-2019	Danny Samkutty, MD, Resident, Neurology, OUHSC, Mentor - Mentoring annual research project; Original research peer-review publication
2017-2019	Swathy Chandrashekhar, MD, Resident, Neurology, OUHSC, Mentor - Mentoring annual research project; Multiple original research peer-review publication
2016-2018	John Greenert, MD, Resident, Neurology, OUHSC, Mentor - Mentoring annual research project; Original research peer-review publication
2016-2018	Amna Sohail, MD, Resident, Neurology, OUHSC, Mentor - Mentoring annual research project
2015-2017	Lane Tinsley, MD, Resident, Department of Neurology, Mentor - Research project advisor; Original research peer-review publication
2015-2017	Vijay Pandav, MD, Fellow, Department of Neurology, Mentor - Research project advisor; Original research peer-review publication
2015-2016	Ayesha Vohra, MD, Resident, Department of Neurology, Mentor - Research project advisor
2014-2016	Ayumi Ludwig, MD, Resident, Department of Neurology, Mentor - Research project advisor; Original research peer-review publication
2014	Marguerite Butchee, MD, Resident, Department of Neurology, Mentor - Scholarship project advisor; Book chapter publication
2013-2014	Leonides Bermejo, MD, Resident, Department of Neurology, Advisor - Research project advisor

### **Invited Lectures**

Year(s)	Title	Location
<u>International</u>		

2022	Subarachnoid Hemorrhage	India, online (Indian Academy of Neurology)
<u>National</u>		
<u>Regional/Local</u>		
12/2021	Respiratory issues in Neurocritical Care	Texas Health Presbyterian Hospital, Dallas, TX
11/2021	Neurological Deterioration after Subarachnoid Hemorrhage - It's more than just cerebral vasospasm	UT Southwestern Medical Center, Dallas, TX

### **Technological and Other Scientific Innovations**

Innovation
n/a

<b>Ray, B.</b> (2018). <i>Handbook for Residents/Health Care Professionals for Neurosciences Intensive Care Unit</i> , Editor, OUHSC/SCM
<b>Ray, B.</b> (2013). <i>Online Neurocritical Care Fellow Lecture Series for Neurocritical Care Fellowship Program</i> , Developer, contributor and moderator.
Aiyagari, V., <b>Ray, B.</b> (2013). <i>Handbook of Neurocritical Care Unit</i> , Contributor, Zale-Lipsky and Parkland Hospital. University of Texas – Southwestern Medical Center, Dallas, TX.

### **Service to the Community**

Year(s)	Role	Organization or institution
10/2023	Speaker, Community Physician Update	Texas Health Resources, CME Event for Hospitalists and Primary Care Physicians
05/2023	Speaker, Community Outreach	Irving Fire Department, Irving, TX
10/2019	Speaker, Community Outreach	Texas Health Resources, Denton, TX
07/2017	Speaker, Community Outreach	Stillwater Medical Center, Stillwater, OK
02/2017	Speaker, Community Outreach	St. Mary's Hospital, Enid, OK
11/2016	Speaker, Community Outreach	Comanche County Memorial Hospital, Lawton, OK
10/2013	Speaker, Community Outreach	Oklahoma Center for Neurosciences Initiative, Oklahoma City, OK

## **Bibliography**

### **Peer-Reviewed Publications**

#### **Original Research Articles**

1.	Hathidara MY, Campos Y, Chandrashekhar S, Xu C, Olson DM, Venkatachalam A, <b>Ray B*</b> . Scoring system to predict hospital outcome after subarachnoid hemorrhage-incorporating systemic response: The CRIG score. <i>J Stroke Cerebrovasc Dis.</i> 2022 May 24;31(8):106577. doi: 10.1016/j.jstrokecerebrovasdis.2022.106577. Online ahead of print. PMID: 35623237
2.	Danala G, <b>Ray B</b> , Desai M, Heidari M, Mirniaharikandehei S, Maryada SKR, Zheng B. Developing new quantitative CT image markers to predict prognosis of acute ischemic stroke patients. <i>J Xray Sci Technol.</i> 2022;30(3):459-475. doi: 10.3233/XST-221138. PMID: 35213340
3.	Danala G, Desai M, <b>Ray B</b> , Heidari M, Maryada SKR, Prodan CI, Zheng B. Applying Quantitative Radiographic Image Markers to Predict Clinical Complications After Aneurysmal Subarachnoid Hemorrhage: A Pilot Study. <i>Ann Biomed Eng.</i> 2022 Apr;50(4):413-425. doi: 10.1007/s10439-022-02926-z. Epub 2022 Feb 2. PMID: 35112157
4.	Nouh CD, <b>Ray B†</b> , Xu C, Zheng B, Danala G, Koriesh A, Hollabaugh K, Gordon D, Sidorov EV. Quantitative Analysis of Stress-Induced Hyperglycemia and Intracranial Blood Volumes for Predicting Mortality After Intracerebral Hemorrhage. <i>Transl Stroke Res.</i> 2022 Aug;13(4):595-603. doi: 10.1007/s12975-022-00985-x. Epub 2022 Jan 18. PMID: 35040036
5.	Sidorov E, Iser C, Kapoor N, <b>Ray B</b> , Chainakul J, Xu C, Alexandrov AV, Gordon DL. Criteria for Emergency Brain MRI During Stroke-Alert. <i>J Stroke Cerebrovasc Dis.</i> 2021 Aug;30(8):105890. doi: 10.1016/j.jstrokecerebrovasdis.2021.105890. Epub 2021 Jun 6. PMID: 34107417
6.	Sidorov EV, Bejar C, Xu C, <b>Ray B</b> , Gordon D, Chainakul J, Sanghera DK. Novel Metabolites as Potential Indicators of Ischemic Infarction Volume: a Pilot Study. <b>Transl Stroke Res.</b> 2020 Nov 19. doi: 10.1007/s12975-020-00876-z. Online ahead of print. PMID: 33215346
7.	Delpirou-Nouh C, Samkutty DG, Chandrashekhar S, Santucci JA, Ford L, Xu C, Hollabaugh KM, Bohnstedt BN, <b>Ray B</b> . Management of Aneurysmal Subarachnoid Hemorrhage – Variation in Clinical Practice and Unmet Need for Follow-up among Survivors – A Single Center Perspective. <b>World Neurosurg.</b> 2020 Jul;139:e608-e617. doi: 10.1016/j.wneu.2020.04.067. Epub 2020 Apr 25. PMID: 32339727
8.	Sidorov E, Bejar C, Xu C, <b>Ray B</b> , Reddivari L, Chainakul J, Vanamala JKP, Sanghera DK. Potential Metabolite Biomarkers for Acute Versus Chronic Stage of Ischemic Stroke: A Pilot Study. <b>J Stroke Cerebrovasc Dis.</b> 2020 Apr;29(4):104618. doi: 10.1016/j.jstrokecerebrovasdis.2019.104618. Epub 2020 Jan 20. PMID: 31973907
9.	O'Connor KP <sup>+</sup> , Hathidara MY <sup>+</sup> , Danala G, Xu C, McCoy TM, Sidorov EV, Zheng B, Bohnstedt BN, <b>Ray B</b> . Predicting Clinical Outcome After Mechanical Thrombectomy: The GADIS score. <b>World Neurosurg.</b> 2020 Feb;134:e1130-e1142. doi: 10.1016/j.wneu.2019.11.127. Epub 2019 Nov 28. PMID: 31786382
10.	<b>Ray B†</b> , Ross SR, Danala G, Aghaei F, Nouh CD, Ford L, Hollabaugh KM, Karfonta BN, Santucci JA, Cornwell BO, Bohnstedt BN, Zheng B, Dale GL, Prodan CI. Systemic response of coated-platelet and peripheral blood inflammatory cell indices after aneurysmal

	subarachnoid hemorrhage and long-term clinical outcome. <b>J Crit Care.</b> <b>2019</b> Aug;52:1-9. doi: 10.1016/j.jcrc.2019.03.003. PMID: 30904732
11.	Santucci JA, Ross SR, Greenert JC, Aghaei F, Ford L, Hollabaugh KM, Cornwell BO, Wu D, Zheng B, Bohnstedt BN, <b>Ray B*</b> . Radiological Estimation of Intracranial Blood Volume and Occurrence of Hydrocephalus Determines Stress-Induced Hyperglycemia After Aneurysmal Subarachnoid Hemorrhage. <b>Translational Stroke Research</b> <b>2018</b> . Jul; 10:327–337. doi: 10.1007/s12975-018-0646-7 PMID: 29992443
12.	<b>Ray B<sup>†*</sup></b> , Pandav VM, Mathews EA, Thompson DM, Ford L, Yearout LK, Bohnstedt BN, Chaudhary S, Dale GL, Prodan CI. Coated-Platelet Trends Predict Short-Term Clinical Outcome After Subarachnoid Hemorrhage. <b>Translational stroke research</b> <b>2018</b> . Dec. 2017; 9:459–470. doi: 10.1007/s12975-017-0594-7. PMID: 29224114
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15.	Ray D, Xu C, <b>Ray B</b> . Stress-Induced Hyperglycemia after Aneurysmal Subarachnoid Hemorrhage - Outcome Differences among Diabetics and Non-diabetics, 15th International Conference on Subarachnoid Hemorrhage ( <b>ISAH</b> ), Amsterdam, June 26, <b>2019</b> . <i>Poster</i>
16.	Shujaat SD, Muzammil SM, Nouh CD, Xu C, <b>Ray B</b> . Radiological Severity Determines Glycemic Burden In Aneurysmal Subarachnoid Hemorrhage And Patient Outcome, Annual Meeting, <b>American Academy of Neurology</b> , Philadelphia, May 9, <b>2019</b> . <i>Poster</i>
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39.	<b>Ray B</b> , Ludwig A, Yearout LK, Thompson DM, Bohnstedt BN. Stress Induced Hyperglycemia Determines External Ventricular Drain Placement in Non-Hydrocephalic Aneurysmal Subarachnoid Hemorrhage - A Retrospective Single Center Study, <b>Congress of Neurological Surgeons</b> , Annual Meeting, San Diego, CA, September <b>2016</b> . <i>Poster</i>
40.	Pandav VM, Bohnstedt BN, Yearout LK, Thompson DM, <b>Ray B</b> . Does Anterior Cerebral Artery Angiographic Vasospasm after Spontaneous Subarachnoid Hemorrhage Predict Short-Term Cognitive Outcome, <b>Society of Neurointerventional Surgery</b> , Annual Meeting, Boston, MA, July <b>2016</b> . <i>Poster</i>
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#### Clinical Practice Guidelines

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#### **Non-peer reviewed scientific or medical publications/materials in print or other media**

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