

CURRICULUM VITAE

Ali Seifi

GENERAL INFORMATION

PERSONAL DATA:

Date of Preparation: 11/10/2016

Address: Department of Neurosurgery
7703 Floyd Curl Drive
MC 7843
San Antonio, TX 78229

Phone Number: (210) 567-5625

Fax Number: (210) 567-6066

Email Address: seifi@uthscsa.edu

SELF DESCRIPTION:

I received my medical degree from Shiraz University of Medical Sciences (SUMS), where I graduated with honors in 1996. My first residency was in anesthesiology critical care medicine at SUMS. I was an attending anesthesiologist at several institutions before I finally decided to continue my education in neurocritical care. My second residency was in internal medicine at the AtlantiCare Regional Medical Center in Atlantic City. After that, I completed a two-year neurocritical care fellowship in Philadelphia at Thomas Jefferson University, a world-renowned neuroscience institution. This fellowship provided me with the opportunity to work on many challenging neurosurgical and neurological cases. I trained under several established neuroscience pioneers, such as professors A.M. Rostami, MD, PhD, Robert H. Rosenwasser, MD, and Rodney D. Bell, MD. Education has always been one of my strongest passions. My parents are both teachers, so I think they passed on their love of that profession to me. It was this passion for teaching that ultimately led me to join the University of Texas Health Science Center at San Antonio faculty after I finished my neurocritical care fellowship with honors. I am currently an assistant professor within the Department of Neurosurgery who has also served as an attending physician since 2012. As an intensivist, I provide multi-system care to patients and perform procedures such as intubation, central line placement, lumbar puncture, and bronchoscopy. I am Triple-Board certified in anesthesiology, internal medicine, and neurocritical care. When the time came to expand University Hospital's ICU, I was tasked with the goal of recruiting students, residents, and mid-level practitioners. The seven bed ICU grew into an eighteen bed NICU that was capable of offering 24/7 coverage. The NICU now provides specialized care to patients with strokes, traumatic brain injuries, spinal cord injuries, neuromuscular diseases, seizures, and other medical complications, such as respiratory and cardiac diseases. It is the only intensive care unit in the region that is fully dedicated to the care of neurologically-ill patients and staffed with physicians and nurses who are specially trained in nervous system disease management. In 2016, I was appointed the director of University Hospital's neurointensive care unit (NICU) and tasked with leading the unit's daily operations. My responsibilities as the director of the NICU include caring for critically-ill patients, creating protocols and guidelines, and making schedules for faculty, residents, and mid-level practitioners. I maintain a high level of involvement with patient care, perform bedside lessons for residents and students, and give daily lectures to my team. I teach medical students whenever they rotate with me during their third and fourth year neurology and neurosurgery clerkships. These sessions include longitudinal preceptorship, clinical skill instruction, and bedside teaching. I take the students to a simulation center and teach them how to do lumbar punctures, intubation, central line insertion, and arterial line insertion. I also organized a

group for medical students that explains the fundamentals of research, including proposal composition, IRB submission, data collection, and analysis. The group helps students by reinforcing and supplementing the content delivered during formal elective research courses, which I also teach. Whenever I teach, I try to elucidate complex medical subjects by breaking them down into simpler topics that are easier to understand. I think this has been successful approach because medical students and residents frequently request my assistance with their research activities. So far, I have helped manage over fifty such projects in this manner. Because of my active involvement with both populations, I consecutively won "The Best Teacher Faculty Award" in 2015 and 2016. Several of the research projects I am currently conducting with my students focus on traumatic brain injury and cerebrovascular disease. Our efforts have brought about, for the first time in the field of neuroscience, a novel treatment for dyskinesia in anti-NMDA encephalitis. We have also worked together in an effort to study health cost and utilization. Many of these activities have been published in clinical journals (Jama), mentioned in periodicals (the Washington Post), and discussed on the radio (NPR). My interdisciplinary background enables me to link together people, ideas, and projects from seemingly disparate scientific backgrounds. I primarily work within the Department of Neurosurgery, but I also have appointments within the Department of Neurology, the Department of Internal Medicine, and UT San Antonio's Department of Electrical and Computer Engineering. Because of this diversity of positions, I am able to serve as a bridge between many different departments for the purpose of clinical and research collaboration. My appointment in the Department of Electrical and Computer Engineering, for example, has led to my mentorship of two PhD students. One is currently studying cybersecurity as it relates to the safety of healthcare information on social media and the other is developing an algorithm to chart the growth of brain tumors. In conjunction with the UTSA Department of Electrical and Computer Engineering and the Department of Bio Engineering at UT Austin, I am currently designing ICU medical devices. I have also been developing computerized infusion pump software, a smartphone application for patients with injured spinal cords, electrical impedance tomography for intracranial bleeding detection, and a cooling machine simulator. Most recently, I received a grant from the Department of Defense for a Phase II trial on CirQlator/ Intra Thoracic Pressure Regulator (ITPR) and another grant from SAGE therapeutics to study refractory epilepsy. The ITPR is a novel device designed to mechanically lower the intracranial pressure (ICP) of severe traumatic brain injury patients by improving the physiologic responses of their cerebrospinal fluid circulation and hemodynamics. I am proud to be leading this ground-breaking project as the principal investigator; with the support of the University of Texas Health Science Center at San Antonio, I hope to make great advances in the field of neuroscience with this novel technology. With regard to my service to our institution, I am currently an active member of several committees, including the Medical Student's Admission Committee and the Medical Record Committee. Ever since I joined the University of Texas Health Science Center in 2012, I have been a passionate member of the admission committee. I have helped revise our medical school applications and developed new questions and ideas to aid in the selection of superior candidates. I am also an expert at interviewing applicants. For the Medical Record Committee, I created protocols and policies designed to update clinical records and maintain patient confidentiality. As Chair of the Neurocritical Care CMT, I instituted guidelines and protocols to recruit new staff members and manage the daily operation of the NICU. I am also a member and fellow of several prominent professional organizations, such as the American College of Physicians, the Society of Critical Care, and the Society of Neurocritical Care. By serving as a reviewer, editor, and editor-in-chief for various medical journals, I constantly engage in cutting-edge scientific discourse with my professional community. I also get a chance to exchange ideas and share my research when I accept the invitations I receive to attend scientific meetings held throughout the United States and all around the world, in places such as Rome, Paris, and Dubai. As my career advances, I plan to continue expanding my expertise in research and bedside teaching while providing service to my professional communities.

EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Discipline</u>	<u>Institution/Location</u>
1996	MD	Medicine (<i>Research Honored- by Medical School</i>)	Shiraz University of Medical Sciences (SUMS), Shiraz, Iran

TRAINING:

Fellowship

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
2010-2012	Neuro-Critical Care Fellowship	Thomas Jefferson University Hospital, Philadelphia, PA, USA

Residency

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
2007-2010	Internal Medicine Residency	Thomas Jefferson Affiliated AtlantiCare Regional Medical Center, Atlantic City, NJ, USA
1999-2002	Anesthesiology	Shiraz University of Medical Sciences (SUMS), Shiraz, Iran

ACADEMIC APPOINTMENTS:

01/2016 - 01/2019	Honorary Assistant Professor of Electrical Engineering and Honorary Research Assistant Professor	University of Texas at San Antonio UTSA, Department of Electrical and Computer Engineering, San Antonio, TX
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Details: Invited to join the department of electrical engineering at UTSA to collaborate with the PhD and Masters student for biomed research. Responsible to mentor the graduate students at the ACE Laboratories for biomedical research and medical device design. Please visit website ace.wacong.org, including our publications page.

06/2015 - Present	Assistant Professor of Neurology and Attending Staff, Consultant	University of Texas, Health Science Center, Department of Neurology, San Antonio, TX
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Details: Faculty physician with a cross appointment in Department of Neurology. Invited to join neurology department due to my practice and effort in teaching neurology to the medical students and residents. Responsible for daily bedside rounds with neurology residents in ICU and perform daily teaching and education.

03/2013 - Present	Assistant Professor of Internal Medicine and Attending Staff	University of Texas Health Science Center at San Antonio, Department of Medicine, San Antonio, TX
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Details: Attending physician at the department of Internal Medicine . Responsible to collaborates with the department of Internal Medicine as a clinical faculty and specifically oversees the residents and medical students in the Robert B Green clinic. I teach to residents and students and see the patients with them in this clinic .

09/2012 - Present	Assistant Professor of Neurosurgery- Director of Neuro Critical Care and Faculty physician	University of Texas Health Science Center at San Antonio, Department of Neurosurgery- Director of neuro ICU, San Antonio, TX
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Details: Leading the Neuro ICU at University of Texas at San Antonio as ICU Director : oversee the daily operations, admissions and transfers, bed arrangement, making protocols, hiring and recruiting new residents, mid levels and nurses for ICU, weekly and monthly meetings with the ICU team, bedside round and daily teaching activity with residents and students. I am responsible for the care of patients in University Hospital's state-of-the-art Neurointensive Care Unit (NICU), as well as leading the unit's daily operations. Managing the ICU admissions and discharges, bed flow and making the schedule for all residents and faculty physicians in ICU . This NICU is the only intensive care unit in the region fully dedicated to the care of neurologically ill patients and staffed with physicians and nurses specially trained in the care of patients with brain, spine, and nervous system diseases.

06/2005 - 06/2006	Assistant Professor and Clinical Educator	Institute of Medical Education(IME), Department of Education, San Jose, CA
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Details: Clinical lecturer in IME for clinical skills, Anatomy and Physiology for the basic courses of healthcare related students.

10/2003 - 05/2005	Assistant Professor of Anesthesiology and Critical Care and Director Associate	Khodadoust Hospital, Department of Department of Anesthesiology, Shiraz, Iran
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Details: Attending physician anesthesiologist in Khodadoust hospital which is specialized in Neurosurgery, Ophthalmology and ENT surgeries. Responsible for anesthetizing the patients and clinical operation of anesthesia in this hospital. This is one of the referral centers in Iran for complicated Ophthalmic surgeries.

09/2002 - 09/2004	Attending physician Anesthesiologist and Director	Lar Hospital, Department of Anesthesiology & Critical Care, Lar, Iran
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Details: Attending physician anesthesiologist and Director of Anesthesiology and critical care in Lar institute. This institution is a general surgery and trauma center in south Iran.

09/1999 - 09/2002	Resident Lecturer and Medical students' rotation director	Shiraz University of Medical Sciences, Department of Department of Anesthesiology, Shiraz, Iran
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Details: Clinical lecturer and Instructor in Shiraz University . Responsible for organizing anesthesiology rotation for medical students. Teaching to Medical Students and Anesthesiology residents the airway management, acid base gas (ABG) interpretation and all of the anesthesiology topics based on Miller's Textbook of Anesthesiology for three years.

09/1996 - 09/1999	Clinical attending physician and Director of Clinic	Fars Council of Medicine- Branches, Department of Department of Public Health, Shiraz, Iran
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Details: General medicine attending physician in the City of Shiraz and the associated clinics in

the southern Iran . Responsible to see and treat patients in various general medicine field to get experience to start the specialty residency. Multiple Hospitals and Clinics in Shiraz and suburbs-Iran.

NON-ACADEMIC APPOINTMENTS:

09/2013 - Present Director of Neuro Critical Baptist Saint Luke’s Hospital, San Antonio, TX
Care

Details: As the Director of Neuro ICU in Baptist health system I am responsible to establish a Neuro ICU within the current general ICU in Baptist health system . This includes the regular administrative meetings with Baptist administration and ICU physicians to conduct a neuro ICU model similar to the Neuro ICU system at the University Health System .

09/2010 - 08/2012 Neuro-Critical Care and Thomas Jefferson University Hospital, Philadelphia, PA
Cerebro Vascular Chief
Fellow

Details: Fellow physician at Thomas Jefferson University hospital which is a state of art neuroscience institution that has Comprehensive Clinical Training- core clinical training in neurocritical care in the Neuro-ICU and general critical care in the SICU, MICU, CCU, CTICU. After this 2 years clinical fellowship , the physicians will be trained to face with the most complicated neurosurgical and neurological critical care patients.

09/2006 - 07/2007 Clinical Data Manager Noori Clinic, Fremont, CA

Details: Clinical researcher at Noori Clinic. This clinic is a center for evaluating and treatment of Internal medicine Patients in a large scale in California. Responsible for collecting and analyzing the clinical data in this institution.

09/2004 - 09/2005 Attending Physician, Farahmand Hospital, Shiraz, Iran
Anesthesiology & Critical
Care

Details: Attending physician anesthesiologist and critical care in Farahmand institution. Responsible for doing anesthesia and managing as the Co-Director of anesthesia and ICU. Farahmand institution is one of the Major trauma centers in south Iran.

09/1992 - 09/2002 Clinical Researcher Shiraz University of Medical Sciences, Shiraz, Iran

Details: Clinical researcher at the instate of Student and Research under the vice dean for research at Shiraz University. Preparing proposal for research projects, getting IRB data collection and processing and preparing the manuscript.

CERTIFICATION AND LICENSURE:

Board Certification

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
The Society of Neurological Surgeons - CAST Neuro Critical Care-by Neurological Surgeons	Certified	01/2015	NCC:014	n/a
Subspecialty Certification - Neurocritical Care - Neuro Critical Care	Certified	12/2013	NCC01155- 12/2023 13	

American Board of Internal Medicine - ABIM	Certified	08/2011	809030	01/2021
Iranian Board of Anesthesiology & Critical Care - IRAB- Health Council	Certified	09/2002	60187	n/a

Certification

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Recognized Speaker - International Emirates Critical Care Conference 2016	Certified	04/2016	n/a	n/a
Certificate of Recognized Reviewer by World Federation of Neurology - Elsevier Publisher Recognized Award	Certified	03/2015	n/a	n/a
Emergency Neurological Life Support Train the Trainer - ENLS Train the Trainer, certified	Certified	10/2013	25745	n/a
Emergency Neurological Life Support, the Medical Professional. - ENLS certified	Certified	09/2013	n/a	n/a
Neuro Critical Care - Society of Neuro Critical Care	Certified	01/2011	25745	n/a
Society of Critical Care Medicine - SCCM	Certified	01/2009	n/a	n/a
FACP - Fellow of American College of Physicians	Certified	07/2007	n/a	n/a

ECFMG (Educ Commission for Foreign Medical Graduates)

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
ECFMG - Commission of Foreign Medical Graduates	Certified	10/2006	0-683-961-7	n/a

License to Practice

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Physician license - Texas Medical Board	Certified	07/2012	P3818	08/2018

HONORS AND AWARDS:

- 05/2016 Excellence in Teaching Award 2016 , University of Texas Health Science Cent: I was awarded as the "Best Teacher Faculty" in 2016 by Medical Students at University of Texas Health Science Center at San Antonio. This was selected based on my teaching activities for medical students who rotated in neurology floor MS3 and MS4s.
- 12/2015 Recognized Reviewer-Neuro Critical Care: I was awarded as the recognized reviewer by Journal of Neuro Critical Care- Springer Publisher in 2015
- 11/2015 Recognition as the best Teacher and Speaker: I was awarded by OMICS international conference series as the best speaker . Award by Dr A. Jawad, PhD University of Pennsylvania School of Medicine.
- 06/2015 Recognized Reviewer-Clinical Therapeutics: I was awarded as the recognized reviewer by Journal of Clinical Therapeutics- Elsevier publisher
- 05/2015 Excellence in Teaching Award 2015 , University of Texas Health Science Cent: I was awarded as the "Best Teacher Faculty" in 2015 by Medical Students at University of Texas Health Science Center at San Antonio. This was selected based on my teaching activities for medical students who rotated in neurology floor MS3 and MS4s.
- 03/2015 Recognized Reviewer-Neurological Sciences: I was Recognized by Journal of Neurological Sciences - Elsevier Publisher as the special reviewer.
- 12/2014 Recognized Reviewer- Neuro Critical Care: I was awarded as the recognized reviewer by Journal of Neuro Critical Care- Springer Publisher in 2014
- 12/2013 San Antonio Scene Magazine, Top Doctors 2013-2014: I was recognized as the "Top Doctors" in San Antonio Scene Magazine,
- 01/2013 Scholarship Awarded-German Society of NCC: Travel Scholarship, awarded by the German Society of NCC and EM Conference in Mannheim, Germany
- 01/2010 American College of Physicians(ACP) Award: I was awarded the best research of the Year 2009 in the national ACP competition on "Atomoxetine induced Myocardial Infarction".
- 01/2009 American College of Physician (ACP) Award: New Jersey Chapter, I was awarded the "Second Place Award" for my research project.
- 01/2002 Research Honor Student- Shiraz University: I was awarded by the Shiraz University of Medical Sciences(SUMS) as the recognized student researcher at the end of my anesthesiology residency.
- 01/2002 First Rank in Board of Anesthesiology and Intensive Care: I was awarded the highest rank between all the anesthesiologist who took the Anesthesiology Board in 2002.
- 01/1996 Research Honor Student- Shiraz University: I was awarded by the Shiraz University of Medical Sciences(SUMS) as the recognized student researcher in 1996.
- 01/1994 Research Honor Student- Shiraz University: I was awarded by the Shiraz University of Medical Sciences(SUMS) as the recognized student researcher in 1994 by vice dean of research.
- 01/1992 Research Honor Student - Shiraz University: I was awarded by the Shiraz University of Medical Sciences(SUMS) as the recognized student researcher.

PROFESSIONAL DEVELOPMENT:***Clinical***

<u>Date</u>	<u>Description</u>	<u>C.E. Units/Hours</u>
09/08/2015 - 09/10/2015	World Federation of Neurological Societies, Attended the 15th Interim Meeting of World Federation of Neurological Societies in Rome, Italy 9/8 to 9/10/15	0.00 / 24.00
04/03/2015	Neurological Sciences Grand Rounds, Resident Case Presentation Case Presentation by Phillippine Peralta, MD, PGY-2, SAMMC Auto Immune Encephalitis Sidney Atkinson, MD	1.50 / 1.50
03/27/2015	Neurological Sciences Grand Rounds, Novel Neurosurgical Approaches for the Treatment of Psychosis: Insights from a Preclinical Model Daniel Lodge, PhD, Assistant Professor, Dept. of Pharmacology, UTHSCSA Resident Case Presentation by Asif Maknojia, MD, PGY-4 Case Presentation	1.50 / 1.50
03/06/2015	Neurological Sciences Grand Rounds, Alterations in Resting State Brain Connectivity Associated with Mindfulness Treatment of Chronic Pain in Opioid Addicts Donald Robin, PhD, UTHSCSA, Dept. of Research Imaging Resident Case Presentation by Ishan Adhikari, MD, PGY-3 Case Presentation	1.50 / 1.50
02/20/2015	Neurological Sciences Grand Rounds, Resident Case Presentation Case Presentation by Jonathon Thomas, MD, PGY-2, SAMMC Neuropathic Pain: New Paradigms, New Promise Alejandro Tobon, MD	1.50 / 1.50
02/13/2015	Neurological Sciences Grand Rounds, Resident Case Presentation Case Presentation by Shane Hawksworth, MD, PGY-4 CPC James Henry, MD	1.50 / 1.50
02/03/2015 - 02/05/2015	Academic Surgical Congress- 10th Annual Meeting, Tenth Annual Academic Surgical Congress in Las Vegas, NV from 2/3 to 2/5/15	5.00 / 0.00
01/30/2015	Neurological Sciences Grand Rounds, Radical Surgery: When and If John Floyd, MD Professor, Carl Raba Family Chair in Neuro Oncology, UTHSCSA	1.50 / 1.50
01/16/2015 - 01/18/2015	Society of Critical Care Congress 2015, Dr. Seifi attended the Live educational activity 44th Annual Critical Care Congress on January 17-	17.00 / 24.00

	22, 2015 in Phoenix, AZ	
01/09/2015	Neurological Sciences Grand Rounds, CPC James Henry, MD Professor, Dept of Pathology, UTHSCSA	1.50 / 1.50
12/19/2014	Neurosurgical Sciences Grand Rounds, Intravenous Immunoglobulin: A Case Study in Systems Based Medicine Stephen A. Berman, MD, PhD, MBA Professor, Dept of Neurology, Univ of Central Florida (VA Neurology Chief Candidate) Resident Case Presentation by Nicholas Andrade, MD, PGY-7	1.50 / 1.50
12/12/2014	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA Resident Case Presentation by Byron Branch, MD, PGY-6	1.50 / 1.50
12/05/2014	Neurosurgical Sciences Grand Rounds, Resting State Voice Network in Parkinson' Disease Donald A. Robin, PhD Professor, Research Imaging Institute, Departments of Neurology and Radiology University of Texas Health Science Center San Antonio Resident Case Presentation by Aparna Sarma, DO, PGY-4	1.50 / 1.50
11/21/2014	Neurosurgical Sciences Grand Rounds, Mechanisms of Photosensitivity: Baboons to Humans to Baboons Charles Szabo, MD Professor, Dept of Neurology, UTHSCSA Resident Case Presentation by Aparna Sarma, DO, PGY-4	1.50 / 1.50
11/14/2014	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA	1.50 / 1.50
10/23/2014	Neurosurgical Sciences Grand Rounds, Ketamine: An Old Drug with new tricks. Rachel Garvin, Assistant Professor, Dept of Neurosurgery, UTHSCSA	1.50 / 1.50
10/03/2014	Neurosurgical Sciences Grand Rounds, Resting State Functional Connectivity: Abnormal Network Connectivity in Apraxia of Speech Donald Robin, PhD and Annie New Research Imaging Center, UTHSCSA	1.50 / 1.50
09/10/2014 - 09/13/2014	2014 Annual Neurocritical Care Conference, Attended and presented the Annual NCC conference 2014 in Seattle, WA. 9/10/14 to 9/13/14	22.00 / 32.00
08/08/2014	Neurosurgical Sciences Grand Rounds, Treating Brain Injuries with Purinergic Receptor Agonists James D. Lechleiter, PhD Professor, Dept. of	1.00 / 1.50

	Cellular & Structural Biology, UTHSCSA	
08/01/2014	Neurosurgical Sciences Grand Rounds, The Aging Brain Robin L. Brey, MD Professor and Chair, Dept. of Neurology, UTHSCSA	1.00 / 1.50
07/18/2014	Neurosurgical Sciences Grand Rounds, An Overview of Spontaneous Intracerebral Hemorrhage Lee Birnbaum, MD Assistant Professor, Depts. of Neurosurgery & Neurology, UTHSCSA	1.00 / 1.50
06/13/2014	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA	1.00 / 1.50
06/06/2014	Neurosurgical Sciences Grand Rounds, Brain Death: History and Controversy Rachel Garvin, MD Assistant Professor, Dept. of Neurosurgery, UTHSCSA	1.00 / 1.50
05/23/2014	Neurosurgical Sciences Grand Rounds, Update in treatment of intracranial aneurysms Christopher Koebbe, MD Assistant Professor, Dept. of Neurosurgery, UTHSCSA	1.00 / 1.50
05/02/2014	Neurosurgical Sciences Grand Rounds, When Melatonin Gets on Your Nerves: Its Importance in Reducing Neurodegeneration Russel Reiter, PhD Professor, Dept. of Cellular & Structural Biology, UTHSCSA	1.00 / 1.50
04/29/2014	2013 Update in Critical Care Medicine Module, Educational module in Critical care medicine	10.00 / 10.00
04/25/2014	Neurosurgical Sciences Grand Rounds, 60 Years of Carotid Surgery Jean-Louis Caron, MD Professor/Clinical, Dept. of Neurosurgery, UTHSCSA	1.00 / 1.50
04/11/2014	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA	1.00 / 1.50
03/28/2014	Neurosurgical Sciences Grand Rounds, Endovascular Therapies for Patients with Acute Ischemic Stroke Lee Birnbaum, MD Assistant Professor, Dept. of Neurosurgery and Neurology, UTHSCSA	1.00 / 1.50
03/07/2014	Neurosurgical Sciences Grand Rounds, How do I reverse that? Anticoagulants in the Patient with Neurologic Injury.	1.50 / 1.50
02/21/2014	Neurosurgical Sciences Grand Rounds, Probing Seizure Propagation Networks with Resting State Functional MRI Kameel Karkar, MD	1.50 / 1.50

02/07/2014	Assistant Professor/Clinical, Dept. of Neurology, UTHSCA Neurosurgical Sciences Grand Rounds, Meta-analytic Modeling of Human Neural Systems: Methods and Applications Peter M. Fox, MD Vice Chair for Research & Research Education, Dept. of Radiology Professor, Depts. of Radiology, Neurology & Psychiatry Director, Research Imaging	1.50 / 1.50
01/31/2014	Neurosurgical Sciences Grand Rounds, Berger, Fourier, Weiner: Perspectives on the Normal and Epileptiform EEG Giridhar P. Kalamangalam, MD, DPhil Texas Comprehensive Epilepsy Program, Department of Neurology University of Texas Health Science Center at Houston	1.50 / 1.50
01/17/2014	Neurosurgical Sciences Grand Rounds, Effects of Chronic Stress, Monoamines and Neuro-immune Signaling on Prefrontal Cognitive Function in Rats David Morilak, PhD Professor, Dept. of Pharmacology, UTHSCSA	1.50 / 1.50
01/10/2014	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA	1.50 / 1.50
01/03/2014	Neurosurgical Sciences Grand Rounds, Neurotoxins and Neurotransmitters Amalia Geller, MD Assistant Professor, Dept. of Pediatrics & Neurology, UTHSCSA	1.50 / 1.50
12/20/2013	Neurosurgical Sciences Grand Rounds, The Unusual Chiasmal Syndrome Part II John Carter, MD Professor, Dept. of Neurology, UTHSCSA	1.50 / 1.50
12/13/2013	Neurosurgical Sciences Grand Rounds, CPC James Henry, MD Professor, Dept. of Pathology, UTHSCSA	1.50 / 1.50
12/06/2013	Neurosurgical Sciences Grand Rounds, Complimentary Treatments for Headaches: A Review of the Evidence Aven Ford, MD Staff Neurologist, San Antonio Military Medical Center	1.50 / 1.50
11/01/2013	Neurosurgical Sciences Grand Rounds, Emerging Medical Therapies in the Management of Acute Stroke Vivek Misra, MD Assistant Professor, Dept. of Neurology, UTHSCSA	1.50 / 1.50
10/25/2013	Neurosurgical Sciences Grand Rounds, Application of Deep Brain Stimulation for the Treatment of	1.50 / 1.50

	Movement Disorders Ron Alterman, MD Chief, Division of Neurosurgery, Department of Surgery Beth Israel Deaconess Medical Center, Boston, MA	
10/18/2013	Neurosurgical Sciences Grand Rounds, Intra-arterial Management of Patients with Acute Ischemic Stroke: Recent Trial Results and Future Directions Lee Birnbaum, MD Assistant Professor, Depts. of Neurology & Neurosurgery, UTHSCSA	1.50 / 1.50
09/28/2013	MED15025: Emergency Neurological Life Support, MED15025: Emergency Neurological Life Support certification valid from 10/8/12 to 6/30/2015	15.00 / 15.00
08/27/2013 - 08/28/2013	Mechanical Ventilation (9608) course, ACCP Learning Category 1 - Traditional Education and Learning.Scope of practice Critical Care Education.	4.25 / 8.00
08/23/2013 - 08/26/2013	ACCP Critical Care Medicine Board Review (9604), ACCP Learning Category 1- Traditional Education and Learning.Scope of Practice Critical Care Education. ACCP Learning Category IV-Case- and problem Based Learning. Scope of Practice Critical Care Education.	36.50 / 32.00
07/19/2013	Neurological Sciences Grand Rounds, Hypothermia After Cardiac Arrest.	1.50 / 1.50
06/28/2013	Neurological Sciences Grand Rounds, Management of Guillain-Barre Syndrome in the Neuro ICU	1.50 / 1.50
04/19/2013	Neurological Sciences Grand Rounds, Status Epilepticus - Diagnosis & Management/Metabolic Myopathies.	1.50 / 1.50
04/05/2013	Neurosurgical Sciences Grand Rounds, 5th Annual David Sherman Endowed Lecture in Neurosciences David Sherman, the Carotid Artery and Me Thomas G. Brott, MD Dean of Research, Mayo Clinic, Jacksonville, FL	1.50 / 1.50
03/22/2013	Neurosurgical Sciences Grand Rounds, Controversies in the Management of Chiari Malformation and Tethered Cord Syndrome Timothy Mapstone, MD Chair and Wilkins Professor of Neurosurgery, Residency Program Director Univ. of Oklahoma College of Medicine	1.50 / 1.50
02/22/2013	Neurosurgical Sciences Grand Rounds, The role of bypass surgery for the brain: Have we been asking the wrong question with the wrong technology at the wrong time? Howard Yonas, MD Professor and Chair, Dept.	1.50 / 1.50

	of Neurosurgery University of New Mexico School of Medicine	
02/15/2013	Neurosurgical Sciences Grand Rounds, Neuropsychological Evaluation of Individuals with Neurological Disorders Russell Pella, PhD Assistant Professor/Clinical, Dept. of Neurology, UTHSCSA	1.50 / 1.50
02/08/2013	Neurological Sciences Grand Rounds, CPC James Henry, MD Professor/Clinical, Dept. of Pathology, UTHSCSA	1.00 / 1.00
01/19/2013 - 01/23/2013	Society of Critical Care Congress 2013, The society of Critical Care Congress held in San Juan, Puerto Rico in January of 2013. earned AMA PRA credits	25.75 / 40.00
12/21/2012	Neurological Sciences Grand Rounds, Innovative Techniques in Pre-Surgical Evaluation of Epilepsy: Electric Source Imaging Octavian Lie, MD Assistant Professor/Clinical, Dept. of Neurology, UTHSCSA	1.00 / 1.00
12/14/2012	Neurological Sciences Grand Rounds, CPC - James Henry, MD. Pathology	1.00 / 1.00
11/30/2012	Neurological Sciences Grand Rounds, DBS Experience and Lessons, 1997-2012 Presented by: Arnold B. Vardiman, MD Neurosurgical Associates of San Antonio	1.00 / 1.00
11/02/2012	Neurological Sciences Grand Rounds, Sleep in Parkinson's Disease Raja Mehanna, MD Movement Disorder Faculty Candidate Movement Disorder Fellow, Cleveland Clinic, Cleveland, OH	1.00 / 1.00
10/26/2012	Neurological Sciences Grand Rounds, Management of Cerebral Metastases Presented by: Giacomo Vecil, MD Department of Neurosurgery	1.00 / 1.00
10/19/2012	Neurological Sciences Grand Rounds, Modulation of alpha7 nicotinic receptors enhances neuronal resistance to ischemia ex vivo and in vivo rats Presented by: Victor Uteshev, PhD Department of Pharmacology & Neuroscience University of North Texas Health Science Center	1.00 / 1.00
09/21/2012	Neurological Sciences Grand Rounds, Charles Akos Szabo, M.D. Juvenile Myoclinic Epilepsy: Diagnosis, Treatment and New Perspectives on its Etiology Presented By: Department of Neurology	1.00 / 1.00
09/14/2012	Neurological Sciences Grand Rounds, James Henry, M.D. CPC Presented By: Department of Neurosurgery	1.00 / 1.00
09/07/2012	Neurological Sciences Grand Rounds,	1.00 / 1.00

Pain, Pepper and the Role of TRPV1 in pain Disorders. Ken hargraves, DDS, PhD., Professor and chair, Dept of Endodontics. Presented by Dept of Neurology.

Other

<u>Date</u>	<u>Description</u>	<u>C.E. Units/Hours</u>
11/14/2016 - 11/18/2016	14th Annual Neurocritical Care Society Meeting, Washington, DC Category 1 credits 11/14 to 11/18/2016	34.25 / 0.00
06/17/2016	Neurological Sciences Grand Rounds, Recent Advances in Cerebrovascular Disease Santiago Palacio, MD Assistant Professor, Department of Neurology, UTHSCSA	1.50 / 1.50
05/20/2016	Neurological Sciences Grand Rounds, The Lone Star's State of Alzheimer's Disease Donald Royall, MD Professor and Chief, Division of Aging and Geriatrics Julia and Van Buren Parr Professor of Geriatric Psychiatry Department of Psychiatry, UTHSCSA	1.50 / 1.00
05/06/2016	Neurological Sciences Grand Rounds, 6 7th Annual Neurology Research Day The Skyrocketing Price of MS Drugs: Should We Care? Dennis Bourdette, MD, FAAN Chair and Roy and Eulalia Swank Family Research Professor, Department of Neurology, Oregon Health & Science Center Portland, OR	1.50 / 1.00
05/03/2016	2015 Update in Critical Care Medicine Module, AMA PRA Category. Took his education module online on 5/3/2016. Perelman School of Medicine University of Pennsylvania.	10.00 / 10.00
04/07/2016 - 04/09/2016	12th Emirates Critical Care Conference, Attended and presented in the 12th Emirates Critical care Conference from 4/7 to 4/9/2016 in Dubai, UAE in conjunction with 12th International Pan Arab Critical Care Medicine Society Conference (IPACCMS)	43.00 / 24.00
03/25/2016	Neurological Sciences Grand Rounds, Astrocytes as therapeutic targets after brain and spinal cord damage Naomi Sayre, PhD Assistant Professor, Department of Neurosurgery, UTHSCSA	1.50 / 1.00
03/04/2016	Neurological Sciences Grand Rounds, Alzheimer Disease and Other Dementias Robin Brey, MD Professor & Chair, Department of Neurology, UTHSCSA Edna Smith Dielmann Distinguished University Chair	1.50 / 1.00
01/08/2016	Neurological Sciences Grand Rounds,	1.50 / 1.00

	CPC	
12/18/2015	Neurological Sciences Grand Rounds, Functional Connectivity of the Seizure Onset Zone in Focal Epilepsy Kameel Karkar, MD Assistant Professor, Department of Neurology, UTHSCSA	1.00 / 1.00
12/11/2015	Neurological Sciences Grand Rounds, CPC James Henry, MD Professor, Department of Pathology, UTHSCSA	1.50 / 1.50
12/04/2015	Neurological Sciences Grand Rounds	1.50 / 1.00
11/20/2015	Neurological Sciences Grand Rounds, CPC James Henry, MD Professor, Department of Pathology, UTHSCSA	1.50 / 1.00
11/06/2015	Neurological Sciences Grand Rounds, Prognostication in Severe Brain Injury Rachel Garvin, MD Assistant Professor, Dept. of Neurosurgery, UTHSCSA	1.50 / 1.00
10/30/2015	Neurological Sciences Grand Rounds, Disorders of Peripheral Nerve Hyperexcitability Alejandro Tobon, MD, F.A.C.P. Assistant Professor, Dept. of Neurology, UTHSCSA	1.50 / 1.00
10/02/2015	Neurological Sciences Grand Rounds, Neurology Manifestation of B-12 Deficiency Robin L. Brey, MD, F.A.A.N. Professor and Chair of the Dept. of Neurology, UTHSCSA	1.50 / 1.00
09/18/2015	Neurological Sciences Grand Rounds, Imperturbability and Aequanimitas Ramesh Grandhi, MD	1.50 / 1.00
09/04/2015	Neurological Sciences Grand Rounds, Management of Spasticity in Children Sid W. Atkinson, MD Associate Professor and Division Chief, Greehey Family Foundation Chair in Pediatric Neurology	1.50 / 1.00
08/28/2015	Neurological Sciences Grand Rounds, Skull base surgery in the Age of Reason	1.50 / 1.00
08/14/2015	Neurological Sciences Grand Rounds, Advances in Minimally Invasive Spine Surgery Michael Wang, MD Dept. of Neurological Surgery & Rehab, University of Miami Miller School of Med.	1.50 / 1.00
08/07/2015	Neurological Sciences Grand Rounds, Overview of Tardrive Dyskinesia Juan Ramirez-Castaneda, MD Assistant Professor, Dept. of Neurology, UTHSCSA	1.50 / 1.00
07/24/2015	Neurological Sciences Grand Rounds, MSA/Multiple System Atrophy	1.50 / 1.00
07/17/2015	Neurological Sciences Grand Rounds, An Overview of Spontaneous Intracerebral Hemorrhage Lee Birnbau, MD	1.50 / 1.00
06/26/2015 - 06/26/2016	Neurological Sciences Grand Rounds, Understanding Hydrocephalus Luke	1.50 / 1.00

06/26/2015	Tomycz, MD Neurological Sciences Grand Rounds, Understanding Hydrocephalus Luke Tomycz, MD	1.50 / 1.00
06/19/2015	Neurological Sciences Grand Rounds, Update on Myasthenia Gravis Amanda C. Guidon, MD	1.50 / 1.00
06/12/2015	Neurological Sciences Grand Rounds, CPC	1.50 / 1.00
06/05/2015	Neurological Sciences Grand Rounds, Pulmonary Complications of Spinal Cord Injury Michelle Trbovich, MD	1.50 / 1.00
05/15/2015	Neurological Sciences Grand Rounds, Recent Advances in Stroke Prevention Santiago Palacio, MD	1.50 / 1.00
05/08/2015	Neurological Sciences Grand Rounds, CPC James Henry, MD	1.50 / 1.00
02/27/2014 - 03/01/2014	2nd International Conference on Heart and Brain, 2nd International Conference on Heart and Brain in Paris, France	12.00 / 24.00
10/01/2013 - 10/04/2013	Neurocritical Care Society 11th Annual Meeting, Enhancing best practices worldwide	21.25 / 21.25
09/13/2013	Neurological Sciences Grand Rounds, CPC	1.50 / 1.50
07/12/2013	Neurological Sciences Grand Rounds, Lessons learned from a lifetime of quality Improvement.	1.50 / 1.50
05/31/2013	Neurological Sciences Grand Rounds, Ethical Issue Confronting the Clinician/Clinical Investigator in Treatment and Clinical Trials for Rare Disorders.	1.50 / 1.50
05/24/2013	Neurological Sciences Grand Rounds, Skull Base Surgery: why the Owl of Minerva Flies at Dusk	1.50 / 1.50
05/17/2013	Neurological Sciences Grand Rounds, Basic Science in Stroke: what every Clinician Needs to Know.	1.50 / 1.50
No Date Entered - 07/08/2016	Neurological Sciences Grand Rounds, Joel Michalek, MD Professor, Dept. of Epidemiology & Biostatistics, UTHSCSA	1.50 / 1.50

TEACHING

COURSE BASED TEACHING:

<u>Date</u>	<u>Course Name</u>	<u>Level</u>	<u>Role</u>
03/2016 - Present	ANES3001 Clinical Anesthesia	Resident	Clinical Faculty

Teaching formal didactics on Traumatic Brain injury , Ventilator management and Arterial Blood Gas interpretation to Anesthesiology residents on a daily basis during one month

rotation with me. I teach One anesthesiology resident every month during the year.

02/2016 - Present NEUR3005 Neurology Core Clerkship Not Specified Lecturer

Preparation Hrs: 2.0, Student Contact Hrs: 1.0 ; Daily round and educational sessions with MS3 and 4 students who rotate in ICU. revising various topics, discussion and presentation, practice history taking and physical exam and revising their notes.

01/2015 - Present MS2s the Neurologic Exam Post Graduate Sole Teacher

Preparation Hrs: 12, Student Contact Hrs: 5 ; Teaching to new coming MS2 how to do neurological exam in a normal patient. This is the first exposure of these students to a neurological exam and I do this in the groups of 5-10 students at the time and make them ready to go to Neurology floor to see a real patient.

10/2014 - Present Neurological Emergencies Post Graduate Lecturer

Giving lecture to MS3 during their neurology rotation, about Neurological emergencies such as Traumatic brain injury and Status Epilepticus.

07/2014 - Present Neuro ICU rotation Resident Clinical Faculty

Bedside teaching, daily rounds and teaching critical care anesthesiology subjects to the residents who rotate in neuro ICU in a daily basis.

07/2014 - Present CIRC5005 Clinical Skills Undergraduate/Graduate Clinical Faculty

Responsible for mentoring medical students MS1 and MS2 for the Longitudinal preceptorship. Bedside teaching to students how to take history and do physical exam and write a note. I am mentoring 2-4 students each class on a regular basis . This module replaced the previous clinical skills session .

10/2013 - Present MEDI4059 Ambula Prim Care Precept Resident Preceptor

Teaching and preceptor for internal medicine residents and medical students at Robert B. Green ambulatory clinic. I teach history taking and physical exam as well as seeing patients with residents and making plan of care with them.

09/2013 - 12/2016 NEUR4030 Neurology Sub-internship Resident Clinical Faculty

Supervising the medical students rotating in neuro ICU/ Neurology. I meet with them in a group setting and individually in order to review their specific objectives, evaluate their individual performance during rotation, and mentor them with supervision concerning their rotation-specific project. Responsible for teaching formal didactics on Traumatic Brain injury , Ventilator management and Arterial Blood Gas interpretation to Medical students MS3-4 and residents in Anesthesiology, neurology, emergency medicine and neurosurgery who rotate in Neuro ICU in

three different sessions for one hour each.

09/2013 - 12/2016 NEUR4035 Neurocritical Care Resident Clinical Faculty

Preparation Hrs: 3, Student Contact Hrs: 3 ; As the director of Neuro ICU , I am in charge of supervising the medical students rotating in neuro ICU. I meet with them in a group setting and individually in order to review their specific objectives, evaluate their individual performance during rotation, and mentor them with supervision concerning their rotation-specific project. Responsible for teaching formal didactics on Traumatic Brain injury , Ventilator management and Arterial Blood Gas interpretation to Medical students MS3-4 and residents in Anesthesiology, neurology, emergency medicine and neurosurgery who rotate in Neuro ICU in three different sessions for one hour each.

09/2013 - Present Outpatient clinic Resident Clinical Faculty

Teaching history taking, physical exam and visiting patients with residents and students in RBG clinic. Education on making diagnosis and treatment plans.

06/2013 - Present Research Proposal preparation Graduate Instructor

This is a volunteer teaching activity that I am doing for those medical students who are interested in learning how to do clinical research at UT . I teach to medical students how to write and prepare their research proposal and how to apply to get the IRB for their research project. I mentor them for various research projects .

01/2013 - Present NEUR4035 Neurocritical Care Post Graduate Clinical Faculty

Teaching neurological conditions to residents and students and doing history taking, exam and making plan with them.

10/2012 - 06/2014 CIRC5005 Clinical Skills Graduate Instructor

Responsible for teaching clinical skills to medical students on a regular basis in a simulation lab. Teaching Ultrasound guided central line placement, Lumbar puncture and arterial line to students in a large group . I had 10-20 students in each session.

10/2012 - Present SURG3005 Surgery Clerkship Post Graduate Instructor

Preparation Hrs: 20, Student Contact Hrs: 20 ; Instructor for Surgery Clerkship Intersession Week. Session – Bedside Skills – Reviewed central line placement using ultrasound guidance.

09/2012 - 12/2016 EMER3001 Emergency Medicine Resident Clinical Faculty

Teaching formal didactics on Traumatic Brain injury , Ventilator management and Arterial Blood Gas interpretation to PGY2 emergency medicine residents who rotate in Neuro ICU .

09/2012 - 12/2016	NRSR5010 Neurosurgery	Resident	Clinical Faculty
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Preparation Hrs: 3, Student Contact Hrs: 3 ; Teaching formal didactics on Traumatic Brain injury , SAH , ICP management , Ventilator management and Arterial Blood Gas interpretation to residents who rotate in Neuro ICU , daily basis afternoon sessions for one hour for each topic.

09/2012 - Present	Critical care-Neurosurgery	Resident	Clinical Faculty
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I am responsible for teaching to neurosurgery interns and residents during their rotation in Neuro ICU. I am also giving didactics on neurosurgical critical care topics for all residents once a month during their weekly educational activity.

09/2012 - Present	MS4 Clinical Skills	Graduate	Instructor
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Teaching Clinical Skills including inserting Central line, Arterial line, intubation, peritoneal tap and pleural tap to MS4 students.

09/2012 - Present	Neuro ICU rotation	Resident	Clinical Faculty
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Bedside round and teaching to medical students who rotate in neuro ICU. History taking , physical exam and daily didactics on neuroscience topics.

OTHER TEACHING:

Group Instruction

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
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01/2016 - Present	Research Project Forum	University of Texas Health Science Center	
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I do a regular weekly research meeting with volunteer medical students and discussing new research projects , bringing new ideas, prepare the proposal and mentor the project . I perform this session every Thursday from 3-4 PM in department of NEurosurgerly.

10/2015 - Present	Internal Medicine Healthcare Cost and Utilization Project, a research tool	UTHSCSA	
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A course of research design teaching on HCUP database for all residents in the department of Internal Medicine. In this lecture I performed some practical projects for residents and taught them how to design their research on this large Database system . This all to be continued as monthly Workshop for residents and students.

03/2015 - Present	Rapid Sequence Intubation	UTHSCSA	20
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Workshop and training the neuro ICU nurses , medical students, pharmacist and residents for rapid sequence intubation in ICU. I take them to Johnson training center and practice it one on

one with students.

01/2015 - Present	Ventilator management	UTHSCSA	20
<i>Teaching modes of ventilator from very basic to advanced modes to the Medical Students and residents who rotate in Neuro ICU. This is one of the lectures that I specifically do it on white board , write , draw and go one on one with students and do some practices. I often use a real ventilator and BiPAP machine and even try the BiPAP on volunteer students to show them the feeling of having a BiPAP on .</i>			
05/2014 - Present	Neuro Critical Care Lecture Series/ Teaching round	UTHSCSA	30
<i>Presenting the research Scope of practice on Intra thoracic Pressure Regulation (ITPR) research project and discuss about role of each member in this project. This is a novel device that lowers the Intra cranial pressure and I teach how to apply this device to the residents . This is a grant from US Department of defense. We perform this teaching activity twice a year.</i>			
04/2014 - Present	Neuro Critical Care Lecture Series/ Teaching round	UTHSCSA	20
<i>Talk to the faculty and Resident and Medical students on Updates on Decompressive Hemi-craniectomy in Stroke.</i>			
01/2013 - Present	INTD 4211 , Research elective course	UTHSCSA	3
<i>Research elective for MS 2,3 and 4. I have been able to mentor the medical students on several projects and most of them have been finished and presented in national and international meetings and published in peer review journals. I am currently teaching and coaching several students very Thursday afternoon at 3-4 PM on various projects. I have been able to hire a biostatistician and a neuroscience researcher to join to this teaching activity every week. This helps students to be more productive and more detail oriented. We have been able to conduct several projects.</i>			
10/2012 - 09/2014	Clinical Skills/ Medicine and Surgery clerkships	UT Medical School, San Antonio	20
<i>Teaching Clinical Skills to medical students including: Lumbar puncture, Central line, Arterial line, intubation, etc in the simulation lab.</i>			
09/2012 - Present	Neuro Critical Care Lecture Series/ Teaching round	UTHSCSA	15
<i>Weekly neuro critical care lecture series and daily bedside round and teaching round with residents in neurosurgery, anesthesiology , internal medicine and medical students.</i>			
09/2012 - Present	Advanced Acid Base Interpretation	UTHSCSA	
<i>This is one of the lectures that I do it every week for the small group of students that come to ICU. I purposefully do it on a white board and write it every time from scratch and do it with several examples to make it more attractive to students. I always sit one on one with students and solve several examples and make it easy for them . I have made this in a very simple way for students to remember and always heard positive feedback from them . I do this every week for 2-4 medical students.</i>			

09/2012 - Present	Neuro Critical Care Lecture Series/ Teaching round	UTHSCSA	20
<i>I am giving lecture to Neurosurgery residents and faculty in regular basis one Friday a month during the neurosurgery teaching activity. This is usually a topic on neuro critical care for all neurosurgery residents and faculties.</i>			
01/2010 - 01/2012	Performing daily teaching round in NICU	Thomas Jefferson University	20
<i>Daily teaching round in Neuro ICU with residents and medical students as Neuro Critical Care Fellow. Presenting weekly Cerebro-vascular journal club for neurology and Neurosurgery Residents Presenting monthly Neuro critical care lectures for fellows and residents</i>			
01/2007 - 01/2010	Performing daily teaching round and Presenting Medical topics	Atlanticare Hospital	15
<i>Performing daily teaching round and Presenting Medical topics for Junior medical residents and Medical Students</i>			
01/2006 - 01/2007	Teaching pharmacology and physiology	Institute of Medical Education	100
<i>Giving formal didactics for healthcare students on Clinical skills, Anatomy and physiology for a class of 100 students in a daily basis.</i>			
01/2000 - 01/2002	Anesthesiology Lecture series	SUMS	20
<i>Daily Anesthesia lecture series for rotating medical students in department of Anesthesiology.</i>			

High School/Junior High School Student Supervision

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
01/2014 - Present	Teaching Basic Healthcare	BASIS HighSchool	60
<i>Giving talk to junior High-school students and making them familiar to medicine and hospital. Arranging Hospital shadowing, tours and giving talk for National Doctors Day.</i>			
09/2012 - Present	Teaching health care related topics	BASIS School	40
<i>Teaching medical topics and healthcare related topics to the students to make them familiar with medicine. This has been very helpful in guiding those who would like to apply to healthcare related specialties.</i>			

Individual Instruction

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
06/2014 - 06/2014	Neurosurgery Resident Oral Board	UTHSCSA	1
<i>Working one on one with neurosurgery resident Dr Asif Maknojjia to prepare him for the actual</i>			

oral board on neurosurgery. Asking questions and lead him to find answers.

07/2013 - Present	Oral Board Prep for Neurosurgery Resident	UTHSCSA Dept of Neurosurgery	20
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Oral board preparation is a live, interactive teaching opportunity where a presenter discusses the diagnosis and management of fictional cases with one resident who is being tested. It is a timed examination in which the resident is evaluated by both the examiner and other faculty members present in the audience. The cases are meticulously selected from the examiner's experience in the field in order to provide a diverse, challenging set of cases to help assess the resident's knowledge and redirect further learning objectives as the resident progresses through his residency. At the end of each case, the examiner provides feedback and suggestions to optimize the learning experience. I perform this every 3 months for all the the residents.

01/2013 - Present	INTD 4210 , Research Elective Course at Medical School	University of Texas Health Science Center	10
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Research elective for MS 2,3 and 4. I have been able to mentor the medical students on several projects and most of them have been finished and presented in national and international meetings and published in peer review journals. I am currently teaching and coaching several students very Thursday afternoon at 3-4 PM on various projects. I have been able to hire a biostatistician and a neuroscience researcher to join to this teaching activity every week. This helps students to be more productive and more detail oriented. We have been able to conduct several projects.

Masters' Thesis Directed

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
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09/2014 - 03/2016	Induced Hypothermia Simulator	University o Texas at Austin (UT Austin)	1
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Teaching and mentoring a master student at UT Austin with collaboration with professor Kenneth Diller, PhD in department of Biomedical engineering. We build the first simulator for the induced hypothermia technique, which we use it in protecting the brain in sever Traumatic brain injury.

Ph.D. Dissertations Directed

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
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04/2014 - 12/2015	PCA Based Algorithm for Longitudinal Brain Tumor Stage Classification.	University of Texas at San Antonio	1
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I was as the mentor of Amy Daali the PhD student in UTSA and was responsible to teach her the research process and closely monitor her during her PhD project. Amy Daali is currently as a senior researcher scientist at CTSC center under Dr Andrew Brenner, MD. In this dissertation, we propose the first, to the best of our knowledge, PCA based algorithm to noninvasively recognize and classify different temporal stages of brain tumors given a large time series of MRI images. We propose an algorithm that addresses the challenging task of classifying stage of tumor over period of time while the tumor is being treated with VB-111 virotherapy. Our approach treats stage tumor recognition as a two-dimensional recognition problem. Detecting the stage of the tumor is a crucial prognosis factor for predicting the progression of cancer and patient survival. Accurate identification of brain tumor in longitudinal MRI is important for therapy response assessment. We propose a new framework to detect

and classify temporal longitudinal MRI with high accuracy rates. A sensitivity rate of 98.7%, 95.8% and 94.01% for stage 1, 2 and 3 are reported. These results agree with the ground truth of MRI scans. In the second section of this dissertation, we propose a novel mathematical model that describes the complex interaction between tumor cells, the immune system and the novel anti-angiogenic virotherapeutic VB-111. This is the first agent based on a transcription-controlled gene therapy that selectively targets tumor endothelial cells. VB-111 is an engineered adenovirus which have previously shown to have antitumor properties in vitro and in vivo. The goal of our model is to confirm and capture the decay and stabilization of tumor cells by VB-111 monotherapy. The model consists of a system of nonlinear ordinary differential equations describing tumor cells, effector cells, cytokine tumor necrosis factor alpha (TNF- α) and the therapeutic protein Fas-c. Through numerical simulations and stability analysis, we compare the dynamics of two cases: with and without therapy. We show that our mathematical model indeed confirms the efficacy of VB-111 in targeting endothelial tumor cells.

06/2013 - 01/2016 Communicating Personal Health University of Texas at San 1
 Information in Virtual Health Antonio
 Communities

I was the mentor of Nima Kordzadeh, PhD during his post graduate in UTSA . Was responsible to teach and mentor him during the 4 years of school as an interdisciplinary project. Nima Kordzadeh, PhD graduated and is currently as assistant professor of engineering in Idaho State University. Over the past decade, social media technologies have become effective tools not only for entertainment, but also for online health communications. In virtual health communities (VHCs), the members often share their personal health information (PHI) with other members. These information exchanges provide benefits to both the information providers as well as the recipients. The PHI disclosure, however, may entail privacy concerns. Our study used the privacy calculus model to examine the trade-off between individuals' expected benefits and privacy concerns when disclosing PHI in social media environments. Our results showed that age, health status, and affective commitment influence the balance between the information disclosure drivers and barriers in the privacy calculus model. More specifically, we found that among members of VHCs, healthier people expect to receive fewer personal benefits of communicating PHI in social media environments. Moreover, individuals who are emotionally attached to online communities expect to both receive and provide more benefits while communicating PHI in those communities. We also observed that individuals who are familiar with but not members of VHCs, especially those who are young and healthy, are more concerned about their PHI privacy in online communities.

Post-Doctoral Student Supervision

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
09/2012 - Present	Clinical Fellowship Supervision	University of Texas Health Science Center, San Antonio, TX	

I am responsible for the clinical fellows who are rotating with me in neuro ICU including the fellows from Pulmonary and critical care, Trauma and neuro critical care. I teach them how to round the patients and how to make plan of care as they will be a future attending.

Rotation Student Supervision

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
09/2012 - Present	Clinical Neuro ICU rotation	University of Texas Health Science Center, San Antonio, TX	

I am responsible to teach the medical students who are rotating to the ICU and teach them

history taking and physical exam . I supervise 2-4 medical students per month in a regular basis.

Undergraduate Student Supervision

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
07/2014 - Present	Longitudinal Preceptorship of Medical Students	University of Texas Health Science Center, San Antonio, TX	6

Responsible for 2-4 medical students per class for seeing them every month and teach them History taking , physical exams and bedside rounds.

09/2012 - Present	Teaching Undergraduate Students in ICU	University of Texas Health Science Center, San Antonio, TX	4
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I am responsible to teach the students who are coming to our institution from several schools in Texas to out of states and teach them the basics of medicine. Currently I am conducting 2-4 students per year from different schools.

09/2012 - Present	Medical Device Invention	University of Texas at San Antonio (UTSA)	10
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I teach to engineering students who are interested to make medical devices in a regular basis. I go to the department of electrical engineering and teach to the Masters and undergraduate students and present the medical devices that we need and coach them to build new medical technologies. I do this every quarter for a group of volunteer students and we have been successful to build few devices so far.

RESEARCH

EXPERTISE:

Anesthesiology - I am expert in teaching anesthesia and critical care related topics to residents in Neuro ICU in a daily basis. I teach and manage the ventilators and intubations in ICU. I Mentor residents in anesthesiology research projects and conduct presentations and publications in this field.

Clinical Research Mentoring - I am expert in design and conducting clinical research projects in collaboration with medical residents and students at UT medicine. I mentor them and teach the research foundations and analyzing data specially on Healthcare Cost and Utilization Project (HCUP) database to students and residents. HCUP is the largest healthcare database internationally.

Neuro Critical Care - I am an expert in the field of neuro critical care. I oversee the Neuro Critical Care unit which is an 18 bed neuro ICU in University of Texas. Managing the patients with traumatic brain injury, Stroke, brain tumors and neurological emergencies. I teach the medical students and residents of neurology , anesthesiology, emergency medicine and Neurosurgery in this unit. Also I mentor research projects in this filed with residents and students. I am well known in this field nationally and internationally and have been invited several times for scientific meetings to discuss about my findings. Currently I have 2 research grants from DoD and SAGE as Principal Investigator.

Peer Review - Scientific Publications - As Editor in Chief and member of Editorial board of several international journals. Collaborating with more than 10 journals as reviewer for national and

international scientific journals and meetings. I am expert in reviewing the scientific articles and projects and has been recognized as the best reviewer by several scientific journals since 2012.

Teaching - Responsible for daily bedside teaching , giving lecture in wards to the ICU team and teaching clinical skills to resident and students during all year. I am expert in teaching the complex medical topics , in a simple way to understand.

PROJECTS:

Clinical Research

09/2013-Present Clinical Application of Induced Hypothermia in Refractory high ICP, The application of Induced Hypothermia to 33 degree centigrade for refractory high ICP in TBI patients and looking into controlled days of ICP and the complications of this method compare to medical management. This is a Case Control Study.

07/2013-Present Tramadol effects in controlling shivering in Neuro ICU, To compare tramadol in controlling shivering in neuro ICU , with current medical management in University of Texas Health Science center in San Antonio.

Co-Investigator

10/2015-Present Metabolic Indicators of Mortality in Subarachnoid Hemorrhage (MIMOSAH), Research Study
Protocol #: 15-0793E
Co-PI
To determine the impact of various chemical elements in patients with SAH on the outcomes: mortality , functionality and length of stay

07/2015-Present Study on the Effect of Cervical Stabilization Collar on Cerebral Blood Flow, Protocol Number - HSC20150529H (IRB) 7/16/2015
Elevation of the head of the bed has greater influence on CPI than does the c-collar. While this difference may not be clinically significant in healthy volunteers, this change in cerebral perfusion may have clinical significance in a TBI population. Continued research is needed to identify best practice for patient positioning during prehospital transport to protect the cervical spine and optimize cerebral perfusion. The current cervical spine motion restriction practice of supine and secured on a long spine board may be suboptimal.

Collaborative Research

10/2013-12/2014 Communicating Personal Health Information in Virtual Health Communities, Collaboration with Department of Cyber security at UT San Antonio. Over the past decade, social media technologies have become effective tools not only for entertainment, but also for online health communications. In virtual health communities (VHCs), the members often share their personal health information (PHI) with other members. These information exchanges provide benefits to both the information providers as well as the recipients. The PHI disclosure, however, may entail privacy concerns. Our study used the privacy calculus model to examine the trade-off between individuals' expected benefits and privacy concerns when disclosing PHI in social media environments. Our results showed that age, health status, and affective commitment influence the balance between the information

disclosure drivers and barriers in the privacy calculus model. This project was published in journal of international information and management in 2016 :

Link

:<http://www.sciencedirect.com/science/article/pii/S0268401215302188>

01/2013-04/2015

PCA Based Algorithm For Longitudinal Brain Tumor Stage Classification, Collaboration with Electrical Engineering: The PCA based algorithm proposed in this paper is the first, to the best of our knowledge, to noninvasively recognize and classify different temporal stages of brain tumors given a large time series of MRI images. We propose an algorithm that address the challenging task of classifying stage of tumor over period of time while the tumor is being treated with VB-111. Our approach treats stage tumor recognition as a two-dimensional recognition problem. Detecting the stage of the tumor is a crucial prognosis factor for predicting the progression of cancer and patient survival. Accurate identification of brain tumor in longitudinal MRI is important for therapy response assessment. This paper proposes a framework to detect and classify temporal longitudinal MRI with high accuracy rates. A sensitivity rate of 98.7%, 95.8% and 94.01% for stage 1, 2 and 3 is reported. These results agree with the ground truth of MRI scans.

Research Article

01/2016-06/2016

Usage of Swan-Ganz catheterization during the past 2 decades in United Stat, Comprehensive review of using Swan-Ganz catheter in USA during 20 years . This study was finished and publish din journal of Critical Care.

Link :<http://www.ncbi.nlm.nih.gov/pubmed/27325486>

09/2015-04/2016

Incidence of iatrogenic pneumothorax in the United States in teaching vs. n, This project evaluated the incidence of Pneumothorax and checked the impact of teaching institutions in a decade in USA.

Link :<http://www.ncbi.nlm.nih.gov/pubmed/27288612>

01/2013-02/2014

The Incidence and Risk Factors of Acute Myocardial Injury(AMI) After Stroke, To determine the incidence and risk factors for, and the association with in-hospital mortality of, AMI after AIS, and to study the effect of intravenous recombinant tissue plasminogen activator (r-tPA) in this setting. We hypothesized that AMI would be associated with lower survival rate at hospital discharge and that intravenous r-tPA would be associated with higher risk of AMI. This project was finished and published in PLoSOne journal.

Link :<http://www.ncbi.nlm.nih.gov/pubmed/25166915>

Research Grant

04/2015-Present

SAGE Therapeutics Super-Refractory Status Epilepticus Trial, Protocol Number :547-SSE-301

Phase 2 study of New medication for Super Refractory Status Epilepticus.A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of SAGE-547 Injection in the Treatment of Subjects With Super-Refractory Status Epilepticus.Number of patients that are able to be weaned off all third-line agents prior to the end of the SAGE-547 or placebo infusion, and

remain off all third-line agents for ≥ 24 hours following the end of the SAGE-547 or placebo infusion

06/2014-Present CirQulator device to control high ICP, Physiological Effects of Intrathoracic Pressure Regulation in Patients with Brain Injury or Intracranial Pathology. Role: Principal Investigator. Grant awarded by Department of Defense /US Army Institute for Surgical Research (USAISR), 2014-Ongoing

Research Projects

07/2016-Present Design of Electrical Impedance Tomography medical device to detect Intra Cr, Using Electrical Impedance Tomography (EIT) technique to detect early on INtracranial bleeding and stroke in emergency situations. Collaboration with Biomed engineering.

06/2016-Present Impact of Morbid Obesity on SAH prognosis in United States., To determine the impact of Obesity on SAH, ICH and Stroke using a national robust database.

06/2016-Present Incidence and causes of Re intubation in Neurosurgery, To determine the causes of re intubation in neurosurgery and its impact on outcome of these population.

06/2016-Present Role of Uric Acid on developing SIADH versus Cerebral salt wasting, To detect the impact of Uric acid on SIADH vs CSW syndrome in neuro ICU.

05/2016-Present Design of smartphone application for Spinal Cord Injury Patients, To design a software for smartphones that spinal cord injury patients can use to communicate with the eye movement.

05/2016-Present Impact of SSEP on TBI prognosis, To check the impact of Somato Sensory Evoked Potential testing on TBI patient and the effect on changing the prognosis.

01/2016-Present Football injury in United States , a decade of experience, Incidence and risk factors for head trauma in American football injury in USA, an HCUP study.

01/2016-Present Impact of Tramadol on PLEX facilitation in anti-NMDA encephalitis, To determine the impact of tramadol on acceleration of healing after PLEX in anti-NMDA encephalitis

01/2016-Present Traumatic Brain injury during Bicycle accident injury in United States, to find the incidence and demographics of Bike injury with TBI and pineal cord injury in United States.

01/2015-07/2016 Management of dyskinesia in anti-NMDAR encephalitis with tramadol., This project was initiated to find a new treatment for Dyskinesia in anti-NMDA encephalitis. Successfully we found a novel solution for the dyskinesia and the result is published in journal of Neurosurgery and Neurology in 2016.
Link :<http://www.ncbi.nlm.nih.gov/pubmed/27343709>

01/2014-06/2016 Impact of Anemia on the outcomes in sever Traumatic Brain Injury, described the optimum Hb for sever TB to lower the Length of Stay and improve the mortality, basically Hb >8 will be desirable. Results of

this project was published in 2016 in journal of Neuro Critical care.

- 01/2014-06/2016 Impact of Tramadol on controlling Dyskinesia in anti-NMDA Encephalitis, Described a novel treatment for the first time in world for full recovery of dyskinesia in anti-NMDA encephalitis. Result of this project is published in journal of Neurosurgery and Neurology in 2016
- 01/2014-05/2016 Safety of Heparin for DVT prophylaxis in sever TBI, this project was looking into sever TBI patients who had ICP monitor and was aiming to determine the safety of heparin in this population. Results are published in 2016 in journal of Neuro Critical Care.
- 01/2014-04/2016 Cooling machine simulator, Design a cooling machine tester for evaluating the current Cooling machines to body temperature changes with department f Bio Engineering at UT Austin.
- 01/2014-Present Hydrocephalus detector Application., Designing an application to detect the normal brain and hydrocephalus on head Computerized Tomography(CT) with collaboration with department of electrical engineering at UT San Antonio.
- 09/2013-07/2016 Incidence and risk factors of DVT in Neuro Critical Care ., To find the incidence and the optimum timing and dose of chemical prophylaxis in Neurosurgical patients . This project finished and Published in Journal of Neuro Critical Care in June 2016
- 09/2013-07/2016 Pulmonary Emboli in Neurosurgical patients., Incidence , mortality and risk factors of Pulmonary Emboli in Neurosurgical patient population.
- 07/2013-06/2016 Incidence of ARDS, Pulmonary edema, Pneumonia in therapeutic hypothermia, to evaluate the incidence and risk factors to develop ARDS, Pneumonia and Pulmonary edema in the patient population who underwent induced hypothermia in neuro traumain University of Texas Health Science center in San Antonio.
- 07/2013-06/2016 Incidence of Sepsis in Therapeutic Hypothermia, to determine the incidence of SIRS/Sepsis/Sever sepsis and Septic Shock in patients who underwent Therapeutic Hypothermia for Neuro trauma.
- 07/2013-Present Effect of Methyl Naltrexone in Neuro ICU length of stay., using Methyl Naltrexone is established for patient with constipation on opioids in palliative care , but not in ICU setting. We sought to determine the possible effect of this medication on length of stay in neuro ICU in University of Texas Health Science center in San Antonio.
- 07/2013-Present Effect of Nitric Oxide(NO) on ICP (intra cranial pressure)., to evaluate the potential effect of NO in decreasing ICP in Neuro ICU Populationin University of Texas Health Science center in San Antonio.
- 07/2013-Present Mortality in Therapeutic Hypothermia in Neuro ICU, To identify the rate of mortality in patients with neuro trauma that underwent induced hypothermia in Neuro ICU in University of Texas Health Science center in San Antonio during past 10 years.
- 07/2013-Present The incidence of Coagulopathy in induced hypothermia in Neuro trauma, To identify the incidence of coagulopathy in patients with neuro trauma that underwent induced hypothermia in Neuro ICU in University of Texas Health Science center in San Antonio during past

10 years.

01/2013-05/2016	The impact of privacy perceptions of sharing personal medical information, RQ1: How does privacy calculus (risks/benefits) influence one's intention to share PHI in public discussions within virtual health communities? RQ2: How does sense of belonging influence one's intention to share PHI in public discussions within virtual health communities?
01/2013-Present	Automated Infusion Pump Software (AIPS) Design to Control Blood Pressure, Hypothesis: Automated Infusion Pump Software (AIPS) can adjust the infusion pump rate to maintain blood pressure (BP) within a desired physiologic range. Specific AIM #1: To design an AIPS that adjusts the rate of infusion of the pump based on the subject's BP. Specific AIM #2: To test the feasibility of AIPS and the associated control system on hypertensive and hypotensive conditions in a BP simulator.
01/2013-Present	Clinical Application of Therapeutic Hypothermia in Spinal Injury, • Hypothesis: Application of Modest Therapeutic Hypothermia within 24Hrs post injury to 33C for 72 Hrs in patients with SCI improves the clinical outcomes.

PUBLICATIONS: (indicates Peer Reviewed)**

Journal Article

- * 1. Seifi A, John J. Incidence of iatrogenic pneumothorax in the United States in teaching vs. non-teaching hospitals from 2000 to 2012. Journal of Critical Care 2016 Aug;34:66-68.
- * 2. Seifi A, Churnin I, Michalek J. Association of Resident Duty Hour Restrictions on Mortality of Nervous System Disease and Disorder Journal of Graduate Medical Education 2016 Aug
- * 3. Carr KR, Rodriguez M, Ottesen A, Michalek J, Son C, Patel V, Jimenez D, Seifi A. Association Between Relative Anemia and Early Functional Recovery After Severe Traumatic Brain Injury (TBI). Journal of Neuro Critical Care 2016 Jun
- * 4. Seifi A Seifi A1, Elliott RJ2, Elsehety MA2.. Impact of Patients' Income on Stroke Prognosis. Journal of Stroke and Cerebrovascular Disease 2016 Jun;16(30097)
- * 5. Seifi A, Kitchen DL. Management of dyskinesia in anti-NMDAR encephalitis with tramadol. Clin Neurol Neurosurg 2016 Jun;147:105-107.
- * 6. Seifi A, Elliott RS, Elsehety MA. Usage of Swan-Ganz catheterization during the past 2 decades in United States. J Crit Care 2016 Jun
- * 7. Dengler BA, Mendez-Gomez P, Chavez A, Avila L, Michalek J, Hernandez B, Grandhi R, Seifi A. Safety of Chemical DVT Prophylaxis in Severe Traumatic Brain Injury with Invasive Monitoring Devices. Neuro critical care 2016 Jun:1-9.
- * 8. Callahan BC, Seifi A. The Scrub Revolution: From Hospital Uniform to Public

Attire. South Med J 2016 May;109(5):326-327.

- * 9. Seifi A, K Berry. Long Term Impact of ACGME Duty Hour Restrictions on Mortality Rate for Acute Ischemic Stroke Journal of Neurology 2016 May:183-183.
- * 10. Seifi A Réza Behrouz, DO; Lee Birnbaum, MD; Ramesh Grandhi, MD; Jeremiah Johnson, MD; Vivek Misra, MD; Santiago Palacio, MD; Ali Seifi, MD; Christopher Topel, DO; Rachel Garvin, MD; Jean-Louis Caron, MD . Cannabis Use and Outcomes in Patients With Aneurysmal Subarachnoid Hemorrhage Stroke- Journal of the American Heart Association 2016 Apr
- * 11. Seifi A. Antecedents of Privacy Calculus Components in Virtual Health Communities International Journal of Information Management 2016 Apr
- * 12. Seifi A. Epidemiology of Unintentional Acute Carbon Monoxide Poisoning in Fars Province, Southwest Iran in 2011 Asia Pacific Journal of Medical Toxicology 2016 Mar
- * 13. Seifi A. Incidence of iatrogenic pneumothorax in the United States in teaching vs. non-teaching hospitals from 2000 to 2012 Journal of Critical Care 2016 Mar:66-68.
- * 14. Seifi A, Mendez P, Avila L, Chavez A. Deep Vein Thrombosis in Sever TBI Critical Care Medicine 2015 Dec;43(12)
- 15. Mendez P, Chavez A, Avila L, Seifi A. Evaluation of deep vein thrombosis in patients with severe traumatic brain injuries. Intensive Care Med Exp 2015 Dec;3(Suppl):438-438.
- * 16. A Ottesen, M Rodriguez, K Carr, A Seifi. Impact of anemia on outcome in patients with severe traumatic brain injury Journal of Critical Care 2015 Aug;30(4):839-839.
- * 17. Amanda Shakal, Travis Wilson, Ali Seifi. The incidence of postoperative hemorrhage and hematoma with surgical drainage or evacuation in the United States from 2000 to 2012 Journal of Critical Care 2015 Aug;30(4):836-836.
- * 18. Berry KM, Al-Zubidi N, Seifi A. Should serum sodium level be part of stroke protocol prior to t-PA administration? J Neurol Sci 2015 Jul
- * 19. Seifi A. Gender association with postoperative hemorrhage patient safety indicator in the United States from 2000 to 2012. journal of critical care 2015 Jul
- * 20. Dengler B, Garvin R, Seifi A, Seifi. Can therapeutic hypothermia trigger propofol-related infusion syndrome? J Crit Care 2015 Apr:317-318.
- * 21. Rodriguez M, Morrow J, Seifi A. Ethical Implications of Patients and Families Secretly Recording Conversations With Physicians. JAMA 2015 Mar;313(16):1615-1616.
- * 22. Watson A, Sheridan B, Rodriguez M, Seifi A. Biologically-related or emotionally-connected: who would be the better surrogate decision-maker? Med Health Care Philos 2015 Feb;18(1):147-148.
- * 23. Carr K, Rincon F, Maltenfort M, Birnbaum L, Dengler B, Rodriguez M, Seifi A.. Incidence and morbidity of craniocervical arterial dissections in atraumatic subarachnoid hemorrhage patients who underwent aneurysmal repair. Editor's Choice paper Journal of Neurointerventional Surgery 2014 Aug;2014-(11324):1-6.

- * 24. Seifi, Ali; Carr, Kevin; Maltenfort, Mitchell; Moussouttas, Michael Birnbaum, Lee; Parra, Augusto; Adogwa, Owoicho Bell, Rodney; Rincon, Fred. The Incidence and Risk Factors of Associated Acute Myocardial Infarction (AMI) in Acute Cerebral Ischemic (ACI) Events in the United States. PLoS One 2014 Aug;9(8)
- * 25. Seifi A, Asadi-Pooya AA, Carr K, Maltenfort M, Emami M, Bell R, Moussouttas M, Yazbeck M, Rincon F.. The epidemiology, risk factors, and impact on hospital mortality of status epilepticus after subdural hematoma in the United States. SpringerPlus 2014 Jul;3(332):1-10.
- * 26. Watson A, Sheridan B, Rodriguez M, Seifi A. Biologically-related or emotionally-connected: who would be the better surrogate decision-maker? Med Health Care Philos 2014 Jun;18(1):147-148.
- * 27. Seifi, M.D., F.A.C.P. Brent T. Xia, MD Robert F. Felte, MD. Thinking Outside the Box About Young Female Patients With Sudden-Onset Bizarre Behavior: A Case of Anti-N-Methyl-d-Aspartate Receptor Encephalitis The Primary Care Companion in CNS Disorders 2013 Jul;15(4)
- * 28. Seifi A, Dib H. Atomoxetine Letter to the Editor Southern Medical Journal 2011 Jun;104(6):464-464.
- * 29. Seifi A, Griffith H, Avestimehr S. Atomoxetine-Induced Myocardial Infarction Southern Medical Journal 2011 Feb;104(2):153-154.
- * 30. Seifi A, Axelrod H, Nascimento T, Salam Z, Karimi S, Avestimehr S, Ohebsion J. Migration of guidewire after surgical breast biopsy: an unusual case report. Cardiovasc Intervent Radiol 2009 Sep;32(5):1087-1090.
- * 31. Sidhu GS, Seifi A, Zangiabadi AH, Reinig M. Follow your leads: a case of twiddler's syndrome. South Med J 2009 Aug;102(8):871-872.
- * 32. Moustafa Hussein WH, Barzaga R, Seifi A, Shinde A, Rodriguez W. Punch biopsy in Wells syndrome. South Med J 2009 Jul;102(7):775-775.
- * 33. Njeru M, Seifi A, Salam Z, Ognibene L. Dieulafoy lesion: a rare cause of gastrointestinal bleeding. South Med J 2009 Mar;102(3):336-337.
- * 34. Seifi A, Paparone WP, Salam Z. Beyond Strep Throat: Virulence of Strep Group A Journal of American Medical Directors Association 2009 Mar
- * 35. Shinde A, Seifi A, DelRe S, Moustafa Hussein WH, Ohebsion J. Daptomycin-induced pulmonary infiltrates with eosinophilia. J Infect 2009 Feb;58(2):173-174.
- * 36. Seifi A, Salam Z, Mourad MY, Avestimehr S, Lankaranian D, Sidhu G. Simple disease, complex work-up in critical care. South Med J 2009 Feb;102(2):224-224.
- * 37. Seifi A, Avestimehr S, Mowla A. A Comparative Study of the Effect of Tramadol and Pethidine on Postoperative Pain and Shivering in Intensive Care Unit Internet Journal of Anesthesiology 2008 Jun;16(2)
- * 38. Mowla A, Nabavizadeh SA, Bajestan MN, Tavakoli A, Seifi A, Tavakoli A. Payment as motivator in Iranian medical students' attitudes toward research. South Med J 2006 Dec;99(12):1403-1403.
- 39. Seifi A. Physics of MRI Student & Research Journal 2006 Sep
- * 40. Seifi A, Mowla A, Vaziri MM, Talei AR, Namazy MR. Insulin adsorbance to polyvinylchloride (PVC) surfaces of fluid container and infusion-set. Middle East J

41. Seifi A. History of Medicine in Iran Student & Research 1998 Sep

* 42. Seifi A. Non Scalpel Vasectomy Student & Research Journal 1997 Sep

Not Specified

1. Seifi A. Association of Resident Duty Hour Restrictions on Mortality of Nervous System Disease and Disorder. Journal of Graduate Medical Education 2016 Oct;8(4):576-580.

PRESENTATIONS:

08/2016 Guideline Updates on Concussion, Neuro Science Grand Round, Neuroscience, UTHSCSA, San Antonio, TX (Sole Presenter)

Details: *Discussing the updates on Concussion guidelines in Sport and the required tests and assessments .*

07/2016 Updates of Healthcare Cost and Utilization Project (HCUP), Neurological Sciences Grand Rounds, Department of Neurosurgery - UTHSCSA, University of Texas Health Science Ctr., San Antonio, TX (Sole Presenter)

Details: *Presenting the updates on the largest research tool for healthcare and showing the examples of papers that I have published on this database with students and residents in past year.*

06/2016 What is the acceptable Hb in Traumatic Brain Injury ?, Neurosurgery weekly meeting, Neurosurgery faculties, residents, nurse practitioners, Physician assistants and respiratory therapists, UTHSCSA Medical School, San Antonio, TX (Invited Speaker)

Details: *Discussing about the association of anemia and transfusion to traumatic brain injury outcomes and the acceptable Hb in sever brain injury patients.*

06/2016 Impact of anemia in sever brain injury, Neurosurgery meeting at UTHSCSA, Neurosurgery residents, UTHSCSA, San Antonio, TX (Sole Presenter)

Details: *Giving lecture on the impacts of Anemia on TBI outcome to the neurosurgery faculty and residents.*

05/2016 Intra Cranial Hemorrhage ; Gender Neuro-Surgonomics, American Academy of Neurological Surgeons, AANS - 2016, Neuro Critical Care, AANS, Chicago, IL (Co-Author)

Details: *While the mean charge and cost for treating ICH in the US has slowly increased from 2008 to 2013, these increases have not significantly affected one gender more than the other. The cost-to-charge ratio has slowly decreased for both M and F patients during this study period. This information will be important to continue to trend to observe for any change in the future. Further study would be needed to determine the cause of steady increases in both the charge and cost of treating ICH.*

05/2016 Gender association of Intra Cranial Hemorrhage, European Stroke Conference 2016, Vascular, European Stroke, Venice, Italy (Co-Author)

Details: *While the mean charge and cost for treating ICH in the US has slowly increased from 2008 to 2013, these increases have not significantly affected one gender more than the other. The cost-to-charge ratio has slowly decreased for both M and F patients during this study period. This information will be important to continue to trend to observe for any change in the future. Further study would be needed to determine the cause of steady increases in both the charge and cost of treating ICH.*

- 04/2016 Long Term Impact of ACGME Duty Hour Restrictions on Mortality Rate for Acute Ischemic Stroke, American Academy of Neurology, AAN-2016, Poster , Neuro Critical Care, American Academy of Neurology, Vancouver, Canada (Co-Author)
Details: *To elucidate the long-term impact of the ACGME duty hour restriction on patient mortality from Acute Ischemic Stroke. Our results indicate that the ACGME duty hour restrictions had a positive impact on patient safety for AIS while reducing the weekly hours worked by residents. Both hospital types showed significant reduction in mortality rate over the 13 years. More research to determine the long-term impact of ACGME restrictions on mortality rate for other common diseases and surgical procedures is needed.*
- 04/2016 Gender association of Intra Cranial Hemorrhage: Neuro-Surgonomics, European Stroke Conference 2016, Vascular, World Stroke, Venice, Italy (Co-Author)
Details: *Discussing the association of gender on outcomes of stroke and intra cranial bleeding based on a national database in USA. Although the mean cost and charge for treating ICH in the US has slowly increased over time from 2008 to 2013, these increases have not significantly affected one gender more than the other.*
- 04/2016 Intra Cranial Hemorrhage or Cerebral Infarction; Impact of Patient's Income, American Academy of Neurological surgeons 2016, AANS, AANS, Chicago, IL (Co-Author)
Details: *Principal Investigator. During the study period, hospital charge was not consistently related to the patient income for patients diagnosed with ICH/CI .The cost for treatment of ICH/CI was reported, significantly higher in NL patients than in L patients for most of the study period. The cost-to-charge ratio for NL and L patients has been steadily decreasing during study period about %4 and %7 respectively. Knowing this information will be beneficial for healthcare to make plan for their financial plans. Further study is needed to investigate the etiology of these differences and if these differences are associated with clinical outcomes.*
- 04/2016 NeuroSurgonomics:Intra Cranial Hemorrhage or Cerebral Infarction; Impact of Patient's Income on, European Stroke Conference, Vascular, World stroke, Venice, Italy (Co-Author)
Details: *Principal Investigator. During the study period, hospital charge was not consistently related to the patient income for patients diagnosed with ICH/CI .The cost for treatment of ICH/CI was reported, significantly higher in NL patients than in L patients for most of the study period. The cost-to-charge ratio for NL and L patients has been steadily decreasing during study period about %4 and %7 respectively. Knowing this information will be beneficial for healthcare to make plan for their financial plans. Further study is needed to investigate the etiology of these differences and if these differences are associated with clinical outcomes.*
- 04/2016 Updates of ICP Control, 12th Emirates Critical Care Conference, Neuro Critical Care, ECCC, Dubai- UAE, United Arab Emirates (Keynote Speaker)
Details: *Chair of Neuro Critical Care Session - International Audiences. Invited speaker for the Neuro Critical Care session in the international critical care meeting that was held in United Arab Emirates in 2016. Discussed about the conventional methods of controlling ICP and also presented recent success in neuroscience for controlling ICP such as Intra Thoracic Pressure Regulation which is a new era in ICP management . Received very positive feedback from audiences internationally .*
- 03/2016 Deep Vein Thrombosis in Patients with Severe Traumatic Brain Injury, Southern Neurological Society, Oral Presentation- Neurosurgery, SNS 2016, San Antonio, TX (Keynote Speaker)
Details: *Principal Investigator. The incidence of deep venous thrombosis decreases in severe traumatic brain injury patients with chemoprophylaxis. Our data shows an incidence of 12.26 % DVT in severe TBI patients with a lower incidence of DVT and*

mortality in patients who received chemoprophylaxis. This incidence is lower than the average of other reported DVTs in critical care conditions. Further randomized prospective studies are needed to determine the optimal to start chemoprophylaxis in severe TBI patients.

- 03/2016 Nationwide Improvement in Mortality Following Mechanical Thrombectomy for Acute Ischemic Stroke from 2008 to 2013, Southern Neurological Society, Vascular, SNS 2016, San Antonio, TX (Co-Author)
Details: *Review of incidence and outcomes in Mechanical Thrombectomy , an analysis of data from Nationwide Inpatient Sample.*
- 03/2016 A step closer to DVT prophylaxis in Head injured patients, American Academy of Neurology AAN -2016, Neurology, University of Texas Health Science Ctr. SA, Vancouver, Canada (Sole Presenter)
Details: *Our data suggests that, in severe TBI patients, the incidence of patients who were started on prophylaxis anticoagulation was very low compared to the group that did not receive prophylactic anticoagulation making it safe to start prophylactic anticoagulation as early as 5 days in severe TBI patients. The hospital length of stay increased significantly in patients who did not received prophylactic anticoagulation and developed a DVT so it should be started to reduce patient and hospital costs. Finally, patients that do no receive prophylactic anticoagulation have higher mortality rates than patients who do. Additional larger prospective studies should be undertaken to determine the impact and outcome of prophylactic anticoagulation on pulmonary emboli as we had insufficient data and to confirm these results.*
- 11/2015 Healthcare Cost and Utilization Project (H-cup), a research tool, 4th International Biostatistics Conference & Exhibition, Biometrics and Biostatistics, OMICS International Conference, San Antonio, TX (Keynote Speaker)
Details: *Sole invited speaker on HCUP and NIS database for physicians and Biostatisticians who were invited internationally for Biostatistical meeting. Introduction to Big Data and how to use HCUP in healthcare for research projects. Hilton San Antonio Airport, San Antonio, TX*
- 10/2015 Complications of Therapeutic Hypothermia in Sever Traumatic Brain Injury, ASA- American Society of Anesthesiology- 2015, Critical Care/OR06-2, ASA, San Diego, CA (Co-Presenter)
Details: *This study describes the complications that happens during Induced hypothermia and also during rewarming for the sever traumatic Brian injury patients in our institution. Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 10/2015 Management of Blood pressure in Intra Cranial Bleeding, John Muir Hospital, Neuro Intensivist, Critical Care, John Muir, San Francisco, CA (Invited Speaker)
Details: *Invited speaker, discussed about management of Hypertensive emergencies and comparing the clinical trials.*
- 10/2015 Sever Traumatic Brain Injury Patients Developing Deep Vein Thrombosis., The 28th European Society of Intensive Care Medicine (ESICM) Annual Congress, Neuro Critical Care, ESICM Annual Congress, Berlin, Germany (Co-Author)
Details: *Lives 2015- Linking Innovation Vision Excellance and Science EVALUATION OF DEEP VEIN THROMBOSIS IN PATIENTS WITH SEVERE TRAUMATIC BRAIN INJURIES Our data shows an incidence of 12.26% DVT in sever TBI patients with a significant lower incidence of DVT and lower mortality in patients who received chemoprophylaxis. This incidence is lower than the average of other reported DVTs in*

*critical care conditions*². Further randomized prospective studies should be undertaken to determine the best time to start chemoprophylaxis in severe TBI patients.

- 09/2015 The Resident duty-hour reform impact on patient outcomes of central nervous system incision and excision procedures, 15th Meeting of the World Federation of Neurosurgical Societies, Neurosurgery, WFNS World Federation of Neurosurgical Societies, Rome, Italy (Sole Presenter)
Details: *Presenting the impact of change in resident duty hours on Craniotomy and Craniectomy procedures in USA and the impact on neurosurgical outcomes.*
- 09/2015 A step closer to preventing deep vein thrombosis in patients with severe traumatic brain injuries, 15th WFNS World federation of Neurosurgical Societies, Neurosurgery, WFNS, Rome, Italy (Sole Presenter)
Details: *Our data shows an incidence of 12.26% DVT in sever TBI patients with a significant lower incidence of DVT and lower mortality in patients who received chemoprophylaxis. This incidence is lower than the average of other reported DVTs in critical care conditions*². Further randomized prospective studies should be undertaken to determine the best time to start chemoprophylaxis in severe TBI patients.
- 09/2015 Effect of anemia on mortality and length of stay in severe traumatic brain injury, 15th WFNS World federation of Neurosurgical Societies, Neurosurgery, WFNS, Rome, Italy (Sole Presenter)
Details: *Principal Investigator. From our studies, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population. In patients admitted for primary severe traumatic brain injury, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a noticeable decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population.*
- 09/2015 Therapeutic hypothermia in severe traumatic brain injury, 15th WFNS World federation of Neurosurgical Societies, Neurosurgery, WFNS, Rome, Italy (Sole Presenter)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 09/2015 Management of Hypertension in Acute setting, Texas Tech University, Neurology, Critical Care, TTUHSC, El Paso, TX (Invited Speaker)
Details: *Invited Speaker for Controlling HTN in Acute settings, including intra cranial bleeding.*
- 08/2015 Impact of Anemia on outcome in sever Traumatic Brain Injury, WFSICCM-2015, Critical Care, World Federation of Critical Care, Seol, Korea, Republic Of (Sole Presenter)
Details: *Evaluatig the impact of Anemia and varous Hb concentrations on Length of stay and mortality is sever TBI* From our studies, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population. In patients admitted for primary severe traumatic brain injury, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a noticeable decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population.

- 08/2015 Epidemiology of Post operative Bleeding in United States during 10 years, WFSICCM-2015, Critical Care, World Federation of Critical Care, Seol, Korea, Republic Of (Sole Presenter)
Details: *Evaluatng the impact of Gender on Post operative Bleeding in elective surgeries during 10 years in USA*
- 08/2015 Sport Concussion Updates of 2015, UT Grand Grounds, University of Texas San Antonio, San Antonio, TX (Sole Presenter)
Details: *presented the latest updates on Concussion based on 2015 CDC and AAN guidelines*
- 07/2015 Neuro Critical Care Ventilators, Neurosurgery Conference, Neurosurgeons, Residents and Medical students, University of Texas Health Science Center SA, San Antonio, TX (Sole Presenter)
Details: *Teaching various modes of invasive and non invasive Ventilators and their application in neurosurgery.*
- 07/2015 Ventilator Modes, Neurosurgery Meeting, Neurosurgery faculty and residents, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: *Teaching about All Modes of Ventilators to Medical Students, Residents and Faculties including BiPAP, CMV, SIMV, APRV, Oscillators.*
- 07/2015 Automated Infusion Pump Softwares, SURF: San Antonion University Research Forum at UTSA, UTSA, University of Texas San Antonio, San Antonio, TX (Sole Presenter)
Details: *key Presenter in Research forum at SURF, talking about automated systems that can deliver medications based on feedback from patients' vital signs. 7/24/2015*
- 06/2015 Severe Traumatic Brain Injury and Therapeutic Hypothermia, Social Media and Critical Care (SMACC), SMACC, Chicago, IL (Co-Author)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 06/2015 Challenges of Induced Hypothermia in Severe Traumatic Brain Injury, The XXVIIth International Symposium on Cerebral Blood Flow, Metabolism and Function, BRAIN, Vancouver, Canada (Co-Author)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 05/2015 Anemia in Severe Traumatic Brain Injury., American Association of Neurological Surgeons, Neuro critical Care, Neurosurgery, Washington, DC (Co-Author)
Details: *From our studies, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population. In patients admitted for primary severe traumatic brain injury, we demonstrate no significant clinical benefit associated with stratified transfusion goals; however, there was a noticeable decrease in length of hospitalization for patients with transfusion thresholds of Hgb \geq 8mg/dL. Larger, randomized controlled trials may be required to more accurately assess outcomes in this patient population.*

- 05/2015 Management of Severe Traumatic Brain Injury, American Association of Neurological Surgeons, AANS, Washington, DC (Co-Author)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 05/2015 Therapeutic Hypothermia in Sever TBI, Society of Academic Emergency Medicine (SAEM), SAEM, San Diego, CA (Co-Author)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 05/2015 Impact of Payment Source on Craniotomy Mortality in the United States During 2000-2011, American Association of Neurological Surgeons, AANS, Washington, DC (Co-Author)
Details: *Introduction to the association of patient income and neurosurgical outcomes based on a national database.*
- 05/2015 Resident Duty-Hour Restriction Impact on Teaching Hospital Craniotomy/Craniectomy Outcome, American Association of Neurological Surgeons, AANS, Washington, DC (Co-Author)
Details: *Introduction to the association of residency duty hours and neurosurgical procedures outcome.*
- 05/2015 Introducing HCUP : a research tool in Neuroscience, Neuroscience Grand Round, Neurology and Neurosurgery, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: *Presented the fundamentals of Healthcare Utilization and Cost Project (HCUP) and the ways that physicians can do research on this database.*
- 05/2015 Research Updates on my Projects, Neurosurgery weekly meeting, Neurosurgery faculties, residents, nurse practitioners, Physician assistants and respiratory therapists, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: *Presented the first case that enrolled in our institution for the ITPR project, funded by DoD . We discussed the effect of this new device on our first enrolled patient's ICP, CPP and Cerebral blood flow.*
- 04/2015 Impact of Anemia on Outcome in Patients with Severe Traumatic Brain Injury, PASSPORT research day, Student research day, UTHSCSA, San Antonio, TX (Co-Author)
Details: *I am the PI of this project*
- 04/2015 Therapeutic Hypothermia in Sever TBI, Emirates Critical Care Conference (ECCC), Critical Care, ECCC, Dubai, United Arab Emirates (Invited Speaker)
- 04/2015 Cooling the patient in Severe Traumatic Brain Injury, PASSPORT research day, Student research day, UTHSCSA, San Antonio, TX (Co-Author)
Details: *Presenting the side effects and complications during therapeutic Hypothermia in Sever Brian Injury.*
- 04/2015 Postoperative Hemorrhage and Hematoma in United States, PASSPORT research day, Resident research day, UTHSCSA, San Antonio, TX (Co-Author)

- 04/2015 Deep Vein Thrombosis and Pulmonary Emboli in Patients with Severe Traumatic Brain Injuries, PASSPORT research day, Student research day, UTHSCSA, San Antonio, TX (Co-Author)
Details: *Our data shows an incidence of 12.26% DVT in sever TBI patients with a significant lower incidence of DVT and lower mortality in patients who received chemoprophylaxis. This incidence is lower than the average of other reported DVTs in critical care conditions². Further randomized prospective studies should be undertaken to determine the best time to start chemoprophylaxis in severe TBI patients.*
- 04/2015 Re-examining the “Doctor Complex”: A Case of Anti-N-Methyl-d-Aspartate Receptor Encephalitis, PASSPORT research day, Student research day, UTHSCSA, San Antonio, TX (Co-Author)
Details: *How a miracle happens for a case of anti NMDA encephalitis ? If you read the book " Brain on Fire " .*
- 04/2015 Acute Myocardial Infarction (AMI) Mortality Rates in Teaching Versus Non-Teaching Hospitals in the United States During 2000-2011, American College of Physicians, Internal Medicine, ACP, Boston, MA (Co-Author)
Details: *Principal Investigator. Our data shows that AMI is a common cause of death in the United States, and mortality rates have steadily declined from 2000 to 2011 across all institutions. Treatment of AMI at teaching institutions results in significantly lower mortality rates than does treatment at non-teaching institutions during all years of the study period. This maybe related to higher level of care provided in teaching institutions. Further studies are needed to determine the factors contributing to this difference in an effort to further reduce AMI mortality rates in the United States.*
- 03/2015 Effect of Anemia on Mortality and Length of Stay in Sever Traumatic Brain Injury, IARS 2015 Annual Meeting, Neurosurgery, University of Texas Health Science Center San Antonio, San Antonio, TX (Sole Presenter)
Details: *On behalf of the International Anesthesia Research Society (IARS) 2015 Annual Meeting Program Committee please accept this email notification for your abstract submitted for presentation at the IARS 2015 Annual Meeting, March 21 – 24, in Honolulu, Hawaii, at the Hilton Hawaiian Village Resort*
- 03/2015 Ventilator Management, Neurosurgery Conference, University of Texas Health Science Center, San Antonio, TX (Sole Presenter)
Details: *Management of Ventilator for neurosurgery residents : from basic to advanced.*
- 03/2015 Effect of Anemia on Mortality and Length of Stay in Severe Traumatic Brain Injury., Annual Meeting of the International Anesthesia Research Society, Critical Care, International Anesthesia, Honolulu, HI (Co-Author)
Details: *Discussing the impact of Anemia on the sever TBI outcomes including mortality, GCS score and length of Stay.*
- 03/2015 Therapeutic Hypothermia and the complications, American Academy of Emergency Medicine (AAEM), Critical Care, AAEM, Austin, TX (Co-Author)
Details: *How to cool a patient with TBI : Challenges and complications.*
- 02/2015 Medical Devices Innovation, UTSA Medical Device, Electrical Engineering, UTSA, San Antonio, TX (Sole Presenter)
Details: *Workshop organizer for PhD and Master students at UTSA to arrange multidisciplinary research projects on Medical device ideas.*
- 02/2015 Intrathoracic Pressure Regulation, ITPR Workshop, Researcher group, UTHSCSA and

Advanced Circulatory Co., San Antonio, TX (Keynote Speaker)

Details: *Two day Workshop of researcher training for ITPR and Cerebral blood flow monitoring, a new era to lower the ICP .*

- 02/2015 HCUP and Researchers in General Medicine, General Internal Medicine, UTHSCSA, San Antonio, TX (Sole Presenter)
- 02/2015 Traumatic Brain Injury : How to Cool the Brain., American Medical Student Association (AMSA), AMSA, Washington, DC (Co-Author)
Details: *The incidence of complications of Therapeutic Hypothermia in our community.*
- 02/2015 Therapeutic Hypothermia and the Challenges, 19th Society of Academic Emergency Medicine (SAEM), Mid Atlantic, SAEM, Washington, DC (Co-Author)
Details: *Our study showed that patients with severe TBI who underwent TH usually had higher imaging TBI score. Although TH doesn't show a direct improvement in the outcome of severe TBI, a mixture of parameters including 24hr GCS, age>40, EDH, SAH and brain edema can predict severe TBI outcome.*
- 01/2015 Neurosurgical Board review, Neurosurgery Meeting, Neurosurgery, Neurology, UTHSCSA Medical School, San Antonio, TX (Sole Presenter)
Details: *Presenting the Board type questions for Neurosurgery residents to prepare them for the Oral Board of Neurosurgery. Mike McGinity.*
- 01/2015 Practice Guidelines Presentation, Neurological Sciences Grand Rounds, Neurosurgery and Neurology, University of Texas Health Science Center SA, San Antonio, TX (Sole Presenter)
Details: *Giving lecture on Guidelines for sport head trauma and concussion .*
- 11/2014 Diseases and Disorders of the Eye:Incidence & Demographics in United States from 1997 to 2012., The 12th Annual AMA Research Symposium, Research group, AMA, Dallas, TX (Co-Author)
Details: *Our study demonstrates that the incidence of Eye diseases and disorders significantly decreased in the US during 1997-2012, while the total charge significantly increased during this period. Our research reveals that there are identifiable patterns of incidence and geographical distribution of eye disorders and disease within the United States. We believe that further studies to learn more about the demographics of eye disease will equip us to provide the best care available to those that need it most.*
- 10/2014 Epidemiology and Risk Factors of Post-Operative Respiratory Failure in the United States: A Review, 3rd Annual Texas SCCM Symposium, Texas Chapter, SCCM, Dallas, TX (Co-Presenter)
Details: *The United States spends a greater fraction of its National Gross Domestic Product (GDP) on healthcare than any other major industrialized nation. Nearly 30% of this is spent on the care of hospital inpatients.We discussed the incident and the demographics of respiratory failure in USA .*
- 09/2014 Impact of teaching institutions on Craniotomy mortality in USA, National Neuro Critical Care Meeting, Poster session, NCS, Seattle, WA (Co-Author)
Details: *We sought to assess the impact of teaching institutions on the mortality of craniotomy patients. Craniotomy mortality has been significantly decreasing from 2000 to 2011. The effect of teaching institutions on mortality has been variable but most of the time protective. Teaching hospitals are often level I trauma centers with more complicate patient population which affect the mortality. From the other hand these hospitals may go to extra measures to be more thorough in patient care for the sake of education.*

Furthermore, there may be more concern with hygiene and infection control practices. Having more healthcare providers with different levels of experience, including students, residents, and attending physicians, brings more people involved in patient care, that can prevent errors.

- 09/2014 Association of rtPA and AMI survival of stroke patients in United States, National Neuro Critical Care Meeting, Poster Session, CNS, Seattle, WA (Sole Presenter)
Details: *We demonstrates strong associations between rTPA administration and AMI and decreasing median time to death of ACI patients. AMI has a more significant association than rTPA with decreasing survival in these patients. These observations may be related to increased cardiovascular disease burden in a subset of patients. Considering the high clinical burden of AMI on mortality of ACI patients, prompt diagnosis and treatment of associated cardiovascular diseases may improve outcome and warrant further study.*
- 09/2014 Teaching institution's impact on craniotomy mortality: a national assessment on measures of health care quality., National Neuro Critical Care Meeting, Poster session, NCS, Seattle, WA (Sole Presenter)
Details: *Presented the impact of teaching institutions on outcomes of neurosurgical procedures and discussing the challenges and the solution to duty hours.*
- 07/2014 Evaluation and Management of Concussion in Sports, Neurosurgery Conference, University students, Faculty, residents, nurses, etc, University of Texas Health Science Center SA, San Antonio, TX (Sole Presenter)
Details: *Updates on concussion diagnosis and management.*
- 07/2014 Sport Concussion Guidelines, Neuroscience Grand round, Neurosurgery, Neurology, UTHSCSA Medical School, San Antonio, TX (Invited Speaker)
Details: *discussing the latest updates on head injury during sport activities, guideline from American Academy of Neurology*
- 05/2014 Intrathoracic Pressure Regulation Therapy to Enhance Brain Perfusion and Lower the ICP, Neurosurgery Conference, Department of Neurology, University of Texas Health Science Center San Antonio, San Antonio, TX (Sole Presenter)
Details: *A research proposal*
- 05/2014 HCUPnet a valuable research tool for clinicians, CT surgery research meeting, Faculties and researchers, UTHSCSA, San Antonio, TX (Invited Speaker)
Details: *Healthcare Cost and Utilization Program is a valuable research tool provided by AHRQ and NIH . It is the largest clinical database nationwide with access to data during more than past 20 years.*
- 04/2014 Surgical De-Compression for Space Occupying Cerebral Infarction, Neurosurgery weekly Conference, Department of Neurosurgery, University of Texas Health Science Center SA, San Antonio, TX (Sole Presenter)
Details: *presenting to faculties and residents about Stroke decompression Critical Care Conference*
- 04/2014 Impact of Resident Duty-Hour Restrictions on Mortality of Nervous System Disease and Disorder, PASSPORT research day, Student research day, UTHSCSA, San Antonio, TX (Co-Author)
Details: *Introduction to the association of mortality of neurosurgery and residency duty hours.*

- 02/2014 Poster Presentation - Heart and Brain-Risk Factors for Myocardial Injury in Stroke Population, 2nd Heart and Brain International Conference, Neuroscience, International Conference, Paris, France (Sole Presenter)
Details: *Presenting the association of Stroke and myocardial infarction in critical care setting. Discussing the incidence of Acute MI in Stroke population and the impact of tPA on this co incidence.*
- 11/2013 Pre-Operative Evaluation of Neurosurgical Patients, Neurosurgery Conference, Department of Neurosurgery - Faculty, Residents, Medical Students, PA's and NP's, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: *Teaching on the clinical health points that a neurosurgery resident need to know before operation . 11/20/2013*
- 10/2013 Clinical Skills Intercession, Medical School Booth Camp, Medical Students at UTHSCSA, UTHSCSA Medical School, San Antonio, TX (Sole Presenter)
Details: *Teaching and presenting clinical procedures to students: central line, Arterial line, Lumbar puncture.*
- 10/2013 Physician Assistant (PA)Role in Neuro Critical Care, PA annual meeting, PA role in Hospital, UTHSCSA, San Antonio, TX (Invited Speaker)
Details: *Discussing the role of Physician Assitant in Critical Care settings.*
- 06/2013 Management of Guillain-Barré Syndrome in Neuro ICU, Neuro Science Grand Round, Neurosurgery, Neurology, University of Texas Health Science Center San Antonio, San Antonio, TX (Invited Speaker)
Details: *Discussing the updates in management of Guillain Barre in Neuro ICU, respiratory failure, Dyasautonomia, Plasma exchange, IV Immunoglobulin, new treatment modalities and prognosis.*
- 05/2013 Clinical Skills intersession week, Clinical Skills intersession week, April29-May3, 2013, Medical Students MS4, UTHSCSA Medical School, San Antonio, TX (Co-Presenter)
Details: *One week of interactive teaching clinical skills to medical students, including central lines, arterial lines, Ultrasound guided procedures, Lumbar puncture, NG tube insertion, etc. This was held under Dr Robert Esterl,Jr,MD who is Distinguished Teaching Professor at Department of Surgery, Transplant Center*
- 04/2013 Non Invasive Ventilation: BiPP, Conference, Neurosurgery, University of Texas Health Science Center SA, San Antonio, TX (Sole Presenter)
Details: *presenting the updates on new modes of non invasive ventilation.*
- 04/2013 Central line Workshop, Clinical Skills Boot Camp, Medical students MS4, UTSCSA medical school, San Antonio, TX (Sole Presenter)
Details: *Teaching central line to the MS 4s that are going to internal medicine residency in July 2013. 4/17/2013*
- 03/2013 Lumbar Puncture in Clinical Epidemiology, Clinical Skills intersession week, Medical Students MS4, UTHSCSA Medical School, San Antonio, TX (Co-Presenter)
Details: *Teaching lumbar puncture to Medical students that are already matched to go to internal medicine or surgery residency : April29-May3, 2013*
- 02/2013 Guillain Barre and Myastenia Gravis, Internam Medicine, Residents, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: *Presenting management of Guillain Barre and Myasthenia to faculties and*

residents.

- 02/2013 Clinical Skills Intercession, Medical Student Boot Camp, Central Line, UTHSCSA Medical School, San Antonio, TX (Invited Speaker)
Details: Teaching central line placement to group of 26 students .
- 02/2013 Clinical Skills Intercession, Clinical Skills Boot Camp, Medical Students MS3/4, UTHSCSA, medical school, San Antonio, TX (Invited Speaker)
Details: Teaching Lumbar puncture to a group of 20 medical students.
- 02/2013 Clinical Skills Intercession, Clinical Skills Boot camp, Medical Students MS 3 & 4, UTHSCSA Medical School, San Antonio, TX (Invited Speaker)
Details: Teaching Arterial Line to medical students .
- 02/2013 Emergency Cricothyrotomy Workshop, Neurosurgery weekly Conference, Neurosurgery faculties, residents, nurse practitioners, Physician assistants and respiratory therapists, UTHSCSA, San Antonio, TX (Sole Presenter)
Details: Teaching emergency Cricothyrotomy to clinical staff on mannequin to be able to maintain airway in critical conditions that there is not possible to intubate the patients.
- 10/2011 The Prevalence of Cervico-Arterial Dissection in Sub-Arachnoid Hemorrhage, Congress of Neurosurgical Surgeons 61st Annual Meeting, Neuro Critical Care, CNS, Washington, DC (Sole Presenter)
Details: discussing the association of carotid dissection and SAH in USA during Clip versus Coil.
- 09/2011 The Prevalence and Mortality of Acute Myocardial Infarction Following Intravenous Tissue Plasminogen Activator for Acute Ischemic Stroke, 9th Annual Neurocritical Care Society Meeting, International Critical Care, 9th Annual Neurocritical Care Society, Montreal, Canada (Co-Author)
Details: Discussing the associated myocardial infarction and Stroke in USA, a decade of study.
- 09/2011 Association Between Sepsis and Symptomatic Vasospasm in Aneurysmal Subarachnoid Hemorrhage, 9th Annual Neurocritical Care Society Meeting, International Critical Care, 9th Annual Neurocritical Care Society, Montreal, Canada (Co-Author)
Details: International speaker at NCC meeting in Canada on Sepsis in SAH
- 09/2011 The Incidence, Risk Factors, and Impact on Hospital Mortality of Status Epilepticus after Sub-Dural Hemorrhage in the United States., 9th Annual Neurocritical Care Society Meeting, International Critical Care, NCC, Montreal, Canada (Co-Author)
Details: Our study demonstrates that the incidence of admissions of SDH is increasing in the United States. Despite a decline in the overall SDH related mortality, SE increased the risk of in-hospital death in patients with a primary diagnosis of SDH.
- 04/2011 The Correlation Between Pulmonary Artery Pressure and Pulmonary Function, Testing in Non-COPD Smokers, IV World Asthma & COPD Forum, Critical Care, Paris, France (Sole Presenter)
Details: Presenting association of pulmonary artery pressure and Pulmonary Function Test results.
- 03/2011 Incidence, Risk Factors, and Impact on Mortality of Status Epilepticus, 31st International Symposium on Intensive Care and Emergency Medicine, International Critical Care,

Intensive Care Medicine, Brussels, Belgium (Sole Presenter)

Details: *Our study demonstrates that the incidence of admissions of SDH is increasing in the United States. Despite a decline in the overall SDH related mortality, SE increased the risk of in-hospital death in patients with a primary diagnosis of SDH.*

03/2011 Prolonged Fasting: A Traditional Practice Not Without Risk/Cerebral Venous, Sinus Thrombosis, American Medical Directors Association, AMDA, Tampa, FL (Sole Presenter)

Details: *Discussion on development of Sinus vein thrombosis in vegetarians with prolonged fasting.*

04/2010 The First Documented Case Report of Atomoxetine Induced Myocardial Infarction, American College of Physicians, Toronto- International resident competition, ACP, Toronto, Canada (Sole Presenter)

Details: *International presentation of the first documented AMI with Atomoxetine for ADD syndrome . Best resident research project award.*

02/2010 The First Documented Case Report of Atomoxetine Induced Myocardial Infarction, NJ-ACP, ACP, Iselin, NJ (Sole Presenter)

Details: *First Place Award. This is report of the first documented AMI with Atomoxetine for ADD syndrome .*

02/2010 Posterior Reversible Encephalopathy Syndrome, NJ-ACP, Iselin, NJ (Sole Presenter)

Details: *Discussing the updates and Cases of PRES*

05/2009 An Unusual Case of Chest Pain, American College of Physicians, Spring Chapter, ACP, New Brunswick, NJ (Sole Presenter)

Details: *First Place Award from ACP : A young female with Acute Myocardial infarction after using Strattera for ADD.*

04/2009 Beyond Strep Throat: Virulence of Strep Group A, American College of Physicians, ACP, Philadelphia, PA (Sole Presenter)

Details: *presenting uncommon presentations of Strep pharyngitis*

03/2009 Beyond Strep Throat: Virulence of Strep Group A, American Medical Directors Association, ACP, Charlotte, NC (Sole Presenter)

Details: *Discussing on the potential virulence of Strep Group A*

02/2009 Beware of Unusual Presentations, Consider Rare Pathogens, American College of Physicians National meeting, ACP, New Brunswick, NJ (Sole Presenter)

Details: *Presented about Milk Alkali syndrome and differentials.*

02/2009 Myopericarditis as a Complication of Smallpox Vaccination, American College of Physicians, ACP, New Brunswick, NJ (Sole Presenter)

Details: *Second Place Award Presenting the complications of Smallpox*

02/2009 Sudden Onset of Ventilator-Dependent Respiratory Failure in a Patient with Esophageal Cancer, American College of Physicians, ACP, New Brunswick, NJ (Sole Presenter)

Details: *discussing about Ventilatory failure and differential diagnosis.*

12/2007 The Effect of Complementary Medicine on Pain Management, Annual AtlantiCare Caregivers Conference, AtlantiCare Caregivers, Atlantic City, NJ (Sole Presenter)

Details: Discussion on Alternative medicine in pain management .

- 10/2002 A Comparative Study of The Effect of Tramadol and Pethidine on Postoperative Shivering, 1st International Congress of Anesthesiology and Perioperative Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: In this study we found that there is no significant difference in anti shivering effect of pethidine and tramadol although some papers believe that tramadol is superior and the others say that pethidine is most efficacious. This discrepancy could be due to difference in age of patients, duration of operation, core and room temperature in various studies.
- 10/2002 Effect of Tramadol and Pethidine on Postoperative Shivering, 17th Iranian Congress of Anesthesia and Critical Care, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: In this study we found that there is no significant difference in anti shivering effect of pethidine and tramadol although some papers believe that tramadol is superior and the others say that pethidine is most efficacious. This discrepancy could be due to difference in age of patients, duration of operation, core and room temperature in various studies.
- 10/2002 Preoperative Cardiology Consultation, 1st International Congress of Anesthesiology and Perioperative Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: We found that pre op anesthesia consultations are biased by the cardiologist suggestions in the approach for type of anesthesia.
- 10/2002 A Study on the Items That Indicated in Preoperative Cardiology Consultation, 17th Iranian Congress of Anesthesia and Critical Care, Shiraz, Iran (Sole Presenter)
Details: We found that pre op anesthesia consultations are biased by the cardiologist suggestions in the approach for type of anesthesia.
- 11/1992 Iron Deficiency Anemia, national student research meeting, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: Discussing the updates in Iron deficiency Anemia and its pathophysiology.
- 11/1992 Steroid Side Effect, national student research meeting, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: Updates about side effects of Steroids in medicine.
- 11/1992 Acute Lymphocytic Leukemia, National student research meeting, Medical students, Shiraz University of Medical Sciences, Shiraz, Iran (Sole Presenter)
Details: Discussion of recent treatments and Pathophysiology of ALL for Physicians and Medical students

RESEARCH GRANTS:

Federal

Project #: W81XWH-14-2-0149

Funding Agency: Southwest Texas Regional Advisory Council

Title: A Study on the Effect of the Stabilization Collar on Cerebral Blood Flow.

Status: Pending

Period: 07/2016 - Present

Role: Co-Principal Investigator

% Effort: 10

Total Costs:

Grant Detail: Pending to approve : This Project is pending grant approval at this point. This project will attempt to define how various cervical stabilization collars affect the cerebral perfusion as a function of type, rigidity, and patient positioning. The process of protecting the spine during EMS transport after a traumatic event has become a focus recently. Historically, patients that have a suspected spinal fracture have been placed in a rigid cervical collar, positioned supine on a rigid long spine board, and the head secured with some type of padded foam headblocks. This process was executed on all potential spine trauma non-military patients regardless the mechanism of injury. Further, this transport mode was also recommended for any patient with traumatic head injury due to the potential for concomitant cervical spine injury. During Transport, a potential spinal trauma victim is subjected to multi-vectoral forces in all three axes of movement. The long spine board is intended to lessen the movement resulting from the vectoral forces, but does come with some significant limitations. One of the significant limitations is that the subject must be supine or very nearly supine, pregnant women typically have the board tilted 20 degrees to prevent the heavy uterus from compressing the abdominal vasculature. During ambulance acceleration and braking, the weight of the patient has a tendency to shift placing potential burden on the cervical spine to prevent compression of the spinal cord. The rigid cervical collar is intended to prevent the compression of the cervical spine.

Cervical collars are designed to fit around the neck to prevent movement of the head, and to provide support to any axial loading. To maximize effectiveness the cervical collar must be properly fitted, so as to provide the needed support without impinging blood flow into or out of the head, or airflow into and out of the chest. Properly sizing a cervical collar is not an always easily accomplished task. The collar must be fitted for proper height, as well as for proper tightness. Currently there are no guidelines as to how tight a cervical collar should fit to be functional. Too loose a fit the collar loses functionality, and to tight a fit, there are possible hemodynamic consequences as well as a decrease in patient comfort and compliance with the device.

The Ornim c-FLOW™ monitor is an FDA cleared non-invasive continuous real-time cerebral perfusion monitor. This monitor can assess changes of blood flow to the brain before and after application of several cervical collars, and as the patient positions changes from supine (with and without LSB), and as the head of the bed is elevated. The patient interface is via an electrode that is adhered to the skin. Perfusion is determined by using weak acoustic beams to identify light emerging from deep tissue layers. This project will study the effect of cervical collar application and subject positioning on cerebral blood flow.

Project #: W81XWH-12-C-0181

Funding Agency: Grant awarded by Department of Defense /US Army Institute for Surgical Research

Title: Physiological Effects of Intrathoracic Pressure Regulation in Patients with Brain Injury or Intracranial Pathology.

Status: Active

Period: 09/2014 - Present

Role: Principal Investigator

% Effort: 20

Total Costs: \$275,426.00

Grant Detail: This is a novel device that lowers the Intra cranial pressure . As the Principal Investigator of this project, I oversee the operation of this project at the University of Texas Health Science Center in San Antonio. In fact , our institution is the only center in the world that is conducting this novel project for lowering the intra cranial pressure (ICP). The CirQlator Intrathoracic Pressure Regulator (ITPR) has been developed indicated to increase circulation and blood pressure in non-spontaneously breathing patients when the patient has low blood circulation, including decreased circulation of blood to the brain. When inserted within a standard respiratory circuit between the patient and a ventilation source, the ITPR generates negative pressure during the expiratory phase, thus creating subatmospheric intrathoracic pressure between the periods of positive pressure ventilations. The increase in venous return results in increased circulation to the heart and brain. The current study is intended to evaluate the

hemodynamic effects of IPR therapy, in up to 30 patients with compromised cerebral circulation, in whom a functioning intracranial pressure-monitoring device is in place. The purpose of the study is to evaluate the physiological response to application of the ITPR in patients with compromised cerebral circulation. The study hypothesis is that the physiological effects of the ITPR will improve cerebral circulation, without negative impact on other physiologic parameters and without significant pulmonary or cardiac adverse events, in patients with brain injury or intracranial pathology. This Grant is supporting for salary of a research associate at UTHSCSA (\$25,000 for %25 of time) and so far we enrolled 2 patients in this study successfully.

Link :<https://clinicaltrials.gov/ct2/show/NCT02388880?term=ali+seifi&rank=1>

State

Project #: 117901

Funding Agency: SAGE Therapeutics

Title: A Study With SAGE-547 for Super-Refractory Status Epilepticus ClinicalTrials.gov Identifier: NCT02477618

Status: Active

Period: 01/2016 - Present

Role: Co-Principal Investigator **% Effort:** 20

Total Costs: \$200,000.00

Grant Detail: As the Co-PI I am overseeing the operation of this study during the patient's stay in ICU which is approximately 7 days for each patient. This is a Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of SAGE-547 Injection in the Treatment of Subjects With Super-Refractory Status Epilepticus . SAGE-547 is an allosteric modulator of both synaptic and extra-synaptic GABAA receptors under investigation as an adjunctive agent in the treatment of SRSE. SAGE-547 was granted orphan drug and fast-track designations by the FDA to expedite clinical development and review for SRSE. This study is with collaboration with Dr Lola Morgan, epileptologist/ neurologist at UTHSCSA and we have enrolled one patient so far. For more information please visit this site:

<https://clinicaltrials.gov/ct2/show/NCT02477618?term=SAGE&rank=4>

SERVICE

ADMINISTRATIVE RESPONSIBILITIES:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
09/2012-Present		Director of Neuro ICU	Director
		<p><i>As director of 18 bed neuro ICU I am responsible for daily activities of this unit including : Scheduling the call schedule for faculties, residents, midlevels and students. Also I oversee the daily operation of ICU such as admissions ,discharges, transfers and consultations. I am responsible for making ICU protocols , arrange meetings with other specialties and bringing new ICU equipments to university hospital. I am the Chair of Neuro critical care committee and conduct a meeting with all the neuro ICU leaders the last wednesday of each month and make plans and guidelines.</i></p> <p><i>As a neuro intensivist I do daily bedside rounds with a team including the residents in : neurology, neurosurgery, emergency medicine, anesthesiology , internal medicine and also medical students, pharmacy resident and pharmacist and respiratory therapist, physical therapist and nurses.</i></p>	
09/2012-Present		Intensive Care Unit Scheduler	Director

I am responsible to make the scheduling for monthly coverage of ICU by fellows, residents and midlevels . This is a challenging task, since these fellows and residents are rotating from six different departments and schools.

09/2012-Present Staff Supervised Clinical Operation Supervisor Administrator

I am responsible to supervise and meet with ICU nurse director and the charge nurses of the neuroscience in a daily and weekly basis to supervise the clinical operation of the unit and the nurses. Hiring new nursing staff and neuroscience staff.

PATIENT CARE:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
09/2012-Present	Inpatient	Patient Care	Physician

As Neuro Intensivist I am responsible to see the patients who have any traumatic brain injury, stroke, intra cranial bleeding and any other neurological emergencies in university hospital at San Antonio. I also meet the patient's family in a regular basis and arrange interdisciplinary meetings to make plan of care for these patients.

09/2012-Present	Outpatient	Patient Care	Physician
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As an Internist I am responsible to see out patients in RBG clinic at UT medicine and make plan of care and follow up them with internal medicine residents.

SERVICE TO THE INSTITUTION:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
11/2016-11/2016	University	Scrub Revolution in United States	Invited speaker

*Giving lecture to medical students MS1 and MS2 about whether people should wear scrubs in outside of hospital setting.
Discussion on my publication:
South Med J. 2016 May;109(5):326-7.
The Scrub Revolution: From Hospital Uniform to Public Attire.
Callahan BC1, Seifi A1.*

11/2016-11/2016	University	Neurology research opportunities	Invited speaker
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Giving lecture to Neurology residents PGY2,3,4 about the potential neurology research projects.

07/2016-07/2016	School	Control of Hypertensive Emergencies	Invited speaker
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Lecture to Emergency medicine faculties about updates on controlling hypertensive emergencies with focus on Stroke.

08/2015-08/2015	University	IIMS/CTSA Grant review	External Reviewer
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Selected Reviewer for the IIMS grant for Traumatic Brain Injury at UTHSCSA. Project Title: Longitudinal MRI evaluation of cerebral blood flow and vasoreactivity following traumatic brain injury.

06/2015-Present	University	Pulmonary and Critical Care Healthcare Cost and Utilization Projects	Mentor
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Educating and initiating multiple research projects based on HCUP with division of pulmonary and critical care at UTHSCSA, currently mentoring another junior faculty on a research project at the department of pulmonary and critical care : Holly Keyt, MD on Cystic Fibrosis demographics in United States.

04/2015-04/2015	School	Passport 2015, Poster Judge	Judge
<i>Judged Medical Student/Visiting Students research posters in an annual competition to select the best poster presentations</i>			
04/2014-12/2015	University	Mentor and Supervising Committee to PhD project of Amy Daali at Department of Electrical Engineering at UTSA	Advisory Committee Member
<i>Served as the supervising committee on dissertation of Amy Daali, PhD student at UTSA . Topic: PCA BASED ALGORITHM FOR LONGITUDINAL BRAIN TUMOR STAGE CLASSIFICATION AND DYNAMICAL MODELING OF TUMOR DECAY IN RESPONSE TO VB-111 VIROTHERAPY</i>			
06/2013-06/2016	University	Research Mentor, University of Texas School of Medicine	Mentor
<i>Responsible for mentoring 10 medical students on various research projects Amar Tomar, Christopher Thomas, Rafee Talukder, Kar-Wei Leung, Alex Ottesen, Michelle Rodriguez, Lacy Avila, Paola Mendez, Bill Wu and Gregory Stenoien</i>			
06/2013-01/2016	University	Mentor and Supervising Committee to PhD project of Nima Kordzadeh at Department of Cyber Security Engineering at UTSA	Advisory Committee Member
<i>Over the past decade, social media technologies have become effective tools not only for entertainment, but also for online health communications. In virtual health communities (VHCs), the members often share their personal health information (PHI) with other members. These information exchanges provide benefits to both the information providers as well as the recipients. The PHI disclosure, however, may entail privacy concerns. Our study used the privacy calculus model to examine the trade-off between the patients and healthcare.</i>			
01/2013-Present	University	Advisory Board, IC-MED journal, International Journal of Intelligent Computing in Medical Sciences and Image Processing	Advisory Board Member
<i>Responsible for selecting the suitable articles and publishing the journal International Journal of Intelligent Computing in Medical Sciences and Image Processing (IC-MED). This journal is under mentorship of the UTSA leadership.</i>			
<i>http://wacong.org/icmed/board.html Advisory Board</i>			
09/2012-Present	University	Updates on Non invasive ventilator systems	Lecturer
<i>Giving lecture on BiPAP machines to medical students and residents with actual demonstration of BiPAP machine to them .</i>			
09/2012-Present	University	Updates on Intracranial Bleeding	Lecturer
<i>Giving lecture to medical students and residents on clinical and pathophysiology of intra cranial bleeding.</i>			
09/2012-Present	University	Updates on Stroke and Vascular neurology	Lecturer
<i>Giving lecture to residents and medical students on Stroke syndromes and vascular anatomy .</i>			
09/2012-Present	Hospital	Updates on management of high Intra	Lecturer

cranial pressure

Giving lecture to residents and student on management of high ICP and new therapeutic modalities.

07/2012-Present Hospital Ventilator Management Lecturer

One hour didactics about various modes of Ventilator and how to manage the ventilator combined with practice on actual ventilator . Practicing board questions in this topic with residents and students.

01/1989-01/2002 University Student and Research Journal Editorial Board Member

Responsible for daily operation and preparing the monthly published Student and Research Journal

SERVICE TO THE PROFESSION:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
09/2016-09/2016 9/27/2016		Editor of Journal - "Neurosurgery and Spine Research"	Editor
09/2016-Present	International	Journal of Neurosurgery and Spine Research	Editorial Board Member
<i>Oversee the publications that are submitted in this journal and make decision on acceptance, rejection and also on the journal guidelines.</i>			
08/2016-08/2016	International	Review for Journal of Neurological Sciences	Journal Reviewer
<i>Reviewing the article : Factors that impact medical student and house-staff career interest in brain related specialties Journal of the Neurological Sciences</i>			
06/2016-07/2016	International	Journal of Neurosurgery and Neurology	Reviewer
<i>Incidence, risk factors and functional outcome in acute subdural hematoma with epileptic seizure: GATE 24-score for prophylactic antiepileptic treatment</i>			
05/2016-07/2016	International	Review for Journal of Critical Care	Reviewer
<i>Hematological counts as predictors of delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage</i>			
05/2016-06/2016	International	Review for Journal of Neurological Sciences	Reviewer
<i>Comparison of stent versus medical therapy for symptomatic patients with intracranial atherosclerotic stenosis: a meta-analysis</i>			
04/2016-04/2016	International	12th Emirates Critical Care Conference (ECCC)	Speaker
<i>Recognized International Speaker. Responsible for organizing a neuro critical care session with speakers for International Intensivist. I discussed about the treatments currently exist for controlling high Intra cranial pressure and novel treatments in future. ECCC is the largest critical care meeting in Asia and middle east.</i>			
04/2016-04/2016	International	Medscape News	Newsletter Editor
<i>NEW YORK (Reuters Health) - The incidence of iatrogenic pneumothorax has been higher at</i>			

teaching hospitals than at nonteaching hospitals every year since 2000, according to data from the Healthcare Cost and Utilization Project (HCUP) database.

"Patient safety indicators such as iatrogenic pneumothorax have significant implications for hospital ratings and reimbursements," Dr. Ali Seifi from the University of Texas Health Science Center at San Antonio told Reuters Health by email. "Accordingly, it is worth the healthcare provider's time and attention to take precautions and enhance existing protocols such that incidence of these complications is reduced, particularly in the teaching-hospital setting." [LINK](#)

<http://www.medscape.com/viewarticle/862016>

03/2016-06/2016	International	Peer review for journal of Neuro Critical Care	Reviewer
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Reviewing the following research article: Derivation of a predictive score for hemorrhagic progression of cerebral contusions in moderate and severe traumatic brain injury

02/2016-04/2016	International	Review for Journal of Neuro Critical Care	Reviewer
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reviewing the following manuscript: Cost and utility of microbiological cultures early after intensive care unit admission for intracerebral hemorrhage

01/2016-02/2016	International	Review for Journal of Clinical Therapeutics	Reviewer
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Comparison of the combination of Aprepitant, Dexamethasone and Promethazine versus the Combination of Ondansetron, Dexamethasone and Promethazine for the Prevention of Postoperative Nausea and Vomiting After Craniotomy Under General Anesthesia: A Prospective, Randomized, Double-Blinded Trial

01/2016-Present	National	Reviewer of Universal Journal of Public Health.	Reviewer
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Responsible to review new papers per year; Keep up to date on the research in your field; Get the advice and feedback from journal editors; Your name would be listed in the journal website; Provide an honest and constructive suggestion for improving the manuscript. Complete their reviews within the deadline. This position will commence in 01/01/2016 and conclude in 01/01/2021.

12/2015-12/2015	Local	Review for Journal of the Neurological	Reviewer
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*Recurrent Ischemic Stroke Can Happen in Stroke Patients Very Early after Intravenous Thrombolysis
12/14/2015*

12/2015-12/2015	National	Review for Journal of Neuro Critical Care	Reviewer
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*Cerebral Venous Thrombosis Associated with Intracranial Hemorrhage and the Timing of Anticoagulation after Hemicraniectomy.
12/14/2015*

12/2015-12/2015	National	Review for Journal of Neuro Critical Care	Reviewer
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Burst suppression for ICP control. 12/14/2015

12/2015-12/2015	International	Review for Journal of Neuro Critical Care	Reviewer
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Cerebral Venous Thrombosis Associated with Intracranial Hemorrhage and the Timing of Anticoagulation after Hemicraniectomy

11/2015-11/2015	National	Review of Neuro Open Journal	Reviewer
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MITOCHONDRIAL MYOPATHY IN OLD AGE: A CASE REPORT
11/17/2015

11/2015-11/2015	National	Review for Journal of Neuro Critical Care	Reviewer
<i>Adverse Outcomes after Initial Nonsurgical Management of Subdural Hematoma: A Population-Based Study. 11/10/2015</i>			
11/2015-11/2015	National	Review for journal of Neuro Critical Care	Reviewer
<i>Application of Tauroursodeoxycholic Acid for Treatment of Neurological and Non-neurological Diseases: Is There a Potential for Treating Traumatic Brain Injury? 11/10/2015</i>			
10/2015-11/2015	International	Review for Journal of Neuro Critical Care	Reviewer
<i>Application of Tauroursodeoxycholic Acid for Treatment of Neurological and Non-neurological Diseases: Is There a Potential for Treating Traumatic Brain Injury?</i>			
10/2015-10/2015	International	Review for journal of Neurology	Reviewer
<i>WERNICKE ENCEPHALOPATHY AND OTHER VITAMIN DEFICIENCIES IN A PATIENT WITH HOME PARENTERAL NUTRITION.</i>			
10/2015-10/2015	National	Review for Journal of Neuro Critical Care	Reviewer
<i>Endotracheal intubation in patients treated for prehospital status epilepticus 10/14/2015</i>			
10/2015-Present	International	Annals of Neurology and Neurosciences Journal	Editorial Board Member
<i>Writing, Editing and reviewing Neuroscience papers for this peer review journal.</i>			
09/2015-09/2015	National	KPCC- Southern California Public Radio	Invited speaker
<i>I was invited for this radio interview at KPCC station : When is it OK to Record Doctors orders interview done with the Public Radion Article in JAMA http://www.scpr.org/blogs/health/2015/09/09/18068/when-is-it-ok-to-record-your-doctor-s-orders/ 89.3 9/9/2015</i>			
09/2015-09/2015	International	Review for PLoS One	Reviewer
<i>Late post-conditioning with sevoflurane after cardiac surgery – are surrogate markers associated with clinical outcome?</i>			
09/2015-09/2015	International	Review for Southern Medical Journal	Reviewer
<i>Coenzyme Q-10 in Human Health: Supporting Evidence?</i>			
08/2015-08/2015	National	News Interview: Patient-Recorded Office Visits Concern Physicians - The Rheumatologist Publication	Invited speaker
<i>I was invited for the interview with this scientific journal : To try to stimulate conversations on these issues, Dr. Seifi joined with Michelle Rodriguez, JD, and a medical school student at UTHSCSA, and Jason Morrow, MD, PhD, from the school's Center for Medical Ethics and Humanities, to look at</i>			

these questions. The result was a Viewpoint article in the April 28, 2015, issue of the Journal of the American Medical Association.2
8/17/2015

08/2015-08/2015	National	Interview with journal of "The Rheumatologist"	Presenter
<i>http://www.the-rheumatologist.org/ Patient-Recorded Office Visits Concern Physicians. 8/17/2015 The result was a Viewpoint article in the April 28, 2015, issue of the Journal of the American Medical Association.2</i>			
08/2015-08/2015	Local	Review for IIMS/CTSA Pilot Project	Reviewer
<i>Longitudinal MRI evaluation of cerebral blood flow and vasoreactivity following traumatic brain injury 08/20/2015</i>			
08/2015-08/2015	National	Review for Neuro Open Journal	Reviewer
<i>RADIATION THERAPY AND NIMOTUZUMAB IN CHILDREN AND ADOLESCENTS WITH BRAINSTEM GLIOMAS. A 5-YEAR INSTITUTIONAL EXPERIENCE 8/12/2015</i>			
07/2015-07/2015	National	Review for Southern Medical Journal	Reviewer
<i>Coenzyme Q-10 in Human Health: Supporting evidence? 7/15/2015</i>			
07/2015-07/2015	National	Review for Journal of Anesthesia	Reviewer
<i>Future local anaesthetics- Neurotoxins? 7/15/2015</i>			
07/2015-07/2015	National	Review for Journal of Therapeutics	Reviewer
<i>Comparison of clevidipine versus sodium nitroprusside for treatment of post-operative hypertension in cardiac surgery patients 7/13/2015</i>			
07/2015-07/2015	International	Review for PLoS One	Reviewer
<i>Intravenous thrombolysis with recombinant tissue plasminogen activator for ischemic stroke patients over 80 years old: the Fukuoka Stroke Registry</i>			
07/2015-07/2015	International	Review for Journal of Neurological Science	Reviewer
<i>Recurrent Ischemic Stroke Can Happen in Stroke Patients Very Early after Intravenous Thrombolysis</i>			
06/2015-07/2015	International	Review for Journal of Neuro Critical Care	Reviewer
<i>Adverse Outcomes After Initial Non-Surgical Management of Subdural Hematoma: A Population-Based Study</i>			
06/2015-06/2015	National	Chicago Daily Herald	Presenter

Interview with Chicago Daily Herald news : Patients press the record button, patients make their physicians squirm.

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| 06/2015-06/2015 | National | Review of Journal of Neuro Critical Care | Reviewer |
| <i>Adverse Outcomes after Initial Non-Surgical Management of Subdural Hematoma: A Population-Based Study.</i> | | | |
| 6/10/2015 | | | |
| 06/2015-Present | International | Austin Neurology and Neuroscience Journal | Editorial Board Member |
| <i>Responsible for selecting the suitable articles and publishing the journal Austin Publishing Group , http://austinpublishinggroup.com/neurology-neurosciences/editorialBoard.php</i> | | | |
| 05/2015-06/2015 | International | Review for Journal of Neuro Critical Care | Reviewer |
| <i>Adverse Outcomes After Initial Non-Surgical Management of Subdural Hematoma: A Population-Based Study</i> | | | |
| 05/2015-05/2015 | National | The "Washington Post News" interview | Invited speaker |
| <i>I was invited to this interview with Washington Post News : Patients press the record button, making doctors squirm.</i> | | | |
| <i>Interview with Washington Post News, about Dr Seifi's article in JAMA .</i> | | | |
| <i>Link to the News:</i> | | | |
| <i>http://www.washingtonpost.com/national/health-science/patients-press-the-record-button-making-doctors-squirm/2015/05/11/7c200306-f33a-11e4-b2f3-af5479e6bbdd_story.html</i> | | | |
| 05/2015-05/2015 | National | WOAI Radio interview-2 | Speaker |
| <i>Interview for second time with this Radio station about my Article in JAMA and Washington Post news about Secretly recording the Physicians.</i> | | | |
| <i>http://www.woai.com/main.html</i> | | | |
| 05/2015-05/2015 | National | Rheumatologist Magazine Interview | Speaker |
| <i>Interview with Rheumatologist Magazine about secretly recording Physicians and the impact on healthcare.</i> | | | |
| 05/2015-05/2015 | International | Advisory Board Company | Speaker |
| <i>Interview with advisory board company about the legal aspects of recording the doctors by patients : "Should patients be allowed to record doctor visits? " Currently 12 states require patients to get permission from the doc before recording. For more information see the following link on this interview:</i> | | | |
| <i>http://www.advisory.com/daily-briefing/2015/05/13/should-patients-be-allowed-to-record-doctor-visits</i> | | | |
| 05/2015-Present | International | Clinical Therapeutics Journal | Journal Reviewer |
| <i>reviewing papers for the journal of Clinical Therapeutics</i> | | | |
| 04/2015-04/2015 | National | Review of Journal of Neuro Critical Care | Reviewer |
| <i>The association between spontaneous hyperventilation, delayed cerebral ischemia and poor neurological outcome in patients with subarachnoid hemorrhage.</i> | | | |
| 4/21/2015 | | | |

04/2015-04/2015	International	Review for PLoS One	Reviewer
<i>Distinguishable distribution of cerebral artery stenoses: ultrasonographic evidence from a northeast Chinese cohort.</i>			
04/2015-04/2015	International	Review of Journal on line	Reviewer
<i>Neurocysticercosis in a Native Caribbean woman living in New York: A Case Report.</i>			
4/10/2015			
03/2015-03/2015	Local	Review for Journal of Neurosurgery	Reviewer
3/30/2015			
03/2015-03/2015	International	Review for Journal of Neuro Critical Care	Reviewer
<i>The association between spontaneous hyperventilation, delayed cerebral ischemia and poor neurological outcome in patients with subarachnoid hemorrhage</i>			
02/2015-Present	International	Journal of Neuroscience and Rehabilitation	Board Member
<i>I give service to Journal of Neuroscience and rehabilitation as member of board and reviewer.</i>			
02/2015-Present	International	Libertas Academica-Journal of Case Reports	Journal Reviewer
<i>I give service to journal of Libertas Academica as reviewer.</i>			
02/2015-Present	International	Libertas Academica-Journal of Trauma and Intensive Care Medicine	Journal Reviewer
<i>I give service to journal of Libertas Academica as reviewer and board member.</i>			
02/2015-Present	International	Libertas Academica-Journal of Central Nervous System Disease	Journal Reviewer
<i>I give service to journal of Libertas Academica as reviewer.</i>			
02/2015-Present	International	Libertas Academica-Journal of Experimental Neuroscience	Journal Reviewer
<i>I give service to journal of Libertas Academica as reviewer and board member.</i>			
01/2015-01/2015	International	Journal of the Neurological Sciences	Journal Reviewer
<i>I was selected as "Recognized Reviewer" in 2015 by journal of neurological sciences.</i>			
01/2015-Present	National	Edorium Journal of Intensive Care	Editor-in-Chief
<i>Responsible for daly operation of this critical care journal, selecting the articles and reviewers and preparing the monthly issue of journal.</i>			
http://www.ejintensivecare.edoriumjournals.com/editorial-board.php			
01/2015-Present	International	Journal of Critical Care	Journal Reviewer
<i>Responsible for peer review of the articles for this highly rank critical care journal.</i>			
01/2015-Present	International	Clinical Medicine Journal	Editorial Board

Member

Responsible for selecting the suitable articles and publishing the journal.
<http://www.pubsciframework.org/>

01/2015-Present International Recognized Reviewer of year 2015 - Neuro Critical Care Reviewer

I was awarded as the "recognized reviewer" of the Year 2015 for the Journal of Neuro Critical Care

01/2015-Present International Recognized Reviewer of year 2015 - PLOS One Reviewer

I was awarded and selected as the recognized reviewer of the year 2015 for the journal of PLoS ONE

[http://click.e.plos.org/?](http://click.e.plos.org/?qs=27fc8e4f5a26b14a5eba4737ce47ae8fcfb78a133e3eb58a55a77ddc2f8ff14b77a567da18fd87cb)

[qs=27fc8e4f5a26b14a5eba4737ce47ae8fcfb78a133e3eb58a55a77ddc2f8ff14b77a567da18fd87cb](http://click.e.plos.org/?qs=27fc8e4f5a26b14a5eba4737ce47ae8fcfb78a133e3eb58a55a77ddc2f8ff14b77a567da18fd87cb)

10/2014-12/2014 International Review for Journal of Neuro Critical Care Reviewer

Endotracheal intubation in patients treated for prehospital status epilepticus

10/2014-Present International Neuro-Open Journal Editorial Board Member

Responsible for selecting the suitable articles and publishing the journal.
<http://openventio.org/EditorialBoard/Neuro.html>

09/2014-10/2014 State Texas Chapter American College of Physicians Reviewer and Judge. External Reviewer

On Monday September 8, 2014, you will be emailed your abstracts for review with a link to the scorecards (online form). Each group of judges will review a maximum of 8-10 abstracts. The scorecards must be submitted online no later than Thursday October 2. Each scorecard holds its own set of scoring criteria.

06/2014-07/2014 International Review for PLoS One Reviewer

Intravenous thrombolysis with recombinant tissue plasminogen activator for ischemic stroke patients over 80 years old: the Fukuoka Stroke Registry

06/2014-Present International Neuro Critical Care Journal Journal Reviewer

Reviewing scientific articles in peer review journal of Neuro Critical Care. I review 5-10 articles a year and has been selected as the recognized reviewer by the editor.

06/2014-Present International SpringerPlus Journal Journal Reviewer

Reviewing scientific articles in journal of SpringerPLus

05/2014-06/2014 International Review for Journal of Neuro Critical Care Reviewer

Biomarkers Improve Clinical Outcome Predictors of Mortality Following Non-Penetrating Severe Traumatic Brain Injury

04/2014-Present International Ommega Journal of Neurology and Brain Disorders Editorial Board Member

Responsible for selecting the suitable articles and publishing the journal.

<http://ommegaonline.com/form/journal.php?jid=16>

03/2014-03/2014	International	Review for Journal of Neuro Critical Care	Reviewer
<i>Biomarkers Improve Clinical Outcome Predictors of Mortality Following Non-Penetrating Severe Traumatic Brain Injury</i>			
01/2014-Present	International	PLos One journal	Journal Reviewer
<i>I collaborate with journal of PLoS One as reviewer, approxiamtely 4-5 papers a year.</i>			
01/2014-Present	International	Ommega Journal of Anesthesiology and Surgery,	Editorial Board Member
<i>Responsible for selecting the suitable articles and publishing the journal.</i> http://www.ommegaonline.com/form/journal-editorial.php?jid=15&indata=&page=2			
03/2011-03/2011	International	Review for Southern Medical Journal	Reviewer
<i>Atomoxetine and Myocardial Infarction</i>			
10/2010-10/2010	International	Review for Southern Medical Journal	Reviewer
<i>Short-term outcome of early electrical cardioversion for atrial fibrillation in hyperthyroid versus euthyroid patients</i>			
06/2009-07/2009	International	Review for Southern Medical Journal	Reviewer
<i>The Heimlich Maneuver: Breaking Down the Complications</i>			
05/2009-05/2009	International	Review for Southern Medical Journal	Reviewer
<i>Overuse of Acid Suppression Therapy in Hospitalized Patients</i>			
03/2009-03/2009	International	Review for Southern Medical Journal	Reviewer
<i>THE SITUATION WITH PAIN IN NURSING HOMES</i>			
01/2009-Present	International	Southern Medical Journal	Journal Reviewer
<i>Reviewing scientific articles for peer review journal of "Southern Medical Journal"</i>			
01/2002-01/2005	Local	Lar Anesthesiology Journal	Editorial Board Member
<i>Responsible for selecting the suitable articles and publishing the journal.</i>			

SERVICE TO THE PUBLIC:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
03/2015-03/2015	Health Education	Texas Public Radio- NPR	Invited speaker
<i>Live radio program discussing about my article on recording the physicians with phone by patients with answering questions to public live at the program . you can listen to this radio interview at :</i> http://tpr.org/post/source-would-you-record-your-doctor			
03/2015-03/2015	Health Education	WOAI Radio Interview -1	Invited speaker
<i>Speaking about the parents who will want to video record the doctors, published in JAMA .</i> http://jama.jamanetwork.com/article.aspx?articleid=2204226			

03/2014-03/2014 Community Doctor Day talk to school Children Speaker
I give service to the BASIS middle and high school in a regular basis. Giving talk to 100 children.

GRANT REVIEWS:

<u>Dates</u>	<u>Granting Agency</u>	<u>Panel Name</u>	<u>Role</u>
08/2015-11/2015	UTHSCSA	Institute for Integration of Medicine and Science (IIMS)	External Reviewer

PROFESSIONAL AFFILIATIONS:

<u>Dates</u>	<u>Organization</u>
01/2013-Present	Fellow of American College of Physicians (FACP)
01/2012-Present	Society of Critical Care Medicine (SCCM)
01/2011-Present	Neuro Critical Care Society
01/2009-Present	American Medical Association
01/2007-Present	Chair of AtlantiCare Research Committee
01/2007-Present	Chair of AtlantiCare Journal Club Committee
01/2002-01/2005	Lar Anesthesia Journal

Additional Details: Editorial Board

01/2002-Present	Iranian Society of Anesthesiology
01/1996-Present	Iranian Society of Physicians
01/1989-01/2002	Student and Research Journal

Additional Details: Editorial Board

COMMITTEES (UTHSCSA Standing Committees):

SCHOOL

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
09/2013-Present	Admissions Committee	Member at large
<i>I joined this committee since 2013 when Dr David Jones was the chair . Since that time I have actively participated in revising the medical school applications and interviewing the applicants. I have used novel methods for interview such as role play during interview which heard many positive feedback from the students. In this method I ask them to role play with me and put them on different challenging situations and ask them to come up with a solution. Since they are playing a scenario, this makes them more comfortable and also the responses come very spontaneous and more realistic. During past years I have done close to 100 interview that tens of them are our current medical students. Currently I am working under directorship of Dr Judianne Kellaway who is leading the admission , after departure of Dr Jones.</i>		

COMMITTEES (OTHER):

HOSPITAL

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
01/2013-Present	Critical Care committee, Baptist Health System, Critical Care	Member at large
<i>Critical Care committee at Baptist hospital makes the decisions on the clinical and administrative issues of critical care at the Baptist Health system in San Antonio. I represent as the Director of Neuro Critical Care at the Baptist health system and acting as a member and also giving consultation to the Neurosurgical Critical Care issues.</i>		
01/2007-12/2010	Journal Club Committee, AtlatiCare Hospital, Research	Chair
<i>Responsible for performing a monthly journal club meeting for residents during three years of my residency.</i>		
01/2007-01/2010	Research Committee, Atlanticare Hospital	Chair Elect
<i>Responsible for monthly meeting with residents and hospital research committee, making research projects and supervising the progress.</i>		

UNIVERSITY

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
03/2016-Present	Neurosurgery Program Evaluation Committee (PEC), University of Texas Health Science Center, UTHDCSA, Neurosurgery	Member
<i>Evaluation of neurosurgery residents and their progress in this filed in a regular basis with collaboration with other neurosurgery faculties.</i>		

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|--|---|-----------------|
| 01/2014-Present | MD with Distinction Research Committee, Vice Chancellor for Research, University of Texas Health Science Center | Member |
| <i>This committee meets and select the Medical Students within the institution who were interested to get into the MD with research distinction, review the applications and make decision for the final selection. Also, this commute review the progress of these students and read and evaluate the projects at the time of graduation.</i> | | |
| 09/2012-Present | Neuro Critical Care Committee, University of Texas Health Science Center, Neurosurgery | Chair |
| <i>This committee oversees the operation of all patients who come to Neuro ICU at University Hospital. As the Director of Neuro ICU , I oversee the operation, bed flow and hiring and recruiting new nurses and staff and making the schedule of ICU for residents and faculties .</i> | | |
| 08/2012-Present | Medical Record Committee, UTHSCSA, Medical Documentation | Member at large |
| <i>The medical records committee will have oversight for the organization's ongoing records review program, the review and approval of forms and format for the medical record, including electronic applications. Scope All types of medical records and related functions, including paper based and electronic. Responsibilities Coordination and oversight of the organization's ongoing records review program includes: Establishing the calendar for reviews Assisting with topic and indicator selection Establishing focused reviews Analyzing data from reviews, and taking action as soon as appropriate Conducting point of care reviews using the tracer methodology Reporting to appropriate organization and medical staff committees Review and approval of forms and format for the medical record, including electronic applications Review of the monthly delinquent record statistics and taking action as needed Other duties as relate to the documentation, use, and storage of medical records</i> | | |
| 01/1989-01/1996 | Student Research Committee, Shiraz University, Shiraz University | Chair |
| <i>I was the founder of the Student and research committee at Shiraz University and also the Editorial Board of student Research Journal. Responsible for the daily operation of this research foundation .</i> | | |