

APRIL 20-22, 2022

THE NINTH ANNUAL
NEURO ICU SYMPOSIUM

Soaring to New Heights in Neurocritical Care

InterContinental Hotel - Medical Center, Houston, Texas, U.S.A.



 UTHealth Houston
Neurosciences

2022 Neuro ICU Symposium

Date

April 20-22, 2022

Location

InterContinental Hotel - Medical Center
6750 Main Street
Houston, Texas 77030

Course Description

The ninth annual Neuro ICU Symposium is our successful 2½ day CME course designed to educate physicians and other health care professionals on how to optimally manage patients using a team approach and evidence-based medicine. This year's emphasis will be on envisioning the future of Neuro ICU care, focusing on comprehensive patient care and optimizing critical care delivery. The course is now at the Texas Medical Center and has many exciting highlights: the results of the BEST-MSU trial, updated surviving sepsis guidelines, exploration of consciousness, and the international consensus statement on brain death. Popular sessions from previous years including real patient experiences, simulation workshops, and crossfire debates will also return.

Learning Objectives

As a result of attending this symposium, participants will:

1. Discuss the latest evidence-based and cutting-edge medical literature in acute neurological and neurosurgical emergencies and discuss how to resuscitate patients with injured brains due to various etiologies.
2. Describe the hot topics in neurological and neurosurgical emergencies and recommendations for management.
3. Treat multiple end-organ system failure that occurs in patients with acute brain injury.
4. Develop appropriate strategies for incorporating evidence-based protocols into clinical management through the use of case-based learning and real-life examples.
5. Apply the latest evidence on endovascular therapy when caring for patients.

Audience

- General and consult neurologists, stroke neurologists, neurointensivists
- General, vascular, spine, and trauma neurosurgeons
- Pulmonary critical care medicine physicians and respiratory therapists
- Surgical critical care and general / trauma surgeons
- General anesthesiologists and anesthesiology critical care medicine physicians
- Emergency medicine physicians
- Respiratory therapists
- Critical care registered nurses, neurological nurses
- Acute care nurse practitioners, physician assistants
- EMTs and paramedics
- Pharmacists
- Physicians and surgeons in training

2022: Soaring to New Heights in Neurocritical Care

New This Year: BEST-MSU Trial Results.

Late-breaking science from a major clinical trial in Houston. Hear from the primary investigators.

New This Year: World Brain Death Project.

The first international consensus statement on the diagnosis of brain death. Hear from the senior author on this groundbreaking collaboration.

New This Year: Surviving Sepsis.

Learn about the new 2021 surviving sepsis guidelines.

New This Year: What Is Consciousness?

Examination of consciousness and emerging therapies.

New This Year: Focus on CNS Malignancies.

Neuro-oncology and the challenges of end-of-life care.

Different Viewpoints

Experts present different approaches to challenging clinical cases.

Simulation Labs

Hands-on workshops in small groups with our experts.

Crossfire Debates

The experts debate controversial issues in neurocritical care. The audience vote will determine winners.

Back by Popular Demand: The Patient Experience

Patients share what illness is like, from their perspective.



Course Director

Tiffany R. Chang, MD
 Associate Professor of Neurosurgery and Neurology
 Director, Neurocritical Care Fellowship Program
 Department of Neurology and Vivian L. Smith
 Department of Neurosurgery
 McGovern Medical School at UTHealth Houston
 Memorial Hermann-Texas Medical Center
 Houston, Texas



Course Co-Director

George Williams, MD, FASA, FCCM, FCCP
 Associate Professor of Anesthesiology and Surgery
 Vice Chair for Critical Care Medicine,
 Department of Anesthesiology
 McGovern Medical School
 Medical Co-Director, Surgical Intensive Care Unit-
 Harris Health Lyndon B. Johnson Hospital
 Medical Director, Donor Specialty Care Unit-
 Memorial Hermann-TMC
 Houston, Texas



Course Co-Director

Ryan Kitagawa, MD
 Associate Professor of Neurosurgery
 Vivian L. Smith Department of Neurosurgery
 McGovern Medical School
 Memorial Hermann-TMC
 Houston, Texas

Invited Faculty Speakers



Romergrzyko Geocadin, MD, FNCS, FAAN, FANA
 Professor of Neurology, Anesthesiology-Critical Care,
 Neurosurgery and joint appointment in Medicine
 Attending Neurointensivist, Division of
 Neurosciences Critical Care
 The Johns Hopkins University School of Medicine
 Past President, Neurocritical Care Society
 Baltimore, Maryland



Thomas Delmas, MD
 Director, Neuroscience ICU
 Pulmonary & Critical Care
 Baylor Scott & White Memorial Hospital
 Tyler, Texas



Gene Sung, MD, MPH
 President, World Federation of Intensive and
 Critical Care
 Neurocritical Care and Stroke Division
 University of Southern California
 Los Angeles, California



David Okwudi Okonkwo, MD, PhD
 Director, Neurotrauma Clinical Trials Center
 Professor of Neurological Surgery
 University of Pittsburgh Physicians
 Department of Neurological Surgery
 Pittsburgh, Pennsylvania

Faculty Speakers

- **Salman Arain, MD**, Associate Professor, Cardiovascular Medicine, Department of Internal Medicine, McGovern Medical School
- **Carrie Bakunas, MD**, Assistant Professor, Department of Emergency Medicine, McGovern Medical School
- **Angel Blanco, MD**, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Ritvij Bowry, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery and Neurology, McGovern Medical School
- **Robert J. Brown, MD**, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Akshay Chaku, MD**, Assistant Professor, Critical Care Medicine, Department of Anesthesiology, McGovern Medical School

Faculty Speakers *(continued)*

- **Tiffany R. Chang, MD**, Associate Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, Director of Neurocritical Care Fellowship Training Program, McGovern Medical School
- **P. Roc Chen, MD**, Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **H. Alex Choi, MD**, Associate Professor and Vice Chair, Neurocritical Care, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Mark Dannenbaum, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Arthur Day, MD**, Professor and Vice Chair, Vivian L. Smith Department of Neurosurgery, Director of Neurosurgery Residency Training Program, McGovern Medical School
- **Aaron Gusdon, MD**, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Ryan Kitagawa, MD**, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Swathi Kondapalli, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Abhay Kumar, MD**, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Rishi Kumar, MD**, Assistant Professor, Department of Anesthesiology, McGovern Medical School
- **Ana Leech, MD**, Associate Professor, Geriatric and Palliative Medicine, Department of Internal Medicine, McGovern Medical School
- **Erika Quinn, ACNP**, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Deepa Raghunathan, MD**, Assistant Professor, Cardiovascular Medicine, Department of Internal Medicine, McGovern Medical School
- **Roy Riascos-Castaneda, MD**, Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Ryan Rihani, MD**, Assistant Professor, Critical Care Medicine, Department of Anesthesiology, McGovern Medical School
- **Anjail Sharrief, MD, MPH**, Associate Professor, Department of Neurology, McGovern Medical School, Director of Stroke Prevention, UTHealth Houston Institute of Stroke and Cerebrovascular Disease
- **Sunil Sheth, MD**, Associate Professor, Department of Neurology, Co-Director of Vascular Neurology Fellowship Program, McGovern Medical School
- **Ryan Stork, MD**, Assistant Professor, Department of Physical Medicine and Rehabilitation, Co-Director of Medical Student Experience, McGovern Medical School, Attending Physician, Brain Injury Program, TIRR Memorial Hermann
- **Nitin Tandon, MD**, Professor and Chair *ad interim*, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **Luis Torres, MD**, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School
- **George Williams, MD**, Associate Professor of Anesthesiology and Surgery, Vice Chair for Critical Care Medicine, Department of Anesthesiology, McGovern Medical School, Medical Co-Director, Surgical Intensive Care Unit- Harris Health Lyndon B. Johnson Hospital, Medical Director, Donor Specialty Care Unit-Memorial Hermann-TMC
- **Roy Zhang, MD**, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School

Memorial Hermann-Texas Medical Center Speakers

Teresa Allison, PharmD, BCPS, BCCCP, Critical Care Clinical Specialist, Neurosciences, Memorial Hermann-Texas Medical Center

James C. Grotta, MD, Director of Mobile Stroke Unit Consortium, Director of Stroke Research, Clinical Innovation and Research Institute, Vascular Neurologist, Memorial Hermann-Texas Medical Center

Heather Hull, RN, Memorial Hermann-Texas Medical Center

Coleen Picciotti, RN, Memorial Hermann - Texas Medical Center

Rachael Sabido, RN, Memorial Hermann - Texas Medical Center

2022 Annual Meeting Committee

Tiffany Chang, MD, Associate Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School

Ryan Kitagawa, MD, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School

George Williams, MD, Associate Professor, Department of Anesthesiology, McGovern Medical School

Angela Lehla Benavides, RN, BSN, Memorial Hermann-Texas Medical Center, Houston, Texas

Janine Le, Marketing Coordinator, UTHealth Houston Neurosciences, McGovern Medical School

Sabah Mimid, Administrative Coordinator, Neurocritical Care, Vivian L. Smith Department of Neurosurgery, McGovern Medical School

Arnoldo Pardo, RCP, RRT, Memorial Hermann-Texas Medical Center, Houston, Texas

Alisse Pratt, Marketing Director, UTHealth Houston Neurosciences, McGovern Medical School

Glenda Torres, MS, Research Coordinator, Neurocritical Care, Vivian L. Smith Department of Neurosurgery, McGovern Medical School

Sarah Wall, APRN-C, Vivian L. Smith Department of Neurosurgery, McGovern Medical School

CME/CE Information

Physicians

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Antidote Education Company and UTHealth Houston Neurosciences.

Antidote is accredited by the ACCME to provide continuing medical education for physicians. Antidote designates this live activity for a maximum of 16.0 *AMA PRA Category 1 Credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nurses

An application for nursing credit has been submitted.

Registration Information

To register, visit UTneuroicussymposium.org.

Registration Fees

	In-Person Event Registration	Virtual Registration
Physician	\$495	\$295
Nurse or Health Care Professional	\$275 1 Day: \$175	\$175 \$100
Industry Professional, Administration, Non-Clinical	\$675	\$395
Residents and Fellows	\$100	\$50

There is no fee for medical students to attend the 2022 Neuro ICU Symposium. Please email registration@antidotecme.com from your institutional email address to receive registration information.

***Employed individuals who are only part-time students are not considered full-time students and will be subject to a fee based on their status.**

Disclosure

The Neuro ICU Symposium adheres strictly to the regulations and policies set forth by the ACCME and the Texas Medical Association. In order to maintain independence, fair balance, and validity, all program content is reviewed by Antidote Education Company. All faculty speakers, annual meeting committee members, and coordinators are obligated to fully disclose any potential conflicts of interest in providing support and/or content for this educational event.

Message from the Chair



Welcome to the ninth annual Neuro ICU Symposium in Houston! Our conference continues to grow and evolve every year. We welcome attendees from diverse backgrounds and professions within the medical field. Our symposium is one of the most popular neurocritical care conferences in the country! This year, we aim to soar to new heights of Neurocritical Care.

We are offering a 2½ day journey to the frontier of our specialty. Learn about state-of-the-art management of brain and spinal cord trauma from leaders in the field. We will have a session dedicated to the exploration of consciousness and emerging therapies for coma. For the first time, we will examine neuro-oncology in the ICU and end-of-life care. Comprehensive sessions on vascular neurology, neurotrauma, and critical care medicine form the foundation of our program.

This year, we will feature the recently released results of the BEST-MSU trial. You will hear about the impact of mobile stroke units on acute stroke care directly from the primary investigators here at McGovern Medical School at UTHealth Houston. Our conference strives to present the most current data and latest breakthroughs in neurocritical care. We will also review the updated 2021 surviving sepsis guidelines and the first international consensus statement on the diagnosis of brain death.

Real life patient experiences are always a highlight of our program and will be back by popular demand this year. These courageous stories will change your perspective on neurological illness. We will also present expert options on hot management topics from leaders in the field. This will include the popular “different viewpoints” and “crossfire debate” sessions. Simulation sessions will allow for hands-on learning experiences in small groups with our faculty. Our leaders in neuroscience nursing will provide expert advice on running a premier Neuro ICU. Test and apply your new knowledge in our fun neuroscience trivia game break!

The Neuro ICU has become an exciting place for the clinicians, nurses, and staff who care for our patients. Each day of the symposium, our program is full of dynamic speakers with opportunities for audience involvement. Please join us for this exciting ninth annual Neuro ICU Symposium in Houston!

Tiffany R. Chang, MD

Course Director and Committee Chair
Ninth Annual Neuro ICU Symposium
Associate Professor of Neurosurgery and Neurology
Director, Neurocritical Care Fellowship Program
Department of Neurology and
Vivian L. Smith Department of Neurosurgery
McGovern Medical School at UTHealth Houston

Program Schedule

DAY ONE: Wednesday, April 20, 2022 Acute Care of Neurologic Injury

8 a.m.	Continental Breakfast and Registration
9 a.m.	Welcome remarks <i>Tiffany Chang, MD</i>

A.M. Session: Vascular Neurology

Vascular neurology is a continuously changing field. Catch up on what's new and learn about the future direction of acute stroke management.

Moderators: Tiffany Chang, MD, and James Grotta, MD

9:05 a.m.	BEST-MSU Trial: Results from the Country's First Mobile Stroke Unit in Houston – <i>Ritvij Bowry, MD, and James Grotta, MD</i>
9:30 a.m.	How to Use Advanced Neuroimaging in Acute Ischemic and Hemorrhagic Stroke – <i>Sunil Sheth, MD</i>
9:55 a.m.	Different Viewpoints: Vasospasm and Delayed Cerebral Ischemia Management in SAH
9:55-10:10 a.m.	Medical Approach – <i>Robert Brown, MD</i>
10:10-10:25 a.m.	Endovascular Approach – <i>P. Roc Chen, MD</i>
10:25 a.m.	Panel Discussion / Q&A
10:35 a.m.	Break
11:05 a.m.	Long-Term Cognitive Outcomes after Acute Ischemic Stroke – <i>Anjail Sharrief, MD, PhD</i>
11:30 a.m.	Special Lecture 1: Introduction by <i>Tiffany Chang, MD</i> The Patient Experience: Acute Ischemic Stroke – <i>Glenda Torres, MS</i>
Noon	Panel Discussion / Q&A
12:10 p.m.	Lunch

P.M. Session: Neurotrauma

Management of trauma patients is complex, even if you work in a high volume center. Expert opinion can help bridge the gap when there is a lack of evidence.

Moderator: Ryan Kitagawa, MD

1:10 p.m.	Evaluation and Resuscitation of the Neurotrauma Patient in the ED – <i>Carrie Bakunas, MD</i>
1:35 p.m.	Neurosurgery for the Neurointensivist: Emergent Surgical Decisions in TBI – <i>Ryan Kitagawa, MD</i>
2 p.m.	Special Lecture 2: Introduction by <i>Ryan Kitagawa, MD</i> Management of Traumatic Brain and Spinal Cord Injury: State-of-the-Art Neuromonitoring and Neurocritical Care – <i>David Okonkwo, MD, PhD</i>
2:30 p.m.	Panel Discussion / Q&A
2:40 p.m.	Break
3:10 p.m.	Medical Complications of Severe Brain Injury – <i>Swathi Kondapalli, MD</i>
3:35 p.m.	Neurorehabilitation of the Brain and Spinal Cord Trauma Patient – <i>Ryan Stork, MD</i>
4 p.m.	On the Horizon of Critical Care: Impact of the Microbiome in Brain Injury – <i>H. Alex Choi, MD</i>
4:25 p.m.	Panel Discussion / Q&A
4:35 p.m.	Adjourn
5 p.m.	Opening Night Welcome Reception and Exhibition Poster Presentation (all invited)
7 p.m.	Invited Speakers Dinner (by invitation only)

Program Schedule

DAY TWO: Thursday, April 21, 2022 Comprehensive Care for the Neuro ICU Patient

7 a.m. **Continental Breakfast and Registration**

A.M. Session 1: Critical Care Medicine

Neurointensivists take care of the entire patient and not just the brain. Special considerations in management must be taken in the setting of brain injury and multiorgan failure. Ongoing clinical trials will pave the direction of ICU care.

Moderator: George Williams, MD

8 a.m. Neurocardiology? The Brain and Heart Can Work Together –
Deepa Raghunathan, MD

8:25 a.m. **Special Lecture 3:** Introduction by *George Williams, MD*
Surviving Sepsis Guidelines: 2021 Update – *Thomas Delmas, MD*

8:55 a.m. Different Viewpoints: Coagulopathy Management in the Setting of
Intracranial Bleeding

8:55-9:10 a.m. Approach to Anticoagulant Reversal – *Tiffany Chang, MD*

9:10-9:25 a.m. Blood Product Management in Traumatic Coagulopathy and Cirrhosis –
Abhay Kumar, MD

9:25 a.m. Ways to Not Miss a Beat: Bedside Hemodynamic Monitoring – *Rishi Kumar, MD*

9:50 a.m. **Panel Discussion / Q&A**

10 a.m. **Break - Exhibit hall open**

A.M. Session 2: Game Break!

Let's take a break and have some fun! Participate and test your knowledge during our annual neuroscience trivia game.

10:30 a.m. Neuroscience Trivia – *Neuroscience nursing team*

A.M. Session 3: Exploration of Consciousness

How do we define and evaluate consciousness? Is there anything we can do about coma? Our experts will explore what's on the horizon.

Moderator: Aaron Gusdon, MD

11 a.m. Awareness of Consciousness – *Aaron Gusdon, MD*

11:25 a.m. Neuroimaging in Disorders of Consciousness – *Roy Riascos-Castaneda, MD*

11:50 a.m. **Special Lecture 4:** Introduction by *Aaron Gusdon, MD*
Novel Therapies for Emergence from Coma – *Romer Geocadin, MD*

12:20 p.m. **Panel Discussion / Q&A**

12:30 p.m. **Lunch**

P.M. Session: CNS Malignancies and End-of-Life Care

Malignancies have widespread effects and often require ICU level care. It is important that intensivists understand the medical and surgical management of CNS malignancies. Hear what it is like to battle glioblastoma from the patient's perspective.

Moderators: Luis Torres, MD, and Roy Zhang, MD

1:30 p.m. What's New with High Grade Gliomas? – *Nitin Tandon, MD*

1:55 p.m. Radiation Oncology Emergencies – *Angel Blanco, MD*

2:20 p.m. **Special Lecture 5:** Introduction by *Angel Blanco, MD*
The Patient Experience: Glioblastoma – *Holland Family*

2:50 p.m. **Panel Discussion / Q&A**

3 p.m. **Break - Exhibit hall open**

3:30 p.m. Supportive Medicine in the Neuro ICU: Should We Be Talking About This Sooner?
– *Ana Leech, MD*

3:55 p.m. **Special Lecture 6:** Introduction by *Luis Torres, MD*
The World Brain Death Project: International Consensus Statement – *Gene Sung, MD*

4:25 p.m. Getting More from Less: Optimal Organ Donor Management – *George Williams, MD*

4:50 p.m. **Panel Discussion / Q&A**

5 p.m. **Adjourn**

Program Schedule

DAY THREE: Friday, April 22, 2022

7 a.m. **Continental Breakfast and Registration**

A.M. Session 1A: Simulation Labs and Workshops – Parallel Session

Join us for fun and interactive simulation labs and workshops. In just an hour, you will familiarize yourself with airway management, hemodynamic monitoring, and bedside cranial procedures.

Moderator: Swathi Kondapalli, MD

8 a.m. Intubation and Airway Management –
George Williams, MD; Akshay Chaku, MD; and Ryan Ribani, MD
 Critical Care Ultrasound – *Luis Torres, MD, and Roy Zhang, MD*
 Bedside Intracranial Procedures and Monitoring –
Ryan Kitagawa, MD, and Mark Dannenbaum, MD

A.M. Session 1B: Neuroscience Nursing – Parallel Session

Nurses are often the first person to notice when a patient has changed condition. Get some tips on picking up neuro changes at the bedside. Don't panic when an emergency happens – if you have a plan, there does not need to be chaos.

Moderator: Erika Quinn, ACNP

8 a.m. Bedside Nursing Neurologic Assessment – *Coleen Picciotti, RN*
 8:20 a.m. Managing an External Ventricular Device at the Bedside – *Erika Quinn, ACNP*
 8:40 a.m. How to Educate Neuroscience Nurses and Run a Neuroscience ICU –
Rachael Sabido, RN

A.M. Session 2: Unbelievable Stories from the Neurocritical Care Unit

What would you do? Hear about real-life cases from the Neuro ICU.

Moderator: H. Alex Choi, MD, MS

9 a.m. Patient 1 – *Luis Torres, MD*
 9:20 a.m. Patient 2 – *Gene Sung, MD*
 9:40 a.m. Patient 3 – *Romer Geocadin, MD*
 9:50 a.m. **Panel Discussion / Q&A**
 10 a.m. **Break - Exhibit hall open**

A.M. Session 3: Crossfire Debates – Hot Topics and Controversies

The main event: Experts in neurocritical care will argue both sides of these current issues. You get to hear them and vote for winners!

Moderator: Tiffany Chang, MD

Panel *George Williams, MD, Swathi Kondapalli, MD, and Ryan Kitagawa, MD*
 10:30 a.m. There is Still a Role for Targeted Temperature Management After Cardiac Arrest
 Yes – *H. Alex Choi, MD*
 No – *Romer Geocadin, MD*
 11 a.m. Factor Xa Inhibitors Should be Reversed with Andexanet Alpha in Intracerebral Hemorrhage
 Yes – *Gene Sung, MD*
 No – *Teresa Allison, PharmD*
 11:30 a.m. In the Future, All Aneurysms Will Be Treated Endovascularly
 Yes – *James Grotta, MD*
 No – *Arthur Day, MD*
 Noon **Adjourn**



Travel and Hotel Accommodations

InterContinental Hotel – Medical Center

6750 Main Street
Houston, Texas 77030

Be sure to reserve your hotel rooms early!

Rooms are available to exhibitors, sponsors, and participants until the designated block of rooms is reserved or up to April 8, 2022. The group rate for a single/double is \$199.

Reserve your room online at <https://bit.ly/2022NeuroSymposiumHotel>

Visit our 2022 Neuro ICU Symposium website to receive exclusive event information, including:

- Detailed conference schedule
- Speaker bios, topics, and notes
- Venue maps and information

And much more!

[UTneuroicusymposium.org](https://bit.ly/2022NeuroSymposiumHotel)

About UTHealth Houston Neurosciences

The providers at UTHealth Houston Neurosciences have a reputation for innovation, high-quality outcomes and the best possible health care experiences, which draws patients from around the world. The group's clinicians, researchers, and educators are nationally recognized for leading-edge medicine and consistently ranked by quality benchmarking organizations as leaders in clinical quality and patient safety. Their insights, technological innovations, and success at applying research findings at the bedside are transforming the field of neuroscience.

Part of McGovern Medical School at UTHealth Houston, the program is Houston's undisputed leader in neuroscience care and the foremost neuroscience provider in the southern half of Texas. The group has extended its continuum of care across the region, creating a citywide network of neurologists, neurosurgeons, neurointerventionalists, neuro-oncologists, interventional pain management specialists, and advanced practitioners – and reduced referral wait times – by building a new structure for the practice of neurology in the community. These providers analyze quality data and track outcomes as a group to continually modify clinical practice and ensure exceptional patient experiences.

This comprehensive, integrated approach led to the creation of the Southwest's leading epilepsy program, a highly ranked neurotrauma program, a leading Comprehensive Stroke Center, a cerebrovascular center where physicians treat more aneurysms and arteriovenous malformations than any other center in the region, an established pediatric neurosurgery program in collaboration with Children's Memorial Hermann Hospital and The University of Texas MD Anderson Cancer Center, an unmatched spinal neurosurgery and reconstructive peripheral nerve surgery program, and a Brain Tumor Center, where physicians diagnose and treat hundreds of new tumor patients each year. Physicians are also innovators in the treatment of multiple sclerosis, movement disorders, neurocognitive disorders, memory disorders and dementia, neuromuscular diseases, chronic pain, and traumatic brain injury.

Through its telemedicine and neurocritical care programs, the group offers patients in outlying communities access to stroke, neurology, and critical care expertise, as well as opportunities to participate in clinical trials. In addition, UTHealth Houston physicians are reaching larger numbers of people and engaging them in a powerful way through patient access portals on the group's website.

Through the Innovation and Quality (IQ) Program, the group's leaders are organizing data to improve physician and service performance, fostering innovative ways to measure quality and track long-term outcomes, and increasing infrastructure support to enable faculty at McGovern Medical School to conduct more clinical trials and patient-centered research. The results of these novel treatments are quickly transitioned to clinical practice.



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$\frac{20}{100}$	NS	2
$\frac{20}{70}$	ICU	3
$\frac{20}{50}$	NCSE	4
$\frac{20}{40}$	SAHICP	5
$\frac{20}{30}$	TBIGBM	6
$\frac{20}{25}$	EEGICH	7
$\frac{20}{20}$	2022	8

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