Ayer Neuroscience Institute
Research Newsletter
Neurosurgery Focus
Fall 2022

Hartford HealthCare
Ayer Neuroscience Institute
Welcome to the first edition of the Hartford HealthCare Ayer Neuroscience Institute Research Newsletter. We have launched this as a platform to keep you informed, engaged and connected with all of the great work, and people, that make up our research programs and teams across the Institute. In this first edition, we are highlighting the current Neurosurgery research efforts taking place across the system. In future newsletters, we will also include research efforts within Neurology and Pain Management.

Given the expansive endeavors in Neurosciences research, this newsletter will be published on a quarterly cadence to share the incredible work and accomplishments our team is doing. In each edition, we will highlight:

- Research team spotlights
- Active research endeavors by our investigators across all NSI specialties
- Submitted grant applications
- Current peer-reviewed publications
- External and Academic collaborations
- Partnership with universities, commercial and private entities, as well as students, residents, fellows, faculty and other personnel involved in research

We are collectively working towards the common goals of supporting the growth of the Ayer NSI research, promote multidisciplinary collaboration and mentorship, and enhance the culture of research across the Institute. It is our privilege to support our clinicians and research colleagues as they contribute to the advances in neurosciences and improve care for our patients.

Finally, we want to make this newsletter valuable to all of you. If you have something to share or feedback for what you would like to hear more about, please contact us at any time.

We are excited and proud to share the great research taking place within the Ayer NSI!

Sincerely,

Dr. Khalid Abbed  
Dr. Mark Alberts  
Wendy Elberth
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Dear Friends and Colleagues,

The past year has shown tremendous growth in our research endeavors in the Ayer Neuroscience Institute. Among the achievements include over 30 peer reviewed publications among the neurosciences attendings. Under the esteemed guidance of Dr. Nabil Matmati, our Director of Clinical Research, we have nationwide collaborations with five universities, three ongoing sponsored clinical trials, and we have applied for several grants.

The areas of research range broadly from improving access to care for our underserved communities, improving the collection of patient reported outcomes, innovative techniques in neurology, cranial neurosurgery and spine surgery, and the creation of an international checklist for safety in complex spine surgery in collaboration with prominent US and international institutions. We have undergraduates and medical students participating in these endeavors from University of Connecticut, Quinnipiac University, Lake Erie College of Osteopathic Medicine, Vanderbilt University, Binghamton University, Stony Brooke University, and the University of Wisconsin, Madison.

During the current academic year, we are eager to build on our successes, increase our collaboration throughout Hartford HealthCare as well as within the state, throughout the country and internationally. We will continue to build our publications repertoire and continue to apply for grants that will help us further this work.

The largest driver of our success has been our team. Dr. Nabil Matmati has tirelessly worked to make all of these efforts a reality. He is a true champion of research and innovation. Reilley Mokanyk, our data analyst, has been with us for ten months, and she has made a tremendous impact on our ability to obtain and analyze data for all of these projects. As our team grows, we are proud to grow our impact at Hartford HealthCare in neurology, neurosurgery and pain management.

Sincerely,

Vijay Yanamadala, MD, MBA, FAANS
Dear Friends and Colleagues,

I am happy to share with you our first Clinical Research Newsletter edition for the Ayer Neurosciences-Neurosurgery. Our main aim is to make the Neurosurgery Clinical Research visible to all our colleagues in the Hartford HealthCare System. My hope is that this publication will increase awareness and foster collaboration among neurosurgeons and researchers interested in starting clinical research projects in the Neurosurgery field.

In this past year and a half, my role was to build and create Neurosurgery clinical research support and capability for our physicians with the support of Dr. Vijay Yanamadala, a champion in Neurosurgery research. Today, we have secured one privately sponsored clinical study (BIA-GEN study), one internal grant funded study (Equity in Spine Care study) and one Principal Investigator initiated study (Short and Long Term Outcomes of Spine Surgery). This is a very exciting time in the Ayer Neurosciences-Neurosurgery Clinical Research, and I am thrilled to be part of this effort and contribute to the improvement of Neurosurgery research within the Hartford HealthCare system.

Sincerely,

Nabil Matmati

Nabil Matmati, PhD.
Khalid M. Abbed, MD
Neurosurgery, Spine Surgery
Co-Physician in Chief, Ayer Neuroscience Institute, Chief of Neurosurgery, St. Vincent’s Medical Center

Khalid M. Abbed, MD, a board certified neurosurgeon and spine care specialist, is co-physician-in-chief of the Hartford HealthCare Ayer Neuroscience Institute, Chief of Neurosurgery for the HHC System, and Chair of Neurosurgery and Chief of Neurosurgical Spine Surgery at SVMC. Dr. Abbed is the visionary, architect, and Medical Director of the world class Spine Wellness Center in Westport, CT. Dr. Abbed specializes in minimally-invasive treatment of spine ailments. He completed a residency in neurosurgery at Massachusetts General Hospital/Harvard School of Medicine. He then completed his fellowship in neurosurgical and orthopedic spine surgery at the Cleveland Clinic. Dr. Abbed holds a faculty position as an Assistant Professor of Neurosurgery at Frank H. Netter School of Medicine, at Quinnipiac University. Dr. Abbed is a Co-PI in the BIA-GEN Study and the Equity in Spine Care Study. You can learn more about this in the newsletter.

Arianne Boylan, MD
Neurosurgery, Spine Surgery, Neurotrauma
Director, Neurotrauma, Fairfield Region

Arianne Boylan, MD, a neurosurgeon and spine care specialist, is Director of Neurotrauma at St. Vincent’s Medical Center. Dr. Boylan specializes in an array of spine, cranial and peripheral nerve services. She earned her medical degree from Yale School of Medicine. She did residency training in Neurological Surgery at Wayne State University and University of Colorado. She then completed her fellowship in Orthopedic Spinal Deformity at Yale School of Medicine and Spine Oncology at Detroit Medical Center. Dr. Boylan holds a faculty position as an Assistant Professor of Neurosurgery at Frank H. Netter School of Medicine, at Quinnipiac University. Dr. Boylan is a CO-PI in the BIA-GEN study and the Equity in Spine Care Study.
Meet our Team: Neurosurgery

Pedro Coutinho, MD
Neurosurgery, MIS Spine, Spine; Farfield Region

Pedro Coutinho, MD, a board certified neurosurgeon and complex spine care specialist. Dr. Coutinho specializes in complex spinal surgery and reconstruction for a variety of vertebral spine conditions. He earned his medical degree from Universidade Gama Filho MD in Brazil. He completed his residency at Hospital Municipal Souza Aguiar, Neurosurgery. He then completed his fellowship in Complex Spine Surgery at the University of Miami and Orthopedic Spine Surgery at Yale School of Medicine. Dr. Coutinho holds a faculty position as an Assistant Professor of Neurosurgery at Frank H. Netter School of Medicine, at Quinnipiac University. Dr. Coutinho is the PI for the BIA-GEN Study and CoiPi in the Equity in Spine Care Study. You can learn more about this in the newsletter.

Inam Kureshi, MD
Neurosurgery, Neurovascular, Spine; Chief of Neurosurgery and Director of Health Injury Clinic; Hartford Region

Inam Kureshi, MD is a board-certified neurosurgeon practicing at Hartford Hospital since 2000. He is currently the Chief of Neurosurgery at Hartford Hospital and Assistant Professor of Surgery at the University of Connecticut. His specialty involves cerebrovascular and brain tumor surgery. He is the Program Director of the Cerebrovascular/Endovascular Fellowship at Hartford Hospital and the Program Site Director for the UCONN Neurosurgery Residency Program. He earned his medical degree from the University of Texas Health Science Center, San Antonio. He completed his residency at this residency at University of Connecticut and went on to complete his Neurovascular Surgery Fellowship at the University of California, Los Angeles. Dr. Kureshi is the PI for the SCUBA study. You can learn more about this in the newsletter.
Meet our Team: Neurosurgery

Patrick Senatus, MD, PhD, FACS, FAANS
Neurosurgery, MIS Spine, Deep Brain Stimulation
Medical Director, Deep Brain Stimulation Program; Hartford Region

Patrick Senatus, MD, PhD, FACS, FAANS, is the Medical Director of the Deep Brain Stimulation Program at Hartford HealthCare’s Ayer Neuroscience Institute. He is an expert neurosurgeon who performs DBS surgery at Hartford Hospital. Dr. Senatus earned his PhD in neurobiology from the Harvard Graduate School of Arts and Sciences and his MD from Harvard Medical School. He completed an internship and residency at Columbia University and a fellowship in stereotactic and functional neurosurgery at the Cleveland Clinic. After fellowship, Dr. Senatus became director of functional and restorative neurosurgery at the University of Connecticut Health Center. Dr. Senatus is the PI for the OCD study. You can learn more about this in the newsletter.

Vijay Yanamadala, MD, FAANS
Neurosurgery, Spine Surgery
Medical Director, Spinal Quality & Surgical Optimization; Fairfield Region

Vijay Yanamadala, MD, FAANS, a board certified neurosurgeon and spine care specialist, is Medical Director of Spinal Quality and Surgical Optimization and Director of Spinal Deformity Surgery. Dr. Yanamadala specializes in minimally invasive spine surgery and complex spine surgery. He earned his medical degree from Harvard Medical School. He completed his residency in Neurosurgery at Massachusetts General Hospital. He completed his fellowships at Massachusetts General Hospital in Orthopedic Spine Surgery and Virginia Mason Medical Center in Complex Spine and Spinal Deformity Surgery. Dr. Yanamadala holds an Associate Professor position of Neurosurgery at Frank H. Netter School of Medicine, at Quinnipiac University, North Haven, CT. Dr. Yanamadala is the PI for the Spinal Deformity Study Checklist and Short and Long Term Outcomes after Spine Study. He is also a PI in the Equity in Spine Care Study and a CO-PI in the BIA-Gen Study. You can learn more in this newsletter.
Meet our Team: Neurosurgery

**Adam Riso, PA-C**  
*Neurosurgery; Fairfield Region*

Adam Riso, PA-C, earned his Masters of Science degree and completed the Physician Assistant program at Quinnipiac University. Adam joined the neurosurgery team at the Ayer Neuroscience Institute in April 2020. He has specialized in providing inpatient and outpatient neurosurgery care for the past 12 years. Adam is a SUB-PI in the BIA-GEN study and in the Equity in Spine Care Study. You can learn more about this in the newsletter.

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**Brittany Vizzo, BSN, RN**  
*Neurosurgery; Fairfield Region*

Brittany Vizzo, BSN, RN earned her nursing degree from the University of Scranton. Prior to joining the neurosurgery team, she worked as a float nurse at Bridgeport Hospital and at a multispecialty care center as the RN Lead. Brittany is a SUB-PI in the BIA-Gen study and in the Equity in Spine Care Study. You can learn more about this in the newsletter.
Nabil Matmati, PhD
Clinical Research Director, Ayer Neuroscience Institute

Nabil Matmati, PhD, earned his undergraduate and graduate degrees at the University of Perugia, Italy. Throughout his career, he has done research at St. Jude Children’s Research Hospital, Medical University of South Carolina, and Stony Brook University in DNA replication, cell cycle and sphingolipids. Dr. Matmati built a clinical research program for Stroke, Neurosurgery, Interventional Neurology and Pain Medicine during his time in Rochester Regional Health System, in Rochester, NY, working on many clinical trials sponsored by federal government agencies and pharmaceutical companies. He holds two faculty positions as an Assistant Professor, at Stony Brook University, Department of Medicine, Cancer Center, in Stony Brook, NY and at Frank H. Netter School of Medicine, at Quinnipiac University, North Haven, CT. Dr. Matmati brings his clinical research expertise to Hartford Healthcare and is relentlessly working to expand the research footprint in the Fairfield Region. Dr. Matmati is a Co-PI in the Spinal Deformity Surgical Checklist, The Equity in Spine Care Study, The Short and Long Term Outcomes after Spine Surgery, and the lead coordinator in the BIA-GEN study.

Abigail Reilley Mokanyk, MS
Data Analyst, Ayer Neuroscience Institute

Reilley Mokanyk earned her degree at Tufts University School of Medicine. She assists with research tasks as needed and retrieves, prepares, and analyzes the data for all research studies.

Maria Rossi
Clinical Research Assistant, Ayer Neuroscience Institute

Maria Rossi graduated from Gordon College in 2017 with a degree in Neuroscience and Psychology. She worked at a Yale School of Medicine in a macaque electrophysiology lab and a Psychiatry human research lab conducting a study on the effects of nicotine in e-cigarettes. Today, she is working with Dr. Nabil Matmati as a Clinical Research Assistant in the Neurology Department assisting in ongoing and new studies.
Meet our Team: HHC Research Administration Team

The Neuroscience Research Team would like to recognize members of the HHC Research Administration Program that continually provides support and enables us to expand the footprint of clinical research across the Institute.

**Senior Director of Research:** Liz Roper, MHS

**Human Research Protection Program/IRB:** Cherie Bilbie, MS; *Director*

**Grants and Contracts Office:** Tammy Weirs; *Manager*

**Data Management:** Jeff Mather, MS; *Director*

**Clinical Research Center:** William Roman; *Manager*

**Senior Scientist/Statistician to Neurosciences:** Yolanda Li, PhD

**Grant Writer:** Anne Williamson, PhD
Active Clinical Research
This section highlights several great Active Clinical Research Projects

Bia-Gen Study
PI: Pedro Coutinho, MD
Co-PI: Khalid Abbed, MD; Arianne Boylan, MD; Vijay Yanamadala, MD
Study Personnel: Nabil Matmati, PhD; Reilley Mokanyk, MS; Maria Rossi

Bia-Gen Bioactive Moldable is a regulatory approved product composed of an organic bone mineral, bioactive glass, and type I collagen that is molded to correct bone defects. The primary objective of the study is to measure the success rate of lumbar fusion in subjects at 12 months when Bia-Gen Bioactive Moldable is used as the bone grafting material during lumbar spinal fusion surgery. Clinical outcomes over the period of a year will also be evaluated. This study is actively recruiting patients at the Bridgeport or Westport locations.

Short and Long-Term Outcomes after Spine Surgery
PI: Vijay Yanamadala, MD
Co-PI: Nabil Matmati, PhD
Study Personnel: Reilley Mokanyk, MS

In a retrospective chart review study, patients with spinal conditions such as: degenerative spine disease, spine deformity and spinal tumors will be assessed. The goal of the study is to analyze short and long-term outcomes after spine surgery in relation to recovery and quality of life. The primary outcome will evaluate short-term outcomes such as perioperative complications and the need for unplanned re-operations. The secondary outcome will evaluate long-term outcomes such as instrumentation failure and the need for revision surgery. Patient records from the Bridgeport and Westport locations will be reviewed.
Reclaim DBS Therapy for Obsessive-Compulsive Disorder (HUD)

**PI: Patrick Senatus, MD, PhD, FACS, FAANS**

This is NOT a study, but rather, a requirement by the FDA for humanitarian use of the deep brain stimulator in the treatment of Obsessive-Compulsive disorder (OCD). Use of the deep brain stimulation device (DBS) for treating OCD is available under a humanitarian device exemption. DBS consists of implanted electrodes that provide a continuous tiny electrical current to the deep structures of the brain in the treatment of chronic, severe, treatment-resistant OCD. It does this by using a surgically implanted medical device, similar to a cardiac pacemaker. The electrical stimulation can be noninvasively adjusted.

The Stereotactic Intracerebral Hemorrhage Underwater Blood Aspiration (SCUBA) technique for minimally invasive endoscopic intracerebral hemorrhage evacuation: A Pilot Study; **PI: Inam Kureshi, MD**

Intracerebral hemorrhage (ICH) accounts for 15-20% of all strokes with high mortality and disability rate. Except for stroke unit care and early blood pressure lowering there is currently no treatment of proven benefit. Surgical evacuation of hematoma performed predominantly with conventional craniotomy was evaluated in previous clinical trials, but did not show a benefit over medical therapy. Minimally Invasive Surgery via endoscopic evacuation demonstrated promising efficacy and safety but did not show functional benefit for in recent phase 3 clinical trials. Stereotactic Intracerebral Hemorrhage Underwater Blood Aspiration (SCUBA) technique has been developed for minimally invasive endoscopic intracerebral hemorrhage evacuation. SCUBA procedure was started to be performed in Hartford Hospital since October 2019. The purpose of this retrospective study is to evaluate the efficacy, safety, and technical feasibility of the SCUBA technique for treatment of ICH.
Spinal Deformity Surgical Checklist

*PI: Vijay Yanamadala, MD*

*Co-PI: Nabil Matmati, PhD*

In collaboration with University of California San Francisco, the unmet need for a standardized surgical checklist was addressed. An electronic survey was distributed to members of the Scoliosis Research Society and the Safety and Value Committee. Members identified checklist features that decreased the likelihood of an adverse event occurring during deformity surgery. Out of 187 features, 74 features were included in the final version of the spinal deformity surgical checklist.

The Equity in Spine Care Study

*PI: Vijay Yanamadala, MD*

*Co-PI: Khalid Abbed, MD, Arianne Boylan, MD, Pedro Coutinho, MD, Nabil Matmati, PhD*

The purpose of the Spine Equity Study is to analyze clinical and socioeconomic status to identify barriers that may exist between the Hartford Healthcare Spine Wellness Center in Westport, CT and the Hartford Healthcare Medical Group Neurosurgery clinic in Bridgeport, CT. The goal is to implement targeted solutions that lead to equal care, increased quality of life and improved health in the community. Any adult new spine patient at the Hartford Healthcare Spine Wellness Center in Westport, CT or the Hartford Healthcare Medical Group Neurosurgery clinic in Bridgeport, CT can participate in the study. This study is sponsored by Hartford HealthCare Equity Fund.
The Effect of Patients’ Socioeconomic Status and Geographical Location of Spine Clinics on Spine Care Outcomes in the Hartford HealthCare System

*PI: Vijay Yanamadala, MD*
*Co-PI: Nabil Matmati, PhD*
*Study Personnel: Reilley Mokanyk, MS, Maria Rossi*
*Accepted: May 4, 2022*

In application to the HHC Health Equity Research Grant, this study aims to address the impact of differing clinic geographical locations and patient socio-economic status in the Hartford HealthCare system. The study will specifically assess the differences in timeliness and access to care, rates of interventions, and patients reported outcomes and satisfaction. Results from this study will identify barriers preventing patients from accessing equitable care right in our community.
FY2022: Published Research
This section highlights published Neurosurgery research in 2021

Neurosurgery: Spine

Khalid Abbed, MD

**Clinical Outcomes between Stand-Alone Zero-Profile Spacers and Cervical Plate with Cage Fixation for Anterior Cervical Discectomy and Fusion: A Retrospective Analysis of 166 Patients.**


**Thirty- and 90-day Readmissions After Spinal Surgery for Spine Metastases: A National Trend Analysis of 4423 Patients.**


Arianne Boylan, MD

**Independent Association of Obesity and Nonroutine Discharge Disposition After Elective Anterior Cervical Discectomy and Fusion for Cervical Spondylotic Myelopathy.**


**Peri-Sylvian Fissure Developmental Venous Anomaly**


Brendan Killory

**Extradural Chordoma of the Thoracic Spine without Bony Involvement: A Rare Presentation and Case Report**


Coutinho, Pedro

**Thirty- and 90-day Readmissions After Spinal Surgery for Spine Metastases: A National Trend Analysis of 4423 Patients.**


Gregory Kuzmik, MD

**Commentary: Nonunion Rates after Anterior Cervical Discectomy and Fusion: Comparison of Polyethere vs Structural Allograft Implants**

**FY2022: Published Research**

**Hypermutated phenotype in gliosarcoma of the spinal chord**


**Oblique Lumbar Interbody Fusion From L2 to S1: 2-Dimensional Operative Video**


**Thirty- and 90-day Readmissions After Spinal Surgery for Spine Metastases: A National Trend Analysis for 4423 Patients**


**Andrew Wakefield:**

**Postlaminectomy lumbopelvic sagittal changes in patients with developmental lumbar spinal stenosis grouped into Roussouly umbopelvic sagittal profiles: 2-to-10 year prospective follow-up**


**The New England Neurosurgical Society: growth and evolution over 70 years**


**Vijay Yanamadala, MD**

**A Multidisciplinary Spine Surgical Indications Conference Leads to Alterations in Surgical Plans in a Significant Number of Cases: A Case Series.**


**A Novel Clinical Scoring System for Perioperative Morbidity in Metastatic Spinal Tumor Surgery: The Spine Oncology Morbidity Assessment Score.**


**An Artificial Neural Network Model for the Prediction of Perioperative Blood Transfusion in Adult Spinal Deformity Surgery**


**Association of Medicare and Medicaid Insurance Status with Increased Spine Surgery Utilization Rates.**

**FY2022: Published Research**

**Comparison of three predictive scoring systems for morbidity in oncological spine surgery.**

**Digital Care Programs for Acute Low Back Pain: A Prospective Longitudinal Cohort Study**

**Digital Care Programs in Chronic Hip Pain: A Prospective Longitudinal Cohort Study**

**Digital Rehabilitation for Elbow Pain Musculoskeletal Conditions: A Prospective Longitudinal Cohort Study**

**Digital rehabilitation for hand and wrist pain: a single-arm prospective longitudinal cohort study**

**Impacts of Digital Care Programs for Musculoskeletal Conditions in Depression and Work Productivity: Longitudinal Cohort Study**

**Minimally Invasive Tubular Separation Surgery for Metastatic Spinal Cord Compression: 2-Dimensional Operative Video.**

**Predictive value of hypoalbuminemia and severe hypoalbuminemia in oncologic spine surgery.**

**Racial and ethnic differences in outcomes of a 12-week digital rehabilitation program for musculoskeletal pain: a prospective longitudinal cohort study**

**Racial Disparities in Perioperative Morbidity Following Oncological Spine Surgery.**
**FY2022: Published Research**

**Surgical Outcomes for Upper Lumbar Disc Herniations: A Systematic Review and Meta-analysis.**

**Separation surgery for metastatic epidural spinal cord compression: comparison of a minimally invasive versus open approach.**

**Neurosurgery: Endovascular**
**Daniel D. Cavalcanti, MD**

**A propensity-adjusted comparison of middle meningeal artery embolization versus conventional therapy for chronic subdural hematomas.**

**Avoiding the Radial Paradox: Neuroendovascular Femoral Access Outcomes After Radial Access Adoption.**

**Comparison of aspiration-first versus stentriever-first techniques in performing mechanical thrombectomy for large vessel occlusions.**

**Endovascular Treatment of Aneurysms Using Flow-Diversion Embolization: 2-Dimensional Operative Video.**

**Measurement-Device-Independent Entanglement Detection for Continuous-Variable Systems**
Middle meningeal artery embolization for chronic subdural hematoma: an institutional technical analysis.

Percutaneous transorbital direct puncture to obliterate a cavernous sinus dural arteriovenous fistula.

Propensity-Adjusted Comparative Analysis of Radial Versus Femoral Access for Neurointerventional Treatments.

Transradial cerebral angiography becomes more efficient than transfemoral angiography: lessons from 500 consecutive angiograms.

Eric Sussman, MD

Conventional versus stereotactic image guided pedicle screw placement during spinal deformity correction: a retrospective propensity score-matched study of a national longitudinal database

Dual antiplatelet therapy after carotid artery stenting: trends and outcomes in a large national database

Efficacy and safety of embolization of dural arteriovenous fistulas via the ophthalmic artery

Hemorrhage risk of direct oral anticoagulants in real-world venous thromboembolism patients

Intraoperative Neuromonitoring for Cerebral Arteriovenous Malformation Embolization: A Propensity-Score Matched Retrospective Database Study

Staged Surgical Resection of Brain Arteriovenous Malformations
External Collaborations

Our team collaborates with the following organizations, colleges, and universities to conduct research and provide educational opportunities for students. All physicians and the Clinical Research Director hold faculty positions with Quinnipiac University School of Medicine.

University of California
San Francisco

UCSF

University of Connecticut

UCONN

Quinnipiac University

Montefiore
Albert Einstein College of Medicine

EINSTEIN

Yale

Stony Brook University
Academic Collaboration

Our team meets monthly with undergraduate and medical students from University of Connecticut and Quinnipiac University Frank H. Netter School of Medicine to discuss various research projects that are active within the Fairfield Neurosurgery Department. The meetings allow the students to gain real-world experience in research and provide an opportunity for publication.

Members of the research team also meet one on one with undergraduate students to help build fundamental research skills. By participating in our weekly research meetings, these students gain invaluable skills they will utilize throughout the remainder of their careers.

Interested in Joining a Research Meeting?

Please email Nabil.Matmati@hhchealth.org or Abigail.Mokanyk@hhchealth.org for the Zoom link.

The meeting occurs monthly on last Tuesday of each month at 4:30 pm.

Monthly Agenda:
- Letter of Intent/Application updates
- Project discussion
- Monthly assignments for students
Current Projects and Student Participation

The Ayer Neuroscience Institute believes physicians and students can benefit greatly from working with one another. The collaboration produces research that will impact patient care at a great scale at Hartford HealthCare. Current projects involving students include the following:

Implementation of patient-reported outcome measures (PROMS) in HHC System spine clinics
- Dr. Yanamadala, 1 medical student, and 2 undergraduate students

Influence of patient’s ethnicity; education level; social status on PROMS usages
- Dr. Yanamadala

Comparing Men and Women in PROMs usage
- Dr. Yanamadala, 1 medical student

Equity in Spine Care; Westport vs. Bridgeport
- Dr. Yanamadala, 1 medical student

Does early ambulation influence recovery and outcomes following a spine surgery?
- Dr. Yanamadala, 2 medical students
Helpful Links

Clinical Research:

CITI Research Training: How to Access

CITI Research Training

Clinical Trials.gov

Hartford Healthcare Research Institute

How to Conduct Research, Clinical Trials, IRB

Integrated Research Information System (iRIS)

REDCap

Have a question or suggestion?

Email us at Sara.Abbassi@hhchealth.org or

Nabil.Matmati@hhchealth.org