



2023 LEADING HEALTH FORWARD

REPORT TO OUR COMMUNITY





Memorial Innovatory Will Take Ideas to Global Markets

Now, a clinician with a great idea — or anyone at Memorial with a proposal for making healthcare better — can propel a back-of-the-napkin dream into the marketplace, thanks to help from Memorial Innovatory.

The newly launched Innovatory offers our creative thinkers crucial support to develop their ideas for new medical devices, therapeutics, diagnostics, health IT and business operations. The Innovatory team can help assess if a market exists for an idea, if its economics make sense and what resources — time, capital, materials and people power — will be required to bring a product to market or a process into implementation.

“What is now commonplace in our hospitals was once innovative,

even the most elementary items, like the blood pressure cuffs we use today,” says Matt Muhart, Executive Vice President and Chief Strategy Officer. “In the past, Memorial didn’t have the tools to support inventors when they had new ideas for a device or a process. Now we do. Memorial Innovatory can help them find an engineer to design a device, a manufacturer to develop a prototype, investors to back it and patent attorneys to get it licensed.”

Memorial laid the foundations for the Innovatory over the course of the last fiscal year, assembling a team and recasting organizational policies and procedures to be more innovator friendly.

The project officially launched this past summer and offers expertise in entrepreneurship, insights

on the state of the market and research on topics like intellectual property protection, patent requirements and regulation. Profits from devices that make it to the manufacturing stage will be split between Memorial and the inventor.

All of this will help attract and retain clinicians and others who are interested in working in an academically oriented environment that supports their creativity, Mr. Muhart says.

“Memorial has highly talented, highly motivated caregivers who come to work every day to solve problems,” he says. “With Memorial Innovatory, they can get the support they need, not just to change the way healthcare is delivered here, but around the world.”



MEMORIAL NEUROSCIENCE INSTITUTE

A South Florida First for Parkinson's Disease

Memorial Neuroscience Institute is the first in South Florida to offer a robotic-assisted deep brain stimulation surgery while a patient is asleep to treat Parkinson's disease.

Traditional brain stimulation surgery can be painful and unpleasant for patients who are awake during the procedure, in which a neurosurgeon implants electrodes in a specific area of the brain to treat tremors and symptoms of stiffness and slowness for those with Parkinson's and other movement disorders.

Using the Robotic Surgical Assistant, called ROSA, and an intraoperative CT scan to precisely target and verify accurate positioning of the electrodes, the procedure can now be performed while the patient is comfortably asleep under general anesthesia.

"By coupling our team's expertise with robotic innovation like the ROSA, we are offering our patients a comfortable, safe surgical procedure that generally requires only one night in the hospital and offers them long-term relief."

— **CHRISTOPHER DEMASSI, MD,**
Chief, Memorial
Neuroscience Institute





Brijesh Mehta, MD, and Haris Kamal, MD, review a stroke scan

TWO MORE MEMORIAL HOSPITALS RECOGNIZED FOR EXPERT STROKE CARE

Memorial Hospital West was designated a Comprehensive Stroke Center by DNV Healthcare, an independent certification and quality assurance provider.

Memorial Hospital Miramar was also certified as a Primary Stroke Center by the Joint Commission. Memorial now has two Comprehensive and two Primary Stroke Centers, ensuring people throughout the community have quick and easy access to expert care when every minute counts.

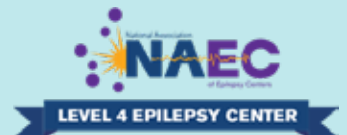
NEURO-INTERVENTIONAL TEAM TO TEACH SURGEONS WORLDWIDE

The Society of Vascular and Interventional Neurology has chosen Memorial experts to perform global education of neuro-interventional treatments. Memorial will soon livestream cases from the neuro-interventional suite to surgeons in developing countries, sharing the team's expertise on a worldwide level.

"We are honored to participate in the society's tele-observership initiative to teach surgeons on interventional management of stroke patients using innovative virtual proctoring technologies," says Brijesh Mehta, MD, Medical Director of the Comprehensive Stroke and Neuro-Interventional Surgery programs



Memorial has been redesignated as a Comprehensive MS Center by National Multiple Sclerosis Society Partners for demonstrating coordinated, multidisciplinary care.



Memorial Regional Hospital has been reaccredited as a Level IV Epilepsy Center by the National Association of Epilepsy Centers. The hospital has held the distinction since 1999 and continues to meet the increasingly stringent guidelines for accreditation.



The American Heart Association and American Stroke Association once again recognized Memorial Regional Hospital and Memorial Hospital West with "Get With the Guidelines" – Gold Plus, Target Stroke Honor Roll Elite Plus and Type 2 Diabetes Honor Roll Achievement awards.



Ira, who had spine surgery,
and his wife, Lynn

MEMORIAL REHABILITATION INSTITUTE

Collaboration Improves Access for Spine Patients

Memorial Rehabilitation Institute together with Memorial Neuroscience Institute Spine Center provides continuous, convenient care to patients through collaborative clinics at Memorial Regional Hospital South and Memorial Hospital West.

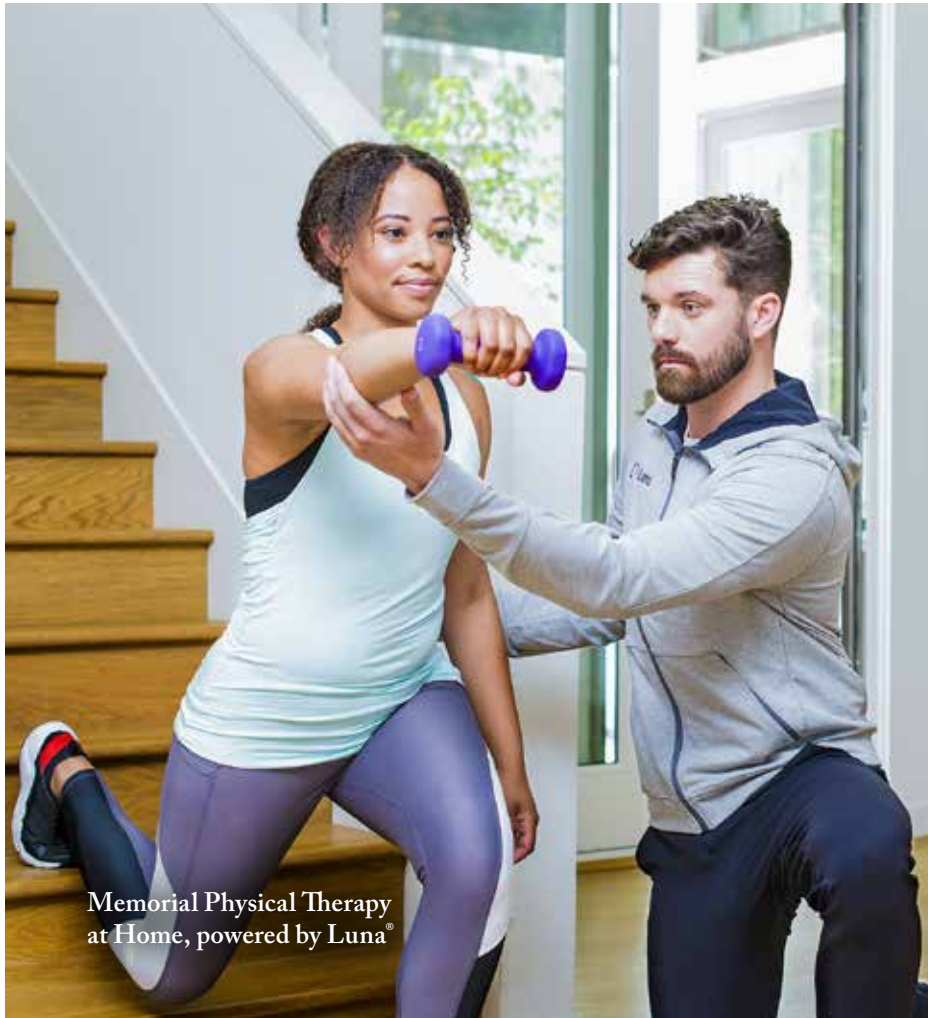
The clinics allow patients with spine injuries and concerns to see all necessary providers together, including neurosurgeons, interventional pain specialists, physiatrists and physical therapists.

“We continue to hire new physicians and nurse practitioners to provide high-quality patient care, enhance access and improve the institute’s overall profile,” says James Salerno, MD, Medical Director of Memorial Rehabilitation Institute.

“We are taking a multifaceted effort combining research, clinical expertise and patient outcomes to provide care for our community.”

– **JAMES SALERNO, MD**
Medical Director, Memorial
Rehabilitation Institute





PHYSICAL THERAPY AT HOME

Memorial Rehabilitation Institute has made physical therapy and recovery more convenient for patients by providing care at home. Memorial Physical Therapy at Home, powered by Luna®, is offered seven days a week and increases community access to physical therapy. Patients are paired with licensed therapists, specializing in their conditions, who create personalized care plans and bring all the necessary equipment to their homes.

BRINGING TECHNOLOGY TO THE BEDSIDE

Inpatient rehabilitation rooms are now enabled with Alexa using the AIVA platform for patient privacy. With this technology, patients can get answers to frequently asked questions, call support departments and request a visit from Mesa, our therapy dog.

The device can also provide entertainment for patients and their families by playing music and games, and the rehabilitation team can teach families how to use Alexa at home for setting reminders to take their medication.



Memorial has been reaccredited by the Commission on Accreditation of Rehabilitation Facilities, which requires the program to commit to quality improvement, prioritize personalized care for patients and monitor outcomes.

Outpatient rehabilitation for Memorial Regional Hospital South and Joe DiMaggio Children's Hospital also received CARF accreditation for outpatient medical rehabilitation.

The inpatient rehabilitation program at Memorial Regional Hospital South received specialty accreditation for stroke, oncology and brain injury.

Joe DiMaggio Children's Hospital inpatient rehabilitation program was reaccredited as a pediatric specialty rehabilitation program.



More than 400 people attended the Annual Research Week held at the Memorial Regional Hospital Conference Center, where more than 150 academic works and posters were presented by Memorial physicians, plus faculty, fellows, residents, medical students and nursing, pharmacy and rehabilitation departments. Medical projects were judged, with awards distributed in various categories.

Transforming the Future of Medicine

Memorial Healthcare System Office of Human Research continues to expand, adding more clinical trials for patients, offering studies in more subspecialties for more complex cases, as well as supporting groundbreaking research from faculty, residents and fellows.

In fiscal 2023, 514 patients were enrolled onto clinical studies at Memorial, with more than 150 ongoing studies. At Memorial Cancer Institute alone, 46 adults were enrolled onto 23 Phase I trials. (Phase I is the first time an investigational drug is tested in humans.) In Pediatric Oncology, another 74 cancer patients were enrolled onto studies.

The team's goal is to offer a trial to every patient and community, and often will open a trial for one patient so he or she can receive the treatment and care needed, close to home.

"The vision of the Office of Human Research is to offer a research study to every patient who walks through our doors, and we are well on our way to achieving this goal," says Candice Sareli, MD, Vice President and Chief Medical Research Officer. "Our program continues to grow and mature, and we continue to expand the number of new treatment options offered at Memorial. Thanks to these ongoing efforts, our community does not have to travel outside South Florida to get the cutting-edge therapy they require. It's all right here at Memorial."

**PATIENTS
ENROLLED
ONTO CLINICAL
TRIALS AT
MEMORIAL:**

296

ADULT
ONCOLOGY

74

PEDIATRIC
ONCOLOGY

66

MEDICAL/
SURGICAL
RESEARCH



USING AI IN RESEARCH

Memorial is using artificial intelligence (AI) to help further its research efforts. This past year, researchers used the technology to comb through thousands of data points of more than 5,000 patients with COVID-19 to find common traits and predictors that lead to dying.

The resulting paper, “Using machine learning to identify patient characteristics to predict mortality of inpatients with COVID-19 in South Florida,” was published in *Frontiers in Digital Health* and was co-authored by Drs. Paula Eckardt and Candice Sareli, in collaboration with faculty from Florida Atlantic University.

The Office of Human Research is also using AI technology to find patients who qualify for studies, especially those that are hard to fill, by creating algorithms that can safely search through the system’s electronic medical records for matches.

MEMORIAL CANCER INSTITUTE RESEARCH PUBLISHED IN PRESTIGIOUS JOURNAL

Adriana Milillo-Naraine, MD, a breast oncologist at Memorial Cancer Institute, participated as a principal investigator for a research trial that was published in the prestigious *New England Journal of Medicine*. The study showed an impressive survival improvement, doubling progression-free survival with trastuzumab deruxtecan in HER2-low advanced breast cancer.

Research Contributes to Recognition of Centers Throughout Memorial

The Office of Human Research works with team members throughout the healthcare system on high-caliber research and scholarly activity, which is required for recognition and as part of accreditation for institutes and programs. This includes:

- Memorial Neuroscience Institute now has two Comprehensive Stroke Centers and two Primary Stroke Centers, where research is being done on different drugs and devices to treat ischemic disease and clot-like strokes, as well as hemorrhagic disease. Other areas of research include migraine and multiple sclerosis.
- Memorial Cardiac and Vascular Institute has a broad research portfolio spanning cardiac transplant, interventional cardiology, heart failure and electrophysiology. Cardiology fellows now contribute to ongoing research as well.
- Joe DiMaggio Children’s Hospital Cystic Fibrosis and Pulmonary Center is nationally accredited, with ongoing clinical trials and studies. Memorial is also a lead site for a South Florida collaborative group advancing cystic fibrosis research and treatments for the genetic disease.



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