A FLAGSHIP NEUROSCIENCES CENTER FOR MARYLAND

UNIVERSITY of MARYLAND MEDICINE

"Every day, we fight alongside our patients and families as they battle some of the most devastating disorders of the brain and spine. Saving lives and improving quality of life for every patient is what drives our passion for helping patients and discovering new treatments."

Graeme F. Woodworth, MD, FACS
Professor and Chair,
Department of Neurosurgery
Director, Brain Tumor Treatment
& Research Center

CREATING A FLAGSHIP NEUROSCIENCES CENTER AT UMMC

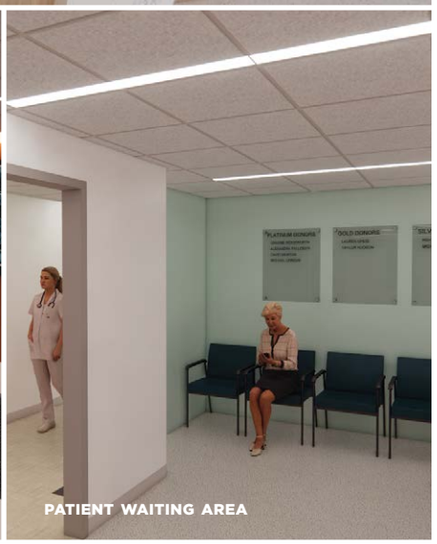
In 1939 the University of Maryland launched one of the nation's first neurosurgery programs, within the nation's oldest public medical school. Today, our faculty are world leaders in research, translation, and application of discovery-based neurosurgical approaches—pioneering "firsts" that are making the once-impossible possible. Our residency program attracts talented physicians from around the country seeking to learn and work at the cutting edge of neurosurgery.

University of Maryland Neurosurgery is deeply committed to offering personalized patient care. We care for patients with the most complex neurosurgical cases throughout communities served by the University of Maryland Medical System and at the R Adams Cowley Shock Trauma Center.

The flagship neurosciences center at University of Maryland Medical Center was designed to usher in a new era of neurosurgical care for the 21st century and beyond. The center's design supports a culture of collaboration and multi-disciplinary discovery while fulfilling our core mission of providing the highest quality patient care, conducting innovative research, and educating the next generation of leaders in neurosurgery.

ENTRY

CONFERENCE ROOM



PATIENT WAITING AREA

STAFF LOUNGE

A CENTER FOR TODAY— AND FOR THE FUTURE

The design of the neurosciences center expands capacity to meet our patients' needs today and in the future. As the flagship hospital of the University of Maryland Neuroscience Network, we provide high quality neurological and neurosurgical care for patients from across the state, nation, and world through University of Maryland Medical System (UMMS) and affiliate hospitals.

TOP IMAGE
A welcoming rotunda entry will serve as the hub of a new neurosciences center whose design fosters cross-pollination across the disciplines of neurosurgery, neurology, and psychiatry.

CENTER-LEFT IMAGE
Technologically enabled conference and teaching space supports our renowned neurosurgical residency program and provides a state-of-the-art location for case study presentations, symposia, and meetings with peer institutions worldwide.

CENTER-RIGHT IMAGE
The clean, open design of a new, dedicated patient care suite adjacent to the rotunda improves patient wayfinding and offers a calm and reassuring atmosphere for consultations and procedures within the center.

BOTTOM IMAGE
Throughout the center, a wide range of flexible, inviting collaboration spaces allow for formal and informal creative problem-solving and debriefing essential to excellence in patient care as we meet the needs of the patients of Maryland by handling a high volume of the most complex, and often the most urgent, brain and spine diseases with care, compassion, and excellence.

GIVING & NAMING OPPORTUNITIES

$20 million

UNIVERSITY OF MARYLAND MEDICINE NEUROSCIENCES brings together the experts and leaders in the Departments of Neurology and Neurosurgery to serve as the nexus for excellence and innovation in patient care, education, and research related to neurological disorders for the State of Maryland and beyond.

$6 million NEUROSCIENCES CLINICAL CENTER

Giving Opportunities within the center

$500,000	**Neurosurgery Outpatient Practice Site**
$100,000	Waiting Room
$50,000	Medical Consultation Room
$25,000	Patient Exam 1
$25,000	Patient Exam 2

$500,000	**Neurosurgery Medical Education Center**
$250,000	Neurosurgery Training Classroom A
$250,000	Neurosurgery Training Classroom B

$250,000	**Neurosurgery Collaboration Hub**
$100,000	Social Commons
$50,000	Teaming Room
$50,000	Collaboration Hub (Large)
$25,000	Collaboration Hub (Small)

$350,000	**Neurosurgery Teaching Offices**
$50,000	Neurosurgery Chair’s Office
$25,000	Neurosurgery Faculty Offices (12 total)

Neurosurgery Donor Wall Opportunities

$20,000	Platinum
$10,000	Gold
$5,000	Silver

"I work with brain tumor patients, and being diagnosed with a brain tumor myself was the last thing I expected. It started with severe headaches and nausea, then double vision, which affected my walking. My initial MRI scan showed a very large tumor on the right side of my brain. I don't know what I would have done if I hadn't been in Baltimore, and hadn't been fortunate enough to be treated by the team at the University of Maryland. I feel like I'm back to 100% of where I was before my diagnosis. I'm so grateful—they saved my life."

VIRGINIA CLEMENS,
a 25-year-old nurse working in UMMC's Neuro Acute Care Unit, was diagnosed with a large brain tumor in 2017, and was treated by the University of Maryland's multi-disciplinary Brain Treatment and Research Center.

"I have been fortunate to work in community practice, academic neurosurgery, and fulltime pediatric neurosurgery, using my Maryland neurosurgery training to change the lives of children and their families. The commitment to teaching, service, and leadership that I learned from my mentors in residency has shaped my career path, leading to my involvement in organized neurosurgery and my work in Haiti. I have strived to impart these values in the pediatric neurosurgery fellows, residents, and students that I enjoy working with today."

JOHN RAGHEB, MD,
completed his residency at the University of Maryland and the R Adams Cowley Shock Trauma Center in 1991. He is Chief of the Department of Surgery and Director of the Neurosurgery Division at Nicklaus Children's Hospital in Miami, Florida.

WHY INVEST IN UNIVERSITY OF MARYLAND NEUROSURGERY?

Your investment will help us to fulfill our promise to be the epicenter of innovation in neurosurgery in our region, drawing talent, research support, and prestige to our city and state—while providing patients with access to a better state of care. Through the University of Maryland Neuroscience Network, we care for more patients with diseases and injuries to the brain and spine than any other medical institution in Maryland.

Nationally Recognized for Research & Innovation

1st
and only fully integrated trauma hospital in the World—the department's Neurotrauma Service at the R Adams Cowley Shock Trauma Center is advancing the medical community's understanding of severe head and spinal trauma

Top Tier
Marlene and Stewart Greenebaum Comprehensive Cancer Center has received the highest designation by the National Cancer Institute since 2016

Top 3
MRI-guided focused ultrasound (FUS) program worldwide

Top 15
for NIH funding nationally

Gold Plus
American Heart Association honors for UMMS Comprehensive Stroke Center

University of Maryland Neurosurgery Firsts

+ **First public medical** school in the U.S., with one of the country's first:
  - **Neurosurgical residency programs**
  - **Neurosurgeons to focus in pediatrics** (Dr. Robert M.N. Crosby)
  - **Shock trauma centers**
  - **Neuropathology laboratories**

+ Discovered the SUR1 ion channel and its role in brain swelling, with potential to advance the **first-ever pharmacological intervention for stroke and traumatic brain injury**

+ **World leader in pioneering MRI-guided focused ultrasound (FUS)** treatments, establishing new standards for treating Parkinson's, essential tremor, glioblastoma, and multiple other brain diseases—UM is the only institution in Maryland offering FUS for these disorders
  - First nationally to treat **Parkinson's Disease using FUS**
  - First to develop **novel FUS delivery approaches to treat brain tumors**

UM Neurosurgery at a Glance

1,522
Total FY21 surgical cases

512
FY21 trauma cases

87
Publications by faculty and residents FY21

$5.6 million
Departmental research funding in FY21

29
Patents granted to our faculty FY11–FY21

To discuss how your investment can help us to create a flagship neurosurgery center for Maryland, contact:

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Designed to inspire
innovation and excellence
in patient care, education,
and research.

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