

# Neurocritical Care Fellowship

## University Hospitals Case Medical Center Cleveland, Ohio



### Neurocritical Care Fellowship

Neurocritical care is an evolving subspecialty, integrating clinical expertise in neurology, neurosurgery, and intensive care medicine to diagnose and treat critically ill patients with neurological disease. **University Hospitals Case Medical Center (UHCMC)** offers a comprehensive Neurocritical Care Fellowship that provides physicians with a unique combination of cognitive, diagnostic and therapeutic skills necessary for the neurocritical care.

The purpose of the training program is to prepare the physician for the independent practice of neurological intensive care. Our approach is based on supervised clinical work, with increasing patient care responsibility over the course of the training program. The UHCMC fellowship program, affiliated with Case Western Reserve University (CWRU) School of Medicine, has a strong foundation of organized instruction in basic elements of both neurological and medical aspects of critical care.

### Curriculum

Like all intensivists, the neurointensivist assumes the primary care role for patients in the ICU, coordinating both the neurological and medical management of the patient. Therefore, the Core Curriculum for the UHCMC Neurocritical Care Fellowship Training is evenly split between neurological diseases and conditions and medical diseases and conditions that commonly complicate acute neurological illnesses.

### Clinical Rotations

Our UHCMC program is a **2-year fellowship** that includes **12 months of ICU time** in which the fellow functions as a *primary provider* of critical care. This includes 8-months in the Neurological Intensive Care Unit and 4-months rotating in the other medical and surgical intensive care units. The remaining 12-months are dedicated to Neurosurgery and Stroke Service, Electives, and protected Research time.

### Overview of Fellowship

NICU	NS - CV
NICU	NS - Trauma
NICU	Stroke Service
NICU	Stroke Service
NICU	Elective
NICU	Elective
NICU	Elective
NICU	Elective
MICU	Research
MICU	Research
SICU	Research
CICU	Research

## **Didactic Components**

All fellows regularly attend seminars and conferences in neurology, neurosurgery, critical care, and neuroradiology. This includes a 2-year multi-disciplinary critical care course that cover all aspects of intensive care medicine. Additional didactic exposure is available in neuropathology, neuromuscular disease, cerebrovascular disease, epilepsy and neurophysiology, pain management, and rehabilitation. All fellows attend periodic seminars, journal clubs, lectures in basic science, didactic courses, and meetings of local and national neurological societies.

## **Research**

All fellows conduct clinical or basic research during the course of the training. There is tremendous support available at UHCMC and CWRU for developing research projects.

## **Trainee Duty Hours and Working Environment**

Fellow duty hours are consistent with the ACGME requirements. Neurocritical care fellows do not take in-house call.

## **Evaluation and Certification**

Clearly defined procedures for regular evaluation of fellows knowledge, skills and overall performance, including the development of professional attitudes consistent with being a physician, are part of the fellowship. Fellows are evaluated on following areas: *Patient, Medical Knowledge, Practice-based learning and improvement, Interpersonal and communication skills, Professionalism, Systems-based practice*. Upon completion of the program, fellows will be eligible for certification in Neurocritical Care through the **United Councils of Neurologic Subspecialties**.

## **Trainee Qualifications**

Neurological intensive care fellowship training must be preceded by the completion of residency training in neurology, neurological surgery, internal medicine, anesthesiology, surgery, or emergency medicine, in a program accredited by Accreditation Council for Graduate Medical Education (ACGME) or the Royal College of Physicians (Canada). An Ohio medical license is required.

## University Hospitals Case Medical Center

Located in Cleveland's historic University Circle, University Hospitals Case Medical Center is a 947-bed academic medical center and tertiary-care hospital and is ranked by U.S. News & World Report as one of America's best hospitals in 13 medical and surgical subspecialties.

Established in 2006, the Neurological Institute provides comprehensive and integrated multi-disciplinary care through world class Centers of Excellence including, a first-in the-nation, dedicated, **Center for Neurocritical Care**.



The **Reinberger Neuroscience Intensive Care Unit** provides complete critical care for all neurology, neurosurgery, and interventional neuroradiology patients and is covered 24/7 by dedicated neurointensivists, fellows, and residents. The 14-bed unit is state-of-the-art with continuous digital EEG and advanced multimodality monitoring capabilities and admits over 1600 patients annually.

## Cleveland

Whether you are interested in taking in a Broadway show at Playhouse Square, hearing the world-renowned Cleveland Orchestra, exploring a rainforest at the Cleveland Metroparks Zoo, cheering on on the Cleveland Browns, Cleveland Cavaliers, or Cleveland Indians, buying fresh tomatoes at the West Side Market, drinking a cappuccino in Little Italy, holding up your lighter for music legends at the Rock and Roll Hall of Fame, partying in the Flats, or sailing off the north coast in Lake Erie - Cleveland is for you.



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