

# Physical Medicine & Neuro-Rehabilitation



The mission of the Department of Physical Medicine & Neuro-Rehabilitation at Barrow Neurological Institute is to provide advanced neuro-rehabilitation care for people with physical and cognitive limitations. Our goal is to maximize their independence, wellness, and quality of life for home, work, and community integration.

This includes the most comprehensive inpatient and outpatient services in the region provided by a team of clinicians and board-certified physical medicine and rehabilitation physicians. Care is individualized for each person served, with distinction in cognitive rehabilitation and vocational outcomes. This commitment to excellence is reflected in our being named as a top center for neuro-rehabilitation by *U.S. News and World Report*.

## For More Information

(602) 406-6304  
[BarrowNeuro.org/PMNR](http://BarrowNeuro.org/PMNR)

## #MindingWhatMattersMost



## What We Treat:

- Traumatic Brain Injury
- Stroke
- Spinal Cord Injury
- Syringomyelia
- Cerebral Palsy
- Spasticity/Dystonia
- Multiple Sclerosis
- Guillain-Barré syndrome
- Debility Due to Chronic Medical Condition

## Treatments:

- Oversee Inpatient and Outpatient Rehabilitation
- Oversee Cognitive Rehabilitation
- Neurotoxin Treatment for Spasticity/Dystonia
- Prescribe Use of New Technologies
- Management of Intrathecal Medication Pumps for Spasticity
- Equipment Ordering
- Medication Management

## Research

Our Neuro-Rehabilitation Center is comprised of a highly experienced, multidisciplinary team. We are a leader in the use of neuro-robotics and offer advanced rehabilitation technologies. Our goal is to further research and implement the latest devices across the continuum of care for our patients.

## Current and Future Research Topics:

- Collaboration with Neurosurgery for Implantable Devices
- Brain-Computer Interface
- Upper and Lower Limb Device Feasibility and Outcome Trials
- Stroke Outcome Prediction Modeling
- Neuro-Robotic Device Development
- Novel Drug Clinical Trials
- Southwest Regional Spinal Cord Injury Model Systems Follow-up Site

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**Team:**



**Christina Kwasnica, MD**

Christina Kwasnica, MD, is a board-certified physical medicine and rehabilitation physician and the director of the Department of Physical Medicine and Neuro-Rehabilitation at Barrow.

Her expertise is in the diagnosis and management of complex brain and spinal cord injuries. She has a special interest in spasticity management and participates in national initiatives to improve access to spasticity care. Dr. Kwasnica earned her medical degree from Northwestern University in Chicago, where she also completed her physical medicine and rehabilitation residency. She is a member of the American Academy of Physical Medicine and Rehabilitation and the American Congress of Rehabilitation Medicine.



**Madeline A. Dicks, DO**

Madeline A. Dicks, DO, is a board-certified physical medicine and rehabilitation physician in the Department of Physical Medicine and Neuro-Rehabilitation at Barrow.

Her expertise is in the diagnosis and management of spinal cord injuries. Dr. Dicks earned her medical degree from the Heritage College of Osteopathic Medicine at Ohio University in Athens, Ohio. She completed her physical medicine and rehabilitation residency at the University of Texas Health Science Center at San Antonio and a clinical fellowship in spinal cord injury medicine at Texas Health Science Center in Houston.



**Tenee Lopez, MD**

Tenee Lopez, MD, is a general physiatrist in the Department of Physical Medicine and Neuro-Rehabilitation at Barrow. She primarily focuses on brain injury and stroke

recovery and spasticity management. Dr. Lopez earned her medical degree from Drexel University College of Medicine in Philadelphia, Pennsylvania. She completed her physical medicine and rehabilitation residency at HonorHealth Rehabilitation Hospital in Scottsdale, Arizona. She is a member

of the American Academy of Physical Medicine and Rehabilitation, the Association of Academic Physiatrists, and the International Society of Physical and Rehabilitation Medicine..



**Matthias Linke, DO**

Matthias Linke, DO, is a board-certified physical medicine and rehabilitation physician and the director of spinal cord injury rehabilitation in the Department of Physical Medicine and

Neuro-Rehabilitation at Barrow. His expertise includes the diagnosis and management of spinal cord injuries of various causes, such as trauma, infection, tumors, deformities, and degeneration. He earned his medical degree from Arizona College of Osteopathic Medicine at Midwestern University in Glendale. He completed his physical medicine and rehabilitation residency at Loma Linda University Medical Center in California and a clinical spinal cord injury fellowship at the Icahn School of Medicine at Mount Sinai in New York City. He is a member of the American Association of Physical Medicine and Rehabilitation, the American Spinal Injury Association, and the International Spinal Cord Society.



**Suzanne Kelley, NP**

Suzanne Kelley, FNP-C, MSN, APBC, CNRN, is a board-certified nurse practitioner and certified neuroscience registered nurse in the Department of Physical Medicine and Neuro-

Rehabilitation at Barrow. Her expertise includes the care of patients with neurological injuries and conditions in both the inpatient and outpatient neuro-rehabilitation settings. Ms. Kelley earned both her Master of Science in Nursing—Family Nurse Practitioner and Bachelor of Science in Nursing from the University of Phoenix in Arizona. She is a member of the American Academy of Nurse Practitioners, the American Association of Neuroscience Nurses, the American College of Nurse Practitioners, and the World Foundation of Neuroscience Nurses.