

When to Seek Immediate Medical Attention:

DANGER SIGNS

In rare cases, a dangerous blood clot may form on the brain in a person with a concussion and crowd the brain against the skull. Contact your health care professional or emergency department right away if you have any of the following danger signs after a bump, blow, or jolt to the head or body:

- Headache that gets worse and does not go away
- Weakness, numbness or decreased coordination
- Repeated vomiting or nausea
- Slurred speech

SYMPTOMS OF CONCUSSION USUALLY FALL INTO FOUR CATEGORIES:

THINKING/ REMEMBERING	PHYSICAL
<ul style="list-style-type: none"> • Difficulty thinking clearly • Feeling slowed down • Difficulty concentrating • Difficulty remembering new information 	<ul style="list-style-type: none"> • Headache • Nausea or vomiting (early on) • Balance problems • Dizziness • Fuzzy or blurry vision • Feeling tired, having no energy • Sensitive to noise or light
EMOTIONAL/MOOD	SLEEP DISTURBANCE
<ul style="list-style-type: none"> • Irritability • Sadness • More emotional • Nervousness or anxiety 	<ul style="list-style-type: none"> • Sleeping more than usual • Sleeping less than usual • Trouble falling asleep

Some of these symptoms may appear right away, while others may not be noticed for days or months after the injury, or until the person starts resuming their everyday life and more demands are placed upon them.

Outpatient Offices

West Akron - Main Office

701 White Pond Dr., Suite 300, Akron, OH 44320
330.572.1011 • Fax: 330.572.1018

Practitioners:

- Susana Bowling, M.D.
- Roswell Dorsett, III, D.O.
- DeAnna Frye, Ph.D.
- DeRen Huang, M.D., Ph.D.
- Ryan Lynch, D.O.
- Megan Mason, M.D.
- Amir Mazhari, M.D.
- Hugh Miller, M.D.
- Eugenio Peluso, Ph.D.
- José Rafecas, M.D.
- Frankie Roman, M.D.
- Laura Samson, Psy.D.

Belden Village

Crescent Pointe Building
4774 Munson Street, Suite 100, Canton, OH 44718
330.494.8424 • Fax: 330.494.8174

Practitioner:

- Frankie Roman, M.D.

Green

1700 Boettler Road, Suite 250, Uniontown, OH 44685
330.899.5730 • Fax: 330.899.0522

Practitioners:

- Ryan Lynch, D.O.
- José Rafecas, M.D.
- Frankie Roman, M.D.

Hudson

The Health Center at Western Reserve
5655 Hudson Drive, Suite 110, Hudson, OH 44236
330.342.4020 • Fax: 330-342.4040

Practitioners:

- Megan Mason, M.D.
- Frankie Roman, M.D.
- Lawrence Saltis, M.D.
- Laura Samson, Psy.D.
- Roger Weiss, D.O.

Medina

3985 Medina Road, Suite 200, Medina, OH 44256
330.723.2700 • Fax: 330.723.2709

Practitioners:

- Roswell Dorsett III, D.O.
- DeAnna Frye, Ph.D.
- Zachary Lewton, M.D.

Ravenna

Robinson Memorial Hospital Professional Building
6847 N. Chestnut Street, Suite 330, Ravenna, OH 44266
330.296.8048 • Fax: 330.296.8208

Practitioners:

- Roswell Dorsett III, D.O.
- Eugenio Peluso, Ph.D.
- José Rafecas, M.D.
- Roger Weiss, D.O.

Wadsworth

Wadsworth-Rittman Hospital Outpatient Department
195 Wadsworth Road, Wadsworth, OH 44281
330.723-2700 • Fax: 330.723-2709

Practitioners:

- Zachery Lewton, M.D.

Neurology & Neuroscience Physicians

- Susana Bowling, M.D.
- Roswell Dorsett III, D.O.
- DeAnna Frye, Ph.D.
- DeRen Huang, M.D., Ph.D.
- Zachary Lewton, M.D.
- Ryan Lynch, D.O.
- Megan Mason, M.D.
- Amir Mazhari, M.D.
- Hugh Miller, M.D.
- Eugenio Peluso, Ph.D.
- José Rafecas, M.D.
- Frankie Roman, M.D.
- Lawrence Saltis, M.D.
- Laura Samson, Psy.D.
- Roger Weiss, D.O.

Advanced Practice Nurses

- Brittany Barger, MSN, NP-C
- Ruthann Ferik, MSN, CRNP
- Anthony Gibaldi, MSN, CRNP
- Maria Griffin, MSN, NP-C
- Stephanie Hartman, MSN, CRNP
- Kristine Jacobson, MSN, CNS
- Kathryn Parker, MSN, CRNP
- Jennifer Woods, MSN, CCNS
- Erin Zinn, MSN, CRNP

Our Office Locations

- Belden Village
- Green
- Hudson
- Medina
- Ravenna
- Wadsworth
- West Akron

Hospital Privileges

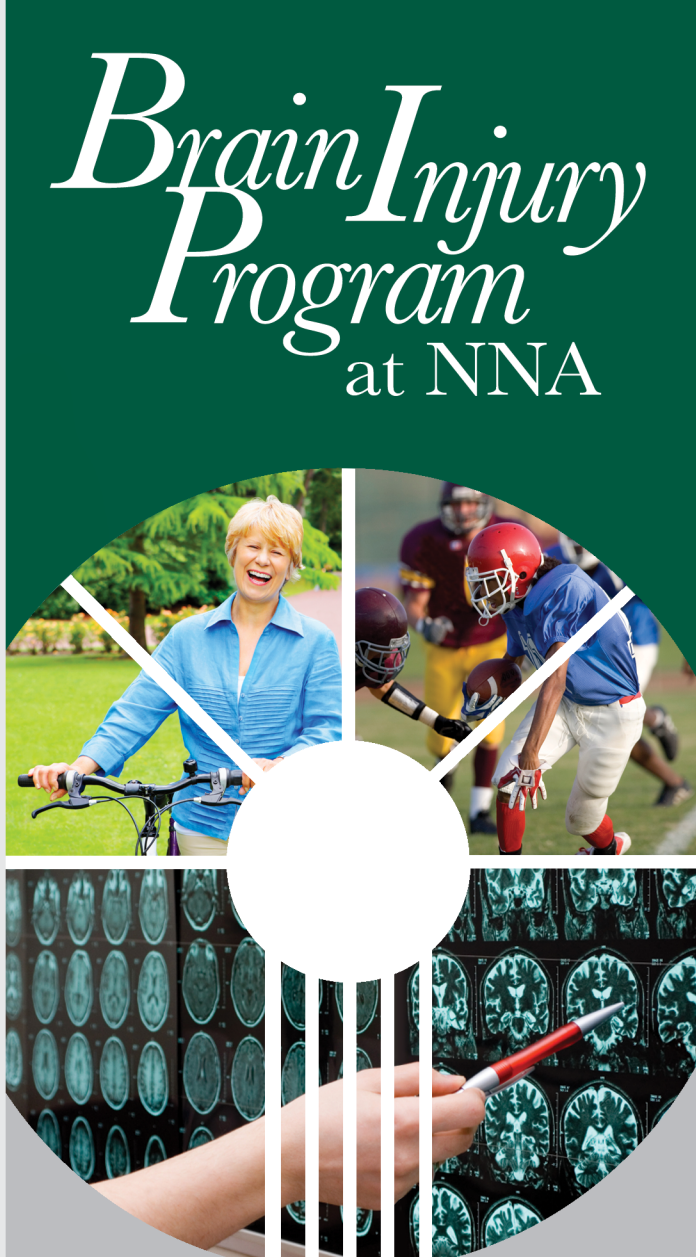
- Akron City Hospital
- Akron General Medical Center
- Robinson Memorial Hospital
- St. Thomas Hospital
- Summa Barberton Hospital
- Summa Wadsworth-Rittman Hospital
- Summa Western Reserve Hospital



NEUROLOGY & NEUROSCIENCE ASSOCIATES, INC.

www.nnadoc.com

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701 White Pond Drive, Suite 300
Akron, OH 44320
330.572.1011 • FAX 330.572.1018



Brain Injury Program at NNA



NEUROLOGY & NEUROSCIENCE ASSOCIATES, INC.

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The Brain Injury Program at NNA

Meet Our Brain Injury Specialists



Ryan Lynch, D.O.
Neurologist
Co-Medical Director,
Brain Injury Program at NNA

Dr. Lynch received his medical degree from Lake Erie College of Osteopathic Medicine, Erie, PA. He served his neurology residency at Hamot Medical Center, Erie, PA and

completed a fellowship in neurorehabilitation at HealthSouth Rehabilitation Hospital of Erie.

A board-certified neurologist, Dr. Lynch has special interests in neurorehabilitation, stroke and brain injury.



DeAnna Frye, Ph.D.
Neuropsychologist
Co-Medical Director,
Brain Injury Program at NNA

Dr. Frye received a Ph.D. in counseling psychology from University of Akron. She received an M.S. in counseling psychology from Heidelberg

Akron and a B.S. in psychology from Heidelberg College, Tiffin, OH.

Dr. Frye performs neuropsychological assessments and testing, and provides psychotherapy and counseling to patients with neurological disorders.

Dr. Frye has special interest and expertise in brain injury, and she is a founding member and current Co-Chair of the Summit County Traumatic Brain Injury Collaborative.

TEAM APPROACH – Drs. Frye and Lynch work together with the rest of the NNA medical staff to ensure that all of our patients' needs are addressed.

The Brain Injury Program at NNA is dedicated to the diagnosis, treatment and rehabilitation of traumatic and non-traumatic brain injuries. Our specialized team provides acute management of head injuries, and coordinates an individualized treatment plan to help patients return to daily living, work, school or sports. Brain injury can lead to physical disabilities, as well as cognitive, social and behavioral problems. Our interdisciplinary team approach assesses each patient's individual needs and coordinates a care plan with patients and their families.

The Concussion Clinic at NNA provides Fast Track initial neurological and/or neuropsychological evaluations of sports related and other concussions. Many times the symptoms of concussion are subtle, and it's very important to obtain a proper medical evaluation following an injury to the head. Our team diagnoses the severity of the brain injury, manages the current symptoms, provides cognitive testing, and makes return to play, school or work recommendations. We also provide post injury management to prevent against Second Impact Syndrome and the cumulative effects of the injury.

NEUROLOGISTS – Dr. Ryan Lynch leads our team of neurologists who perform initial neurological evaluations and follow-up care to patients who have suffered a brain injury. They provide initial diagnosis, develop comprehensive treatment plans, and coordinate services with other specialties as needed. For sports related concussions, acute management of the concussion is performed to rule out more serious head injuries. Return to play, work or school recommendations are made after a full assessment.

NEUROPSYCHOLOGISTS – Dr. DeAnna Frye performs neuropsychological testing, cognitive assessments, and provides counseling to patients with head injuries.

ImPACT TESTING – a computerized neuropsychological test battery designed to evaluate multiple aspects of cognitive functioning following concussion. Drs. Frye and Lynch are Credentialed ImPACT Consultants, and they utilize the test data to measure post concussion progress. Baseline testing is also available.

POST INJURY MANAGEMENT – Patients are followed by our team and monitored closely to prevent against:

- Second Impact Syndrome
- Cumulative neurocognitive and behavioral deficits related to injury
- Post Concussion Syndrome

MRI & EEG – on-site testing available for acute management and diagnosis of head injuries.

SPEECH THERAPY – on-site speech therapy provided through collaboration with the University of Akron's School of Speech–Language Pathology.

FAST TRACK SCHEDULING – for patients needing immediate specialized care.

HEADACHE MANAGEMENT – Patients with ongoing headaches or migraines may be treated in NNA's Headache Center.

PATIENTS WE SERVE – The Brain Injury Program at NNA serves patients with concussions related to sports injuries, car accidents, falls and other head injuries. We serve adult patients as well as adolescents over 12 years of age.

What You Should Know About Brain Injuries

BRAIN INJURY

A Traumatic Brain Injury (TBI) is caused by a bump, blow or jolt to the head or a penetrating head injury that disrupts the normal function of the brain. Not all blows or jolts to the head result in a TBI. The severity of a TBI may range from "mild," i.e., a brief change in mental status or consciousness to "severe," i.e., an extended period of unconsciousness or amnesia after the injury. The majority of TBIs that occur each year are concussions or other forms of mild TBI.

CONCUSSION

A concussion is a type of TBI that can occur from a fall or a blow to the body that causes the head and brain to move quickly back and forth. Even a "ding," "getting your bell rung," or what seems to be mild bump or blow to the head can be serious.

Concussions can occur in any sport or recreation activity. So, all coaches, parents, and athletes need to learn concussion signs and symptoms and what to do if a concussion occurs.

Most people with a concussion recover quickly and fully. But for some people, symptoms can last for days, weeks, or longer. In general, recovery may be slower among older adults, young children, and teens. Those who have had a concussion in the past are also at risk of having another one and may find that it takes longer to recover if they have another concussion.

Helpful Websites

- <http://www.biausa.org>
- <http://www.cdc.gov/traumaticbraininjury>
- <http://www.impacttest.com>
- <http://www.neurologychannel.com/tbi>