

David Chinedu Okonkwo MD MBA

Adult and Child Neurology | Traumatic Brain Injury | Spinal Injury and Pain

Board Certified in Neurology with Special Qualification in Child Neurology

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Professional Profile

Board-certified neurologist with adult and pediatric clinical experience and a substantial background in psychiatric assessment and treatment. Clinical focus includes traumatic brain injury, concussion, post-traumatic headaches, spinal injury, and persistent pain. Provides neurological consultations and medical reports for personal injury cases, including work with Gruber Law Offices in Wisconsin and The Buckeye Law Group in Cleveland, Ohio. Experience combines hospital and outpatient neurology, headache clinic leadership, academic teaching, telehealth mental health care, and work across two TBI-focused companies, including NeuroSpine DX.

Brings an integrated perspective to patients whose recovery involves overlapping neurological, cognitive, emotional, and pain symptoms. Synthesizes the injury history, neurological examination, medical records, neuroimaging, and relevant diagnostic testing into clinically supported diagnoses, treatment plans, and reports that patients, clinicians, and attorneys can understand.

Traumatic Brain Injury and Personal Injury Consulting

NeuroSpine DX

Neurology and TBI diagnostics | Florida-based brain and spinal injury venture

- Contributes neurological expertise to a diagnostic model for personal injury patients, referring clinicians, and attorneys, with telehealth evaluation and follow-up review of findings.
- Helps develop pathways for evaluating concussion, persistent post-concussive symptoms, post-traumatic headache, vestibular complaints, and neurological effects of cervical and lumbar injury.
- Diagnostic program includes BrainView EEG, quantitative EEG and event-related potentials; NeuroFlex vestibular and oculomotor assessment; RightEye testing; and cervical and lumbar motion studies addressing alteration of motion segment integrity.
- Integrates available diagnostic findings with clinical history, examination, and medical records to support individualized neurological conclusions and clear reporting.

TBI and Spinal Injury and Pain Consulting

Neurological assessment and treatment | Personal injury and attorney-referred cases

- Evaluates concussion and TBI across a spectrum of injury severity, including persistent symptoms and complex cases involving traumatic intracranial injury.
- Treats post-traumatic headaches and evaluates memory, attention, dizziness, sleep, and emotional symptoms; develops individualized medication, follow-up, and referral plans.
- Assesses cervical and lumbar injury, radiculopathy, paresthesias, neuropathic pain, and other neurological contributors to ongoing pain and functional limitations.
- Reviews brain and spine imaging, prior treatment, symptom progression, and injury chronology; provides initial consultations and results visits to explain findings and guide care.
- Provides neurological consulting and reporting for cases involving Gruber Law Offices in Wisconsin, including Madison-related work, and The Buckeye Law Group in Cleveland, Ohio.
- Prepares reports addressing diagnosis, clinical findings, injury relationship, prognosis, functional effects, and future care needs as supported by the medical evidence.

Adult and Pediatric Neurology Experience

Marshfield Clinic | Locum Tenens Adult and Pediatric Neurologist

Marshfield, Wisconsin | July 2024 to Present

- Provides outpatient, inpatient, and on-call neurological care for children and adolescents with seizures, headache disorders, brain injury sequelae, developmental concerns, and complex neurological presentations.
- Evaluates neonatal and pediatric seizures and interprets routine EEG and long-term monitoring, including studies in patients with refractory epilepsy.
- Assesses autism and developmental delay, attention and behavioral concerns, tics, movement abnormalities, hypotonia, and genetic or metabolic neurological disorders.
- Coordinates diagnostic evaluation, medication management, follow-up, and multidisciplinary care with hospital teams, therapists, and other specialists.

CHI St. Alexius Health | Adult and Pediatric Neurologist

Bismarck, North Dakota | April 2022 to June 2024

- Provided inpatient, outpatient, and telehealth neurology for adults and children, including TBI, concussion, spinal injury, epilepsy, stroke, headaches, neuropathies, and pain syndromes.
- Evaluated cognitive complaints and dementia, multiple sclerosis, Parkinson disease, dystonia, tics, and other movement and neuromuscular disorders.
- Participated in acute neurological consultations, including stroke and seizure emergencies, and coordinated ongoing care for complex neurological conditions.
- Established and led the Headache Clinic, with individualized treatment for migraine, chronic headache, and other complex headache presentations.

Psychiatric and Behavioral Health Experience

MEDvidi | Telehealth Psychiatric Care

March 2024 to Present | Previous leadership service as Chief Medical Officer

- Conducts psychiatric evaluations and provides medication management for ADHD, mood, anxiety, and other behavioral and emotional concerns through telehealth.
- Assesses attention, executive functioning, sleep, emotional regulation, treatment response, and medication tolerability in the context of the patient's broader clinical history.
- Integrates psychiatric experience with neurological assessment when cognitive symptoms, pain, sleep disturbance, and emotional changes overlap after injury.

Clinical Scope Across the Lifespan

Adult neurology: Brain injury and concussion, headache disorders, epilepsy, acute and chronic stroke care, dementia and cognitive symptoms, neuropathy, radiculopathy, pain syndromes, multiple sclerosis, Parkinson disease, and other movement disorders.

Child neurology: Neonatal and pediatric seizures, refractory epilepsy, pediatric headache and concussion, autism and developmental delay, ADHD and emotional regulation, tics, hypotonia, genetic neurological conditions, and autonomic symptoms.

Concussion care: Symptom characterization, neurological examination, headache treatment, cognitive and behavioral assessment, vestibular and oculomotor findings, medication management, and follow-up of persistent symptoms.

Academic Experience and Postgraduate Training

University of North Dakota School of Medicine | Clinical Instructor in Neurology

Bismarck, North Dakota | March 2023 to Present

- Teaches clinical neurology and mentors medical trainees in neurological examination, diagnostic reasoning, adult and pediatric neurological care, and headache medicine.

Pass Program Board Prep | Clinical Instructor

Urbana, Illinois | January 2019 to March 2022

- Developed and delivered instruction for Pediatrics, Family Medicine Board, and USMLE examinations using lectures, interactive sessions, and targeted review.

University at Buffalo | Child Neurology Fellowship and Adult Neurology Training

Buffalo, New York | Neurology training 2015 to 2018; fellowship 2016 to 2018

- Completed clinical training at Buffalo General Hospital, Roswell Park Cancer Institute, and the VA Medical Center, with exposure to acute and chronic adult and pediatric neurological disease.
- Evaluated TBI, headache, neuropathy, pain syndromes, post-stroke conditions, and dementia; participated in stroke codes and acute neurological care.
- Gained experience with EEG, long-term monitoring, nerve conduction studies, neuroimaging review, and individualized treatment planning; taught trainees during rounds and consultations.
- Participated in care involving nonopioid pain strategies and patients undergoing substance use treatment and recovery.

University at Buffalo | Pediatric Residency Training

Buffalo, New York | July 2013 to October 2015

- Provided neonatal and pediatric care, evaluated developmental progress, and coordinated diagnostic and preventive care with families and multidisciplinary teams.

Education

Doctor of Medicine | American University of Antigua | 2012

Master of Business Administration in Healthcare Administration | Plymouth State University | 2012

Bachelor of Science in Health Sciences | American University of Antigua | 2009

Bachelor of Dental Surgery | University of Benin, Nigeria | 2006

Certification and Professional Memberships

American Board of Psychiatry and Neurology | Neurology with Special Qualification in Child Neurology | 2023

Brain Injury Association of America | American Academy of Neurology | Child Neurology Society | American Academy of Pediatrics

Medical licensure in multiple US states, including Florida, Texas, Pennsylvania, Ohio, Wisconsin, and North Dakota.

Kaleida Health Resident Incentive Award | 2017 and 2018

Selected Research Experience

Research work has included quality-of-life assessment and care needs in adult and pediatric neurofibromatosis; ketogenic diet treatment of refractory seizures in Menkes disease; and a residency chart review comparing autism diagnosis under DSM-5 and DSM-IV-TR criteria.