

NEURODEVELOPMENTAL DISABILITIES

A Comprehensive Residency Training

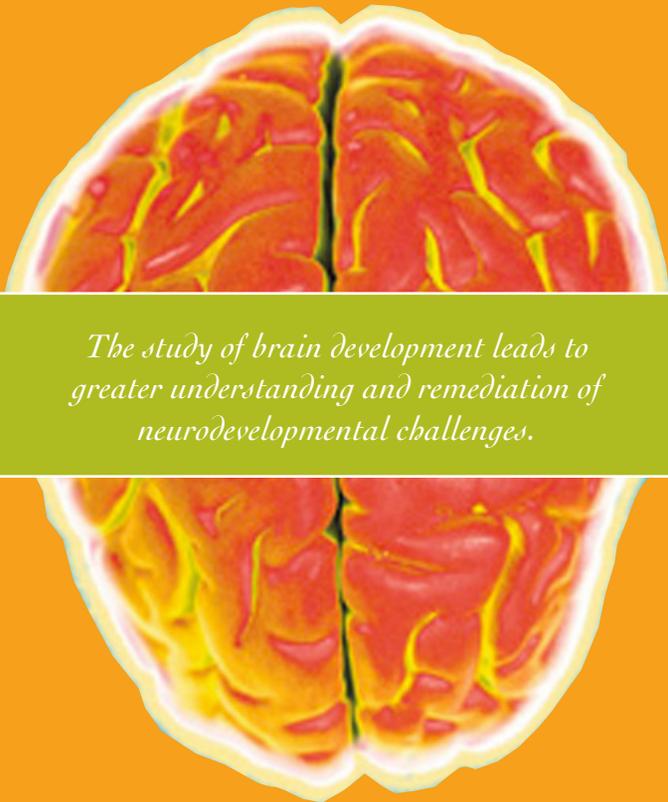
Program Incorporating Pediatrics,

Child Neurology,



and Allied Fields

(Genetics, Physiatry, Psychiatry)



The study of brain development leads to greater understanding and remediation of neurodevelopmental challenges.

The Neurodevelopmental Disabilities (NDD) Residency Program is a joint effort of the American Board of Pediatrics and the American Board of Psychiatry and Neurology to provide an interdisciplinary and comprehensive program for training physicians in Neurodevelopmental Disabilities.

In 1999, the American Board of Medical Specialties recognized the subspecialty of Neurodevelopmental Disabilities. The first subspecialty examinations took place in 2001. This subspecialty provides specialized training for physicians interested in academic careers evaluating and managing children with neurodevelopmental disorders. It also provides opportunities for developing research that increases our knowledge of these disorders and how to treat them.

"We wanted to train our own students better than we were trained."

—Dr. Bruce Shapiro, Kennedy Krieger Institute

A neurodevelopmental disabilities residency expands on the elements of pediatrics and child neurology that most closely focus on diagnosing and treating disorders of the developing nervous system. What we have learned about the brain in the past two decades—particularly on the genetic level—is revolutionizing the evaluation and management of children with developmental disorders such as autism spectrum disorders, cerebral palsy, intellectual disability, and learning and language disorders. The specialty links exciting new developments in molecular genetics, neuroimaging, and electrophysiology with traditional pediatric and neurological assessments of the development of motor skills, sensory awareness, cognition, language, and socialization in children.

The NDD residency involves a rigorous six-year residency program that combines pediatric and neurological training in the relevant basic sciences with supervised clinical training in diagnosing and caring for children with neurodevelopmental disorders. After completing the residency, graduates are eligible for certification in pediatrics, neurology with special competence in child neurology, and neurodevelopmental disabilities.

This residency program marks a milestone in the development of advanced training programs for management of children with developmental disabilities. As of Spring 2011, nine U.S. medical schools have been accredited to offer this exciting new program. Applications for this residency are being accepted now.



Didactic Components

1. Residents obtain a sufficient background in the basic sciences upon which child neurology and neurodevelopment are founded, including:

- Neuroanatomy
- Neurochemistry
- Neuroembryology
- Neuropharmacology
- Neurodevelopment
- Molecular biology
- Neuropathology
- Genetics
- Basic neurophysiology
- Neuroimmunology
- Neuroimaging
- Epidemiology
- Neuropsychology
- Biostatistics

2. Residents learn principles of evaluation, diagnosis, and management of neurological disorders.

3. Specialty Content:

- a. Residents learn the fundamentals of specific diagnostic and management strategies of the major neurodevelopmental disabilities including, but not limited to, cognitive disorders (intellectual disability, learning disabilities, progressive encephalopathies), communication disorders, neurobehavioral disorders (autism spectrum disorders, attention deficit/hyperactivity disorder), motor disabilities (cerebral palsy, spina bifida, neuromuscular and other neuromotor disorders, movement and tic disorders), special sensory disorders (visual and auditory), and multiple disabilities.





Program Requirements

Training in neurodevelopmental disabilities must be preceded by the successful completion of at least 24 months of pediatric residency training in a program accredited by the ACGME. The program director will review and approve the acceptability of these initial years of training. This training must satisfy the requirements for board certification in pediatrics by the American Board of Pediatrics or its equivalent.

The Nine Accredited University Training Programs

For more information or to request an application, please contact the training program directors.

Baylor College of Medicine/Texas Children's Hospital:

Sherry Sellers Vinson M.D., MEd 832-822-3425 ssellers@bcm.tmc.edu

Children's Hospital of Pittsburgh:

Miya Asato, M.D. 412-692-6207 asatomr@upmc.edu

George Washington University/Children's National Medical Center:

Elliot S. Gersh, M.D. 240-568-7031 egersh@cnmc.org

Harvard University/Children's Hospital Boston:

David K. Urion, M.D. 617-355-7819 David.Urion@childrens.harvard.edu

Johns Hopkins University/Kennedy Krieger Institute:

Bruce K. Shapiro, M.D. 443-923-9136 Shapiro@kennedykrieger.org

Oregon Health and Science University:

Peter A. Blasco, M.D. 503-494-2756 blascop@ohsu.edu

University of Cincinnati/Cincinnati Children's Hospital Medical Center:

Donald L. Gilbert, M.D. 513-636-7558 Donald.Gilbert@cchmc.org

University of Indiana:

Julie K. Keck, M.D. 317-274-4846 dfaires@iupui.edu

University of Texas Southwestern Medical School:

Patricia Evans, M.D. 214-456-8470 patricia.evans@utsouthwestern.edu



Our Mission

*To study human brain development
and its clinical manifestations in the most
comprehensive and knowledgeable way.*

*To give back to our patients the
most compassionate and helpful response.*