



Kennedy Krieger Institute

Nancy Van Zant
Vice President for
External Relations

*A comprehensive
resource for children
with disabilities*

January 12, 1995

Ms. Gaynor McCown
Senior Policy Analyst
Room 218
Old Executive Office Building
Washington, DC 20500

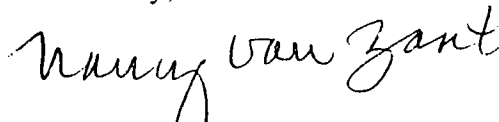
Dear Gaynor,

Thank you for your time by telephone.

I am sending you an outline of a concept we have developed at the Kennedy Krieger Institute for a neighborhood development and family education center in east Baltimore. We believe that this can be developed as a national model for strengthening the education and development of inner-city children. The proposal lays out the expertise and services of Kennedy Krieger and the role we see for ourselves. We are quite open to working with federal agencies in shaping the project and the outcome.

I will telephone you sometime next week. All good wishes to you and thank you.

Sincerely,


Nancy Van Zant

NVZ:dt

enclosures



Kennedy Krieger Institute

Neighborhood Development and Family Education Center for East Baltimore Draft Concept

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with disabilities*

The National Problem

Starting Points: Meeting the Needs of our Youngest Children, the report of the Carnegie Corporation of New York issued in 1994, documents the patterns of neglect experienced by children under the age of three as economic, social and demographic pressures have changed American family life. School readiness, adolescent behavior, and even adult life hinge on brain development during these earliest years of life.

Children who are born into poverty, abuse, and other marginal circumstances are at risk to be poor learners and these effects are long-lasting. Brain development until the age of three is rapid and more vulnerable to environmental influences than at any other time in life. The adult brain is being refined well into adolescence, but the formation of brain cells and connections among them is most dramatic before the age of three.

Basic concerns for pre- and post-natal care, adequate child care for working parents, abuse and neglect, and support for family structure must be addressed by broad discussion and social policy at many levels.

The Role for Kennedy Krieger and the Opportunity for the East Baltimore Inner-City Neighborhood

The Kennedy Krieger Institute (KKI) is a specialized treatment and research center focused on the child's brain, which has evolved from an academic and training model. Among its programs and services are those which provide interventions for children at risk for brain disorders such as learning disabilities and mental retardation.

To be sure, KKI cannot address all the issues of child health and welfare which are laid out by the Carnegie Commission Report, but we can reach out to the thousands of inner city children in our midst. Our goal is to improve the educational and developmental environment for young children who live in this inner city by intervening at a critical point in their mental and social development, age zero to ten, by making our specialized services more accessible and culturally sensitive to the people who need them most.

Proposal to Develop Model for Neighborhood Center Serving Developmental and Educational Needs of Inner-City Children

Kennedy Krieger proposes to bring the state-of-the-art expertise we have developed over fifty

years in service to severely disabled children, to the children in the east Baltimore neighborhood. Based on a rational understanding of what the child's brain is doing at ages zero to ten, we will develop interventions and apply them to this population of children at risk. We will also develop a program of enriched environment for this age group, when the brain is changing dramatically, to improve their early developmental and educational experience in childhood.

We will establish a neighborhood center for neighborhood development and family education that will bring together Institute specializations and interventions and community outreach programs already in place, in service to this population. This community-centered system of education, social and health services would include but not be limited to those described in the following section.

Specialization and Interventions Available at Kennedy Krieger for Children in At-Risk Populations (Existing)

1. For Language Delays

Children in the zero-to-three population who exhibit delayed language skills are at high risk for school failure. The population of children with delayed language skills in the inner city neighborhood of east Baltimore and beyond are not receiving the care they need and deserve at an early age. In addition, the mothers of these children are unlikely to observe these delays.

Service and intervention: Screening for language delays in the two to three year old age group. Interventions for enhancing language function vary somewhat with the age of the child, but may include teaching parenting to the mother, recommending preschool, one on one therapy for language enrichment, etc.

2. For Lead Poisoning

At least 2,000 children in the city of Baltimore are considered to be lead poisoned, and most of the state's estimated 159,000 lead contaminated homes are in Baltimore City and County. Hundreds more children should be tested for lead poisoning, a national problem which affects millions of U.S. children. KKI's Lead Poisoning Prevention Program currently follows the progress of over 800 children who have high levels of lead in their blood. Children and fetuses with developing brains and nervous systems are particularly at risk from lead poisoning. Elevated blood lead levels reduce intelligence, impair nervous system development, cause behavioral problems, decrease growth, and reduce hearing ability.

Service and intervention: Testing for blood lead levels in children referred to KKI Lead Poisoning Clinic. For those with excessively high blood lead levels, chelation therapy is administered. Staff also work with families to find lead-free housing and/or to help them with lead abatement of their homes.

3. For Preschool Development Disorders

Clinic-based services are available for the child with problems in motor development and cerebral palsy, disabilities much less common than those described above.

Service and intervention: KKI clinics provide evaluation and long term management for these children. Therapies target motor, cognition and communication development.

Community Outreach Programs for Neighborhood Children (Existing)

1. Foster Care

Three thousand children in the city of Baltimore are in foster care, and more are in out-of-home placements, usually with other relatives. Many other children are in transition.

Service and intervention: KKI provides psychological and developmental evaluations and mental health treatment to children and families impacted by foster care, or by abuse, neglect, and potential for family disruption. Staff recruit foster care families, provide support for them, coordinate with social service agencies, and assist in foster care placements. Individual and family counseling enhances the families' coping abilities.

2. Community Placements

Individuals with disabilities, from the very young to adults, are more likely to live in community settings today rather than in the public and private institutions of the past. As the State of Maryland and other surrounding states de-institutionalize these residents, communities must be prepared to accommodate and absorb them.

Service and intervention: KKI staff work with families, agencies, and individuals with disabilities to locate community living arrangements and to provide service coordination. In some cases, supportive employment arrangements are also possible.

3. Special Education

Special education teachers and other staff in the Kennedy Krieger School serve children in the neighborhood, and they are available to offer assistance in schools in the neighborhood.

New Services, to be developed

For instance in a related initiative, Kennedy Krieger has proposed to the Superintendent of Baltimore City Public Schools that we develop a partnership with an elementary school in East Baltimore for its management, but more importantly, for developing it as a community-centered system of education, social and health services. If this proposal advances, its development might well become the focus of the model laid out above, and the neighborhood center would include the elementary school.

Our vision is to coordinate the somewhat fragmented system of available services and funding in service to the children.

Current Resource Assessment

There is no comprehensive program in the City of Baltimore or in the region which tackles the problems listed above.

Program Activities

To do grassroots neighborhood development to reach the children who are at risk for developmental delays and who have the other needs described above, and their families, by working with neighborhood leaders, reaching out to schools, building more coalitions with neighborhood agencies, developing relationships with the churches, working with mothers, coordination with the city's empowerment zone development, approaching government agencies, and developing the service and access model.

Objectives for Inner-City Children in East Baltimore

- To enhance language function of toddlers, especially in the two-to-three year old age group, and to improve the overall school readiness and school performance of the zero-to-ten population.
- To reduce the incidence of lead paint poisoning in children by identifying high lead levels early; by finding lead-free housing and by educating mothers.
- To make foster care accessible and to build the base of good foster families.
- To provide assisted living to children and adults with severe disabilities.
- To aid the general and special education needs of city schools. To provide assistance to neighborhood schools especially to the at-risk population.
- To build more partnerships in the neighborhood. To employ people from the neighborhood.
- To contribute to the renewal of the inner city area known as East Baltimore, one of the more distressed neighborhoods in the nation. 1990 Census figures characterize it as follows:

17,654	housing units
	65% renter-occupied
	22% owner-occupied
	13% vacant

47,524 residents
36.36% households receiving public assistance
42.99% people in poverty
11.83% receiving retirement income
94% African American
5,012 female heads of families
10,000 (approx.) children under the age of 12

6,242 crimes, 1990, not counting larceny-theft and aggravated assault

Total Budget

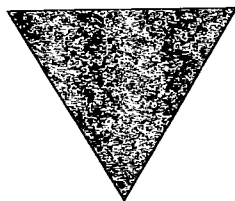
Land acquisition, completed \$400,000
supported by the Abell Foundation and the Zanvyl and Isabelle Krieger Fund, and other donors

Projected capital construction for neighborhood center
\$14,000,000

DIRECTI NS

KENNEDY KRIEGER INSTITUTE

707 North Broadway
Baltimore, MD 21205
(410) 550-9000
(800) 873-3377



FROM WASHINGTON DC:

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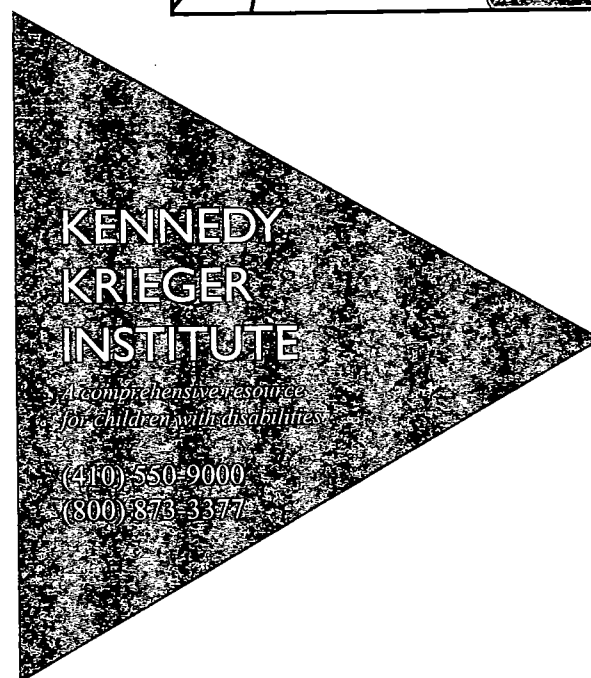
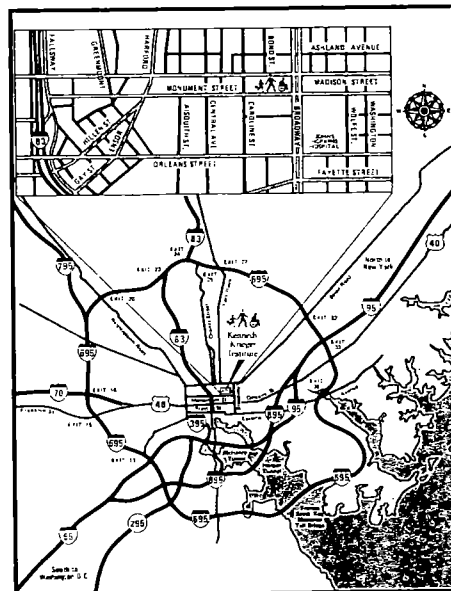
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Kennedy Krieger Institute

GUIDE TO CLINICAL SERVICES

KENNEDY KRIEGER INSTITUTE

A comprehensive resource for children with disabilities

DEAR COLLEAGUES:

The Kennedy Krieger Institute is dedicated to helping children and adolescents with brain disorders participate as fully as possible in family, school and community life.

Kennedy Krieger is internationally recognized for providing quality services to young people with physical and mental disabilities. Founded in 1937, the Institute has been assisting children and their families at its present location--707 North Broadway in Baltimore, since 1967.

This guide briefly describes inpatient and outpatient clinical services and home health services offered at Kennedy Krieger. Please, use it as a resource to find the help you may need for your young patients.

We welcome questions and referrals. If you would like more information or want to refer a child, please call the Central Referral Office at the numbers listed on this front cover. Thank you for using the Kennedy Krieger Institute.

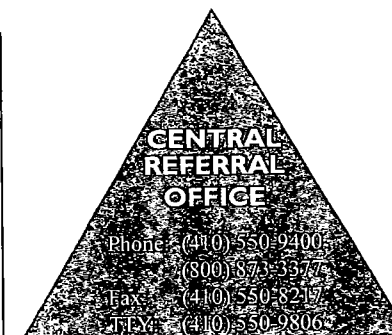
Sincerely,

Gary W. Goldstein, M.D.
President

Michael V. Johnston, M.D.
Vice President, Medicine and
Community Programs

Sharon Reeves, R.N., M.A.S.
Vice President, Nursing

James M. Anders, Jr., M.B.A., C.P.A.
Administrator



The Central Referral Office is staffed Monday through Friday from 8:30 a.m. to 5 p.m. The referral lines are backed by voice mail. Should we be busy at the time of your call, a Referral Specialist will return your call within 20 minutes.

FINANCIAL SERVICES

Staff from the Financial Services Office provides financial counseling, coordinates benefits, bills insurance carriers and makes initial collection efforts. If benefits fail to cover full costs of services, the Financial Services staff will assist with locating other agencies or private sources to help with medical reimbursement. Payment plans for uncovered services are also provided.

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707 North Broadway
Baltimore, MD 21205
(410) 550-9000
(800) 873-3377



WHO SHOULD BE REFERRED?

Individuals, from birth to age 21, who have or are at risk for the following may benefit from diagnostic, evaluative or therapeutic services:

- ▶ Attention deficit disorder
- ▶ Autism
- ▶ Behavioral disorders and Psychiatric problems
- ▶ Cerebral palsy
- ▶ Developmental delay
- ▶ Down syndrome
- ▶ Feeding disorders
- ▶ Head and spinal cord injury
- ▶ Hyperactivity
- ▶ Lead poisoning
- ▶ Learning disabilities
- ▶ Mental retardation
- ▶ Metabolic and degenerative diseases
- ▶ Speech and language delay
- ▶ Spina bifida
- ▶ Other special needs

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FAMILY CENTER

Helen Kimmel, L.C.S.W.-C.
(410) 550-9600

Provides psychological and developmental evaluations and mental health treatment to children and families impacted by foster care, or by abuse, neglect, and potential for family disruption. The clinic staff is composed of a child psychiatrist, a developmental pediatrician, clinical psychologist, mental health clinicians and clinical social workers.

FEEDING DISORDERS

Jay Perman, M.D.
(410) 550-9422

Evaluates and treats children with impairment of oral intake or appetite. Conditions include failure-to-thrive, oral motor dysfunction, craniofacial anomalies, short bowel syndrome, gastroesophageal reflux, enteral feeding management, extreme food selectivity and behaviorally based food refusal.
▶ Also see Occupational Therapy.

FOSTER CARE

The Kennedy Krieger Institute is a licensed foster care provider.
▶ Also see Family Center.

GENETICS

▶ See Down syndrome, Metabolic and Biochemical Disorders, and Psychiatry.

HYDROCEPHALUS

▶ See Spina Bifida.

LEAD POISONING

J. Julian Chisolm Jr., M.D.
(410) 550-9035

Diagnosis, treatment and follow-up are provided for children with lead toxicity, offering same-day blood analysis and chelation therapy. Environmental and dietary history are tracked to minimize lead exposure.

NEUROGENETIC DISEASES
Hugo W. Moser, M.D.
(410) 550-9405

Carrier detection, prenatal diagnosis and therapies are offered for neurodegenerative diseases such as Adrenoleukodystrophy and Rett syndrome. Specific therapies include dietary, medicinal, enzyme replacement, transplant, occupational and physical therapies.

LEARNING DISABILITIES

THE LEARNING CENTER
Bruce Shapiro, M.D.
(410) 550-9880

The Learning Center evaluates and treats school-aged children with neurologically based learning disorders such as dyslexia, attention deficit hyperactivity disorder and language disorders.

NEUROBEHAVIOR ASSESSMENT
Martha Denckla, M.D.
(410) 550-9399

Specializes in assessment of neurodevelopmental, cognitive and behavior problems using a combined neuropsychological, neurological, and special education approach.

MENTAL HEALTH

▶ See Behavioral Psychology, Clinical Psychology, Family Center, Psychiatry.

MENTAL RETARDATION

▶ See Developmental Pediatrics and Down syndrome.

METABOLIC DISORDERS
Richard I. Kelly, M.D., Ph.D.
(410) 550-9444

Diagnosis, treatment, and genetic counseling for inborn errors of metabolism, especially mitochondrial diseases and disorders of organic acid, fatty acid, and sterol metabolism.
▶ Also see Neurogenetic Diseases.

NEONATAL INTENSIVE CARE FOLLOW-UP
Marilee Allen, M.D.
(410) 550-9281

Comprehensive developmental follow-up services are provided for high-risk NICU infants, children and their families.

METABOLIC AND BIOCHEMICAL DISORDERS
Richard Kelly, M.D., Ph.D.
(410) 550-9444

RETT SYNDROME AND NEURODEGENERATIVE DISORDERS
Sakkubai Naidu, M.D.
(410) 550-9409

NEUROLOGY

Michael Johnston, M.D.
(410) 550-9492

Evaluation and therapeutic intervention for children with metabolic and degenerative brain disorders, epilepsy, Rett syndrome, movement disorders, cerebrovascular disorders, brain and spinal cord injuries.

NUTRITION

Jackie Krick, M.S., R.D.
(410) 550-9441

Diagnostic nutrition evaluation and ongoing management are provided to children and adolescents with developmental disabilities, including cerebral palsy, inborn errors of metabolism, seizure disorders, failure-to-thrive, oral motor dysfunction and dysphagia requiring enteral feeding support.

OCCUPATIONAL THERAPY

Kristin Brockmeyer-Stubbs, M.S., OTR
(410) 550-9437

Occupational therapists work to improve fine motor skills and activities of daily living—eating, dressing, hygiene, toileting, play and adaptive seating. Patients with swallowing dysfunctions are seen in this program.

ORTHOPEDIC DISORDERS

▶ See Cerebral Palsy.

PHYSICAL THERAPY
Susan Harryman, M.S., PT
(410) 550-9435

Physical therapists treat children who have problems with gross motor skills and tone, assess adaptive equipment needs and train families in home management.

ADRENOLEUKODYSTROPHY, ZELLWEGER SYNDROME, AND PEROXISOMAL DISORDERS
Hugo W. Moser, M.D.
(410) 550-9405

PSYCHIATRY AND BEHAVIORAL GENETICS
Allan L. Reiss, M.D.
(410) 550-9485

PSYCHIATRY
(410) 550-9485

Psychiatric evaluation and treatment are provided for children with developmental, genetic and acquired neurological disorders. Conditions include autism, mood disorders, attention deficit disorder, self-injurious behavior, learning disabilities, sleep disorders, neurobehavior problems and in utero drug exposure.

BEHAVIORAL NEUROGENETICS
(410) 550-9313

Clinical evaluations and treatment are offered for behavioral or neuro-psychiatric problems of patients with genetic conditions, such as Fragile X syndrome, Williams syndrome, Turner syndrome, tuberous sclerosis, phenylketonuria, Klinefelter syndrome and chromosomal disorders.

REHABILITATION AND PHYSICAL MEDICINE (PHYSIATRY)
James R. Christensen, M.D.
(410) 550-9440

Evaluation, treatment and follow-up are provided to patients recovering from severe brain or spinal cord injuries or other acquired neurological deficits. Services include acute rehabilitation, prescription of braces (orthotics), electrodiagnostic evaluations, cognitive retraining, school re-entry, outpatient follow-up, and family education and counseling.

SOCIAL WORK

Judith M. Levy, M.S.W., L.C.S.W.
(410) 550-9411

Social workers help patients and families adjust to the diagnosis of developmental disabilities or other medical conditions, as well as ongoing realities and stresses. Social work staff assists in locating necessary resources, and provides individual and family counseling to enhance the family's coping abilities.

SPEECH AND LANGUAGE
Jan Turner, Ph.D.
(410) 550-9450

Speech and language therapists evaluate hearing, language, articulation, voice fluency and speech motor abilities to determine if problems are affecting overall performance. Ongoing therapy and recommendations are offered.

SPINA BIFIDA

Stephen Kinsman, M.D.
(410) 550-9250

Evaluation and treatment are provided by specialists in pediatric neurology, neurosurgery, orthopedics and urology for patients with birth defects such as spina bifida, hydrocephalus, injury to the spine at birth, and other related conditions.



HOME HEALTH SERVICES

Children with special needs may require a broad range of services, which may be provided in the home. An interdisciplinary team of specialists—physicians, nurses, physical therapists, occupational therapists, speech pathologists and social workers—have extensive experience in managing patients with complex medical and rehabilitation needs, and are highly skilled in bringing hospital-quality care into the home. Home visits, treatments, therapies, counseling sessions and follow-ups vary in frequency and intensity based on the needs of each patient and family. Services are available 24 hours a day, seven days a week. Call (410) 288-8030 to talk to a Home Health Coordinator.

**FACTS ABOUT...
KENNEDY KRIEGER INSTITUTE**

- ▶ Internationally recognized facility dedicated to improving the lives of children with brain disorders through research, teaching and comprehensive patient care. Children from as far as Russia, New Zealand, Ireland and United Arab Emirates receive services at Kennedy Krieger.
- ▶ Trains over 300 health care professionals annually who go on to work nationwide in other programs designed to assist individuals with disabilities.
- ▶ Accredited by the Joint Commission on Accreditation of Healthcare Organization (JCAHO), Commission on Accreditation Rehabilitation Facilities (CARF) and State Department of Education.
- ▶ For patients who require hospitalization, Kennedy Krieger operates a 57-bed inpatient unit, encompassing neurodevelopment, rehabilitation, metabolic and degenerative disorders, behavior and feeding disorders.
- ▶ In 1979, Kennedy Krieger established the first pediatric brain injury unit in the region with research and teaching components. It is the only such CARF accredited program in the state. The majority of Maryland's severely head injured children are referred to this unit to relearn skills lost during an accident or illness.
- ▶ As a University Affiliated Program, Kennedy Krieger has a professional relationship with The Johns Hopkins University School of Medicine and Hospital.
- ▶ Kennedy Krieger is financially independent, with major funding coming from private donations, grants and patient fees.



ASSISTIVE TECHNOLOGY

Sharon Glennen, Ph.D., CCC-SLP
(410) 550-9519

Assistive aids and devices are prescribed for patients with developmental and neurological disabilities. Services include augmentative communication prescriptions, computer adaptations, seating and positioning modifications, powered mobility assessment, and evaluation for environmental controls.

ATTENTION DEFICIT HYPERACTIVITY DISORDER

► See Learning Disabilities.

AUDIOLOGY

John Heinz, Ph.D.
(410) 550-9450

Infants and children with multiple handicaps receive audiological and hearing aid evaluations, central auditory processing testing, aural rehabilitation and electrophysiological auditory testing. Customized hearing aids are prescribed and fitted.

AUTISM AND PERVASIVE DEVELOPMENTAL DISORDERS

► See Behavioral Psychology, Developmental Pediatrics and Psychiatry.

BEHAVIORAL PSYCHOLOGY

Gary Pace, Ph.D.
(410) 550-3100

Assessment, treatment and management strategies are offered for children with or without developmental disabilities who exhibit behavior problems such as self-injury, aggression or property destruction. School and in-home interventions are provided to assist with the establishment of routines. Specialty clinics are focused on autism and psychiatric developmental disorders, behavioral problems of children with other developmental disabilities and problems related to hospitalization and chronic illness.

BRAIN INJURY

► See Rehabilitation.

CEREBRAL PALSY

Charles E. Silberstein, M.D.
(410) 550-8100

Assessment, treatment and post-surgical management are provided for children and adults with orthopedic problems related to cerebral palsy. In addition to lower and upper extremity assessments, specialized services of assistive technology, muscle tone management by medication or rhizotomy, nutritional management, seating clinic and feeding program are offered.

CLINICAL PSYCHOLOGY

Shirley Mark, M.S.

(410) 550-9442

Developmental, clinical and neuropsychological evaluations are given that are sensitive to disorders in communication, learning, memory, attention and perception.

COMMUNICATION DISORDERS

► See Speech and Language.

DEVELOPMENTAL PEDIATRICS

Bruce Shapiro, M.D.

(410) 550-9880

The clinical programs and services of Developmental Pediatrics provide a continuum of evaluation and treatment in the area of developmental disabilities. In consultation with the referring physician, clinical programs work closely with community service delivery systems such as the Infants and Toddlers Program, the special education programs of the various local school systems, as well as private agencies and providers to facilitate the implementation of appropriate treatment plans.

Evaluation teams may include a developmental pediatrician, nurse practitioner, clinical and behavioral psychologists, physical and occupational therapists, audiologists, speech/language pathologists, social workers, psychiatrists, and others as needed.



NEURODEVELOPMENTAL DISORDERS

Alexander Hoon, M.D.

(410) 550-8097

Focuses on the early identification of developmental delay in the birth to two year old child, with particular emphasis on motor development and cerebral palsy.

PRESCHOOL DEVELOPMENT DISORDERS AND AUTISM

Rita Panoscha, M.D.

(410) 550-8097

Offers an interdisciplinary evaluation of the preschool child with particular focus on communication and cognition.

DEVELOPMENTAL CONTINUITY CLINIC

Thomas St. John, M.D.

(410) 550-8097

Provides evaluation and long term management of children with moderate to severe or multiple developmental disabilities.

DOWN SYNDROME

George T. Capone, M.D.

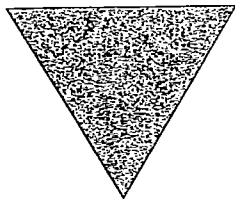
(410) 550-9420

Care of individuals with Down syndrome is offered from infancy through age 21. Ongoing developmental assessment and treatment, behavioral management, consultative and preventive medical care, and parent support are emphasized.

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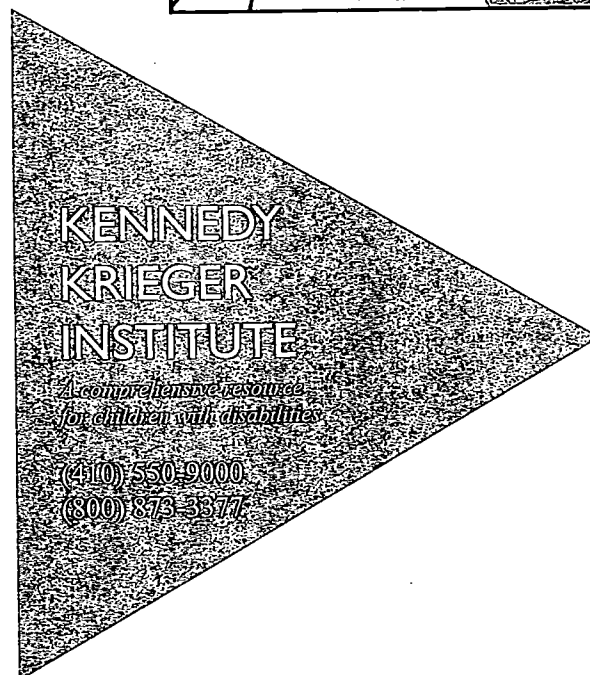
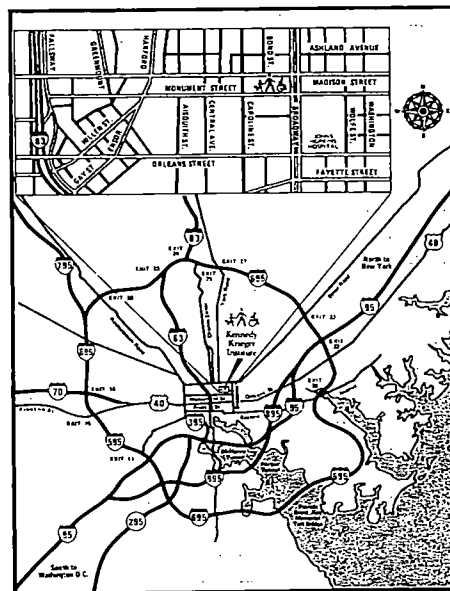
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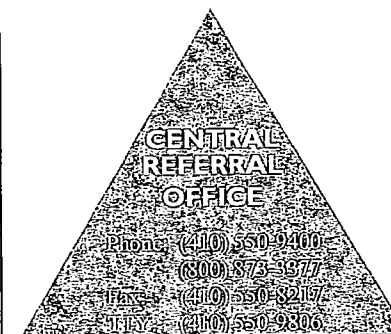
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LEAD POISONING

J. Julian Chisolm Jr., M.D.
(410) 550-9035

Diagnosis, treatment and follow-up are provided for children with lead toxicity, offering same-day blood analysis and chelation therapy. Environmental and dietary history are tracked to minimize lead exposure.

NEUROGENETIC DISEASES

Hugo W. Moser, M.D.
(410) 550-9405

Carrier detection, prenatal diagnosis and therapies are offered for neurodegenerative diseases such as Adrenoleukodystrophy and Rett syndrome. Specific therapies include dietary, medicinal, enzyme replacement, transplant, occupational and physical therapies.

LEARNING DISABILITIES

THE LEARNING CENTER
Bruce Shapiro, M.D.
(410) 550-9880

The Learning Center evaluates and treats school-aged children with neurologically based learning disorders such as dyslexia, attention deficit hyperactivity disorder and language disorders.

NEUROBEHAVIOR ASSESSMENT
Martha Denckla, M.D.
(410) 550-9399

Specializes in assessment of neurodevelopmental, cognitive and behavior problems using a combined neuropsychological, neurological, and special education approach.

MENTAL HEALTH

▶ See Behavioral Psychology, Clinical Psychology, Family Center, Psychiatry.

MENTAL RETARDATION

▶ See Developmental Pediatrics and Down syndrome.

METABOLIC DISORDERS

Richard I. Kelly, M.D., Ph.D.
(410) 550-9444

Diagnosis, treatment, and genetic counseling for inborn errors of metabolism, especially mitochondrial diseases and disorders of organic acid, fatty acid, and sterol metabolism.
▶ Also see Neurogenetic Diseases.

NEONATAL INTENSIVE CARE FOLLOW-UP

Marilee Allen, M.D.
(410) 550-9281

Comprehensive developmental follow-up services are provided for high-risk NICU infants, children and their families.

METABOLIC AND BIOCHEMICAL DISORDERS

Richard Kelly, M.D., Ph.D.
(410) 550-9444

RETT SYNDROME AND NEURODEGENERATIVE DISORDERS

Sakkubai Naidu, M.D.
(410) 550-9409

NEUROLOGY

Michael Johnston, M.D.
(410) 550-9492

Evaluation and therapeutic intervention for children with metabolic and degenerative brain disorders, epilepsy, Rett syndrome, movement disorders, cerebrovascular disorders, brain and spinal cord injuries.

NUTRITION

Jackie Krick, M.S., R.D.
(410) 550-9441

Diagnostic nutrition evaluation and ongoing management are provided to children and adolescents with developmental disabilities, including cerebral palsy, inborn errors of metabolism, seizure disorders, failure-to-thrive, oral motor dysfunction and dysphagia requiring enteral feeding support.

OCCUPATIONAL THERAPY

Kristin Brockmeyer-Stubbs, M.S., OTR
(410) 550-9437

Occupational therapists work to improve fine motor skills and activities of daily living--eating, dressing, hygiene, toileting, play and adaptive seating. Patients with swallowing dysfunctions are seen in this program.

ORTHOPEDIC DISORDERS

▶ See Cerebral Palsy.

PHYSICAL THERAPY

Susan Harryman, M.S., PT
(410) 550-9435

Physical therapists treat children who have problems with gross motor skills and tone, assess adaptive equipment needs and train families in home management.

ADRENOLEUKODYSTROPHY, ZELLWEGER SYNDROME, AND PEROXISOMAL DISORDERS

Hugo W. Moser, M.D.
(410) 550-9405

PSYCHIATRY AND BEHAVIORAL GENETICS

Allan L. Reiss, M.D.
(410) 550-9485

PSYCHIATRY

Psychiatric evaluation and treatment are provided for children with developmental, genetic and acquired neurological disorders. Conditions include autism, mood disorders, attention deficit disorder, self-injurious behavior, learning disabilities, sleep disorders, neurobehavior problems and in utero drug exposure.

BEHAVIORAL NEUROGENETICS

Clinical evaluations and treatment are offered for behavioral or neuro-psychiatric problems of patients with genetic conditions, such as Fragile X syndrome, Williams syndrome, Turner syndrome, tuberous sclerosis, phenylketonuria, Klinefelter syndrome and chromosomal disorders.

REHABILITATION AND PHYSICAL MEDICINE (PHYSIATRY)

James R. Christensen, M.D.
(410) 550-9440

Evaluation, treatment and follow-up are provided to patients recovering from severe brain or spinal cord injuries or other acquired neurological deficits. Services include acute rehabilitation, prescription of braces (orthotics), electrodiagnostic evaluations, cognitive retraining, school re-entry, outpatient follow-up, and family education and counseling.

SOCIAL WORK

Judith M. Levy, M.S.W., L.C.S.W.
(410) 550-9411

Social workers help patients and families adjust to the diagnosis of developmental disabilities or other medical conditions, as well as ongoing realities and stresses. Social work staff assists in locating necessary resources, and provides individual and family counseling to enhance the family's coping abilities.

SPEECH AND LANGUAGE

Jan Turner, Ph.D.
(410) 550-9450

Speech and language therapists evaluate hearing, language, articulation, voice fluency and speech motor abilities to determine if problems are affecting overall performance. Ongoing therapy and recommendations are offered.

SPINA BIFIDA

Stephen Kinsman, M.D.
(410) 550-9250

Evaluation and treatment are provided by specialists in pediatric neurology, neurosurgery, orthopedics and urology for patients with birth defects such as spina bifida, hydrocephalus, injury to the spine at birth, and other related conditions.



HOMHEALTH SERVICES

Children with special needs may require a broad range of services, which may be provided in the home. An interdisciplinary team of specialists—physicians, nurses, physical therapists, occupational therapists, speech pathologists and social workers—have extensive experience in managing patients with complex medical and rehabilitation needs, and are highly skilled in bringing hospital-quality care into the home. Home visits, treatments, therapies, counseling sessions and follow-ups vary in frequency and intensity based on the needs of each patient and family. Services are available 24 hours a day, seven days a week. Call (410) 288-3030 to talk to a Home Health Coordinator.

FACTS ABOUT...

KENNEDY KRIEGER INSTITUTE

▶ Internationally recognized facility dedicated to improving the lives of children with brain disorders through research, teaching and comprehensive patient care. Children from as far as Russia, New Zealand, Ireland and United Arab Emirates receive services at Kennedy Krieger.

▶ Trains over 300 health care professionals annually who go on to work nationwide in other programs designed to assist individuals with disabilities.

▶ Accredited by the Joint Commission on Accreditation of Healthcare Organization (JCAHO), Commission on Accreditation Rehabilitation Facilities (CARF) and Stat Department of Education.

▶ For patients who require hospitalization, Kennedy Krieger operates a 57-bed inpatient unit, encompassing neurodevelopment, rehabilitation, metabolic and degenerative disorders, behavior and feeding disorders.

▶ In 1979, Kennedy Krieger established the first pediatric brain injury unit in the region with research and teaching components. It is the only such CARF accredited program in the state. The majority of Maryland's severely head injured children are referred to this unit to relearn skills lost during an accident or illness.

▶ As a University Affiliated Program, Kennedy Krieger has a professional relationship with The Johns Hopkins University School of Medicine and Hospital.

▶ Kennedy Krieger is financially independent, with major funding coming from private donations, grants and patient fees.



ASSISTIVE TECHNOLOGY

Sharon Glennen, Ph.D., CCC-SLP

(410) 550-9519

Assistive aids and devices are prescribed for patients with developmental and neurological disabilities. Services include augmentative communication prescriptions, computer adaptations, seating and positioning modifications, powered mobility assessment, and evaluation for environmental controls.

ATTENTION DEFICIT HYPERACTIVITY DISORDER

► See Learning Disabilities.

AUDIOLOGY

John Heinz, Ph.D.

(410) 550-9450

Infants and children with multiple handicaps receive audiological and hearing aid evaluations, central auditory processing testing, aural rehabilitation and electrophysiological auditory testing. Customized hearing aids are prescribed and fitted.

AUTISM AND PERVERSIVE DEVELOPMENTAL DISORDERS

► See Behavioral Psychology, Developmental Pediatrics and Psychiatry.

BEHAVIORAL PSYCHOLOGY

Gary Pace, Ph.D.

(410) 550-3100

Assessment, treatment and management strategies are offered for children with or without developmental disabilities who exhibit behavior problems such as self-injury, aggression or property destruction. School and in-home interventions are provided to assist with the establishment of routines. Specialty clinics are focused on autism and psychiatric developmental disorders, behavioral problems of children with other developmental disabilities and problems related to hospitalization and chronic illness.

BRAIN INJURY

► See Rehabilitation.

CEREBRAL PALSY

Charles E. Silberstein, M.D.

(410) 550-8100

Assessment, treatment and post-surgical management are provided for children and adults with orthopedic problems related to cerebral palsy. In addition to lower and upper extremity assessments, specialized services of assistive technology, muscle tone management by medication or rhizotomy, nutritional management, seating clinic and feeding program are offered.



CLINICAL PSYCHOLOGY

Shirley Mark, M.S.

(410) 550-9442

Developmental, clinical and neuropsychological evaluations are given that are sensitive to disorders in communication, learning, memory, attention and perception.

COMMUNICATION DISORDERS

► See Speech and Language.

DEVELOPMENTAL PEDIATRICS

Bruce Shapiro, M.D.

(410) 550-9880

The clinical programs and services of Developmental Pediatrics provide a continuum of evaluation and treatment in the area of developmental disabilities. In consultation with the referring physician, clinical programs work closely with community service delivery systems such as the Infants and Toddlers Program, the special education programs of the various local school systems, as well as private agencies and providers to facilitate the implementation of appropriate treatment plans.

Evaluation teams may include a developmental pediatrician, nurse practitioner, clinical and behavioral psychologists, physical and occupational therapists, audiologists, speech/language pathologists, social workers, psychiatrists, and others as needed.



NEURODEVELOPMENTAL DISORDERS

Alexander Hoon, M.D.

(410) 550-8097

Focuses on the early identification of developmental delay in the birth to two year old child, with particular emphasis on motor development and cerebral palsy.

PRESCHOOL DEVELOPMENT DISORDERS AND AUTISM

Rita Panoscha, M.D.

(410) 550-8097

Offers an interdisciplinary evaluation of the preschool child with particular focus on communication and cognition.

DEVELOPMENTAL CONTINUITY CLINIC

Thomas St. John, M.D.

(410) 550-8097

Provides evaluation and long term management of children with moderate to severe or multiple developmental disabilities.

DOWN SYNDROME

George T. Capone, M.D.

(410) 550-9420

Care of individuals with Down syndrome is offered from infancy through age 21. Ongoing developmental assessment and treatment, behavioral management, consultative and preventive medical care, and parent support are emphasized.

Kennedy Krieger Institute

*A Comprehensive Resource For Children With Disabilities
Prepared for the March of Dimes Birth Defects Foundation*

Individuals We Serve

Kennedy Krieger provides evaluation and treatment services to individuals from infancy through age 21 who have or are at risk for:

Autism
Cerebral Palsy
Behavioral Disorders and
Psychiatric Problems
Down Syndrome
Feeding Disorders
Head and Spinal Cord Injuries

Lead Poisoning
Learning Disabilities
Mental Retardation
Metabolic and Degenerative Diseases
Motor and Language Delays
Spina Bifida

Nationally Recognized Specialties

The services offered at Kennedy Krieger are highly specialized, interdisciplinary, and are designed to meet the complex needs of the children and adolescents for whose care you have concern. We can be especially helpful to these children through the following programs:

Neurogenetic Diseases

Prenatal diagnosis and therapies are offered for children with disorders that may lead to mental retardation, cerebral palsy, and other brain disorders; physical malformations; the leukodystrophies, and Rett syndrome. Specific therapies include dietary, medical, pharmacological agents, enzyme replacement and transplants. These are combined with comprehensive habilitative programs, including communication sciences, orthopedics, physical and occupational therapy and special education.

Metabolic Disorders

Diagnosis, treatment, and genetic counseling for mitochondrial diseases and disorders of organic acid, fatty acid, and sterol metabolism. Special areas of interest are congenital malformation syndromes caused by inborn errors of metabolism such as Smith-Lemli-Opitz.

Spina Bifida

Evaluation and treatment by specialists in pediatric neurology, neurosurgery, orthopedics and urology for patients with birth defects such as spina bifida, hydrocephalus, injury to the spine at birth, and other related conditions.

Down Syndrome

Initial and follow-up evaluations, preventive medical screening, and ongoing treatment and therapy to children with Down Syndrome. Special focus on difficult behaviors.

Feeding disorders

Evaluation and treatment of children whose oral intake is impeded by physical conditions such as cleft lip and palate and by a number of chromosomal disorders. The program combines the expertise of pediatric gastroenterology and behavioral psychology to help infants and children who are failing to consume the appropriate amount of nourishment to survive.

Cerebral Palsy

Interdisciplinary approach to ensuring optimum care for individuals from birth throughout life. Assessment, treatment, and post-surgical management for individuals with cerebral palsy and related disabilities. Determine etiology and health needs, orthopedic and muscle tone management services, upper extremity and rhizotomy assessments, assistive devices, nutritional management, seating and equipment adaptations and services coordination.

Genetic Laboratory Services

Carrier detection, diagnostic testing and therapeutic monitoring of amino acid and organic acid abnormalities, peroxisomal disorders, and lysosomal storage. Diseases may include adrenoleukodystrophy (ALD), Zellweger syndrome, Tay Sachs disease, Canavan disease, Smith-Lemli-Opitz syndrome and many others.

The Team Approach

An interdisciplinary team approach, a staff of physicians and clinicians who are skilled in caring for individuals with brain disorders, and an emphasis on continuity of care contribute to Kennedy Krieger's effectiveness. The staff works with primary care providers, case managers and parents to ensure delivery of the best inpatient, outpatient and home health care for each child.

Financial Services

If insurance benefits fail to cover the full cost of services, our staff will assist with locating other agencies or private sources to help with medical reimbursement. Payment plans for uncovered services also are available.

We Can Help

We welcome your referrals. To inquire about our services, call our toll-free number (800) 873-3377, or you may call the Referral Specialists directly at (410) 550-9400.



Kennedy Krieger Institute

Kennedy Krieger Institute
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