

## Motor Disabilities

Motor development is the most visible of innate abilities. It involves movement, control, dexterity, and flexibility. This landing pad highlights resources including research and guidance (Why Do It?), articles (Read All About It), videos and DVDs (See for Yourself), and web resources (Find It Online) that can support professionals and family members in identifying and addressing motor disabilities in very young children. Featured resources are high-quality, readily available, and no-cost or low-cost. A special section (Virginia Guidance) features state-specific resources.





Why Do It?



Find It Online



Read About It



Virginia Guidance

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## Why Do It?

### **Early Motor Intervention: The Need for New Treatment Paradigms**

The authors report results that neither of the two treatment models that are commonly used with young children with motor disabilities was effective in enhancing the children's rate of motor development or quality of movement, at least over a 1-year time period. These findings add to an increasing body of literature indicating that contemporary procedures are not adequately meeting the hopes and vision for motor intervention. These findings also serve as a call for the field to explore alternative treatment methods for providing services. In particular, there is a need for greater involvement of parents in intervention.

[http://depts.washington.edu/isei/iyc/mahoney\\_17\\_4.pdf](http://depts.washington.edu/isei/iyc/mahoney_17_4.pdf)

### **Evidence and Outcomes for Power Mobility Intervention with Young Children**

Laura Hansen's bibliography includes selected information about evidence for the use of power mobility to assist young children with motor challenges to participate in daily activities.

[http://www.fipp.org/Collateral/casemakers/casemakers\\_vol4\\_no1.pdf](http://www.fipp.org/Collateral/casemakers/casemakers_vol4_no1.pdf)

### **Prescribing Therapy Services for Children with Motor Disabilities**

This policy statement from the American Academy of Pediatrics defines the context in which rehabilitation therapies should be prescribed, emphasizing the evaluation and enhancement of the child's function and abilities and participation in age-appropriate life roles.

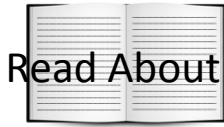
<http://pediatrics.aappublications.org/content/113/6/1836.full>



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## See For Yourself

### Pathways Videos

The Pathways Awareness Foundation has created a series of free videos demonstrating the promise of early physical and occupational therapy for children with a wide range of concerns. Specific examples are listed below.

#### **Learning to Move Through Pediatric Physical Therapy: Ava's Story**

This video highlights the difference pediatric physical therapy has made for a child who was born prematurely.

#### **Sensory Integration: Meet Ryder**

Watch this video to see how therapy helps Ryder overcome sensory issues and learn the joy of playing with peers.

#### **Torticollis and the Importance of Tummy Time: Meet Jonathan**

This video shows how Jonathan's positional torticollis is addressed with early pediatric physical therapy.

<http://www.pathwaysawareness.org/top/pathways-videos>

### Recognizing Early Motor Delays

This video shows and describes two 6-month old babies, one of whom is developing typically and one of whom is not.

<http://www.youtube.com/watch?v=Mxe1mUdUnP0&feature=relmfu>

### Role of Occupational Therapy with Infants, Toddlers, and Families

This set of PowerPoints from the American Occupational Therapy Association highlights ways in which occupational therapists can support young children with challenges in fine motor development.

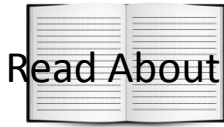
<http://www.aota.org/Practitioners/PracticeAreas/Pediatrics/Browse/EI/Role-of-OT.aspx?FT=.pdf>



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## Find It Online

### **Fine Motor Skills for Infants, Toddlers, and Children**

This website highlights typical fine motor milestones, identifies red flags, and offers guidance on referrals for additional information.

<http://www.earlyinterventionsupport.com/development/finemotor/default.aspx>

### **Gross Motor Skills for Infants, Toddlers, and Children**

This website highlights typical gross motor milestones, identifies red flags, and offers guidance on referrals for additional information.

<http://www.earlyinterventionsupport.com/development/grossmotor/default.aspx>

### **United Cerebral Palsy (UCP)**

UCP educates, advocates and provides support services to ensure a life without limits for people with a spectrum of disabilities. The UCP website offers a variety of resources for individuals with motor disabilities.

<http://www.ucp.org>

### **Motor Disorders: Assessment and Intervention for Young Children (Age 0 - 3 Years)**

These clinical practice guidelines are intended to provide parents, professionals, and others with recommendations, based on the best scientific evidence available, with best practices for assessment and intervention for young children with motor disabilities. The guidelines were developed to help children and their families learn about appropriate and effective services, provide an education and information resource for professionals, promote consistency in service delivery, facilitate productive communication among professionals, and facilitate quality improvement in early intervention services.

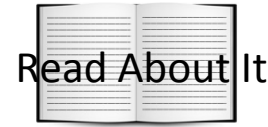
<http://www.health.ny.gov/publications/4961.pdf>



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## Read About It

### **Developmental Surveillance: Early Identification of Motor Delays Improves Outcomes**

Dr. Raymond Tervo's article highlights the ways in which early recognition and intervention can help prevent secondary problems related to developmental delays and change the overall outcome of the disability.

<http://www.gillettechildrens.org/fileupload/1999-01%20%20Developmental%20Surveillance%20-%20Early%20ID%20of%20Motor%20Delays%20%20Vol%2008%20No%2001.pdf>

### **Early Intervention: Assistive Technology for Motor Intervention**

Author Laurie Potts asserts that **using assistive technology for young children with disabilities** can make a significant difference, enabling them to achieve full integration into home, school, and community activities. She shares examples in this article.

<http://www.rifton.com/resources/articles/fieldissues/assistivetechology.html>

### **The Role of Parents in Early Motor Intervention**

Authors Gerald Mahoney and Frida Perales discuss findings from a study conducted with young children with a variety of motor disabilities. They found that parents, who are the people with the greatest opportunities to promote children's motor learning, are not being asked to become active participants in their children's motor intervention. They also found that contemporary models of motor intervention have been focusing on motor learning activities that are incompatible with contemporary theories and research on early motor learning.

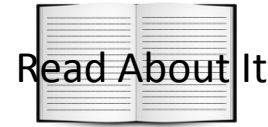
<http://www.down-syndrome.org/reviews/307>



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## Virginia Guidance Part 1

### **Cerebral Palsy of Virginia**

Cerebral Palsy of Virginia is a non-profit organization serving children and adults with cerebral palsy and other developmental disabilities. Services include advocacy, assistive technology, and information and referral.

<http://www.cerebralpalsyofvirginia.org>

### **Chesapeake Potomac Spina Bifida, Inc.**

This organization's mission is "to support the needs of individuals with spina bifida and related conditions and their families." They serve individuals with spina bifida and their families in Maryland, Virginia and the District of Columbia.

<http://www.chesapeakepinabifida.org/index.shtml>

### **Disability Resources – Virginia**

This site provides a list of Virginia and national resources by disability category. <http://www.disabilityresources.org/VIRGINIA.html>

### **Hypotonia Clinic, Johns Hopkins**

Information on treatment for hypotonia may be found by contacting this clinic.

[http://www.hopkinsmedicine.org/geneticmedicine/Clinical\\_Resources/Hypotonia](http://www.hopkinsmedicine.org/geneticmedicine/Clinical_Resources/Hypotonia)

### **Kluge Children's Rehabilitation Center**

Kluge offers inpatient rehabilitation and outpatient specialty clinics treating a variety of motor disabilities.

<http://uvahealth.com/directions-locations/clinics/krcr/kluge-childrens-rehabilitation-center-krcr>

### **The NewWell Fund**

The Fund offers a low interest loan program that assists Virginians with disabilities to get the assistive technology they need.

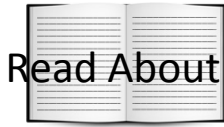
<http://www.atlfa.org>



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## Virginia Guidance Part 2

### **Partnership for People with Disabilities | Virginia Commonwealth University**

The Partnership for People with Disabilities is Virginia's only university center for excellence in developmental disabilities (UCEDD). The mission of the Partnership is to partner with people with disabilities and others to build communities where all people can live, learn, work, and play together. Activities of the Partnership span the lifetime and include activities specific to early intervention and early childhood. <http://www.partnership.vcu.edu>

### **Physical Medicine and Rehabilitation Children's Hospital of the King's Daughters, Norfolk VA**

The physical medicine and rehabilitation physicians at Children's Hospital of The King's Daughters are specially trained physicians who provide a wide range of diagnostic, therapeutic and rehabilitative services for infants, children and adolescents. They help patients gain or regain lost skills or capabilities and maximize potential that has been inhibited by developmental delay, disease or accidents. CHKD offers a variety of outpatient clinics and inpatient services to treat a variety of motor disabilities. <http://www.chkd.org/Services/PhysicalMed>

### **Physical Medicine and Rehabilitation Children's Hospital of Richmond at VCU Richmond VA**

The Children's Hospital offers focused outpatient clinics (e.g., neuromuscular, cerebral palsy, spasticity), a Gait Lab, and a pediatric rehabilitation consult service. <http://www.childrenshosp-richmond.org/CMS/index.php/services/rehab>

### **University of Virginia Charlottesville VA | University of Virginia Children's Hospital, Pediatric Services**

Clinics at this hospital offer diagnosis and treatment of a variety of motor disabilities. <http://uvahealth.com/services/childrens-hospital/pediatric-services>

### **Virginia Birth-Related Neurological Injury Compensation Fund**

This fund may be a resource for families who have a child who experienced a qualifying injury at birth. The child must have been delivered by a participating physician or at a participating hospital. Children who are admitted into the program receive benefits to assist with the medical costs associated with care. <http://www.vabirthinjury.com>

### **Virginia Department of Medical Assistance (VDMAS)**

**Medicaid Waiver Services** An overview of waiver services and descriptions of the Medicaid waivers is provided at this website. [http://www.dmas.virginia.gov/ltc-home.htm#Waiver\\_Services\\_Program](http://www.dmas.virginia.gov/ltc-home.htm#Waiver_Services_Program)

### **Virginia's Medicaid Waivers for Persons with Disabilities, Their Parents, & Caregivers**

This booklet provides more detailed information about Virginia's Medicaid waivers. <http://www.dmas.virginia.gov/downloads/pdfs/ab-ltc-medicaid-waiver.pdf>

# Virginia Early Intervention Professional Development Center

Virginia Commonwealth University | Partnership for People with Disabilities | [www.eipd.vcu.edu](http://www.eipd.vcu.edu)



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