

## **ESSENTIAL ARTICLES OF PM&R**

### **PEDIATRICS**

#### **Authors:**

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#### **Cerebral Palsy**

##### **Proposed definition and classification of cerebral palsy.**

Bax M, Goldstein M, Rosenbaum P, Leviton A, Paneth N (Executive Committee for the Definition of Cerebral Palsy). *Developmental Medicine & Child Neurology* 2005;47:571-76.

##### **Assessment and Treatment of Children with Cerebral palsy.**

*Orthop Clin N Am* 2014;45:313-325.

##### **Changes in muscle activity in children with hemiplegic cerebral palsy while walking with and without ankle-foot orthoses.**

Romkes J, Hell AK, Brunner R. *Gait & Posture* 2006;24(4):467-74.

#### **Pediatric Spasticity**

##### **Practice parameter: Pharmacologic treatment of spasticity in children and adolescents with cerebral palsy (an evidence-based review).**

*Neurology* 2010;74:336-343.

##### **Consensus on the appropriate use of intrathecal baclofen (ITB) therapy in pediatric spasticity.**

*European Journal of Pediatric Neurology* 2010;14:19-28.

##### **Botulinum Toxin A for nonambulatory children with cerebral palsy: A double blind randomized controlled trial.**

*J pediatrics* 2014;165:140-146.

##### **Classification and definition of disorders causing hypertonia in childhood.**

*Pediatrics* 2003;111:89-97.

## **Juvenile Idiopathic Arthritis**

### **Juvenile idiopathic arthritis.**

Pediatrics in Review 2012;33:303-313.

## **Pediatric Brain Injury / Concussion**

### **Neuropharmacology in pediatric brain injury: A review.**

PM&R 2010;2:1127-1140.

### **Concussion in the pediatric and adolescent population: "Different Population, Different Concerns"**

**PM&R 2011;3:S369-S379.** *Effects of concussion on the developing pediatric brain are different from the effects on the older brains. Research suggests that a youth athlete with a concussion should be managed more conservatively than older athletes because of longer recovery times and possible long-term effects on the developing brain and the rare but potentially catastrophic effects of premature return to play.*

## **Pediatric Stroke**

### **Management of stroke in infants and children: AHA Scientific Statement.**

Stroke 2008;39:2644-2691.

### **Effect of dynamic orthoses on gait: A retrospective control study in children with hemiplegia.**

Van Gestel L, et al. Developmental Medicine and Child Neurology 2008;50(1):63-7.

## **CRPS**

### **Outcomes of children with complex regional pain syndrome after intensive inpatient rehabilitation.**

Brooke V, Janselewitz S. PMR 2012 May;4(5):349-54. doi: 10.1016/j.pmrj.2012.01.014. Epub 2012 Mar 30.

### **Lumbar sympathetic blockade in children with complex regional pain syndromes: A double blind placebo-controlled crossover trial.**

Meier PM, Zurakowski D, Berde CB, Sethna NF. Anesthesiology 2009 Aug;111(2):372-80. doi: 10.1097/ALN.0b013e3181aaea90.

### **Noninvasive treatments for pediatric complex regional pain syndrome: a focused review.**

Katholi BR, Daghestani SS, Banez GA, Brady KK. PMR 2014;6(10):926-33.

## **Spina Bifida**

### **Sociodemographic attributes and spina bifida outcomes.**

Schechter MS, Liu T, Soe M, Swanson M, Ward E, Thibadeau J. Pediatrics 2015 Apr;135(4):e957-64. doi: 10.1542/peds.2014-2576. Epub 2015 Mar 16.

### **The National Spina Bifida Patient Registry: Profile of a large cohort of participants from the first 10 clinics.**

Sawin KJ, Liu T, Ward E, Thibadeau J, Schechter MS, Soe MM, Walker W;(NSBPR Coordinating Committee). Collaborators: Brei T, Castillo H, Freeman KA, Joseph D, Sawin K, Smith K, Thomson J, Walker W, Wilson P. J Pediatr 2015 Feb;166(2):444-50.e1. doi: 10.1016/j.jpeds.2014.09.039. Epub 2014 Oct 30.

## **Brachioplexopathy**

### **Outcome in adolescence of brachial plexus birth palsy. 69 individuals re-examined after 10–20 years.**

Hulleberg G, Elvrum AK, Brandal M, Vik T. ActaOrthop 2014 Dec;85(6):633-40. doi: 10.3109/17453674.2014.964614. Epub 2014 Sep 19.

### **Evaluation of elbow flexion as a predictor of outcome in obstetrical brachial plexus palsy.**

Fisher DM, Borschel GH, Curtis CG, Clarke HM. PlastReconstrSurg 2007 Nov;120(6):1585-90.

## **Spinal Cord Injury**

### **Spinal cord injury in the pediatric population: a systematic review of the literature.**

Parent S, Mac-Thiong JM, Roy-Beaudry M, Sosa JF, Labelle H. Spine 2010 Oct 1;35(21 Suppl):S202-8. doi: 10.1097/BRS.0b013e3181f35acb.

### **Spinal cord injury without radiologic abnormality in children: A systematic review and meta-analysis.**

Boese CK, Oppermann J, Siewe J, Eysel P, Scheyerer MJ, Lechler P. J Trauma Acute Care Surg 2015 Apr;78(4):874-82. doi: 10.1097/TA.0000000000000579.

## **Amputation**

### **Pediatric limb differences and amputations.**

Le JT, Scott-wyrd PR. Phys Med RehabilClin N Am 2015;26(1):95-108. *Recent review of pediatric limb differences / amputations. Reviews epidemiology, pathophysiology, postamputation complications, and clinical management of congenital and acquired conditions.*

**Upper limb prosthesis use and abandonment: a survey of the last 25 years.**

Biddiss EA, Chau TT. *ProsthetOrthotInt* 2007;31(3):236-57.

**DMD**

**Diagnosis and management of Duchenne muscular dystrophy, part 1: Diagnosis, and pharmacological and psychosocial management.**

**Bushby K, Finkel R, Birnkrant DJ, et al. *Lancet Neurol* 2010;9(1):77-93.** *Expert consensus on management of DMD, this article provides a framework for recognizing the multisystem primary manifestations and secondary complications of DMD and their treatment.*

**Diagnosis and management of Duchenne muscular dystrophy, part 2: implementation of multidisciplinary care.**

**Bushby K, Finkel R, Birnkrant DJ, et al. *Lancet Neurol* 2010;9(2):177-89.** *Expert consensus on management of DMD, this article provides a framework for provision of multidisciplinary care for this condition, including the importance of PM&R as part of a multidisciplinary team.*

**The 6-minute walk test and other clinical endpoints in duchenne muscular dystrophy: Reliability, concurrent validity, and minimal clinically important differences from a multicenter study.**

Mcdonald CM, Henricson EK, Abresch RT, et al. *Muscle Nerve* 2013;48(3):357-68.

**The cooperative international neuromuscular research group Duchenne natural history study: Glucocorticoid treatment preserves clinically meaningful functional milestones and reduces rate of disease progression as measured by manual muscle testing and other commonly used clinical trial outcome measures.**

Henricson EK, Abresch RT, Cnaan A, et al. *Muscle Nerve* 2013;48(1):55-67.

**SMA**

**Consensus statement for standard of care in spinal muscular atrophy.**

**Wang CH, Finkel RS, Bertini ES, et al. *J Child Neurol* 2007;22(8):1027-49.** *Expert consensus providing a guideline for the management of individuals with spinal muscular atrophy at different levels of functional mobility.*