Neurodevelopment and Primitive Reflexes: 
a Neuropsychological Approach in Neuroscience

Books
Ayers, AJ. (1979) Sensory Integration and the Child. California: Western Psychological Services


Bluestone, Judith (2005) The Fabric of Autism, Weaving the threads into a cogent theory, Saphire Enterprises, Seatle, WA

Bernstein N.A. (1967) Coordination and Regulation of Movement, N.Y. Pergamon Press, USA


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Kephart, NC. (1975) The Slow Learner in the Classroom. Columbus, Ohio: Merrill


Masgutova, Svetlana and Denis Masgutov (2002-2009), Archetype Movements, A Blueprint for Movement and Cognitive Development, Dr. Svetlana Masgutova Institute (Polland).
Masgutova, Svetlana (2007), Integration of Infant Dynamic and Postural Reflex Patterns, Dr. Svetlana Masgutova Institute (Polland).

Masgutova, Svetlana and Nellyn Akhmatova (2002-2010), Re-patterning and Integration of Dysfunctional and Pathological reflexes and Postural Reflex Patterns, Dr. Svetlana Masgutova Institute (Polland).


Pheloung, Barbara (2006) School Floors, Effective Perceptual Movement Programs for your Classroom, Iceform PTY, Australia

Pheloung, Barbara (1997) Help your Class to Learn, Published by Barbara Pheloung, Australia

Pheloung, Barbara (2004) Help your Child to Learn, Published by Barbara Pheloung, Australia

Pheloung, Barbara and King, Jill (1992) Overcoming Learning Difficulties, Published by Doubleway, Australia


Articles


Bender, M.L. (1971) A study of the relationships between persistant immaturity of the symmetric tonic neck reflex and learning disabilities in children. PhD. diss, Purdue University


Brown CG. Improving fine motor skills in young children: an intervention study. Educational Psychology in Practice 2010; 26(3): 269-278

Cripe, Curtis T., Effective Use of Lens Unit as an Adjunct to Cognitive Neuro-Developmental Training, Journal of Neurotherapy, 2006,Volume 10, Numbers 2/3


Krog, Soezin (2010) Movement programmes as a need to learning readiness, Master of Education Thesis under the direction of Prof. D. Krüger, University of South Africa


Perry, Bruce D., Examining Child Maltreatment Through a Neurodevelopmental Lens: Clinical Applications of the Neurosequential Model of Therapeutics, Journal of Loss and Trauma, 14:240-255, 2009


Walker, Robert, Translating Neurodevelopmental to Practice: How to go from fMRI to a home visit, Journal of Loss & Trauma, Jul/Aug 2009, Vol 14 Issue 4, p256-265;10p


Suzanne Day, Neurotherapist - www.neuroclinicbarrie.com
Primitive reflexes are typically present in childhood, suppressed during normal development, and may reappear with diseases of the brain, particularly those affecting the frontal lobes. In this review we discuss some historical aspects surrounding these reflexes, how they might be elicited and interpreted, and their potential clinical utility in modern neurological practice. In the modern era, with detailed non-invasive imaging and neuropsychological testing widely available, the role of eliciting primitive reflexes may seem limited. The complexity of many of these responses makes it perhaps unsurprising that detailed anatomical localisation, despite the availability of structural and functional imaging, has in general not been possible. Primitive reflexes are normal in the infant; however, when present in an adult it becomes concerning for a frontal lobe lesion. This is also known as frontal release signs. Examples of frontal release signs include. In a newborn it is normal to see upgoing toes, this is secondary to non-complete myelination of descending corticospinal tracts. A normal finding in adults is plantar flexion. A present Babinski is suggestive of an upper motor neuron lesion. Grasp. When placing a finger or stroking the palm in the newborn the hand flexes. Appears. birth.