



UNIVERSIDADE FEDERAL DE PERNAMBUCO

CENTRO DE CIÊNCIAS DA SAÚDE

GRADUATE PROGRAM IN PHYSIOTHERAPY



Code	PGFT925		
Name of the subject	Neuromotor Development: Changes, Evaluation, and Physiotherapeutic Intervention		
Course load	45 h	(-) Mandatory	(x) Optional
Subject Program			
Use of neuroanatomy and neurophysiology concepts to study normal and pathological neuromotor development processes; basic principles for understanding the process of normal growth and development: pre- and postnatal development of nervous, muscular, and skeletal systems; effects of motor function on growth; influence of exogenous factors on neuromotor growth and development; and methods to evaluate developmental disorders; and physiotherapeutic intervention strategies.			
References			
<p>BAYLEY, N. Bayley Scales on Infant Development-II. The Psychological Corporation, 2nd ed. San Antonio, TX, 1993. CAMPOS D.; SANTOS, D.C.C.; GONÇALVES, V.M.G; et al. Concordância entre escalas de triagem e diagnóstico do desenvolvimento motor no sexto mês de vida. J Pediatr, 82 (6): 470-4, 2006. GABBARD, C.; SANTOS, D.C.C.; GONÇALVES, V.M.G. Postural influences on manipulative behavior during infancy: a naturalistic observation. In: Trends in Behavioral Psychology Research, Nova Science Publisher, p. 63-69, 2006.. Gallahue, D.L.; Ozmun, J.C. Compreendendo o desenvolvimento motor. Ed. Phorte, 2005 PIPER, M.C.; DARRAH, J. Motor Assessment of the Developing Infant. WB Saunders Company, 1st ed. Philadelphia, 1994. SANTOS D.C.C.; RAVANINI, S.G. Aspectos do diagnóstico do desenvolvimento motor. In: MOURA-RIBEIRO M.V.; GONÇALVES V.M. Neurologia do desenvolvimento da criança. Rio de Janeiro. Revinter; p. 258-269, 2006. Artigos recentes de interesse da área e trabalhos em andamento da linha de pesquisa Artigos: ESTHER THELEN, DONNA M. FISHER, ROBYN RIDLEY-JOHNSON The relationship between physical growth and a newborn reflex. Infant Behavior & Development 25 (2002) 72–85 MAURIZIO SCHMID, SILVIA CONFORTO, LUISA LOPES, PAOLO RENZI AND TOMMASO D'ALESSIO The development of postural strategies in children: a factorial design study Journal of Neuro Engineering and Rehabilitation 2005, 2:29 doi:10.1186/1743-0003-2-29 ALICIA J SPITTLE, LEX W DOYLE ROSLYN N BOYD. A systematic review of the clinimetric properties of neuromotor assessments for preterm infants during the first year of life. Developmental Medicine & Child Neurology 2008, 50: 254–266 ELISA G HAMER, AREND F BOS, MIJNA HADDERS-ALGRA. Assessment of specific characteristics of abnormal general movements: does it enhance the prediction of cerebral palsy? Developmental Medicine & Child Neurology a 2011 Mac Keith Press DOI: 10.1111/j.1469-8749.2011.04007 CAROLINE TEULIER, DO KYEONG LEE, BEVERLY D.ULRICH. Early gait development in human infants: plasticity and clinical applications. Developmental Psychobiology 57: 447-458, 2015. TOMOGO KITAGO; JOHN W. KRAKAUER. Motor learning principles for rehabilitation. Handbook of Clinical Neurology. Vol 110. 2013. HOSHINORI KAZANAVA et al. Cortical muscle control of spontaneous movements in human neonates. European Journal of Neuroscience, 40: 2548-2553, 2014 S.M.HALEY et al. Lessons from use of the pediatric</p>			

evaluation of disability inventory: where do we go from here? *Pediatric Physical Therapy*, 22(1):69-75, 2010.

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