



Cerebral Palsy in Infancy: Targeted Activity to Optimize Early Growth and Development (Hardback)

By Roberta B. Shepherd

Elsevier Health Sciences, United Kingdom, 2013. Hardback. Book Condition: New. 250 x 188 mm. Language: English . Brand New Book. Cerebral Palsy in Infancy is a thought-provoking book which introduces a new way of thinking on the development and use of interventions. Relevant to current practice, it advocates early, targeted activity that is focused on increasing muscle activation, training basic actions and minimizing (or preventing) mal-adaptive changes to muscle morphology and function. The authors present recent scientific findings in brain science, movement sciences (developmental biomechanics, motor control mechanisms, motor learning, exercise science) and muscle biology. This knowledge provides the rationale for active intervention, underpinning the need for an early referral to appropriate services. The book features methods for promoting relatively intensive physical activity in young infants without placing a burden on parents which include assistive technologies such as robotics, electronic bilateral limb trainers and baby treadmills. Cerebral Palsy in Infancy begins by specifying the guidelines for training and exercise, outlining the rationale for such intervention. It goes on to cover the fundamentals of neuromotor plasticity and the development and negative effects of limited motor activity on brain organization and corticospinal tract development. Neuromuscular adaptations to impairments and inactivity are discussed...

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