



Functional Paediatric Physiotherapy I

Basic course in the English language

Assessment and functional treatment of children with Cerebral Palsy

General goals

After having followed the basic course the student will be able to:

- understand and be able to describe the information given about ICF and evidence based research
- know where to look for more information and possible evidence
- understand and be able to analyse normal movement
- understand and be able to analyse abnormal movement
- red flags
- know the available assessment tools
- chose the best assessment tool
- take a systematic history and assessment
- understand interactions between components- body function, activity and participation- and the influence of environmental and personal factors
- analyse goals- and sub-goals
- prepare an intervention programme with goals and sub-goals
- make use of motor-learning principles during treatment
- create an open atmosphere with parents be able to instruct and explain
- evaluate the given treatment
- make a written report of the treatment
- recognize the various (complementary) treatment possibilities worldwide

The therapist will obtain:

- knowledge of the history of physiotherapy and the recent development
- knowledge of the motor planning and motor learning
- knowledge about ICF - WHO classification
- knowledge of use of ICF for the making a therapy plan.
- reading tips – know when is an article is worth reading and understanding the implications
- knowledge of goal setting- learning how to register parents and children's goals, and possible sub-goals
- knowledge of the current assessment tools and their reliability
- knowledge of newest development in science- brain plasticity, neural development and the implications it could have for therapy
- understanding of the principles of functional physiotherapy
- practical training in video analysis of various assessment possibilities and practical training in goal setting

The student will:

- obtain knowledge of definition and classification of cerebral palsy
- know the uses and limitations of the classification system
- have knowledge of connection between the disorder(lesion) and the symptoms
- obtain knowledge of possibilities for early recognition
- know about the prognostic assessments possibilities
- analyse child's problem, make a treatment plan with goal
- know about current evidence based therapies
- know about possible total treatment using the home front- teachers (pedagogic goal-setting)
- know where to find literature about current professional development in the treatment of CP

Course content

- observing and analysing movement
- GMFM 88 - 66
- GMFCS professionals and parent
- MAC
- PEDI
- FMS
- SAROMM and ROM
- QUEST
- tone assessment
- observing child & preparing treatment goals using ICF-
- DST theory & NGS theory
- Hyper-tonicity management
- Hypo-tonicity management
- motor learning principles
- functional therapy approach
- pedagogic –didactic principles
- video analysis of assessment tests
- video analysis of treatment

lesson units: (4 x 2 hr)

1. introduction – history of physiotherapy - from method to function
2. theory of WHO- ICF classification and motor theories
3. goal setting theory and practise
4. assessment tools - theory and practise- adults and children

lesson units: (6 x 2 hours)

1. observation of movement of the child with CP
2. preparing functional treatment goals
3. video analysis of GMFM 88-66 and GFMCS
4. practical training of PEDI, MACS, SAROMM, ROM, QUEST and FMS
5. pro's and con's of muscle tone assessment
6. video analysis children – assessment and therapy

Recommended reading:

About ICF- obtainable on websites of: www.wcpt.org and www.who.org in English and partially in Spanish

Evidence based therapy for CP: www.aacpdm.org

About motor learning and assessment:

Motor Control: Theory and practical applications edition 3

Shumway- Cook A, Woolacott M. third edition www.lww.com

Motor Assessment of the developing infant. Saunders 1994

Piper M.C., Darrah J. www.elsevier.com

About cerebral palsy:

Physical Therapy of Cerebral Palsy

Freeman Millar www.springer.com

The Gross Motor Function measure (GMFM 66-88 users manual)

www.blackwellpublishing.com

Children with Cerebral Palsy: Functional approach to physical therapy by M.

ketelaar www.eburon.nl ISBN 90 5166 683 7

The HELP guide to Cerebral Palsy

www.global-help.org