

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

# **COURSE SYLLABUS**

# **Rehabilitative Sciences 1**

2425-2-I0202D142-I0202D115M

#### **Aims**

At the end of the course the student must be able to evaluate the child with orthopedic pathologies, the level of development and skills of the preterm child

#### **Contents**

REHABILITATIVE SCIENCES 1: The therapist role in Neonatal Intensive Care Unit (NICU). Brazelton's behavioural observation. Abilitative-rehabilitative therapy to the neonatal patient in NICU. Breathing physiotherapy in NICU. Rehabilitative techniques and rehabilitation process in the orthopaedic pathology.

### **Detailed program**

**REHABILITATIVE SCIENCES 1** 

- ? Post fracture Rehabilitative treatment (adult-child, comparisons)
- ? Hip dysplasia, congenital clubfoot and alleged forefoot
- ? Postural asymmetry and Congenital Torticollis
- ? Infant Scoliosis
- ? Obstetric paralysis

- ? Role of physiotherapist in NICU (areas and means of action)
- ? The care in NICU. Hints to sensory development in fetal life
- ? General principles of care for premature
- ? Presentation of Brazelton form in NICU (signs of stress and self regulation)
- ? Program of postural care (presentation of video)
- ? Analysis of individual postures: supine, prone, right side and left, semi-sitting
- ? Speech habilitation / rehabilitation for the child in NICU
- ? Customized help to preterm child development in NICU
- ? Sensory Experiences (Tender Touch Program, visual and auditory experience)
- ? Kangaroo Mother Care
- ? Handling
- ? Feeding Function
- ? Aids in NICU
- ? The SIDS in NICU
- ? Habilitative Counseling after discharge from TIN (hints)
- ? Video Observations
- ? Taking Charge of clinical cases in neonatal intensive care

# **Prerequisites**

Objectives of the Child Orthopedics and Child Neurology and Neuropsychiatry courses

# **Teaching form**

Delivery Teaching (DE) through frontal lessons Interactive Teaching (DI) through practical exercises with a mannequin and video analysis

# **Textbook and teaching resource**

1. Grassi, Pazzaglia, Pilato, Zatti, Manuale di ortopedia e traumatologia, Elsevier Masson, 2007.

- 2. R. Seringe, Anatomie pathologique du pied bot varus equin, Annales de chirurgie, 107-118, 1977.
- 3. Ponesti, Piede torto congenito: il metodo Ponesti, Lynn Stateli Ed., 2005.
- 4. Di Meglio, Bonnet, Rieducazione del piede torto varo equino, Engel Med. Chir., Medicina Riabilitativa, 26-42B-b-10,1997.
- 5. A.I.F.E.: Triangolo di valutazione pediatrica. www.aife.it
- 6. Teacher's handsouts

#### Semester

Second year, First semester

#### **Assessment method**

Written exam: quizzes with single / multiple choice and open questions with brief answer.

Final oral exam at the discretion of the teacher or on the student's proposal regarding the project

#### Office hours

by appointment, teacher's mail address: marina.brambilla@unimib.it

# **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING