

November 22, 2023

## EM283: IBITA Advanced Course - Overview on the re-education of locomotion: how each body segment contributes to the realization of efficient gait



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Re-educating walking after central injury remains the "golden goal" of rehabilitation and the first goal for many patients.

Current knowledge in neuroscience and biomechanics has enriched the basis for building a tailor-made treatment in different clinical conditions.

The aim of the course is to look at locomotion as a complex function that involves the entire neuro-musculoskeletal system in order to identify specific problems of each individual patient, build an individualized treatment and develop clinical reasoning on the basis of scientific evidence. The course is very oriented towards developing clinical observation skills and manual skills for the treatment of patients in relation to the theoretical knowledge provided directly by researchers in the field.

For this reason, although it is open to all those who have participated in a Bobath Basic course, it is particularly recommended as a second (or subsequent) advanced course.



40 Seats



€920.00



40 Hours



50 ECM

#### INTENDED FOR

Doctors,  
Physiotherapists,  
Occupational Therapists

#### PAYMENTS

Deposit €490.00 within 7 days from the registration

Balance €430.00 by date  
November 15, 2023

**Total: €920.00**

#### CALENDAR

22 - 26 November 2023

#### LANGUAGE

Italian - English with  
Italian consecutive  
translation

**COURSE LOCATION:** BRESCIA @ EDUMED FORMAZIONE

## SCHEDULE

### PROGRAMMA

#### First day

08.30-09.00 Registration of participants and presentation of course objectives

09.00-10.30 Lecture: Food for thought from the webinar: Biomechanical requirements for functional movement efficiency: insights to understand human locomotion" - Considerations for clinical practice

Discussion between teachers and participants and integrations from the literature

10.30-11.00 Lesson: Synergies for locomotion

11.00-11.15 Coffee breaks

11.15-12.45 Demonstration of patient A by teachers in collective session

12.45-13.00 Summary of clinical reasoning and discussion

13.00-14.00 Lunch

14.00-15.15 Treatment of clinical cases by course participants (working couples) with high supervision by teachers

15.15-15.45 Discussion of the clinical case treated within the working group with the guidance of the assigned teacher - Definition of the critical elements of the evaluation for the first treatment hypothesis

15.45-16.00 Coffee breaks

16.00-18.00 Practical laboratory 1: Postural control for verticality and the first step

## **Second day**

08.30-09.45 Lesson: Analysis of locomotor problems in different clinical conditions (Part A – Hemiplegia)

09.45-11.00 Lesson: Lecture: Analysis of locomotor problems in different clinical conditions (Part B – Incomplete spinal injuries)

11.00-11.15 Coffee breaks

11.15-12.45 Demonstration of patient A by the teachers in collective session

12.45-13.00 Progression of clinical reasoning: discussion

13.00-14.00 Lunch

14.00-15.15 Treatment of clinical cases by course participants (working couples) with supervision of teachers

15.15-15.45 Discussion of the clinical case treated within the working group with the guidance of the assigned teacher - Definition of the critical elements of the treatment and progression hypothesis

15.45-16.00 Coffee breaks

16.00-18.00 Practical laboratory 2: The stability of the head-neck-shoulder blades-thorax system to orient the propulsion line and ensure the anchorage of the locomotor system

## **Third day**

08.30-09.45 Lesson: Analysis of locomotor problems in different clinical conditions (Part C – Multiple Sclerosis/Ataxia)

09.45-11.00 Lesson: Lecture: Analysis of locomotor problems in different clinical conditions (Part D – Parkinson's disease)

10.45-11.00 - Coffee breaks

11.00-12.30 Demonstration of patient A by the teachers in collective session

12.30-13.00 Summary of clinical reasoning and treatment techniques. Collective discussion

13.00-14.00 Lunch

14.00-15.15 Treatment of clinical cases by course participants (working couples) with supervision of teachers

15.15-15.45 Discussion of the clinical case treated within the working group with the guidance of the assigned teacher - Definition of the critical elements of the treatment and progression hypothesis

15.45-16.00 Coffee breaks

16.00-18.00 Practical laboratory 3: The swing of the arms to stabilize the COM and favor propulsion

#### **Fourth day**

08.30-10.45 Practical laboratory 4: The chest-pelvis relationship to favor the transfer of AP and LL load

10.45-11.00 - Coffee breaks

11.00-12.30 Demonstration of patient B by the teachers in collective session

12.30-13.00 Summary of clinical reasoning and treatment techniques. Collective discussion

13.00-14.00 Lunch

14.00-15.15 Treatment of clinical cases by course participants (working couples) with supervision of teachers

15.15-15.45 Discussion of the clinical case treated within the working group with the guidance of the assigned teacher - Definition of the critical elements of the treatment and setting up the re-evaluation

15.45-16.00 Coffee breaks

16.00-18.00 Practical workshop 5: The foot for the absorption of impact forces, for the stabilizer of the COP and for propulsion - Taking a step in preparation for the stairs

#### **Fifth day**

08.30-10.45 Practical workshop 6: The lateral stability system for SLS: promoting the contralateral swing and changes of direction

10.45-11.00 Coffee breaks

11.00-12.30 Demonstration of patient B by the teachers in collective session

12.30-13.00 Summary of clinical reasoning and treatment techniques. Collective discussion

13.00-14.00 Lunch

14.00-15.15 Treatment of clinical cases by course participants (working couples) with supervision of teachers

15.15-16.15 Presentation of a case study by the teachers using the MBCP

16.15-17.00 Last questions, ECM practical test and conclusion of the course