



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Assessment and Recovery of Spinal Cord Lesion

1920-2-I0201D109-I0201D132M

Aims

- know and understand the use of new available technologies for rehabilitation

Contents

Detailed program

- robotics in physiscal therapy: principles and rationale
- systems for data collection and data analysis
- robotic deveices (upper and lower limb)
- virtual reality

- efficacy and limitation of the robotic rehabilitation

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

Swinnen E, Beckwée D, Meeusen R, Baeyens JP, Kerckhofs E. Does robot-assisted gait rehabilitation improve balance in stroke patients? A systematic review. *Top Stroke Rehabil.* 2014 Mar-Apr;21(2):87-100

Krebs HI, Hogan N. Robotic therapy: the tipping point. *Am J Phys Med Rehabil.* 2012 Nov;91(11 Suppl 3):S290-7

Krebs HI. Robotic technology and physical medicine and rehabilitation. *Eur J Phys Rehabil Med.* 2012 Jun;48(2):319-2

Lewis GN, Rosie JA. Virtual reality games for movement rehabilitation in neurological conditions: how do we meet the needs and expectations of the users? *Disability and Rehabil.*

2012 ;34(22):1880-6.

Semester

1st semester

Assessment method

Described in the subject's syllabus

Office hours

By appointment

