

Mild and Severe Brain Injury SIG Program (90 minutes)

A. To measure Mild and Severe BI: issues and challenges in treatment and research.

(25 minutes)

Many neurobehavioural, disability or outcome scales, together with imaging and neurophysiological exams, are used in the assessment of Mild and Severe BI although often misapplied or misused. We propose an overview with the intention to punctuate the power, issues and defined utility of these assessment tools.

B. Evaluation of new therapeutical means and research approaches for TBI

(25 minutes)

We will describe and discuss the new means used in the therapy and research of the BI field and particular attention will be focused on issues and perspectives of robotics, surgery (DBS) and neurophysiology (tDCS, TMS, etc) which are now broadly used both in the acute and in the chronic treatment phase.

C. How to consider comorbidities in the treatment of TBI

(25 minutes)

In the third part of the meeting the Comorbidities in a BI patient will be considered. They may highly vary depending on multiple variables such the phase of the disease (acute and chronic) and age (child, young/adult and elderly): we will expose and delineate difficulties that may arise in the therapies of BI.

12.00 Discussion with the audience

(15 minutes)

The focus will be to outline three main issues on this topic:

- (a) the robotics and technological uses for the rehabilitation
- (b) comorbidities in the acute and chronic phase of BI
- (c) measures and assessment

These are challenging topics for the neuro-rehabilitation treatment of TBI patients, and a large discussion is needed both for clinical practice and research.