With more than 90 million new cases of traumatic brain injury, acute brain injuries are a major healthcare concern worldwide. In the past 30 years of neuro-critical care, numerous therapies and medication have failed to improve patients’ neurological recovery. Recently, major concerns have raised regarding the clinical relevance of the scales which assess neurological recovery, along with methodological flaws such as high inter-rater variability and the lack of patient assessment of his/her situation within these scales. These issues could explain the failure in identifying promising new therapeutics after acute severe brain injury. Owing the catastrophic waste in research funding, the development of Core Outcome Sets is urgently needed. Core Outcome Sets in clinical research could enhance the relevance of outcomes in clinical research and thus help clinicians and health-care systems is the clinical decision process. The aim of our group is to develop a Core Outcome Set in patients with traumatic brain injury and clinical severity, requiring hospitalization in a critical care unit.

The goal of this project is to evaluate patient’s neurological recovery after trauma and adapt criteria used in clinical research. At this stage, the project will be delineated in 2 topics:

1) First we will perform a literature search of objectives used in clinical trials in head trauma
2) Second we will perform focus groups and semi-structured interviews with patients who underwent traumatic brain injury, as well as caregivers. The goal of these meetings is to elaborate key points and classify the most relevant criteria that could be used in trials.

These first steps will enable to delineate priorities in neurological recovery after traumatic brain injury that will be used in clinical research.