

## Scientific/Clinical Workshop

### Workshop Title

The methodology of research in rehabilitation technology

### Workshop Responsible

Chiara Arienti (IRCCS Fondazione Don Carlo Gnocchi, Milan, Italy)

### Speakers

Stefano Lazzarini, Chiara Arienti

### Attendee Engagement

We will plan to involve the attendees with a Journal Club exercise and a final discussion of the results.

### Abstract

In the last 20 years, rehabilitation research has constantly grown (3% per year) at a faster rate than research in general. In 2017, 19% and 28% of the total production of scientific articles for rehabilitation and physical therapy (respectively) were for randomized controlled trials (RCTs) and systematic reviews versus 11% for drug therapy 10. Despite these results, it is commonly believed that the complexity of the population, the wide variety of interventions, and the heterogeneity of the outcomes in the rehabilitation field make difficult to keep the classical methodological standards to produce high quality evidence. To keep the high standards of the rehabilitation technology research, it is important to educate researcher and clinicians on how to adapt the EBP principles to the rehabilitation research in technology field. The aim of this workshop will be to teach to the participants on how to identify, implement and interpret evidence in rehabilitation technology.

The session will be divided into three main lectures:

1. The principle of research in rehabilitation technology
2. How to find the evidence
3. The importance of critical appraisal of evidence
4. Journal club exercise