

## Scientific/Clinical Workshop

### Workshop Title

Clinical Protocols for Technology-Assisted Rehabilitation: Which Factors Should Be Addressed and How to Define Them?

### Workshop Responsible

Serena Maggioni  
Raffaele Ranzani

### Speakers

Anne Schwarz, Liliana Paredes, Giovanni Morone, Natacha Leon

### Attendee Engagement

We will divide the people in smaller working groups to stimulate the discussion and let them present their conclusions. People will then vote to prioritize the different factors proposed by the groups. If people are interested in continuing the work in this direction, we will collect their contact details and involve them in further work related to the development of clinical protocols.

### Abstract

Rehabilitation has seen the introduction of many different technological devices over the last two decades. They are used to treat a wide range of pathologies and target many different therapy goals. What is missing, however, are established clinical protocols that allow to fully exploit the potential of these devices. In this workshop, we will discuss what factors (e.g. sessions frequency and duration, exercise difficulty etc.), need to be considered to develop good clinical protocols for upper limb rehabilitation, and identify gaps in current evidence. The desired outcome of the workshop is a list of 1) factors that clinicians want to see addressed in clinical protocols, 2) existing sources that can be utilized to create such protocols (e.g. guidelines, expert consensus, databases etc.) and 3) identified gaps on knowledge and suggestions on how to close them. This preparatory work will promote a discussion on how to create evidence-based clinical protocols for rehabilitation devices and pave the way to the effective drafting of the clinical protocols. While the topics discussed here can be applied to upper limb and gait rehabilitation, the focus of this workshop will be mainly on upper limb rehabilitation for neurological injuries.