

# NEUROPATHIES REHABILITATION

**HOTEL EXCEL ROMA MONTEMARIO  
VIA DEGLI SCOLOPI,31  
ROME**

**SUMMER SCHOOL**

## OBJECTIVES

Educate clinicians, researchers, physiotherapists and patient advocacy groups working in rehabilitation and Neuromuscular disease field:

- Basics of rehabilitation for peripheral neuropathies
- New trends in rehabilitation medicine, with special focus on innovative technological rehabilitation and tele rehabilitation
- Evidences available in literature
- Rehabilitation applied to specific polyneuropathies

**Outline and showcase how networks like EURO-NMD facilitate the development of rehabilitation medicine**

- Development of standards of care
- Development of outcome measures
- Development of clinical trials in rehabilitations

## AIM!

To disseminate knowledge on current and future modalities of rehabilitation in rare and complex peripheral neuropathies and assessment of evidences

## PROGRAMME COMMITTEE

## TARGET AUDIENCE

- Physiotherapists and occupational therapists
- Clinicians with interest in neuromuscular diseases
- Clinicians in rehabilitation medicine
- Patient advocacy groups

**Luca Padua (President):** Director of the Operative Unit of High Intensity Neurorehabilitation of the Fondazione Policlinico Universitario A. Gemelli IRCCS;

**Teresinha Evangelista:** Coordinator ERN EURO-NMD

**Massimo Marra:** Founder-CIDP ITALIA;

**Angelo Schenone:** Director of the Clinical Neurology Unit, IRCCS San Martino Hospital and University of Genova;

**Davide Pareyson:** Director of Rare Neurological Diseases Unit, Fondazione IRCCS Istituto Neurologico C.Besta (FINCB) of Milan;

**Jean-Philippe Plançon:** President European Patient Organization for Dysimmune and Inflammatory Neuropathies (EPODIN);



“The Neuropathies Rehabilitation Summer School under auspices of ERN EURO-NMD, Rome, Italy, 18/09/2023-21/09/2023 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 21 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.”

# PROGRAMME

MONDAY 18<sup>TH</sup> SEPTEMBER

SESSION 1: Introduction

14:15-14:45

## **Welcome and Introduction**

Luca Padua, Teresinha Evangelista, Massimo Marra, Davide Pareyson, Jean-Philippe Plançon, Angelo Schenone

**Objective:** Introduction of organizers; layout of the program and learning objectives; participant presentation

14:45-15:45

## **Key concepts of rehabilitation**

Needs of the patients (Massimo Marra and Jean-Philippe Plançon ) and view of the physiotherapist (Gita Ramdharry) and the clinician (Luca Padua-Chair)

**Objective:** give participants a global overview of the patients' needs and of the different aspects of rehabilitation and the current care and management practices (30' talk, 30 Q&A)

15:45-16:15 TEA & COFFEE BREAK

16:15-17:30

## **Access to treatment and rehabilitation in the EU**

Angelo Schenone (Chair)

Offers in Europe: Marian Ciopec, Jean-Philippe Plançon, Filippo Genovese

**Objective:** give participants a global overview of the different access to rehabilitation across Europe (3x20' patients' presentations, followed by discussion)

17:30 END OF DAY





# TUESDAY 19<sup>TH</sup> SEPTEMBER

## SESSION 2:

### Introduction to neuropathies Specific diseases and related problems

**08:30-10:00**

#### Outcome measures and Patient reported outcome measures

Daide Pareyson (Chair) and Valeria Prada

A talk from a physiotherapist and a clinician about outcome measures in the rehabilitation of peripheral neuropathies.

(Distinction between what is used in clinical practice and what is done in trials)

**10:00-10:30 TEA & COFFEE BREAK**

**10:30-12:00**

#### Acute Dysimmune neuropathies – GBS and similar

**Objective:** presentation of diseases features, specific outcome measures, and rehabilitation (literature, current and future practice)

Shahram Attarian (Chair)

- Disease characteristics and main symptoms  
Peter Van den Bergh
- What we know from literature and clinical scales  
Peter Van Den Bergh
- Current practice & perspectives  
Daniele Coraci

(3x20' for talk, 30' discussion)

**12:00-13:00**

#### Intensive Care Unit Acquired Weakness

**Objective:** presentation of diseases features, issues in outcome measures, and rehabilitation

Luca Padua (Chair) and Cristina Cuccagna  
(40' for talk, 20' discussion)

**13:00-14:00 LUNCH**

**14:00-15:30**

#### Chronic inflammatory neuropathies – CIDP and similar

**Objective:** presentation of disease features, specific outcome measures, and rehabilitation (literature, current and future practice)

Shahram Attarian (Chair)

- Disease characteristics and main symptoms  
(Shahram Attarian)
- What we know from literature and clinical scales (Shahram Attarian)
- Current practice & perspectives  
Vincenza Amoruso and Davide Glorioso

(3x20' for talk, 30' discussion)

**15:30-16:00 TEA & COFFEE BREAK**

**16:00-17:30**

#### Painful / Ataxic Neuropathies

**Objective:** presentation of disease features, specific outcome measures, and rehabilitation (literature, current and future practice)

Giuseppe Lauria (Chair)

- Disease characteristics and main symptoms  
Giuseppe Lauria
- What we know from literature and clinical scales  
Antonio Nardone
- Current practice & perspectives  
Antonio Nardone (Italy)

(2x20' talk, 1x30' talk, 20' discussion)

**17:30-19:00**

#### Amyloidosis

**Objective:** presentation of disease features, specific outcome measures, and rehabilitation (literature, current and future practice)

Daide Pareyson (Chair)

- Disease characteristics and main symptoms  
Teresa Coelho
- What we know from literature and clinical scales  
Teresa Coelho
- Current practice & perspectives  
Valeria Prada

(3x20' for talk, 30' discussion)

**19:00 END OF DAY**

**FACULTY DINNER**



## WEDNESDAY 20<sup>TH</sup> SEPTEMBER

SESSION 2 continued:

Introduction to neuropathies

Specific diseases and related problems

09:00 – 10:30

### CMT hereditary neuropathies

**Objective:** presentation of disease features, specific outcome measures, and rehabilitation (literature, current and future practice)

Daive Pareyson (Chair)

- Disease characteristics and main symptoms  
Tanya Stojkovic
- What we know from literature and clinical scales  
Riccardo Zuccarino
- Current practice & perspectives  
Gita Ramadharry

(3x20' for talk, 30' discussion)

10:30-11:10 TEA & COFFEE BREAK

### SESSION 3:

#### Technologies applied to rehabilitation

Chairs: Angelo Schenone; Riccardo Zuccarino

11:00-11:45

#### Robotics

Use of robotics and rehabilitation: the present and the future

Jean Yves Hogrel and Romain Feigeau

**Objective:** presentation of current and future employment of robotics in rehabilitation

(30' talk, 15' discussion)

11:45-12:30

#### Vibration

Use of vibration and rehabilitation: the present and the future

Luca Padua and Augusto Fusco

**Objective:** presentation of current and future employment of vibration in rehabilitation

(30' talk, 15' discussion)

12:30-13:15

#### Wearables and smart tools

Use of wearables and smart tools: the present and the future

Mehrnarz Hamedani

**Objective:** presentation of current and future employment of wearables and smart tools in rehabilitation

(30' talk, 15' discussion)

13:15-14:15 LUNCH

14:15 - 15:00

#### Electric stimulation

Use of electric stimulation in rehabilitation: the present and the future

Massimiliano Mangone

**Objective:** presentation of current and future employment of electric stimulation in rehabilitation

(30' talk, 15' discussion)



**15:00-15:45**

**Other technological tools**

Gabriele Siciliano

**Objective:** presentation of current and future employment of other technological tools in rehabilitation

(30' talk, 15' discussion)

**15:45-16:15 TEA & COFFEE BREAK**

**16:15-17:00**

**Tele-rehabilitation**

Sabrina Sacconi

**Objective:** presentation of current and future employment of telehealth in rehabilitation

(30' talk, 15' discussion)

**17:00-19:00**

**Clinical presentation/hands on session**

Valeria Prada and Irene Carantini

**Objective:** practical examples of rehabilitative management of different neuropathies

**19:30 NETWORK DINNER**

**9:00-10:00**

**How to organize a clinical trial with rehabilitation**

Angelo Schenone & Riccardo Zuccarino

**Objective:** presentation of difficulties and solutions in running clinical trials in rehabilitation  
(45' talk, 15' discussion)

**10:00-11:15**

**Work in small groups (4-5 groups)**

Angelo Schenone; Massimo Marra (Co-chairs)

We ask group of 10 participants to prepare a small talk (10' max)

- Expectations, achievements, suggestions
- The things they learnt
- How this will influence their daily work
- What we should keep in future training schools
- What we should drop/improve
- What they were missing

**11:00-11:45 TEA & COFFEE BREAK**

**11:45-12:45**

**Presentation of the work of small groups & Discussion, Highlights and Telematics questions**

Luca Padua (Chair) & Scientific Committee



**THURSDAY 21<sup>ST</sup> SEPTEMBER**

**9:00-10:00 How to organize a clinical trial with rehabilitation**

**Online questionnaire for eligibility for attendance certificates**



**12:45**

**END OF NEUROPATHIES  
REHABILITATION SUMMER  
SCHOOL**

Thanks to:

**EVM<sup>EVO</sup>**  
MUSCULAR VIBRATORY ENERGY



**ORGANIZING SECRETARIAT**

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