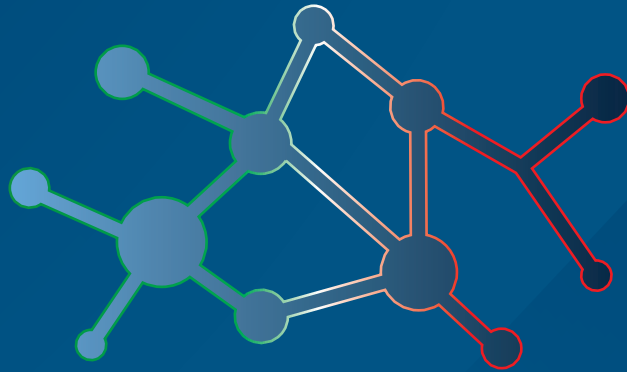




eNMD 2021



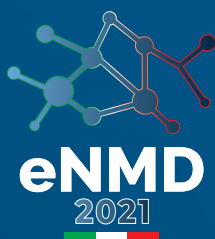
3rd eNMD Congress

E-HEALTH & INNOVATION TO OVERCOME
BARRIERS IN NEUROMUSCULAR DISEASES

29th-30th october 2021
PISA

HYBRID EVENT

**Remote Monitoring:
New solutions for New Avenues
in Neuromuscular Disorders**



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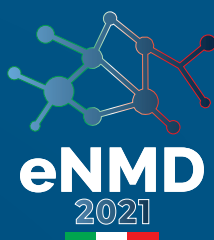
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3rd eNMD Congress

E-HEALTH & INNOVATION TO OVERCOME
BARRIERS IN NEUROMUSCULAR DISEASES

This 3rd edition of the e-NMD Congress, E-health & Innovation to overcome barriers in Neuromuscular Diseases, follows the previous one, expected to be in Pisa 30-31 October 2020, actually completely virtual at that time. This the reason why we now propose again Pisa for this edition, hopefully in a hybrid form. The main theme chosen for this year focuses on "Remote Monitoring", an emerging theme within the e-health world, now critically figured out from the Covid-19 era and for sure a topic of interest in the wider field of assistive technology & innovation for NMD.

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Luca Vicarioli, Turin
John Vissing, Copenhagen (DK)

Preliminary Program

Day 1

12.00 Registration

12.30-13.50 Satellite Symposium: Biotech achievements for development of innovative drugs

(CME non-accredited session)

Chairs: R. Danesi (IT), C. Kornblum (DE)

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12.30 Roche in Neuroscience and rare disease: engaged in the development of drugs and synergistic digital solutions" **A. Chirardini, (IT)**

12.50 Fine tuning targeted endonucleases: a new gene-editing therapeutic approach strategy in mitochondrial disorders **M. Minczuk (UK)**

13.10 High level customization in the development of Telemonitoring systems in Pompe disease **C. Proietti (IT)**

13.30 MyRealWorld: the app for Myasthenia Gravis patients **R. Mantegazza, (IT)**

13.50-14.15 Break

14.15-14.20 Welcome and Introduction: G. Siciliano (IT), S. Sacconi (FR)

14.20-15.00 Lecture-1: Introducing: G. Mauri (IT), J. Vissing (DK)

How Covid-19 changed the traditional concept of Remote Monitoring: opinions in comparison

· The clinical point of view: a neuromuscular specialist: **G. Comi (IT)**

· The technical point of view: an e-Health scientist: **A. Sciarrone (IT)**

15.00-15.15 Coffee Break

15.15-16.35 Platform Session-1 New strategies to define suitable outcome measures of ADL in NMD

Chairs: T. Mongini (IT), JP Plancon (FR)

15.15 Has Covid-19 pandemic redesigned outcomes and tools for patients needs priorities? the lesson from transthyretin amyloidosis polyneuropathy **D. Pareyson (IT)**

15.35 Biosensors for exploring conventional and new functional domains **JJ Serrano, (ES)**

15.55 Molecular sensors in Neuromuscular Diseases: myth or reality? **B. Schoser, (DE)**

16.15 Artificial intelligence to optimize strategies for outcome measures selection **M. Bochicchio, (IT)**

16.35-17.35 Free Oral communication session-1

Chairs: T. Klopstock (DE), M. Mancuso (IT)

Technological innovation in neurorehabilitation process using wearable sensor system

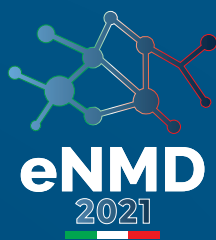
Mehrnaz Hamedani (Genoa)

The InGene 2.0 technological platform: software and hardware solutions meet the clinicians in NMD

Alessandro Tonacci (Pisa)

Neuromuscular ultrasound longitudinal changes as marker for disease progression in amyotrophic lateral sclerosis/motor neuron disease: is it time to use quantitative muscle ultrasound monitoring?

Paolo Bongioanni (Pisa)



Preliminary Program

Day 1

Myotonic Dystrophy Type 1 and the Serious Game X-Torp: Results of a Feasibility Study

Lorenza Santoni (Pisa)

Unlocking the potential of deep learning and cloud computing to assess the evolution of dysarthria in patients with Amyotrophic Lateral Sclerosis

Lucia Migliorelli (Ancona)

17.35-18.55 Platform Session-2 New strategies for data capturing

Chairs: T. Evangelista (FR), L. Fanucci (IT)

17.35 Disease registries as source for designing informative outcome measures *A.M. Atalaia, (FR)*

17.55 Everyday quality of life: how to cope needs of patients and caregivers *S. Segovia-Kueny, (FR)*

18.15 Big data for intersection between phenomics and therapeutic pipeline:
future perspectives *H. Lochmuller, (CA)*

18.35 Remote delivery of motor function assessments for clinical care and clinical trials in NMD during COVID-19
global Pandemic *M. James, (UK)*

18.55-19.10 Day closure and remarks

19.10 Welcome Cocktail

Preliminary Program

Day 2

09.00-09.30 Lecture-2: Introducing: *C. Angelini (IT)*

Screenshot of "Proximity Medicine" in EU: the link between Hospital and Territory *A. Toscano, (IT)*

09.30-10.50 Platform Session-3: Interventional strategies for motor functional restoring

Chairs: *S. Mazzoleni (IT), C. Paradas (ES)*

09.30 Artificial Muscles and Interactive Soft Robotics: recent progress and expectations *R. Riener, (SW)*

09.50 Neuroscience-inspired Soft Robotics Technologies for Prosthetics and Rehabilitation:

Results and Perspectives *A. Bicchi, (IT)*

10.10 Augmented interactions: from rehabilitation to the social inclusion *P. Fedele, (IT)*

10.30 Assistive technologies to promote the inclusion in labour career and
to mitigate occupational stress in NMD patients *T. Duong, (USA)*

10.50-11.05 Coffee Break

11.05-12.05 Free Oral communication session-2

Chairs: *A. Calvo (IT), P. Carlier (FR)*

Design Healthcare Innovation: Fostering Patient-driven innovation - *Stefano Maffei*

Assessing the usability of a wearable device in telemonitoring neuromuscular patients - *Marco Salivetto (Milan)*

Robotic assessment with artificial intelligence in the evaluation of ALS disease progression

Marco Salivetto (Milan)

Exploiting Artificial Intelligence for speech rehabilitation in dysarthric patients - *Marco Marini (Pisa)*

Set up of a gaze-enabled device in an adult SMA type 1 patient: a tool to overcome
isolation and to monitor residual distal motor function - *Edoardo Malfatti (Paris)*

12.05-12.35 Lecture-3: Introducing: *M. De Visser (NL)*

Digital Health and Remote Monitoring: ethic and legal issues in EU *L. Vicarioli (IT)*

12.35-13.30 Round Table: The voice of the patient: old and new needs

Chairs: *D. Taruscio (IT), D. Mitcov (RO)*

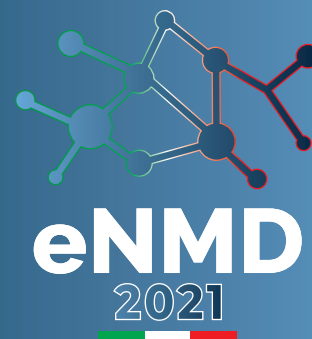
Discussants:

A. Ambrosini (Fondazione Telethon), S. Bellagambi (Uniamo), P. Garzena (CIDP Italia Onlus),

D. Julkowska (EJP RD), L. Ouillade (AFM-Telethon), V. Pace (gli Equilibristi HIBM),

C. Bruno (UILDM), Christian Lunetta (AISLA)

Conclusive remarks



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Congress Venue

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Via Belvedere, 26, 56128 Tirrenia (PI)

Congress web site:

<https://www.miologia.org/eNMD2021/>

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Italian CME credits: 5,6

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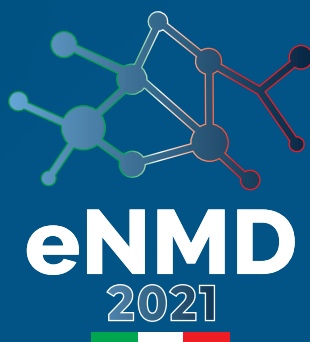
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