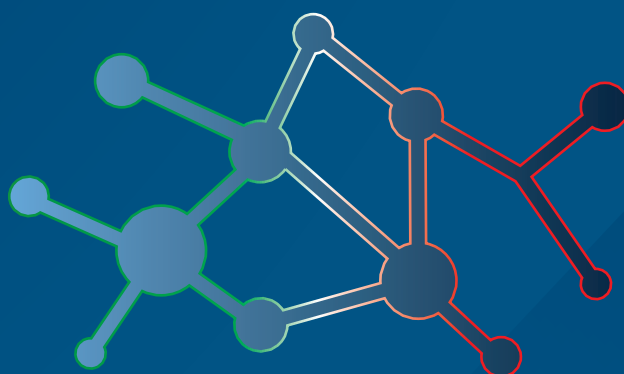




eNMD 2021



3rd eNMD Congress

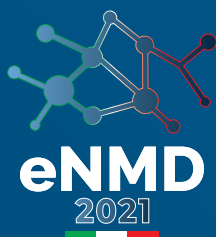
E-HEALTH & INNOVATION TO OVERCOME
BARRIERS IN NEUROMUSCULAR DISEASES

29th-30th october 2021
PISA

HYBRID EVENT

Remote Monitoring:
New solutions for New Avenues
in Neuromuscular Disorders





3rd eNMD Congress

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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 completely virtual which it was initially thought to be in Pisa, therefore this is the reason why to propose again the same location, in a hybrid form. The main theme chosen for this edition focuses on "Remote Monitoring", an actual aspect that recently emerged among e-health and its configurations also due to the Covid-19 era. In any case this topic we hope to be of interest in the wider field of assistive technology innovation for NMD.

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Gabriele Siciliano (IT)
Sabrina Sacconi (FR)
John Vissing (DK)

Local Organizing Committee

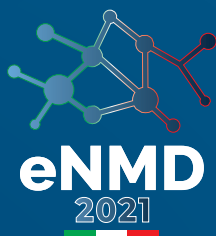
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John Vissing, Copenhagen (DK)



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 **V. Lovato (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)**

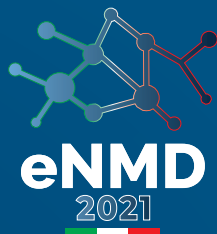
16.35-17.35 Free Oral communication session-1

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)



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)*

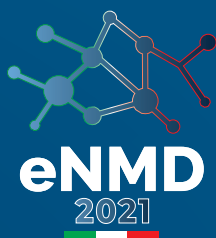
17.55 Everyday quality of life: how to cope needs of patients and caregivers *S. Segovia-Kueny, (FR)*

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



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 (Milan)*

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), A. Pavone (Azienda Ospedaliera Garibaldi, Catania)

Conclusive remarks

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BARRIERS IN NEUROMUSCULAR DISEASES

Congress Venue

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Via Belvedere, 26, 56128 Tirrenia (PI)

Congress web site:

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

Official language: english



Italian CME credits: 5,6

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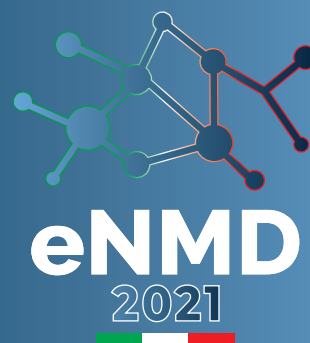
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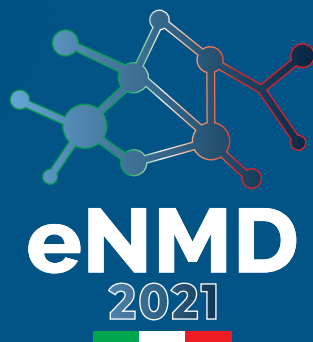


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