

Network
 Neuromuscular
 Diseases (ERN EURO-NMD)

7th NEUROMUSCULAR TRANSLATIONAL TRAINING SCHOOL

Organised by the ERN EURO-NMD and hosted by the Leiden University Medical Center



2 - 5 December 2025

Leiden, Netherlands

7th Neuromuscular Translational Training School Hosted by LUMC

December 2-5 2025

Leiden University Medical Center, the Netherlands

Programme committee:

Annemieke Aartsma-Rus Leiden University Medical Center, LUMC, the Netherlands & John

Walton Muscular Dystrophy Research Center, Newcastle

University, UK

Teresinha Evangelista APHP - Groupe Hospitalier Pitié-Salpêtrière, Paris, France

Andoni Urtizberea Institut de Myologie, Paris, France

Target audience:

MDs

PhD/Postdoc researchers

Industry delegates

Patient representatives

Others working in NMD translational research

Aim:

Facilitate the clinical development of therapies for NMDs

Objectives:

- Educate clinicians and researchers working in the NMD field on aspects relevant for translational therapy development:
 - Bench to bedside research
 - Regulatory system
 - Clinical trials
 - Outcome measures
 - Patient communication
 - Registries and biobanks
 - Biomarkers and -omics

- Outline and showcase how networks like EURO-NMD and TREAT-NMD facilitate therapy development:
 - Standards of care
 - Clinical trial tools
 - Outcome measure development
 - Interaction with stakeholders



The 7th Neuromuscular translational training school, Leiden, Netherlands 02/12/2025 - 05/12/2025, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 25.5 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

Day 1 - Tuesday 2 December 2025

9.00 - 9.30	Registration and Coffee
Session 1	Introduction and overview of the neuromuscular diseases landscape
9.30 – 10.00	Welcome and introduction Teresinha Evangelista, Andoni Urtizberea and Annemieke Aartsma-Rus
10.00 – 11.00	Challenges and needs in RD therapy development Teresinha Evangelista and Annemieke Aartsma-Rus
11.00 – 11.15	Break
11.15 – 12.15	Overview of current state of the art of NMD diseases management Andoni Urtizberea Objective: provide an overview of the different groups of NMDs, management, practices and currently approved innovative treatments (45' talk, 15' discussion)
12.15 – 13.15	Innovative therapies for NMDs Annemieke Aartsma-Rus Objective: outline how genetic therapies (gene addition, exon skipping and stop codon readthrough) work for Duchenne, and give an overview of approved approaches for NMDs (45' talk, 15' discussion)
13.15 – 14.00	Lunch
Session 2	Preclinical Research
14.00 – 15.00	Tools of the trade for preclinical research <i>Annemieke Aartsma-Rus</i> Objective: outline different models used in preclinical research, their opportunities and limitations, and the need for standardized tests and the TREAT-NMD advisory committee for therapeutics (TACT) (40' talk, 20' discussion)

Session 3	Clinical research part 1
15.00 – 16.00	Introduction to clinical trials Michela Guglieri
	Objective: introduce how and why clinical trials are conducted, the objective of different trial phases, trial design, primary endpoints, secondary endpoints, clinical significance, ethical concerns and informed consent (45' talk, 15' discussion)
16.00 – 16.30	Break
16.30 – 17.15	Tools to facilitate clinical trials- Registries Michela Guglieri
	Objective: to gain insight in available tools and services for planning and conducting clinical trials (25' talk, 20' discussion)
17.15 – 18.00	End of day – Q&A with refreshments Meet the speakers

Day 2 - Wednesday 3 December 2025

Session 4	Clinical research part 2
09:00 – 10:00	Unexpected aspects of conducting a clinical trial Michela Guglieri Objective: provide insight in the logistics of running a clinical trial (recruitment, treating, dealing with patient expectations, informed consent etc.)
10.00 – 10.15	Break
10.15 – 11.45	How the regulatory system works <i>Marta Kollb-Sielecka</i> Objective: explain the centralised system, how it is organised and how regulators decide whether drugs are eligible for marketing authorisation, outline patient involvement in committees – focus on rare diseases. (60' talk, 30' discussion)
11.45 – 12.45	Industry perspective on drug development for rare diseases Eric van der Veer Objective: provide the perspective of pharmaceutical companies on drug development for rare diseases, which challenges do they face, how do they deal with them (40' talk, 20' discussion)

12.45 – 13.35	Lunch
Session 5	TACT mock review session
13.35 – 13.45	Introduction to TACT mock review session
13.45 – 15.15	Self-study for TACT mock review session All students are expected to provide input during the mock review. Study material will be provided beforehand so students can prepare before the meeting or during the self-study time.
15.15 – 16.30	When to move to a clinical trial? TACT mock review session moderated by Annemieke Aartsma-Rus and Teresinha Evangelista Objective: learning to have a critical look at preclinical research. In this mock session, participants will review a fictitious TACT application (provided in advance) from a company planning a clinical trial in the NMD space. They will be split into groups to discuss the strengths, limitations and outstanding questions of the application.
16.30 – 17.00	End of day – Refreshments and snacks

Faculty Dinner (by invitation)

Day 3 - Thursday 4 December 2025

Session 6	Focus on outcome measures (Requirements, selection, development, biomarkers, PROMs)
09.00 – 10.30	Outcome measures Jean-Yves Hogrel
	Objective: outline of requirements of outcome measures used in clinical trials, how to select the best outcome measure for a pivotal trial; using real life examples of successful and failed trials (e.g. drisapersen 6MWT) (60' talk, 30' discussion)
10.30 – 11.00	Break
11.00 – 12.00	Showcase on outcome measure development Jean-Yves Hogrel
	Objective : outline the steps and stakeholders involved in developing and validating a functional outcome measure (select one – indicate the same applies for all) (45' talk, 15' discussion)

12.00 – 12.45	Lunch
12.45 – 13.45	Showcase: validation of MRI as a biomarker in clinical trials Hermien Kan
	Objective: introduce MRI as an outcome measure in trials, ongoing efforts to validate this biomarker for assessment of muscle quality in neuromuscular diseases (45' talk, 15' discussion)
13.45 – 14.45	Biomarkers Pietro Spitali
	Objective: explain the different types of biomarkers, how they can be used in trial planning and as outcome measures, the regulatory perspective on biomarkers, highlighting ongoing networking efforts (45' talk, 15' discussion)
14.45 – 15.00	Break
15.00 – 16.00	Showcase: PROM development (the questions you ask and why you ask them; practical examples) Céline Desvignes-Gleizes
	Objective: explain the process of developing a patient-reported outcome measure using the DMD PROM development as showcase (45' talk, 15' discussion)
Session 7	Patient engagement
16.00 – 17.00	How patients can help your research from bench to bedside Elizabeth Vroom
	Objective: Examples are given of how patients can be involved in helping with all steps of therapy development, to underline that patients are not only study objects, but also active participants.
17.00 – 17.30	Patient participation in clinical trials Teresinha Evangelista
19.00	Conference Dinner

Day 4 - Friday 5 December 2025

Session 8	Patient engagement and Post-Marketing
9.00 – 11.00	Translating science to the non-initiated Ronald Veldhuizen Objective: Participants will gain insight in how to clearly explain science to people without a scientific background – with a focus on patients where the added challenge is not to overpromise or raise false expectations
11.00 – 11.20	Break
11.20 – 11.30	Introduction: Presenting science to patients Annemieke Aartsma-Rus
11.30 – 13.30	Preparation for the Symposium on presenting science to patients Annemieke Aartsma-Rus Objective: participants are divided into groups of 4 that will each be provided with a scientific paper. They are required to prepare a presentation (~10 minutes with 5 minutes discussion time) to inform patients of the scientific findings in a clear and objective manner; other groups will listen as patients/families. Lunch will be served at 13.00
13.30 – 15.00	Symposium: Group presenttions facilitated by Teresinha Evangelista, Annemieke Aartsma-Rus and Maaike van Putten Objective: each group presents their work, while the other participants act as the audience and listen from the perspective of a patient.
15.00 – 16.00	Feedback and Evaluation facilitated by Teresinha Evangelista and Annemieke Aartsma-Rus Objective: participants explain what they learned, how they will apply this in their daily work, aspects that should be kept in the programme, aspects that could be removed, things that are missing.
16.00	End of the programme/departure