



Advances in Technology and Artificial Intelligence Applications in Movement Disorders

Madrid, Spain - December 12-13, 2025

DAY 1 : Friday, December 12, 2025	
08:30 - 08:40	Welcome from Course Directors <i>Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo</i>
Session 1: New Technologies and Artificial Intelligence Applications for Motor Symptoms Moderators: : Margherita Fabbri, Iñigo Gabilondo	
08:40 - 09:10	Artificial Intelligence and Machine Learning in Movement Disorders <i>Andrea Pilotto</i>
09:10 - 09:40	Wearables and Video Analysis for Parkinson's Disease and other Movement Disorders <i>Margherita Fabbri</i>
09:40 - 10:10	Clinical Application of AI to Neuroimaging in Parkinson's Disease and other Movement Disorders <i>Iñigo Gabilondo</i>
10:10 - 10:40	New Technologies for Voice and Non-Motor Symptoms for Parkinson's Disease <i>Mariana HG Monje</i>
10:40 -11:10	Coffee Break with Exhibitors
Session 2: New Technologies for Movement Disorders Treatments Moderators: Alice Nieuwboer, Mariana HG Monje	
11:10 - 11:40	Clinical Applications of AI and New Technologies to Neuromodulation and High Intensity Focused Ultrasound (HIFU) <i>Michele Matarazzo</i>
11:40 - 12:10	Clinical Applications of AI to Neurorthesis and Neurorehabilitation <i>Alice Nieuwboer</i>
12:10 - 12:40	Digital Health for Parkinson's Disease and Other Movement Disorders <i>Mariana HG Monje</i>
12:40 - 13:40	Lunch with Exhibitors
Session 3: Practical Examples. Case-Based Presentations Moderators: Laura Carrasco, Andrea Pilotto	
13:40 - 14:10	Remote Clinical Monitoring of Motor and Non-motor Symptoms for Parkinson's disease <i>Alvaro Sanchez-Ferro</i>
14:10 - 14:40	Accessibility and Telemedicine <i>Esther Cubo</i>
14:40 - 15:10	Patients' Perspective on New Technologies <i>Laura Carrasco</i>
15:10 - 15:40	Coffee Break with Exhibitors
15:40 - 16:10	Regulations and Ethical Aspects <i>Alvaro Sanchez Ferro</i>
16:10 - 16:40	Integrations of AI in Clinical Practice <i>Andrea Pilotto</i>
16:40 - 17:10	Panel for Discussion: Share your Experience <i>All Faculty</i>
17:10	Closing Remarks <i>Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo</i>
18:30-21:00	Networking in Europe Reception



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DAY 2: Saturday, December 13, 2025	
08:30 - 08:40	Welcome from Course Directors <i>Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo</i>
Practical Workshops (Small Groups Rotate 5 Stations)	
08:45-10:45	Digital Health Technologies to Quantify Motor and Non-Motor Manifestations 1. Wearables: Movement Sensor Watch – Mariana Monje 2. Wearables: Gait and Mobility Belt Sensor – Esther Cubo 3. Wearables: Motor Symptom Tracker – Michele Matarazzo 4. Wearables: Continuous Parkinson's Monitoring App – Alvaro Sanchez Ferro
10:45 – 11:05	Coffee Break
11:05 – 11:35	Digital health technologies to quantify motor and non-motor manifestations (part 2) – Non-Motor Manifestations: Sleep-actigraphy and cardiovascular dysautonomia quantification <i>Iñigo Gabilondo</i>
11:35 – 12:05	Q&A with Panel Discussion <i>All Faculty</i>
12:05 – 12:35	Neurotechnology and Human Evolution <i>Emiliano Bruner</i>
12:35-13:00	Closing Remarks and MDS Member Benefits Presentation <i>Esther Cubo, Alvaro Sanchez Ferro,</i>