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** *Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo*
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** *Andrea Pilotto*
09:10 - 09:40	**Wearables and Video Analysis for Parkinson's Disease and other Movement Disorders** *Margherita Fabbri*
09:40 - 10:10	**Clinical Application of AI to Neuroimaging in Parkinson's Disease and other Movement Disorders** *Iñigo Gabilondo*
10:10 - 10:40	**New Technologies for Voice and Non-Motor Symptoms for Parkinson's Disease** *Mariana HG Monje*
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)** *Michele Matarazzo*
11:40 - 12:10	**Clinical Applications of AI to Neurorthesis and Neurorehabilitation** *Alice Nieuwboer*
12:10 - 12:40	**Digital Health for Parkinson's Disease and Other Movement Disorders** *Mariana HG Monje*
12:40 - 13:40	**Lunch with Exhibitors**
Session 3: Practical Examples. Case-Based Presentations *Moderators: Laura Carrasco, Andrea Pilotta*	
13:40 - 14:10	**Remote Clinical Monitoring of Motor and Non-motor Symptoms for Parkinson's disease** *Alvaro Sanchez-Ferro*
14:10 - 14:40	**Accessibility and Telemedicine** *Esther Cubo*
14:40 - 15:10	**Patients' Perspective on New Technologies** *Laura Carrasco*
15:10 - 15:40	**Coffee Break with Exhibitors**
15:40 - 16:10	**Regulations and Ethical Aspects** *Alvaro Sanchez Ferro*
16:10 - 16:40	**Integrations of AI in Clinical Practice** *Andrea Pilotta*
16:40 - 17:10	**Panel for Discussion: Share your Experience** *All Faculty*
17:10	**Closing Remarks** *Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo*
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** *Esther Cubo, Alvaro Sanchez Ferro, Iñigo Gabilondo*
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** *Iñigo Gabilondo*
11:35 – 12:05	**Q&A with Panel Discussion** *All Faculty*
12:05 – 12:35	**Neurotechnology and Human Evolution** *Emiliano Bruner*
12:35-13:00	**Closing Remarks and MDS Member Benefits Presentation** *Esther Cubo, Alvaro Sanchez Ferro,*