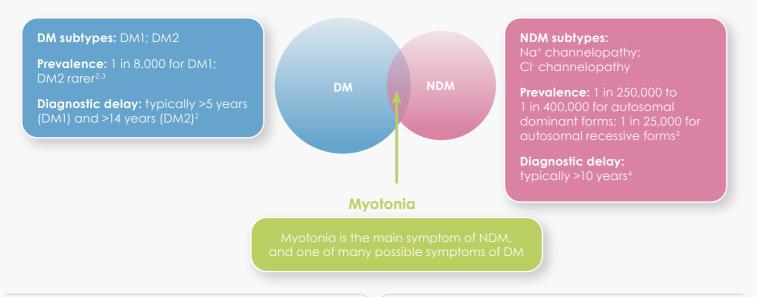
Importance of Timely and Accurate Diagnosis of Myotonic Disorders: Role of Electromyography

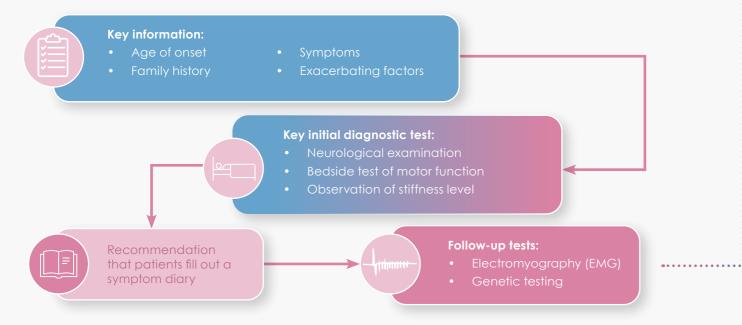
Myotonic Dystrophy and Non-dystrophic Myotonias

- Myotonic disorders are a heterogeneous group of interited neuromuscular disorders¹
- Myotonia is a symptom that is a common feature of several types and subtypes of myotonic disorders, including myotonic dystrophy (DM) and non-dystrophic (NDM) myotonias.
- Myotonia presents clinically as delayed muscle relaxation after voluntary contraction, leading to muscle stiffness or cramping, and/or electrophysiologically as spontaneous discharge of muscle fibres¹



Diagnosis of Myotonic Disorders

Diagnostic Pathway (adapted from Stunnenberg et al 2020⁵)



Abbreviation

DM: myotonic dystrophy: EMG: electromyography: HCP: healthcare professional: NDM: non-dystrophic myotonia.

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Diagnostic delays

Variable, non-specific symptoms⁴⁻⁷ Coping⁸ Muscles affected Disease severity • Age of onset Warm-up phenomenon • Cold phenomenon . Overlap with other diseases Delays seeking medical help⁹ Patients don't ask Non-specialists don't refer on burden⁴ Diagnostic delays have a negative impact on patients' wellbeing,² as they have to learn to cope with their condition, often by limiting what they do, instead of being offered treatment to ameliorate symptoms Timely and accurate diagnosis is important for genetic counselling and screening of systemic features in DM, as well as determining appropriate management¹ Using EMG can help provide timely confirmation of a diagnosis Role of EMG in DM Low need for EMG when there is a clear DM phenotype and clear Greater need for EMG when:



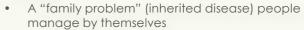
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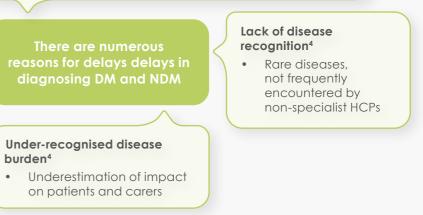
Key Learnings

This content was funded by Lupin Neurosciences.

The content of this infographic is based on satellite symposia hosted by Lupin Neurosciences at the 13th International Congress of Paediatric EMG (La Baule, France, 13th–15th November, 2023), and the Myology 2024 International Congress (Paris, France, 22nd–25th April, 2024), recordings of which can be accessed here. Symposium content was developed by Yann Péréon, Nantes, France; Emma Matthews, London, UK; and Valeria Sansone, Milan, Italy.

Citation: EMJ. 2024;9[2]:66-67. https://doi.org/10.33590/emj/XZMG9439.





Role of EMG in NDM

