Prospective, long-term, observational study (patient registry) of paediatric myotonic disorders from birth to less than six years of age who are treated with mexiletine (PEGASUS Study)

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### Administrative details

EU PAS number
EUPAS100000185
Study ID
100000185
DARWIN EU® study
No
Study countries
France
Italy

#### Study description

This is a prospective, open-label, multi-centre, single arm, registry study to collect standard relevant clinical and epidemiological data during routine medical evaluation and treatment in paediatric patients with myotonic disorders who are being treated with mexiletine therapy according to the physician.

#### **Study status**

**Planned** 

### Research institutions and networks

### Institutions

### Lupin Europe GmbH

### Contact details

### **Study institution contact**

Alla Zozulya Weidenfeller EU-RA@lupin.com

Study contact

EU-RA@lupin.com

### Primary lead investigator

Savine Vicart

**Primary lead investigator** 

# Study timelines

#### Date when funding contract was signed

Planned: 05/01/2024

#### Study start date

Planned: 23/09/2024

#### **Date of final study report**

Planned: 05/01/2028

# Sources of funding

Pharmaceutical company and other private sector

# Study protocol

Namuscla\_PIP\_Study\_5\_MEX-NM-401R\_V1.0\_31May2024\_clean.docx\_.pdf(1.11 MB)

# Regulatory

Was the study required by a regulatory body?

No

Is the study required by a Risk Management Plan (RMP)?

EU RMP category 3 (required)

# Other study registration identification numbers and links

MEX-NM-401

# Methodological aspects

#### **Study topic:**

Disease /health condition

#### Study type:

Non-interventional study

#### Scope of the study:

Disease epidemiology

Drug utilisation

Effectiveness study (incl. comparative)

Evaluation of patient-reported outcomes

#### **Data collection methods:**

Combined primary data collection and secondary use of data

#### Study design:

This is a prospective, open-label, multi-centre, single arm, registry study to collect standard relevant clinical and epidemiological data during routine medical evaluation and treatment in paediatric patients with myotonic disorders who are being treated with mexiletine therapy.

#### Main study objective:

To evaluate the safety and the efficacy (exploratory) of mexiletine for the treatment of myotonia in the paediatric population aged from birth to less than 6 years using real world data.

# Study Design

### Non-interventional study design

Case-only

# Study drug and medical condition

#### Name of medicine

NAMUSCLA 167 MG - CAPSULE, HARD

### Study drug International non-proprietary name (INN) or common name

MEXILETINE HYDROCHLORIDE

#### **Anatomical Therapeutic Chemical (ATC) code**

(C01BB02) mexiletine

mexiletine

#### Medical condition to be studied

Myotonia

Myotonic dystrophy

## Population studied

### Short description of the study population

Male and female children from birth to less than 6 years of age with clinical symptoms or signs of myotonic disorders, normal electrocardiogram (ECG) exam and genetic confirmation of the diagnosis i.e., non-dystrophic myotonia (NDM), or myotonic dystrophy (DM) type 1 (DM1), or DM type 2 (DM2).

#### Age groups

Paediatric Population (< 18 years)

Neonate

Preterm newborn infants (0 - 27 days)

Term newborn infants (0 - 27 days)

Infants and toddlers (28 days - 23 months)

Children (2 to < 12 years)

# Study design details

#### Setting

Patients who meet the eligibility criteria will be enrolled in 2 cohorts by age groups although cohorts are not enrolled sequentially (cohort definition is to assure minimum requirements for meeting PIP agreements).

Cohort 1 – Infants and children aged between 6 months to less than 6 years.

Cohort 2 - Neonates and infants from birth to less than 6 months.

The overall treatment duration follow-up for each cohort will be at least 2 years. Dosing and treatment administration in this registry study will be done as per the treating physician standard clinical practice. Visits to the clinic will occur according to routine site's clinical practice, or when applicable according to the treating practice physician.

#### Inclusion Criteria:

- 1. Male or female patients from birth to less than 6 years
- 2. A genetically confirmed diagnosis of NDM or DM (DM1or DM2), as per the treating clinician.
- 3. Presence of clinical symptoms of myotonia (hand grip myotonia, myotonia in the leg muscles, any other myotonia symptoms) to be confirmed by the treating clinician.
- 4. Patients already receiving mexiletine treatment or who are clinically considered for mexiletine treatment as per the treating physician judgement.
- 5. No history of or significant cardiac abnormalities as determined by a cardiologist's assessment of the ECG and echocardiogram performed prior to enrolment in the study or as per the treating physician standard of care (NaMuscla SmPC, 2023)
- 6. No known history or signs and symptoms of any significant liver disorder as per treating physician.

#### **Exclusion Criteria:**

1. Any contraindication to mexiletine as listed in the Namuscla Summary of

Product Characteristics (SmPC) (NaMuscla SmPC, 2023)

2. Any other neurological or psychiatric condition that might affect the study assessments, as per the treating clinician.

More	eligibility	criteria	can	be	found	in	the	study	pr	otoc	ol

#### **Comparators**

N/A

#### **Data analysis plan**

The following data elements will be collected as permitted by the clinical site normal clinical practice for patients with myotonic disorders and/or the patient's age:

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	Demographics
	Genetics: DM1, DM2 or NDM corresponding clinical forms
	Musculoskeletal manifestations (myotonia, Charcot-Marie-Tooth disability
SC	ale, facial hypotonia)
	Orthopaedic deformities (spine, feet or hands, orthoses, back brace,
sp	ecialized follow-up, surgery)
	Cardiorespiratory signs (non-invasive ventilation, sleep disorders, ECG / left
ve	entricular ejection fraction (LVEF), pacemaker/defibrillator)
	Ophthalmic and endocrinologic manifestations (cataract, diabetes, thyroid
di	sorders)
	Psychomotor development disabilities
П	Gastrointestinal disorders

Data will be entered at baseline upon patient enrolment and entered periodically thereafter for all routine clinical practice patient visits. All data will include the date each assessment was performed. Where available, additional retrospective data will be collected. Retrospective data will be focused primarily

on patterns of mexiletine use and dose adjustments as well as any efficacy assessments. Retrospective safety data will also be recorded, especially in relation to any AEs that affect dosing, SAEs or AESIs, but there will be no requirement to report any retrospective AEs prior to signing the informed consent.

## Data management

## Use of a Common Data Model (CDM)

#### **CDM** mapping

No

# Data quality specifications

#### **Check conformance**

Unknown

#### **Check completeness**

Unknown

### **Check stability**

Unknown

### **Check logical consistency**

Unknown

### Data characterisation

### **Data characterisation conducted**

No