

JANUARY 2022

# **NEWSLETTER**

Extrapolated NORMal valueS from historical records - The E-Norms study

# THE PROJECT GROUP

The E-Norms project group consists of researchers, clinicians, patient representative, as well as national, international and industrial collaboration partners.

#### **Project leader:**

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#### Post doc:

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Thor Einar Holmgaard
Computer Scientist:
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Collaborators:
Joe Jabre + Martijn +?

## **WELCOME**

... to the quarterly newsletter from the E-norms project, where we provide updates on activities, data results and collaborations.

#### THE PROJECT

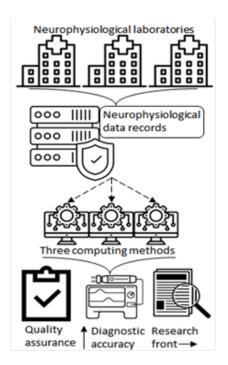
The E-norms project is a quality control and research project at Oslo University hospital, which evaluates new methods for establishing normal values for clinical neurophysiology.

#### **OUR AIM**

Our overarching aim is to improve neurophysiological diagnostics for people who suffer from neuromuscular disease in Norway.

#### To reach our aim we have the following objectives:

- Establish a large database with neurophysiological data from Norwegian hospitals.
- Evaluate, compare and validate novel statistical methods for calculating normal values based on historical records.
- Deliver laboratory specific ageadjusted normal values for EMG and NCS for all age groups, including children and the elderly where adequate normal values are lacking today.
- Establish a national system for quality improvement in clinical neurophysiological laboratories.







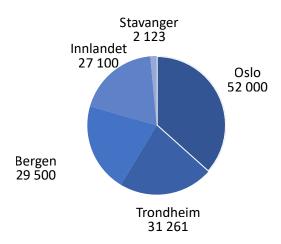
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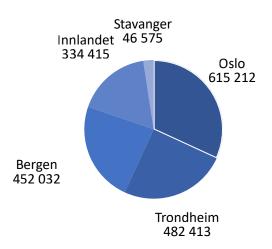
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## A SUMMERY per January 2021:

- Collaborations with hospitals from all Regional Health Trusts in Norway
- Data from 6 hospitals completed
- Data from 4 hospitals in progress
- Data from 1993 to 2021
- 219 927 individuals:



1 930 647 nerve conduction studies:





## Ongoing project activities:

- Preparation of data processor agreements for new national collaborators
- Data export and anonymization from norwegian collaborators
- Data merging and cleaning, creating a variable list (codebook) to connect variables across study sites
- Scripts for automated E-norms analysis
- Collaborative meetings with industrial partner - Cadwell
- Preliminary NCS reference values for specific age groups - expected to be delivered to national collaborators March 2022

