

# **HANDETECT Study Call for Participants**

**Volunteers living with ataxia or other movement disorders needed to take part in a study to observe the effects of movement disorders on handwriting.**

## **Who can take part in this study?**

The target population for this study comprises individuals from anywhere in the world diagnosed with movement disorders. The target movement disorders are:

- Ataxia
- Parkinson's Disease (PD)
- Essential Tremor (ET)
- Huntington's Disease (HD)
- Dystonia
- Tourette Syndrome (TS)
- Cerebral Palsy (CP)
- Wilson's Disease
- Multiple System Atrophy (MSA)
- Progressive Supranuclear Palsy (PSP)
- Amyotrophic Lateral Sclerosis (ALS)
- Spinal Muscular Atrophy (SMA)

**To be eligible for participation, individuals must be aged 16 and over, and meet the following criteria:**

- Confirmed diagnosis of our target movement disorders.
- Willingness to provide informed consent for participation.
- Ability to understand the assessment requirements.

Individuals meeting any of the following criteria will be excluded from the study:

- Presence of severe cognitive impairment that may hinder understanding the study requirements.
- Inability to provide informed consent.
- Total inability to perform handwriting tasks due to physical limitations or any other factors.

## **What is the purpose of this study?**

The first aim of this study is to measure how accurately the AI algorithm can measure progression of neuromuscular conditions.

The second aim of collecting these data is to assess the potential of using Artificial intelligence (AI) algorithms as a means detecting early markers of movement disorders through handwriting.

## **What will happen to me if I take part?**

If you decide to take part and provide written informed consent, you will be asked to complete a series of different handwriting tasks which can be completed from home. You will also be asked to complete a survey to provide some demographic and clinical information, such as your age the duration of your symptoms. You will then be able to submit your completed handwriting tasks by WhatsApp, email, post, a Google Drive folder on the Internet.

## **Will my clinical details be kept confidential?**

Yes – all digital data will be securely stored on a computer, and will only be accessible to the researchers. Similarly, all physical data will be securely stored in a cabinet only accessible to the researchers. All data will be backed up and stored securely in a separate location to safeguard against technical failures. This will only be available to the researchers. Under no circumstances will the data be shared with any third party.

All data will be anonymised, and no identifying information such as names or addresses will be collected. After the study is finished, all data will be safely disposed of.

## **What will happen to the results of the study?**

Results of the study will be published in peer-reviewed academic journals in an anonymous form. No patient-identifiable data will be published.

**If you would like to participate in this study or known of any individuals who may be interested, and would like some more information, please don't hesitate to get in touch:**

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