Oscillatory predictors of training-induced gains after stroke

What is the aim?
People vary in their ability to learn new motor skills. These individual variations may help to explain differences in recovery in stroke patients.

We think that brain activity measured with the non-invasive technique electroencephalography might be able to explain differences in motor learning with ageing and after stroke.

Who can take part?

**Stroke survivors:**
- With first ever stroke
- With recent stroke (< 3 month) or longstanding stroke (> 6 month)
- With some movement of the wrist
- With normal or corrected to normal vision

**We DO NOT include stroke survivors:**
- Who have complete paralysis of the hand
- Who have language or cognitive deficits which hamper cooperation in the task
- Who currently take medication known to affect the EEG
- Who have cornrows or dreadlocks

**Healthy volunteers:**
- With normal or corrected to normal vision

**We DO NOT include healthy volunteers:**
- Who have a history of psychological or physical disease which affect movement of the arm and hand
- Who currently take medication known to affect the EEG
- Who are trained in highly skilled hand movements (i.e. pianists, typists)
- Who have cornrows or dreadlocks
What is involved?

- Volunteers visit our research centre in London
- We pay for travel expenses
- We find an appointment date and time that suits you
- Volunteers can bring a friend or family member

What to expect during the study?

The study involves answering some questions

And

- Electroencephalography
- Motor training of the wrist
- Activities with the arm

How long will the study take?

The study will take place over 2 days:

- Day 1: 3.5 hours including explanation and preparation time
- Day 2: 1.5 hours

Total of 5 hours
Where will the study take place?

Sobell Department for Motor Neuroscience and Movement Disorders
Institute of Neurology
University College London
33 Queen Square
London
WC1N 3BG

How to volunteer?

- To find out more, please see the Information sheet for stroke patients
- If you would like to volunteer, contact Svenja Espenhahn

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