# **Information for participants**

*Would You Use a Restorative Brain-Computer Interface If It Can Improve Your Hand Functions after Stroke****?***

The following information is provided to help you with making an informed decision about participating in this survey. If there is any aspect that is not clear to you, please discuss this with one of the investigators.

1. What is it about?

It is believed that the impaired movement functions are caused by the damage in specific parts of the brain which in turn lead to disconnection in neural pathways that are in charge of the movement. We investigated a technique named motor imagery based brain-computer interfacing (MI-BCI) that allows re-routing the impaired neural pathways caused by stroke. However, to further develop this technology we need to know the features of the interface that are most important for users of the technology and the considerations of cost relative to benefit in using the technology.

This survey is a collaborative research project running by The University of Adelaide and RehabSwift Pty Ltd that also sponsors the project, to investigate and better understand the needs and likelihood of adoption of the technology by stroke survivors. This study has been approved by the Human Research Committee of the University of Adelaide with HREC code 18/100.

## What will the survey involve?

The survey involves answering a number of questions which may take 10-15 minutes.

1. **Who can participate?**

Adults aged 18 – 80 years who have experienced a stroke at least 6 months ago and continue to experience problems with their motor functioning (e.g. hand function) are being invited to participate. If you have any doubts about whether you should participate, please discuss them with one of the investigators.

1. **Will I be identified in the survey report?**

The outcome of the study may be reported to the public using methods including conference and journal papers or oral presentations. However, regardless of the format of the report, all reported data are de-identified and participants will not be identifiable.

1. **How my personal data will be protected?**

All recorded data will be de-identified and then stored in a way that the identity of participants cannot be determined using the stored data.

1. **What if I have a complaint or any concerns?**

The study has been approved by the Human Research Ethics sub-Committee, in the School of Psychology at the University of Adelaide (approval number 18/100). This research project will be conducted according to the NHMRC National Statement on Ethical Conduct in Human Research (2007). If you have questions or problems associated with the practical aspects of your participation in the project, or wish to raise a concern or complaint about the project, then you should consult the Principal Investigator– Dr Sam Darvishi. If you wish to speak with an independent person regarding concerns or a complaint, the University’s policy on research involving human participants, or your rights as a participant, please contact the Human Research Ethics Committee on:

Email: paul.delfabbro@adelaide.edu.au

Any complaint or concern will be treated in confidence and fully investigated. You will be informed of the outcome.

1. **Correspondence**

Please direct any questions about the study to the researchers listed below:

Dr Sam Darvishi

Director of RehabSwift Pty Ltd

ThincLab, The University of Adelaide

Mob: 0450 214 545

Email: sam.darvishi@adelaide.edu.au

**Associate Professor Carolyn Semmler**

Director of the Applied Cognition and Experimental Psychology Lab

School of Psychology, The University of Adelaide

Tel: 08 8313 4628

Email: carolyn**.**semmler@adelaide**.**edu**.**au