

## Sensor-based Neurotechnology and Virtual Reality (VR)

GripAble

Pablo

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## GripAble



**gripable**

Sensitive, portable hand-grip device connecting to mobile therapy games

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### What is the GripAble?

The GripAble is a new device developed out of work conducted at Imperial College London. It is a small sensor-based device used for hand rehabilitation, suitable for individuals with very weak control of their fingers.



The device is extremely portable and can be used within inpatient, outpatient and home environments. After initial set up, the device can be used either independently or with care support to increase the use of the hand to maximise potential recovery.

The GripAble is under constant development with plans to introduce motion sensors to track arm movements to further widen the scope of its application.

### How does it work?

The GripAble uses accurate and sensitive force sensors to detect a person's efforts to squeeze/release the device and processes this information to enable interaction with a number of games displayed on a tablet. Repetitive performance of the tasks and progression of the difficulty lead to improved ability.



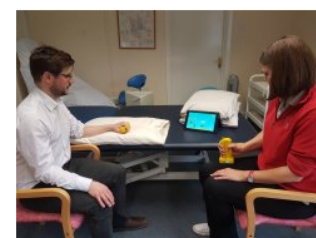
### Who can benefit from using it?

Individuals with sensory impairment, muscle weakness or neglect of the hand looking to increase activity in order to drive improved control of the hand and upper limb function.

### What services do Hobbs offer?

Hobbs has a clinic kit which is available for use across all Hobbs sites and can also be loaned for home use.

Please contact Joe Green via [technologylead@hobbsrehabilitation.co.uk](mailto:technologylead@hobbsrehabilitation.co.uk) to discuss your individual requirements.



More information about of the GripAble system can be found [here](#).

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