



In 2013 we met a gentleman who said, "I am very happy now, but I look angry because Parkinson's took away my smile". Since then, our aim has been to bring smiles back for people with Parkinson's.

Charco Neurotech is named after professor Charcot who, in the 19th century, was first to notice the therapeutic effects of vibratory stimulation on Parkinson's. Since his discovery, there have been many studies around the ability of stimulation to alleviate the movement symptoms of Parkinson's.

Developed by a team of engineers, doctors and neuroscientists, the CUE1 offers a novel, non-invasive approach to increasing quality of life for people with Parkinson's. The CUE1 can provide an immediate aid, activated by the simple push of a button.



Bringing back smiles for people with Parkinson's

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CUE1

FOR PARKINSON'S



How does the CUE1 work?

The CUE1 uses a quiet electric motor to produce vibrotactile stimulation. Through the pattern's wave shape and frequency, the device delivers two scientifically-validated principles in a combination unique to this device.

1 - Focused stimulation

Research suggests that localised vibration can elicit sensory nervous signals, transmitted from the skin and muscle to the brain. These may modulate cortical activity to reduce excessive beta wave activity, putting the body in a "ready-to-move" state and reducing stiffness and slowness.



Bringing back smiles

Testing with people with Parkinson's and listening to their feedback has been at the core of our development process throughout the life of the CUE1. We have included some of our beta tester's thoughts below.

John and Barbara

'I would spend so much time frozen, and needed Barbara to help me become mobile again. Now that I can make myself mobile, my wife has more time for other things. The members of the Charco team are always available to offer advice, which is so helpful.'



Improves movement

Utilising non-invasive, focused vibrotactile stimulation and cueing to improve movement.



Medication reminders

A wearable, discreet and adjustable medication reminder and recording system.



Symptom tracking

Track symptoms, progression and quality-of-life measures with the CUE app.



2 - Cueing

Another established treatment for Parkinson's is cueing, which is achieved by pulsing the vibrations from the CUE1. Cueing can provide reduction in freeze of gait episodes and a more robust rhythm while walking, leading to smoother overall movement in people with Parkinson's.



David

'I used to freeze pretty often even when just walking to the shops, and I didn't go out socially much. This has all changed due to the CUE1. It has given me the confidence to act like a real person again, and go out and enjoy myself doing anything I want to do.'

