

## Australia develops wireless neuro-stimulator to revolutionise patient care

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**The digital platform allows clinicians to monitor patients remotely**



Many neurological disorders like Parkinson's, chronic depression and other psychiatric conditions could be managed at home, thanks to a collaborative project involving researchers at the University of Queensland (UQ) in Australia.

Queensland Brain Institute (QBI) Professor Peter Silburn AM said his team, together with Neurosciences Queensland and Abbott Neuromodulation have developed a remote care platform which allows patients to access treatment from anywhere in the world.

"By creating the world's first integrated and completely wireless remote care platform, we have removed the need for patients to see their doctor in person to have their device adjusted," Professor Silburn said.

Electrodes are surgically inserted into the brain and electrical stimulation is delivered by a pacemaker which alters brain function - providing therapeutic relief and improving quality of life.

This digital platform allows clinicians to monitor patients remotely, as well as adjust the device to treat and alleviate symptoms in real time.

While the team started working on this digital health solution before COVID-19, the pandemic elevated the need for remote care platforms, particularly for older people and those living in remote areas with increased travel difficulties.

The researchers are confident the technology could be adapted for many other conditions in the future.