

PD-Monitor

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ClearSky[®]
medical diagnostics

Confirming diagnosis of Parkinson's disease

Diagnosis of Parkinson's disease can be difficult to confirm by conventional clinical assessment alone. PD-Monitor assists the specialist by measuring symptoms of Parkinson's disease while patients undertake routine clinical tasks.

Small, non-invasive sensors positioned on the finger and thumb measure patients' movements in response to the finger-tapping test, a clinical task in which the patient repeatedly taps the forefinger and thumb of each hand for a period of 10–30 seconds. Symptoms associated with Parkinson's disease such as bradykinesia and tremor are reported to the Specialist in a tablet-based application that can be used to inform diagnosis.



How the device works

Readings from the sensors are transmitted to a tablet computer and then analysed by specialist software employing biologically inspired algorithms. These algorithms have been trained to recognise patient movements characteristic of tremor and bradykinesia, two important symptoms of Parkinson's disease. The results are then presented on the tablet computer in an easy to interpret display that can be used to help diagnose and monitor the progression of Parkinson's disease.

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