Researchers from Koneksa sought to demonstrate the utility of digital measures of motor function in Parkinson’s disease. Koneksa’s work is fully aligned with the V3 framework exemplifying a systematic, stepwise evaluation of body worn sensors with data processing algorithm prior to testing in patients. The study details: (1) the technical verification of accelerometers in an Apple iPhone 8 Plus and ActiGraph GT9X versus an oscillating table and (2) analytical validation software tasks for walking and pronation/supination on the iPhone plus passively detect walking measures with the ActiGraph in healthy volunteers versus human raters. Using V3, the researchers determined that the devices, sensors, software, and algorithms are sufficiently fit-for-purpose to proceed with the examination of usability and clinical validity in patients with Parkinson's disease. The study also highlights the importance of detailing the technical verification and analytical validation steps in V3, in addition to clinical validation, the step most frequently detailed in peer review literature.

Read the full study here