## **V**3

## **NIH & NINDS**

The National Institutes of Health (NIH)
National Institute of Neurological
Disorders and Stroke (NINDS) mission is
to seek fundamental knowledge about
the brain and nervous system and to
use that knowledge to reduce the
burden of neurological disease for all
people.



- In 2021 the NINDS convened a <u>working group</u> to revise and develop <u>Common Data</u> <u>Elements</u> (CDEs)<sup>1</sup> for Parkinson's Disease (PD) research. The Digital Technology Subgroup sought to recommend best practices for:
  - Choice of connected sensor technology for digital health outcome measures for clinical research on PD
  - Guidance for digital data sharing for clinical trials on PD
- >> To evaluate the end-to-end validity and reproducibility of digital measurement products, the working group required a framework.



## The Resource

- The <u>working group</u>, which released <u>Best Practices for Digital Health Outcomes</u> in 2022, noted that "whether used as primary, secondary, or exploratory outcomes, digital health outcomes from connected sensor technology should include **evidence of technical verification**, **analytical validation**, **and clinical validation for their particular research purpose**," as specified by DiMe's <u>V3 framework</u>.
- Authors use the V3 framework as a blueprint for the "Validation of Digital Medical Products" section of the report to establish how future PD studies using digital technologies should validate measurement products.



## The Impact

- The adoption of V3 framework as recommended by the working group will enable more accurate and reliable outcomes for PD (as compared to clinical trials) and ensure researchers are using the same standards as technologies continue to advance.
- The working group's recommendation to use V3 also shows the importance of broadly adopting this framework.