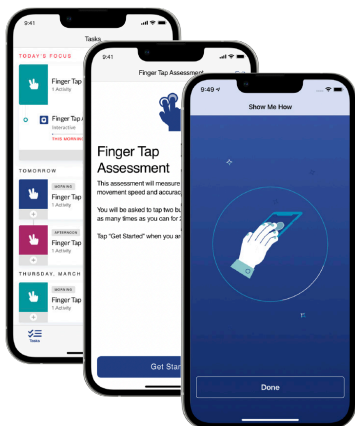


Fine Motor Measurement, Designed for Decision-Ready Evidence

Koneksa's Finger Tap Assessment Calibrated for Clinical Signal

koneksa



Fine motor performance is one of the most clinically meaningful indicators of neurological function yet has long been measured with limited precision in clinical trials. Traditional finger tap exams rely on direct clinician observation, resulting in a measure that often lacks the precision to detect the subtle, early changes that define meaningful treatment effect.

Koneksa designs our finger tap assessment as part of a measurement strategy, pairing high-temporal-resolution capture with a structured set of derived measures and integrated analytics. The result is a quantitative, longitudinal signal of fine motor function sensitive enough to support earlier, more confident decisions in clinical development.

Measurement Framework for Finger Tap

Concept-Driven Measurement Design



Configuration of hand, finger, and duration aligned with the disease and clinical question.

High-Reliability Remote Capture

~90%
avg. compliance

Provisioned devices and structured guidance sustaining high compliance across repeated visits.

Multi-Dimensional Derived Measures



Koneksa-owned algorithms transforming sensor data into four complementary, endpoint-ready measures.

Longitudinal Modeling + Signal Integration



Repeated within-subject capture enabling trajectory modeling and integrating into Koneksa's wider measure library.

Derived Measures from a Single Assessment

Each finger tap session generates four complementary measures that together describe distinct, clinically meaningful dimensions of fine motor performance:

Tap count — total motor output across the session

Tapping speed — movement velocity, in taps per second

Tapping correctness — ratio of correct-button taps to total taps

Tapping regularity — variability between successive taps, in seconds

For full configuration and pipeline detail, our finger tap blueprint is available through scientific consultation.

Configurable to Study Intent
with standard SDTM exports available for downstream analysis.

- Hand (left/right)
- Finger combination (index/index + middle)
- Assessment duration (10/15/20 seconds)



Finger Tap Experience Across Indications

One of the highest-yield fine motor measures in Koneksa's library, the Finger Tap Assessment has been deployed across multiple neuroscience programs and indications, generating longitudinal motor datasets in studies where fine motor function is on the causal pathway of disease or treatment effect.



75% of finger tap use focused in Parkinson's disease programs, with 1 in 5 neuroscience studies incorporating the assessment as part of a broader measurement strategy.



Measurement in Practice: Indication Snapshot



Parkinson's Disease

Quantitative capture revealing bradykinesia, rhythm decay, and within-day fluctuation.



Multiple Sclerosis

Sensitive upper-limb dexterity assessment complementing walk-based motor endpoints.



Huntington's Disease

Repeated motor sampling tracking inter-tap variability as an early progression marker.



ALS / Motor Neuron Disease

High-frequency remote capture surfacing fine-motor decline between in-clinic visits.

Measurable Impact



- Sensor-based capture eliminates between-rater variability, sharpening detection of treatment effect on bradykinesia, fine-motor decline, and dose-dependent CNS effects.
- Four complementary measures resolve speed, accuracy, rhythm, and fatigability, allowing endpoints tailored to the symptom domain a therapy is designed to modify.
- Repeated at-home capture surfaces day-to-day fluctuation, decline trajectories, and treatment-related variability that single in-clinic visits cannot resolve.
- SDTM-ready exports travel cleanly across studies and indications, allowing motor measurement evidence to compound across a CNS development portfolio.

Where Koneksa's Model Stands Apart:

- **Designed upstream.** Configuration starts from disease biology and clinical intent.

- **Standardized capture.** Provisioned iPhones eliminate sensor variability across sites.

- **One pipeline, end to end.** Capture, processing, and interpretation within Koneksa's scientific and data stewardship.

- **Multi-domain by design.** Combines with Koneksa's motor, cognitive, and functional measures into one evidence strategy.

Schedule a scientific consultation to design a finger tap measurement strategy fit for your program.