

# The HealthMeasures Apps

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# Implementation – basic questions

- What do you want to measure?
- Who are your participants/patients?
- How and where are you going to collect the data?
- How are measures scored?
- What are the exporting and reporting options?
- What is required to use the measures?



# NIH Toolbox and PROMIS Apps

- Standalone systems allowing offline administration of HealthMeasures in clinics and other data collection sites
  - (not a “take-home” tool)
- Identical, except for measure selection hierarchy
  - Separate NIH Toolbox Spanish app
- Available for iPad only
- In the Apple store search for “NIH Toolbox” or “PROMIS”
- Annual subscription fee for use on up to 10 iPads
  - Free version to view measures



# Components

- Measures
  - NIH Toolbox, PROMIS, Neuro-QoL and related PRO measurement systems
  - Performance-based and self/parent report
- Administrative Shell (functions)
  - Record participant information
  - Measure administration
  - Automatic Scoring
  - Data export
  - Individual Report



# Measures



# Many measures to choose from

- NIH Toolbox: >100 performance-based and self/proxy report measures of cognition, motor, sensation and emotion
  - Ages 3-85
  - General and clinical populations
- Patient Reported Outcome Measures
  - Adult (18+); pediatric self- (8-17) & parent- (5+) report
  - Chronic health conditions -> PROMIS (>100)
  - Neurological conditions -> Neuro-QoL (40)
    - Spinal Cord Injury -> SCI-QOL (31) & SCI-FI (15)
    - Traumatic Brain Injury ->TBI-QOL (15)



# NIH Toolbox domain framework

- **Cognitive Function:** Executive function, episodic memory, working memory, processing speed, language (vocabulary and reading)
- **Motor Function:** Locomotion, strength, balance, endurance, dexterity
- **Sensory Function:** Vision, audition, taste, olfaction, pain
- **Emotional Health:** multiple measures of Negative Affect, Psychological Well-Being, Social Relationships, Stress & Coping



# Administrative Shell

## NIH Toolbox

Tap one of these four buttons to:

- create new participants
- view existing participants
- edit existing participants
- select and assign instruments to participants
- start assessments



- create new custom batteries
- view existing custom batteries
- edit custom batteries
- view preset batteries

- generate registration data
- generate assessment scores
- generate assessment data
- email data
- upload data to iCloud
- transfer data to a computer via iTunes



- change the app passcode
- view subscription info
- view FAQs
- view the app T&C
- change data security settings
- view app diagnostic info



# Important App Features/Functions

- Measures can be administered and automatically scored
- Assessments (i.e., specific measures to be given to someone) can be set up prior to or at time of assessment
- Provides standard, commonly given combinations of measures in the forms of batteries and profiles AND allows creation of custom batteries
- Data is on iPad (remains yours) and can be exported in multiple ways
- Data includes demographic information, item level responses, raw and normative scores
- Provides individual reports



# What you need to use the apps

- iPad with Toolbox or PROMIS app
- Annual subscription
- Administrator/data collector
  
- NIH Toolbox only
  - Specific hardware/materials (Cognition, Motor, Sensation), software (BalancePod)
  - Training
  - Unlock code for Cognition
  - Physical space – privacy, noise/distractions, sufficient room

