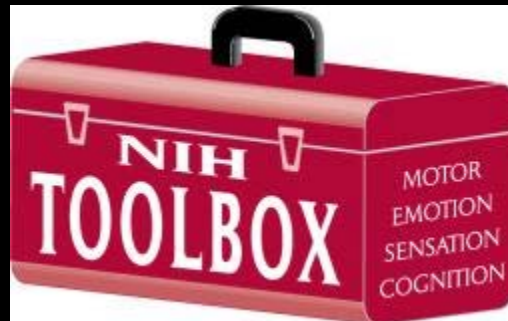


APP-BASED ADMINISTRATION OF THE NIH-TOOLBOX: TRAINING AND USER EXPERIENCES

Noelle E. Carlozzi, Ph.D.

September 27, 2017





Tools

**Four 30-minute domain-level batteries
fully normed for ages 3-85
34 Supplemental Instruments
108 Instruments in total**

Diseases

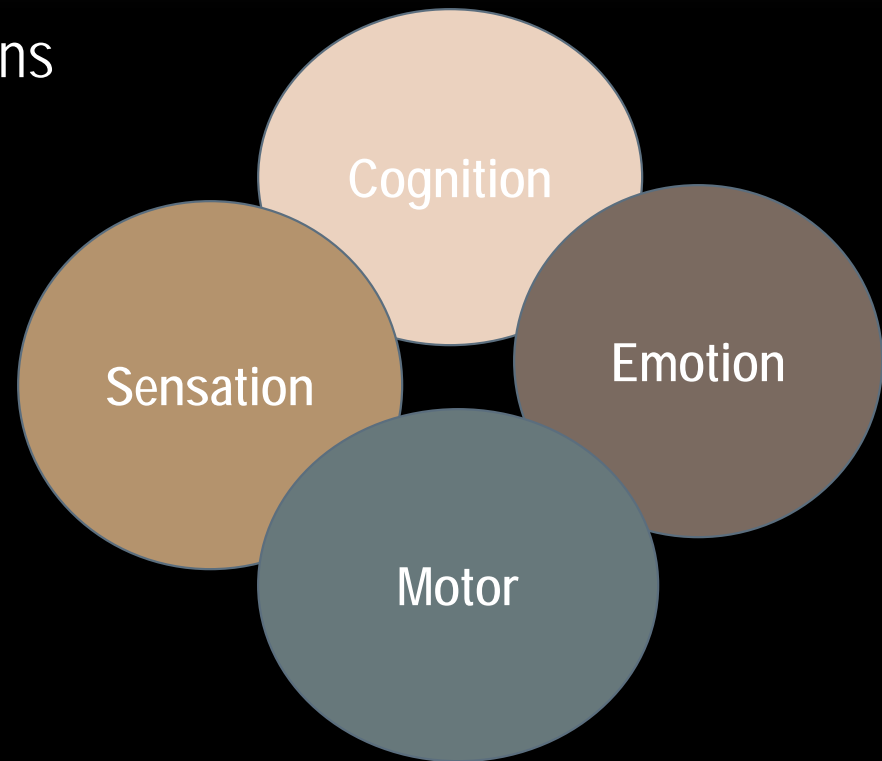
Non-Disease Specific

Translations

**All instruments →
Spanish**

THE NIH TOOLBOX BATTERY

- Four 30-minute domain-level batteries
- English and Spanish versions
- Fully normed for ages 3-85
- 108 instruments in total



COGNITION

Cognition

Attention
(DCCS)

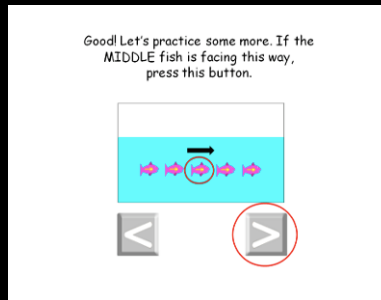
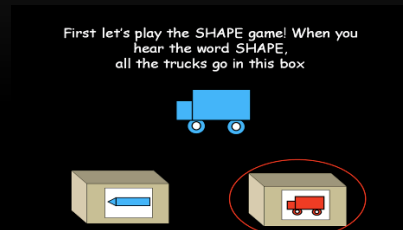
Executive Function
(Flanker & DCCS)

Episodic Memory
(Picture Sequence Memory)

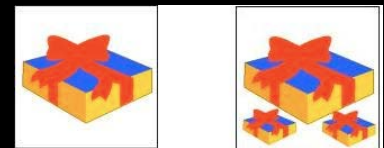
Language
(Picture Vocabulary & Oral Reading Recognition)

Processing Speed
(Pattern Comparison)

Working Memory
(List Sorting)



abate



LIST SORTING

One List Version:

QUESTION: Tell me the animals in size order. **ANSWER:** Duck, Tiger, Elephant

Two List Version:

QUESTION: Tell me the food in size order from smallest to biggest and then tell me the animals in size order. **ANSWER:** Apple, Watermelon, Cat

TRAINING OPTIONS FOR THE NIH-TOOLBOX

Training

We provide two primary mechanisms for learning how to administer NIH Toolbox tests:

- **eLearning** – An online training curriculum (including didactics, video demonstrations, and quizzes) that can be utilized at the trainee's convenience.
- **Workshops** – These 1.5 day in-person sessions provide participants with basic information about each test, opportunities to practice, and feedback from experienced NIH Toolbox administrators.

TRAINING PRACTICES FOR NEW EXAMINERS

1. New examiners complete e-learning modules
2. New examiners complete in-person training with me (that includes practice opportunities using the app)
3. New examiners must practice using the app-based platform with at least 5 practice participants
4. New examiners must complete in-person certification process

ABOUT HALF OF MY NEW EXAMINERS FAIL TRAINING BECAUSE OF ONE TEST...

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EXPERIENCES WITH DIFFERENT CLINICAL POPULATIONS

- Brain Injury (data collection ongoing)
- Spinal Cord Injury (data collection ongoing)
- Cardiac Arrest Survivors (data collection ongoing)
- Individuals with Huntington disease (IRB approval pending)

How do I – Accommodations



Manuals for NIH Toolbox Assessment Center Version

The following documentation is for Assessment Center Users ONLY. If you are an NIH Toolbox iPad App user, please go to the [NIH Toolbox iPad App](#) page for associated documentation.

[Cognition Technical Manuals](#)

[Emotion Technical Manuals](#)

[Motor Technical Manuals](#)

[Sensation Technical Manuals](#)

[Accessibility Manuals](#)

[NIH Toolbox Accessibility and Accommodations-Quick Reference](#)

[NIH Toolbox Reasonable Accommodations Guidelines](#)

QUESTIONS?