Phase I (September 2006-Present)

- Domain and Sub-domain selection
- Instrument Selection
- Pediatric Option
- Instrument Development

Toolbox Domains from RFP

- Cognition
- Emotion
- Motor
- Sensation
**Instrument Selection**
- Candidate measures generated from lit reviews and expert input
- Instrument Library
  - 1,300 instruments
  - 557 digital copies of instruments and/or articles
- Measures systematically reviewed

**Selection Criteria**
- Applicable across the age span
- Intellectual Property
- Psychometrically sound
- Brief, easy to use
- Applicable in variety of settings and with different subgroups
- Preference for instruments already validated and normed

**Draft Development Plans**
- For each instrument
- Identification of development experts
Phase I survey and development activities included assessment of instruments for use in children and adolescents

Earlier this year, the Directors of the NIH Blueprint for Neuroscience Research approved Phase II validation

Pediatric Option Approved

Instrument Development

- Generate additional items and tasks to insure range of trait and age coverage
- Pre-testing of new items and tasks

Phase IIA (2008-2009)

- Calibration of items for CAT instruments
- Validation testing of new instruments
- Concurrent validation with legacy instruments
Phase IIA (2008-2009)
- Final instrument selection
- Spanish translations
- Development of single technology platform
- Materials production

Phase IIB (2010-2011)
- National Norming Study
  - National random sample
  - N=5,800
  - 50% Spanish, 50% English
  - Ages 3-85
  - All primary batteries administered to entire sample

Phase IIC (2011)
- Calculate scoring crosswalks with legacy instruments
- Development of Technical Manual
- Delivery of final Toolbox at Public Conference
**Organizational Structure**

- Steering Committee (monthly)
  - Executive Committee
  - Domain Team Principal Investigators
  - Lead Epidemiologists and Analysts
  - Contract Project Officer
  - NIH Project Team (monthly)

**Nine Domain Teams**

- 1-2 Lead Scientists with content expertise
- Domain Manager from CORE
- Additional consultants with content expertise (adult & pediatric)
- NIH Project Team Member
- Epi/Biostat Team Representative

**Instrument Development Teams**

(Sub-committees to each of the Domain Teams)

- Cognition (4)
- Emotion (4)
- Motor (2)
- Sensory
  - Vestibular Balance (2)
  - Taste (1)
  - Audition (3)
  - Somatosensation (2)
  - Vision (2)
  - Olfaction (2)
General Sub-committees

- Epi Biostat (Richard Havlik & Kathy Yost)
- Analysis Team (Ron Hays)

Task Forces

<table>
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<tr>
<th>Accessibility</th>
<th>Data Management</th>
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<tr>
<td>Pediatrics</td>
<td>Graphics Specs</td>
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<td>Cross Cultural</td>
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CORE Management Committee

<table>
<thead>
<tr>
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<th>Operations</th>
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<tr>
<td>Domain Managers</td>
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<td>Communications</td>
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<tr>
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<tr>
<td>Translations</td>
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By the numbers

- Established rich collaborative network
  - 242 named personnel
  - 126 consultants
  - 19 subcontracts
  - Held over 500 team meetings to date

How to Keep up to Date with the NIH Toolbox

- [www.nihtoolbox.org](http://www.nihtoolbox.org)
- Quarterly newsletter
  - Distribution: 400 copies
  - Available on the website

Awareness/Impact

- Requests for Information (RFI)
- Conference Presentations
  - 12 to date
  - American Academy of Audiology
  - International Conference on Alzheimer’s Disease
  - International Neuropsychological Society
  - Society of Behavioral Medicine
  - 10 scheduled over next 12 months
- Journal articles in process
Early Adopters

- Collaborative Studies
  - Limited early availability in late 2009
  - Full availability is scheduled for late 2011

Building the Toolbox:
Timeline and Operational Structure

Richard C. Gershon, PhD
Center on Outcomes, Research and Education
Northwestern University
October 27, 2008

This study is funded in whole or in part with Federal funds from the Blueprint for Neuroscience Research, National Institutes of Health under Contract No. HHS-N-260-2006-00007-C.

For more information, please visit www.nihtoolbox.org
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