The Evaluation in Ayres Sensory Integration
A Comprehensive Sensory Integration Measure

EASI
Coming Soon!
EASI Test Authors

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EASI US Based Pilot Studies to Assess Discriminative Validity
Under Review by Thomas Jefferson University
Roseann Schaaf, PhD, OTR/L, FAOTA - Primary Investigator

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<tr>
<th>PILOT STUDY 1</th>
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<td>TACTILE TESTS</td>
<td>PRAXIS TESTS</td>
<td>VESTIBULAR/PROPRIOCEPTION/OCULAR/POSTURAL/BILATERAL TESTS</td>
<td>VISUAL TESTS, AUDITORY TEST, SENSORY REACTIVITY TEST</td>
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KELLY AULD-WRIGHT | SUE WIELAND | JENNI PERTERSEN | MEGAN STEBER
Just a few of our many volunteers!
Timeline

2014 - INITIAL TEST ITEMS DEVELOPED

2015 - INITIAL FIELD AND PILOT TESTING + ANALYSIS

2016-2017 PILOT TESTING; ITEM SELECTION; ORGANIZATION AND TRAINING FOR NORMATIVE DATA COLLECTION

2018 NORMATIVE DATA COLLECTION; VALIDITY AND RELIABILITY STUDIES; ITEM ANALYSIS

2019 WRITING MANUAL AND PAPERS

2020 EASI AVAILABLE! + ONE BIG BIRTHDAY PARTY FOR DR. AYRES IN CA ~ 7/20/20 ~ SAVE THE DATE!
The aims include:

- Assess all the key constructs of ASI
- Ensure minimal influence of language/culture/experience
- Provide FREE/low cost access-open source materials
- Ensure that tests are highly discriminative
- Allow for comprehensive yet feasible assessment- 1-1.5 hrs
- Achieve standardization in 100 countries
- Focus initially on ages 3-12-younger and older later?
Process

Figure 1 Steps in EASI Test Development

Aims & Constructs
- Establish the overarching purposes and aims of the EASI
- Identify the constructs to be measured
- Decide specific content/format of items

Feasibility Testing
- Develop preliminary items/conduct feasibility testing
- Eliminate or revise problematic items
- Collect data on a small sample to determine discriminative strength of tests (20+20)

Pilot Testing
- Revise tests; select and train pilot testers
- Collect data on a sample large enough to determine discriminative validity of tests
- Analyze data to determine item selection
- Conduct cross-cultural feasibility and begin translations

Normative Data Collection
- Revise tests
- Identify and train normative data collectors
- Collect normative data on randomized, representative international sample

Publish and Disseminate Tests
- Make tests available to qualified professionals as an open access test (e.g., share 3D printing files for test materials)
- Develop and make online scoring available
- Develop data sharing options for researchers
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<tr>
<th>Sensory Perception</th>
<th>Praxis</th>
<th>Ocular</th>
<th>Sensory Reactivity</th>
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<tr>
<td>Tactile Perception (TP)</td>
<td>Somatosensory Based Praxis (Pr): Pr: Positions Pr: Sequences</td>
<td>Bilateral</td>
<td>Defensiveness vs Registration Problems:</td>
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<td>Proprioception (Prop)</td>
<td>Visual Based Praxis (Pr): VPr: Tracing VPr: Designs VPr: Construction</td>
<td>Postural Control &amp; Balance (PC&amp;B)</td>
<td>Sensory Reactivity Test (SR)</td>
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<td>Prop: Force Prop: Joint Position</td>
<td>Language Based Praxis (Pr) Pr: Following Directions</td>
<td>Bilateral Integration (BI)</td>
<td>Tactile Auditory Olfactory Gravity &amp; Movement</td>
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<td>Vestibular (Vest)</td>
<td>Vest: Ocular Reflex</td>
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