

Self-Regulation and Coping Across the Lifespan: Sensory Processing Measure, Second Edition

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- PhD: Special Education in Early Childhood
- Master's: Occupational Therapy
- Bachelor's: Rehabilitation
 Services with a concentration in Counseling
- Diploma: Massage Therapy

- Over 20 years of experience in rehabilitation
- RESNA, Certified Assistive Technology Professional
- IBCCES, Board-Certified
 Telepractice Specialist
- Florida Occupational Therapy Association, President

Assessment Consultant

I am an assessment consultant with Western Psychological Services. I am a salaried employee and have no additional relevant financial interests or conflicts of interest related to this presentation.

Objectives

- Discuss self-regulation and coping across the lifespan in relation to sensory processing
- Provide an overview of the Sensory Processing Measure,
 Second Edition across the lifespan
- Discuss the Sensory Processing Measure, Second Edition Quick Tips





Self-Regulation and Coping Across the Lifespan



Self-Regulation: Defined

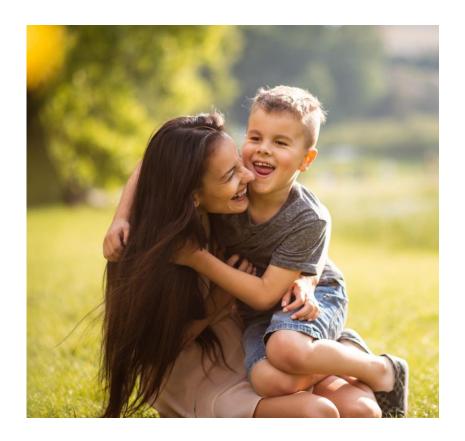
- What is self-regulation?
 - Process of managing thoughts, feelings, and emotions to enable goal-directed actions





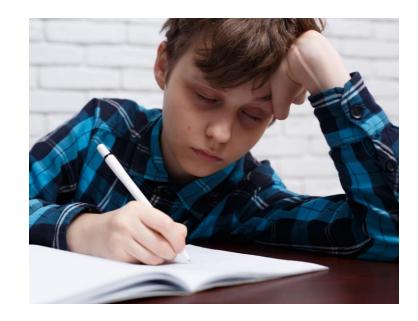
Self-Regulation: Defined (cont.)

- What is self-regulation?
 - Involves physical, emotional, mental, and social states/functions
 - Multifaceted
 - Involves adaptive responses



Coping: Defined

- What is coping?
 - Ability to manage the demands of and emotions generated by the person environment relationship
 - Efforts to manage internal and external demands
 - Individual variability



(Lazarus & Folkman, 1984)

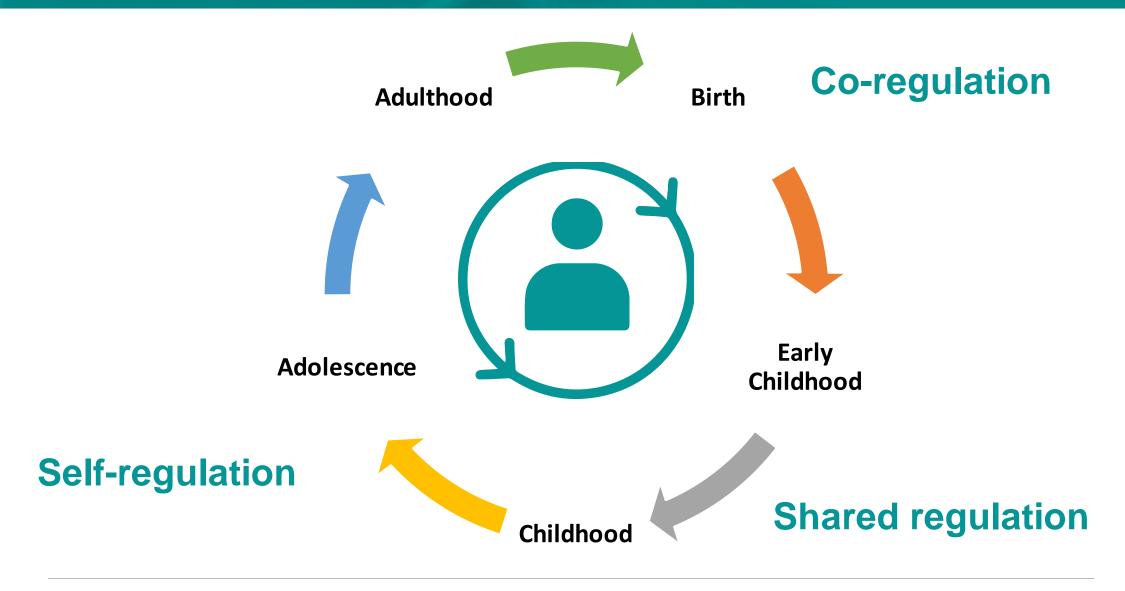


Coping: Defined (cont.)

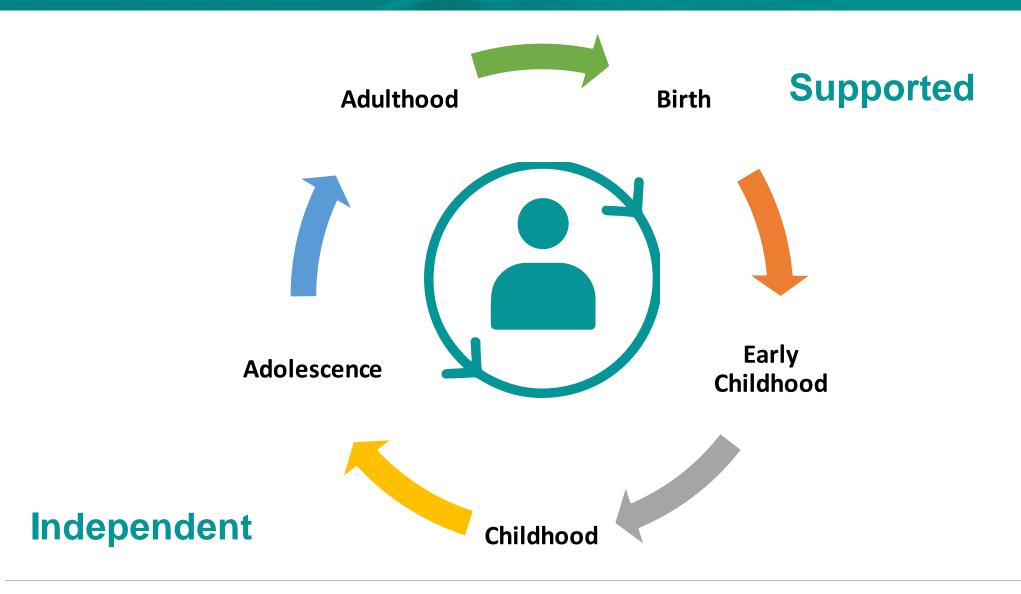
- What is coping?
 - Efforts to manage internal and external demands
 - Individual variability



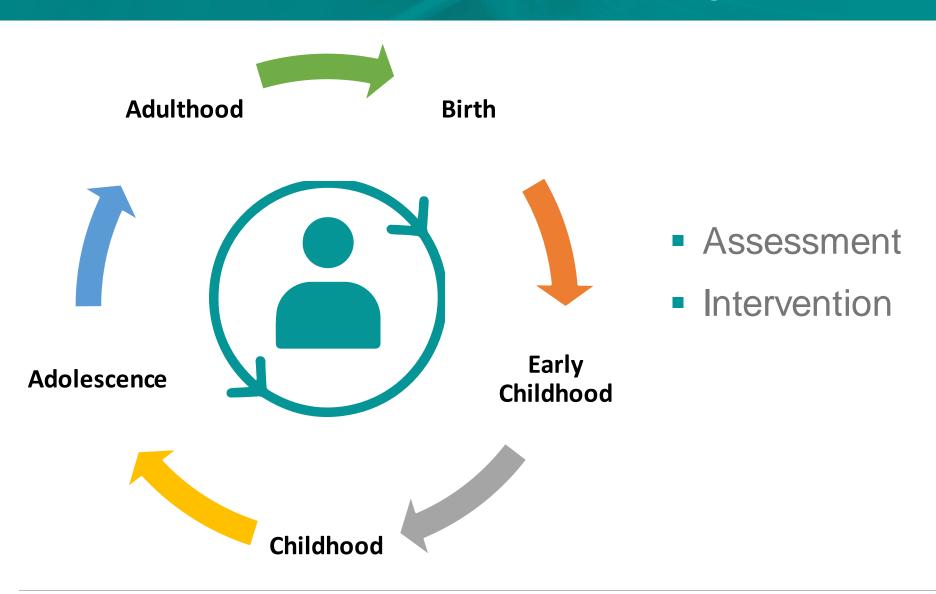
Self-Regulation Across the Lifespan



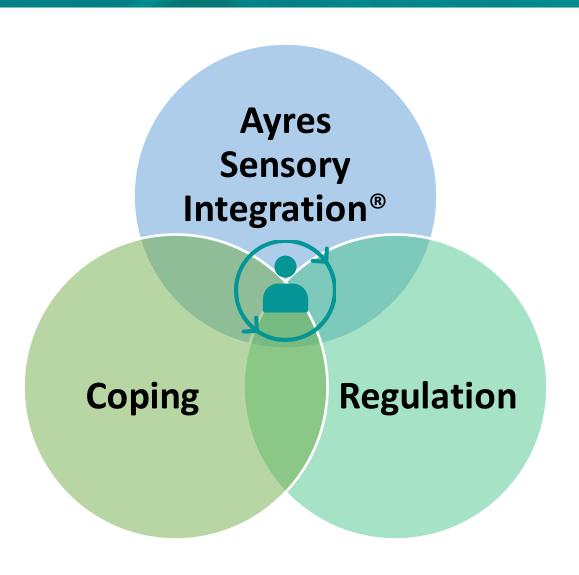
Coping Across the Lifespan



Supporting Self-Regulation & Coping Across the Lifespan



Coping & Self-Regulation: Relationship to Sensory Processing

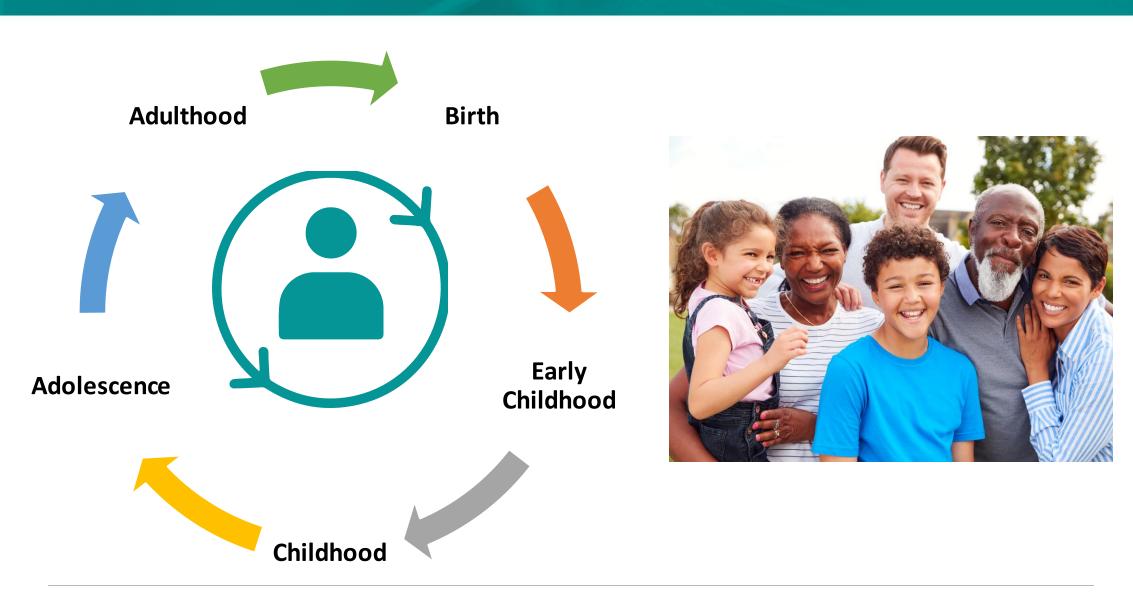




Assessment Across the Lifespan



Assessment Across the Lifespan



Assessment: Sensory Processing

- Assessment
 - Rating scales
 - Sensory-based
 - Adaptive behavior
- Performance-based assessments
 - Observation





Sensory Processing Measure, Second Edition











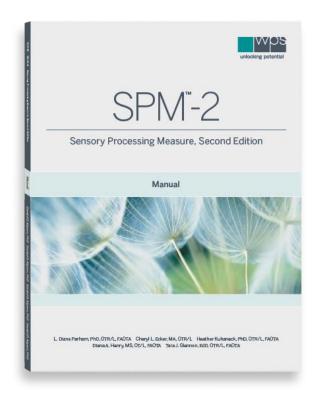
Sensory Processing Measure, Second Edition

- Easy to use
- Reliable
- Valid
- Time efficient
- Informative



Overview

- The Sensory Processing Measure, Second Edition (SPM-2) is a revision and expansion of:
 - Sensory Processing Measure (2007)
 - Sensory Processing Measure— Preschool (2010)
- The SPM-2 expands the age range downward to include infants and toddlers and upward to include adolescents and adults





Overview (cont.)

 Used in many different settings where assessment of an individual's developmental abilities, strengths, and weaknesses is useful



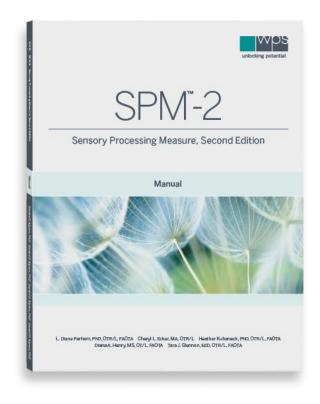
Uses

- The SPM-2 supports identification and treatment of sensory integration and processing difficulties
- Developed by occupational therapists and is appropriate to be used by various professionals
 - Consult OT for intervention
- May be used alone or as a screening instrument in conjunction with other assessments



SPM-2: What's New

- Expanded age range includes infants, toddlers, preschool and school-age children, adolescents, and adults
- Updated norms based on new, nationally representative standardization samples
- Assess and compare across daily environments with new forms, including driving forms





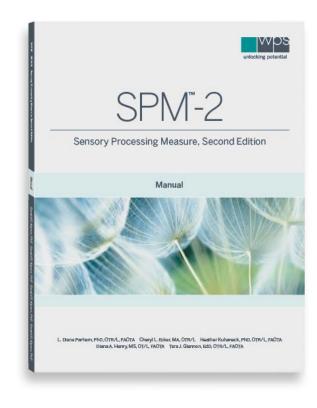
SPM-2: What's New (cont.)

- Updated SPM-2 Quick Tips now organized by additional sensory, cognitive, and behavioral objectives to develop intervention strategies for home, school, work, and in the community
- Compare sensory needs of individuals to those of the caregiver, parent, teacher, or other adult
- Updated item content reflects changes in technology for children's play and activities



Key Features

- Assessment of sensory systems:
 - T-scores provide normreferenced indexes of function
 - Visual, auditory, tactile, olfactory, gustatory, proprioceptive, and vestibular sensory systems
 - Integrative functions of praxis and social participation





Key Features (cont.)

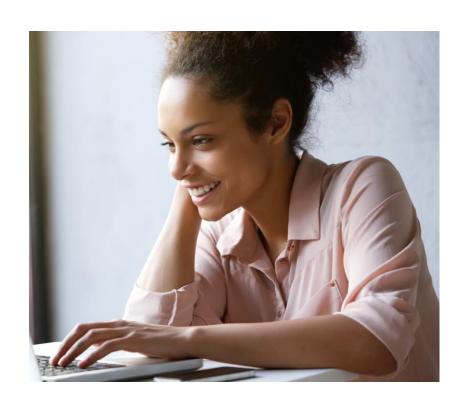
- Assessment of sensory integration vulnerabilities:
 - The SPM-2 items provide descriptive clinical information on processing vulnerabilities within each sensory system, including
 - Under- and over-reactivity
 - Sensory-seeking behavior
 - Difficulties with perception





Key Features (cont.)

- Assessment across multiple environments and raters:
 - Forms at each age level of the SPM-2 are designed for maximum flexibility in choosing and comparing among environments and raters, such as:
 - 12 main forms
 - Multiple caregivers



SPM-2 Components

- Print and digital materials on the WPS Online Evaluation System (OES)
- Manual
- Various forms across the lifespan for completion by caregivers, teachers, and self-report
 - Infant/Toddler
 - Preschool
 - Child
 - Adolescent
 - Adult



Scales

- Vision (VIS)
- Hearing (HEA)
- Touch (TOU)
- Taste and Smell (T&S)
- Body Awareness (BOD)
- Balance and Motion (BAL)
- Planning and Ideas (PLN)
- Social Participation (SOC)





Scales (cont.)

- SPM-2 Sensory Total (ST)
 - The ST is a composite of six sensory scales:
 - VIS, HEA, TOU, T&S, BOD, and BAL
 - Not included:
 - PLN and SOC
 - Represent higher level integrative processes influenced by cognitive, contextual, and multisensory information



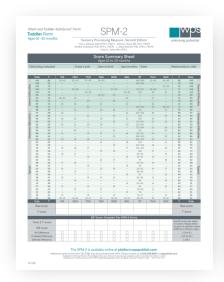
SPM-2: Administration

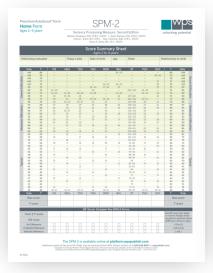


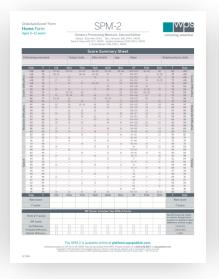


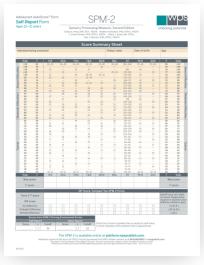


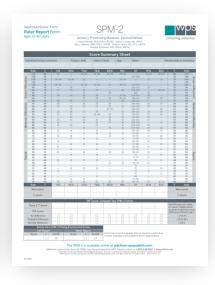












Infant/Toddler 4–30 months

Preschool 2–5 years

Child 5–12 years

Adolescent 12–21 years

Adult 21–87 years



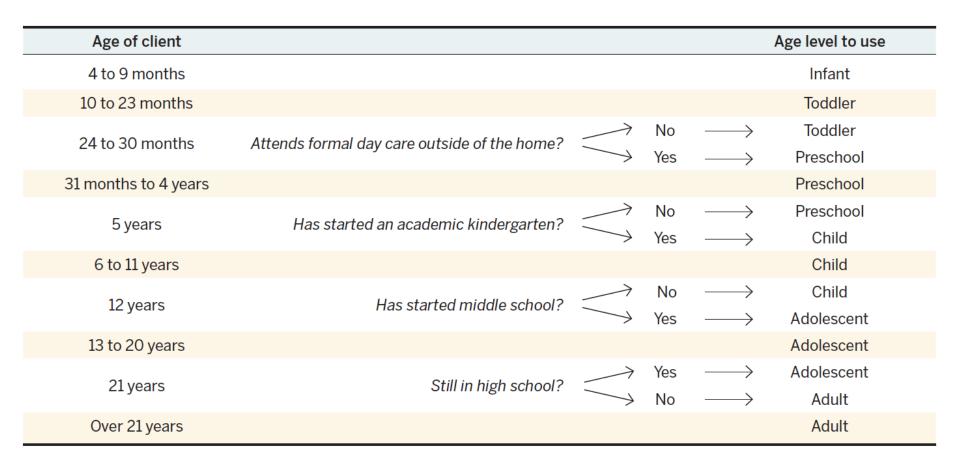


Figure 2.1. SPM-2 Forms to Use by Client Age

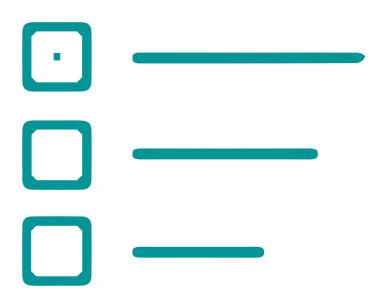


- Environment forms
 - Art (ART)
 - School Bus (BUS)
 - Cafeteria (CAF)
 - Music (MUS)
 - Physical Education (PHY)
 - Recess/Playground (REC)
 - Driving





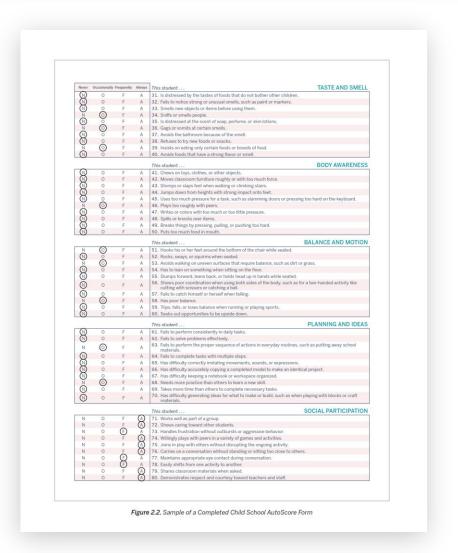
- Items rated based on frequency of a specific behavior
 - Never
 - Occasionally
 - Frequently
 - Always



SPM-2: Scoring

- Paper
 - AutoScore[™] Form







SPM-2: Scoring (cont.)

- Online
 - WPS Online Evaluation System





SPM-2: Standardization

- Standardization sample included 3,850 typically developing participants
 - 4 months to 87 years
- Separate sample of 639
 clinical participants (across
 all age levels) used to verify
 SPM-2 differentiates between
 typical and clinical populations





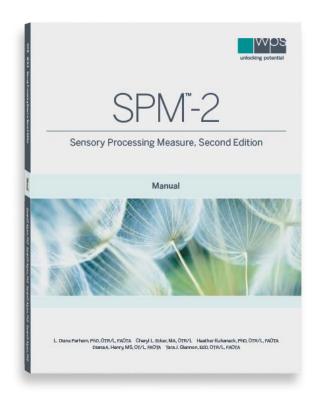
SPM-2: Standardization (cont.)

- Separate demographically representative normative samples were collected for each age level:
 - Infant/Toddler (n = 697)
 - Preschool (*n* = 606)
 - Child (n = 840)
 - Adolescent (n = 985)
 - Adult (n = 722)



SPM-2: Reliability

- Evidence supporting reliability included the following (median) estimates across all five age levels:
 - Internal consistency (.86)
 - Test-retest reliability (.84)
 - Alternate-forms reliability (.78)
 - Interrater reliability (.66)



SPM-2: Validity

- Content validity
 - Sensory domains
 - Vulnerabilities
- Structural validity
 - Strong
 - Interscale correlations
 - Factor analyses





- Construct validity
 - Equivalence with SPM and SPM-P
 - Convergence with Sensory Profile and Sensory Profile 2
 - Convergence with Adaptive Behavior Assessment System, Third Edition (ABAS-3)





- Clinical validity
 - Effect Size
 - .40 to .50 range for Infant/Toddler and Preschool age levels
 - .50 to .80 range for Child and Adolescent age levels
 - .20 to .30 range for Adult age level





Conditional probability

Table 5.35. Conditional Probability Analysis for Detection of Sensory Processing Disorder

Sensory Total (ST) T-score		
cutoff points	Sensitivity	Specificity
55	.87	.67
60	.72	.83
65	.51	.92
70	.23	.98
75	.03	.99

Note. Sample included 39 individuals with sensory processing/integration disorders and 3,096 typically developing individuals from the standardization sample; analysis included every form.



- Equivalence: Paper vs.
 Digital Administration
 - High median correlations for Scales (.81–.87) and Sensory Totals (.92)
- Spanish—English
 - Moderate to Strong for Scales (.58) and Sensory Totals (.71)

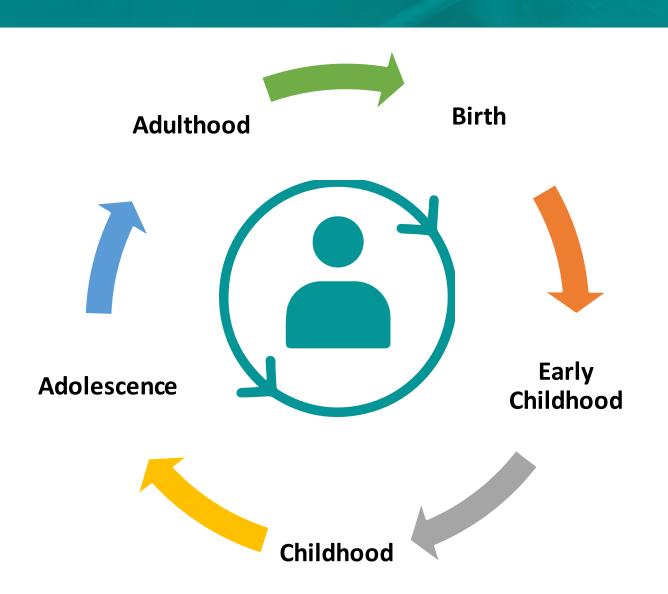




Intervention Across the Lifespan



Intervention Across the Lifespan





Intervention: Sensory Processing/ Sensory Integration

- Intervention
 - Ayres Sensory Integration®







- Intervention
 - Sensory-based strategies









SPM-2: Use in Telehealth

- https://pages.wpspublish.com/telepractice-101
- platform.wpspublish.com
- Online administration
 - WPS Online Evaluation
 System (OES)



Resources



WPS Online Evaluation System:

platform.wpspublish.com



WPS Video Resources:

https://www.wpspublish.com/webinars



WPS Content Hub:

https://www.wpspublish.com/content-hub



Telepractice Page:

https://pages.wpspublish.com/telepractice-101

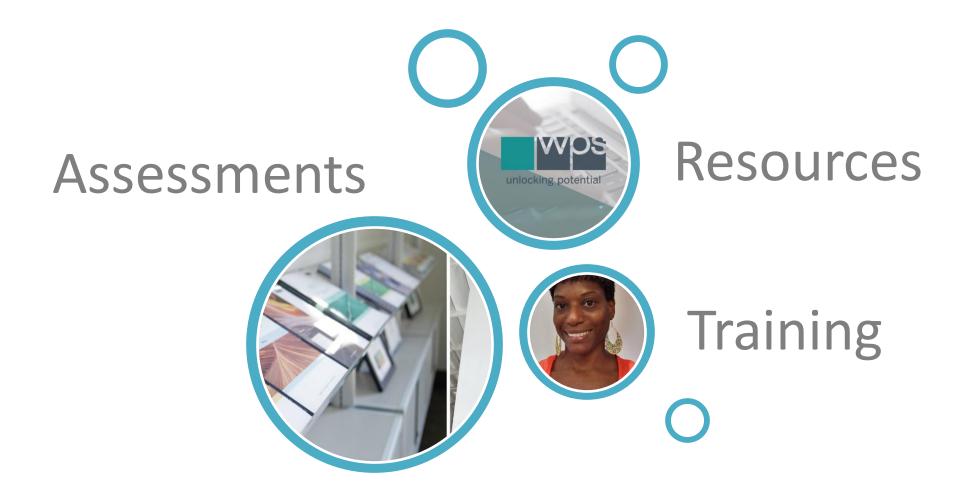


WPS YouTube Channel:

- How to Use Digital EaselsOverview of New DP-4
- · What You Need to Know About the Arizona-4 Assessment



WPS Resources





SPM-2: Coming Soon

- Available for pre-order: <u>pages.wpspublish.com/SPM2</u>
- Pre-order today and get 10% OFF with code SPM2PW!



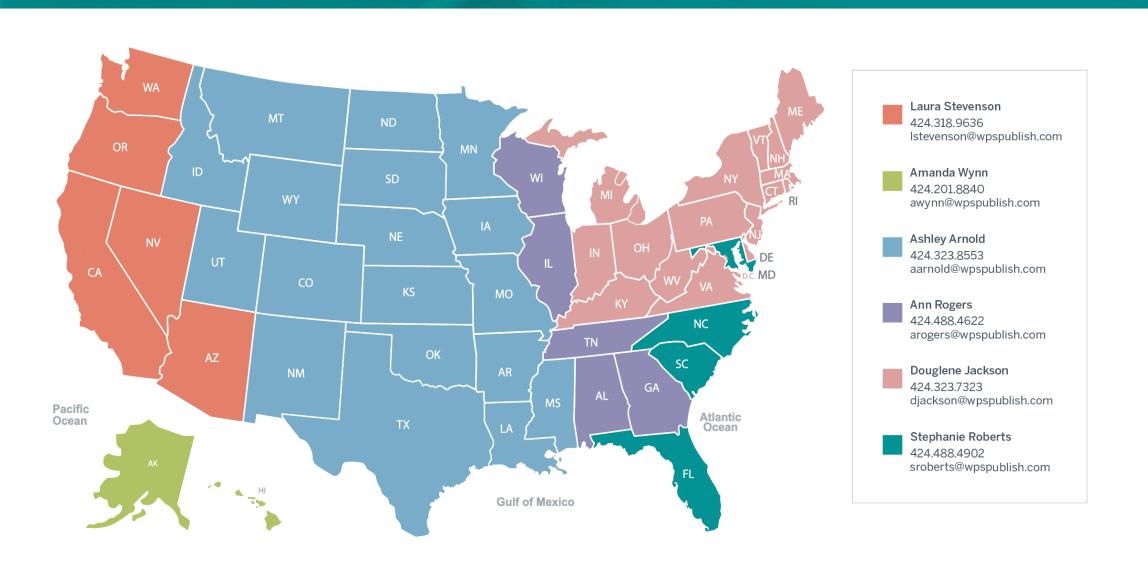




Questions?



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