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Parents' Goals: An Analysis of Therapist Reasoning

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Parents' Goals: An Analysis of Therapist Reasoning Amy L. Miller, OTS¹; Rachel L. Dumont, OTS¹; Janice P. Burke, PhD, OTR/L, FAOTA³; Ellen S. Cohn, ScD, OTR/L, FAOTA²; Sarah E. Kauper, OTS¹; Roseann C. Schaaf, PhD, OTR/L, FAOTA¹ with contributions from: Eric D. Bull, OTS¹; Denise G. Doria, OTS¹; Jamie A. Frank, OTS¹; Jenna R. Grady, OTS¹; Phoi Truong, OTS¹ ¹Thomas Jefferson University, School of Health Professions, Department of Occupational Therapy ²Boston University, Sargent College of Health and Rehabilitation Sciences, Department of Occupational Therapy ³Thomas Jefferson University, School of Health Professions

Background

- Difficulty processing and integrating sensation is highly prevalent in children with ASD and has been shown to impact participation (Ben Sasson, et al, 2008).
- Parents' goals for their child with ASD often focus on independence in ADLs (Schaaf et al., 2014) and social participation (Cohn, Kramer, Schub, & May-Benson, 2014)
- Occupational therapists have a unique skill set to address these goals and, when appropriate, may use a sensory integrative (OT/SI) approach.
- There is a paucity in the literature describing how OT/SI therapists use assessment data to link SI factors to participation challenges.
 - Data Driven Decision Making (DDDM) provides structure to guide therapist's clinical reasoning in interpreting assessment data, developing goals and planning interventions (Schaaf, 2015) - SI factors chosen based on literature (Ayres, 1977, 1989; Ben-Sasson et al., 2008; Mailloux et al., 2011; Reynolds, Lane, & Thacker, 2012)
- Use of the systematic DDDM process addresses the AOTA Centennial Vision of science-driven and evidence-based practice (AOTA, 2007).

Purpose

Illustrate the use of DDDM to develop parent-identified goals for occupational therapy and to identify underlying sensory integration factors hypothesized to be impacting participation.

Participants

Children ages 4-8 years with ASD (n=32) from a RCT evaluating outcome of occupational therapy using sensory integration (Schaaf et al., 2014). ASD diagnosis confirmed through ADI-R and ADOS.

Mean age in months (SD	71.8 (SD = 12.8; range =
and range)	4.0 = 7.11)
Gender (% male)	81.25
Ethnicity (% Caucasian,	90.6% Caucasian, 6.25%
Asian, and not reported)	Asian, 3.1% not reported
Percent of parents with	62.5%
education at 4 year	
degree or higher	
Non-verbal IQ (range)	93.4 (55-119)*
Mean ADOS autism	8.08 (5-10)
severity score (range)	

Table 1: Participant Demographics

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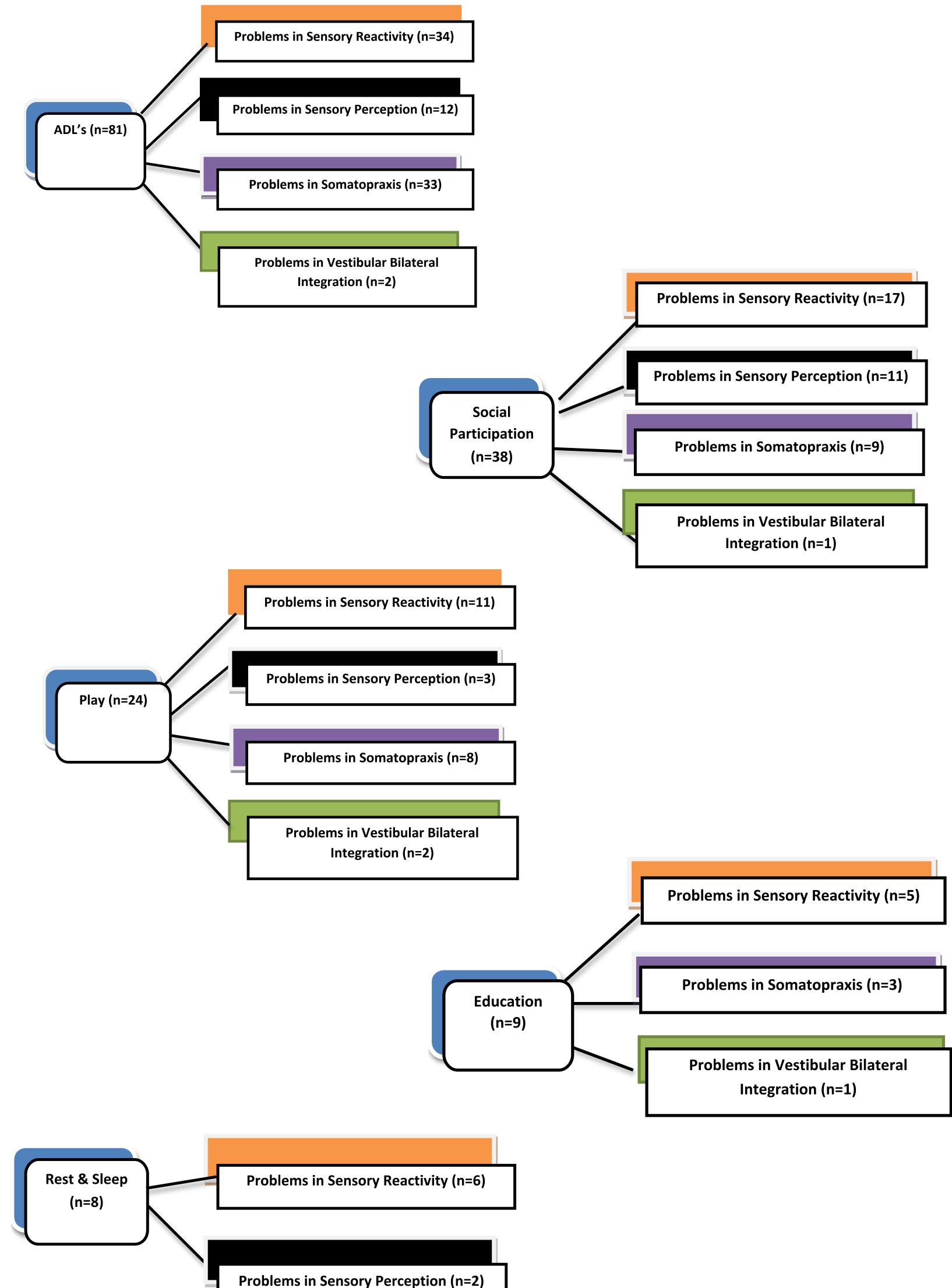
This study's original RCT is funded by Autisms Speaks Foundation

Methods

- 1. One hundred and sixty goals were identified and developed in collaboration importance and relevance.
- 2. Using the DDDM process, goals were analyzed to identify underlying SI and somatopraxis).
- 3. Goals were organized in categories according to OTPF 3 (AOTA, 2014) area of occupation (e.g. ADLs, Rest and Sleep, Education, Play, or Social Participation).
- 4. ICF category (body structure-function, activity, participation) also identified.
- 5. Frequency counts of each area of occupation, SI factors, and ICF category
- 6. Goals were organized into pictorial representations to identify the SI factors impacting each goal area.

Findings

Figure 1: Pictorial representation of patterns of variation in SI factors impacting OTPF area of occupation



with parents; they were then confirmed by parents for accuracy and rated by

factors (sensory reactivity, sensory perception, vestibular-bilateral integration,

Goal Analysis

Table 2: Sample of Parent-Identified Goals, OT Practice Framework Area, Hypothesized SI Factors, and ICF Area

JM will decrease oral tactile sensitivity as basis for ability to bru his teeth for 1 minute one time per day. RB will improve body awareness and moto planning as a basis fo

parallel play with othe children for 5 minute on 3/5 days per week DS will decrease auditory and tactile sensitivity to remain asleep for 5 hours pe

Goal

night. KM will decrease sensory over-reactivit as a basis for decrease self-stimulating behaviors and improve ability to self-calm.

Findings

- ADLs, play, and social participation.
- function level.
- contributing to goals.
- perception, and somatopraxis.

Interpretation and Implications

- impacting occupational performance. outcome)

Conclusions

Findings emphasize the value of addressing parents' goals and the need to identify the factors that may be impacting these goals. DDDM can be used to guide an occupational therapist's reasoning when identifying and analyzing goals.

	OT Practice Framework Area	Hypothesized SI Factors (based on assessment data)	ICF Area
a sh	Activity of Daily Living	Sensory Reactivity	Activity
/ r or er es «.	Play	Somatopraxis	Participation
r	Rest and Sleep	Sensory Reactivity	Participation
ed	Unable to identify OTPF area of occupation	Sensory Reactivity	Body structure and function

Parent-identified goals for OT/SI most frequently focused on areas related to

• Forty-seven percent of the goals were classified at the participation level of the ICF framework, 50% at activity level, and 3% at the body structure-

• Sensory reactivity (over- or under-reactivity) was the most frequently hypothesized SI factor followed by somatopraxis and sensory perception

• ADL's were most frequently impacted by sensory reactivity and somatopraxis • Social participation was most frequently impacted by sensory reactivity,

• A comprehensive assessment of sensory integration is an important component of the occupational therapy process for children with ASD when parentidentified goals relate to ADLs, play, or social participation in daily routines. • Parent-identified goals for occupational therapy focused on activity and

participation-related outcomes of ICF framework highlight the importance of these areas in the daily lives of children and families with ASD.

• Through systematic clinical reasoning and analysis of assessment data, therapists should consider that parent identified goals may have a sensory basis.

• Sensory reactivity is found to be an impactful SI factor, which is congruent with parents' identification of poor self-regulation of behavior as an explanation for seeking OT/SI intervention (Cohn et al., 2014)

• The use of DDDM provides a roadmap for occupational therapists to explicitly use assessment data to link parent-identified goals to hypothesized SI factors

- Use of data to customize interventions to address and measure outcomes at the SI factor level (proximal outcome) and the participation level (distal



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