

# Advancing Pediatric Occupational Therapy Practice: The Development of a Sensory Environment and Behavioral Management Plan D'Allegra Cochran, OTDS<sup>1</sup>, Dr. Lorraine Street, PhD, MOTR/L, BCP<sup>1</sup> and Catelyn Skipper, MOTR/L<sup>2</sup> University of Mississippi Medical Center<sup>1</sup> and Elite Performance and Rehab - Pediatrics<sup>2</sup>

### OVERVIEW OF CAPSTONE SITE

Elite Performance and Rehab - Pediatrics

Located in Vicksburg, MS.

The only pediatric outpatient clinic in Vicksburg, MS.

Services Provided: Physical Therapy, Speech Therapy, and Occupational Therapy.

**Grand** Opening: January 2020

### LITERATURE SUMMARY

**Childr**en with ASD often have sensory processing difficulties ultimately affect their engagement in everyday activities (Kr

These sensory processing difficulties directly influence childr opportunities to practice and develop skills like social partic adaptive behavior in response to their environment (Tomchel

The combination of behavioral and sensory interventions yiel results in children with ASD (Lydon, Healy, & Grey, 2017).

### **NEEDS ASSESSMENT**

Phase I: informal process via telephone con semi structured qualitative interview.

Phase II: informal process via in person inte consisting of semi structured qualitative que list format.

### PROJECT GOALS / OBJECTIVES

Goal 1: The capstone student will demonstrate knowledge and application Jean Ayres Sensory Integration theory to guide the capstone project by **Goal 2:** The capstone student (with the help of the capstone mentor) determine what items are needed for the sensory room by the end of **Goal 3:** The capstone student will compile a detailed list of items for room that outlines the utilization of each tool by week 7.

Goal 4: The capstone student will disseminate program plan and capst to key stakeholders both at the site and to faculty/staff at the end of experience

**Goal 5:** The capstone student will demonstrate program plan satisfaction by usage of evaluation tool by week 14.

	and Rehab's performance a	of the doctoral capsto ediatric practice by c and behavioral manag on. The plan consister ory items, oral motor proprioceptive and v strategies. Therapists and Rehab were prese	lev gen d c an ves ant
	•	olan and educated on Adult Relationship Er	
	•	Mentor and other key	
	with the proje	ect plan by offering o	ral
	ADVANCING PEDIATRIC THERAPY PR	ACTICE COCHRAN 7	
•	Multi-Image Mirror Pentagon	\$219.00 (Special Needs Toys)	Ĩ
		Compact pentagon with five distinct acrylic mirror faces, unfolds into a kaleidoscopic theater of visual perception.	
d	Glow in the Dark Stress Balls (4 pack)	\$10.99 (Amazon Prime)	
-	Alexa laminosa bali	These luminous balls are sticky and glow in the dark. After handling them under the light and sunlight for a while, they will have a fluorescent effect when placed in the dark. Great toys to be used for visual sensory play, anger/stress management, and hand eye coordination.	
	Pop Tubes (24 pack)	\$20.95 (Amazon Prime) Pop tubes are bendable sensory toys that	
		stimulate children's auditory and tactile senses. Pop tubes can be pulled apart to hear their distinctive sound or attached together to create a very long tube.	
	Concern Director Concern Directivity	Driver #20.00 (Succied Directo Tours)	
	Sensory Discs by Sensory Playtivity	Price: \$30.00 (Special Needs Toys) This set includes five sensory discs with different textures and bright colors that offer	
		visual and tactile input. The set includes: a fuzzy disc, a squeezy disc, a scaly disc, a search and find disc, and a squishy disc.	
	Textured Sensory Mitts	Price \$45.00 (Special Needs Toys)	
		This set of tactile mitts includes 8 different textures: spotty, rough, fleece, silky, soft, bumpy, ridged, and furry.	
	Born Toys Deluxe Dress Up Trunk	Price: \$88.95 (Amazon Prime)	
		This deluxe set of costumes includes the clothing and accessories of the fireman, policeman, doctor, explorer, gardener and scientist. Perfect for imaginary play and exploring different textured clothing.	
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### PROJECT DEVELOPMENT and/or IMPLEMENTATION

was improving Elite Performance veloping a plan for a sensory ment strategies for future of five sections including: visual and nd olfactory sensory items, tactile stibular sensory items, and behavioral nd other team members at Elite ted with a portfolio of the sensory ow to manage different behaviors by ancement (CARE) training. takeholders expressed satisfaction and verbal feedback.

Little Chubby One Sensory Textured Squares Price: \$20.99 (Amazon Prime) This set of textured squares helps young rs build tactile awareness and ares encourage children to engage in ands-on, tactile play, and help them to evelop social and emotional interactions Price: \$8.99 (Amazon Prime) hese textured stretchy string toys include bumps, ridges, and a variety of textures. The are fun to wrap, stretch, squeeze, squish, and Price: \$14.83 (Amazon Prime) antino Press & Stay Sensory Blocks is set of 24 blocks are equipped with ed sides that make early block build neet a child's developmental milestones and romote early tactile stimuli exploration. ANHO Dynamic Movement Sensory Sox Price: \$24.96 (Amazon Prime) HE PERFECT PLACE FOR KIDS TO RELAX This dynamic movement sensory sock will is unique dynamic movement sensory son or improve self-calming, balance, increased by help to improve self-calming, balance, increase body awareness, and increase spatial Price: \$84.99 (Amazon Prime) Harkla Hug Inflatable Sensory Peapod The Harkla hug peapod inflates and provides deep touch pressure while the child sits inside. The peapod can also provide a rocking notion integrating vestibular input as well. -----Price: \$549.00 (autism-products.com) Steam Roller 'he Steamroller is designed to provide heavy work and deep pressure for kids to are seeking deep pressure stimuli. Children craw between the rollers just like being wrung hrough the clothes ringer. The exerted ressure can be adjusted up or down by nodifying the tension of the springs.





### PROJECT SUMMARY AND FUTURE RECOMMENDATIONS

This capstone project aimed to assist Elite Performance and Rehab -Pediatrics in exploration of sensory products and space design for a sensory clinic. It also provided training behavior management techniques using the Child Adult Relationship Enhancement principles. Future research could include assessment the efficacy of the usage of the CARE's principles.



Project Dissemination Day:

Here the project is review by Catelyn Skipper, MOTR/L, clinic director of Elite Performance and Rehab - Pediatrics.

### PLAN FOR PROJECT EVALUATION

### Observation

## Satisfaction Survey

