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Exploring Sensory Processing & Inclusivity within a Fitness Gym Environment

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Exploring Sensory Processing & Inclusivity within a Fitness Gym Environment Deveshma Maharaj, OT/S; Karen Park, OTD, OTR/L; Becki Cohill, OTD, OTR/L; Susan MacDermott, OTD, OTR/L

BACKGROUND

An individual's sensory processing involves the reception, modulation, integration, and organization of sensory stimuli, as well as behavioral responses to sensory input (Dunn, 2001). The STAR Institute for Sensory Processing Disorder (n.d.) affirms that at least 1 out of 20 children encounter symptoms of sensory processing disorder (SPD), while 1 in 6 face symptoms of sensory disruption (STAR Institute for SPD, n.d.). As adults, they may come across troubles with completing routines and tasks for work, social participation, and leisure (STAR Institute for SPD, n.d.). Since most individuals with these sensory processing challenges have struggled with symptoms continuously, they are likely to encounter secondary effects such as depression, underachievement, and social isolation (STAR Institute for SPD, n.d.). Adults with sensory processing deficits may experience difficulties with establishing their role in society, maintaining social support systems, and pursuing higher education (Clince et al., 2016). One area of sensory processing challenges that individuals may struggle with is sensory modulation, which is defined as the central and autonomic nervous system's capability to sustain harmony by regulating and organizing sensory input and facilitate graded response (Atchinson & Morkut, 2017).

PROBLEM

Sensory processing challenges can potentially hinder an individual's ability to participate in meaningful occupations, including gym participation. OTs are professionals who understand the dynamic interaction between individuals, environments, and the occupations in which they wish to partake and specialize in promoting greater accessibility (AOTA, 2020). However, OTs have yet to create programming or recommendations to enhance the experience and participation individuals in a fitness gym context. The current literature on sensory processing preferences within a gym environment is limited, creating leeway for exploration.

Participants

participants for the The was tailored to specifically fit was created to assess whether surveys were recruited on-site the environment within the there was a need for a and via email through the Crunch Fitness, San Marcos Marcos USAHS San location. Such checklists institution This institution. helped provide insight on offered students previously which tangible modifications Crunch memberships to could be made to enhance Fitness in San Marcos. CA. gym participation within the The criteria for recruiting given variables in this specific participants included an active gym membership. environment.

Gym-going Participant S

- 54 total participants
 - Gender: 19 male & 3
 - Age range: 18 64
 - Attendance: Daily less

Survey Question

Pre-existing knowledge of sensory processing (1-5)Understanding own sensory processing preferences (1-5) Inclusion satisfaction within facility (1-5) Social inclusion satisfaction within facility (1-5)

NEEDS ASSESSMENT

Sensory-based Observational Checklist

Surveys

An observational checklist The survey for gym-goers program to aid in managing strong sensory preferences. The survey for the staff was intended to gather background information on how wellequipped they were in understanding and assisting with clients sensory processing needs.

Deliverabl

Staff Training Handouts

Sensory-friendl Fitness Class

Sensory Planning Guide

Sensory-friendly Space

DIS

- Helped facility
- - of inclusion
- ۲ maximizing

DELIVERABLES

RESULTS			
urvey:	Staff Participant Surve8 total participants	y:	
35 female	• All male		
1x/month or	Survey Question	Average Response	
Average	Pre-existing knowledge of sensory processing (1-5)	f 3.59	
Response 3.59	Understanding own sensor processing preferences (1-	•	
3.67	Inclusion satisfaction with facility (1-5)	nin 3.8	
5.07	Social inclusion satisfaction within facility (1-10)	on 8.75	
3.8	SCAN QR CODE FOR REFERENCES **Special thank you to Dr.		
3.7			
	Martinez & Bryan	CODE FOR	

MacDermott!**

Doctor of Occupational Therapy Program

PROGRAM DEVELOPMENT

e	Description
	Provide incoming/current staff members with basic understanding on sensory processing & inclusion
У	Provide facility/clients with curriculum to aid self-regulation through deep pressure, vestibular, & proprioceptive input
	Provide clients with information to prepare for new sensory environment
у	Visual of how a space within facility could be modified to reduce sensory overstimulation
50	CUSSION

uncover current needs within

• Program is based on common themes found in needs assessment results regarding sensory preferences & inclusion

• Optimize gym participation & feelings

OTs focus on supporting clients in abilities to engage in meaningful activities & promote overall health/wellness (AOTA, 2020)

Further research to evaluate the efficacy of components & client satisfaction rates