Practical Approaches to Sensory Processing

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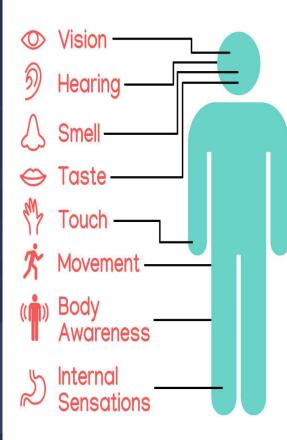




Objectives

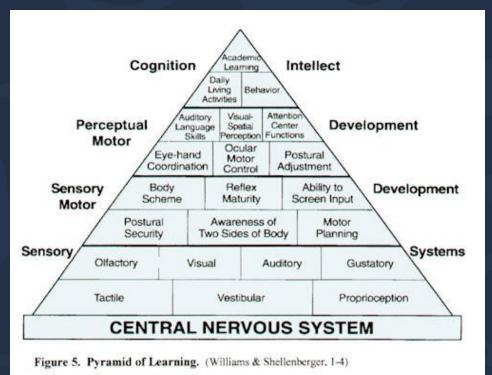
- 1. Sort out all of the sensory terms
- 2. Understand how sensory processing skills impact daily function
- 3. Understand how sensory processing difficulties can impact function
- 4. Review a practical approach to addressing sensory processing difficulties



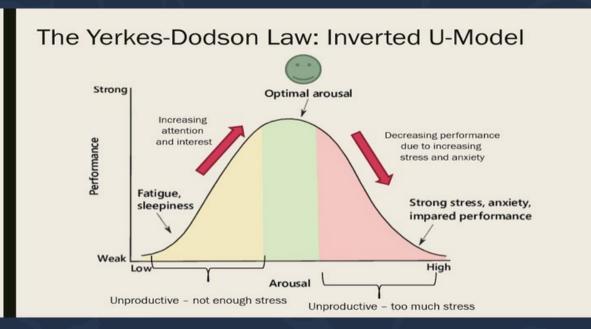


- Perceive and interpret our surroundings
- Detect, locate, and identify sounds in the environment
- Detect and recognize smells using chemical receptors in the nose
- Detect difference between sweet, salty, sour, bitter, and savory
- Perceive pressure, temperature, traction, and pain
- Balance, motion, and spatial orientation
- Intrinsic ability to locate itself and extremities in space.
- Recognize internal cues

What is Sensory Integration?



Modulation and Regulation



90% of children with an ASD have some difficulties with sensory processing

Sensory Processing Difficulty

Low Registration

Appear uninterested
Have low endurance
Miss information in their environment Sensory Seeking -High neurological threshold -Active -Impulsive & disorganized

Sensory Avoiding

- Exposure limitations to stimuli -Avoid meeting sensory threshold -Association with emotional reactivity

Sensory Sensitivity -Overwhelming Sensations -Low neurological threshold -Fight, flight, or freeze

Impact of Sensory Processing Difficulties

- Decreased initiation of social contact
- Picky eater & poor nutrition
- Poor focus
- Increased activity level
- Difficulty with daily tasks
- Poor transitions
- Passive personality
- Perceived as intense or make others uncomfortable
- Difficulty engaging in family outings
- Difficulty participating in "typical" leisure activities
- Self-Injurious behaviors
- Emotionally reactive
- Inconsistent pain responses
- Bowel and bladder dysfunction

ABC'S of Sensory Processing Difficulty

Antecedents

Florescent lights A baby was crying Crowded Still in winter coat, then over heated Navigate around the chairs

Consequences

Sad they missed out Possibly feeling guilty New transition Positive/Negative Reinforced

Behaviors

Crying/Tantrum Increased Stimming behavior SIB

Now What?

Sensory Integration Theory : Engineering and adjusting the sensory qualities in the child's environment to promote self- direction and play while facilitating adaptive responses in motor, affective, social, language, and cognitive areas

Modify / Adapt	Accommodate	Rehabilitate

What Can You Do?

Antecedents

- Modify environment
- Accommodate
- Challenge

Consequences

- Maintain participation
- Learning coping
- Feel Better
- Learning new skill
- Made a positive connection with an event

Behaviors

- Decrease stimuli
- Provide Deep Pressure
- Distract with special interest when possible

Create your toolbox

1) What functional difficulty do you want to address?

 "My child cries every morning putting their clothes on for school"

2) What is the sensory difficulty impacting function?

Learned through experiences that some clothes can feel itchy, restricting, uncomfortable

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3) What strategies can we use to support the sensory difficulty?

- Buy different clothing
- Heavy work before, during, after
- Practice with the sensation
- Provide positive reinforcement
- 4) Trial and error

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Try a variety of strategies and decide what works best for you and your child

Accommodate/Modify

Home/Community:

- Become involved in physical activities in the community
- Provide opportunities for vestibular input (Swing, Spin, Being in different positions
- Encourage tactile play
- Create spaces for decreased stimuli– Burrowing spaces
- Work movement and calming sensory input into daily tasks
- Use timers, stop watch, or play lists as auditory and visual cues
- Prepare for transitions
- "Sensory Diets"

School:

- Recess
- Mobile seating devices
- Visual and kinesthetic learning
- Chew and fidget toys
- Work in various positions
- Heavy work activities
- Callisthenic breaks
- Prepare students for transitions
- Noise cancelling opportunities
- Create opportunities to reduce sensory load

Thank you!



References:

- Como DH, SteinDuker LI, Polido JC, Cermak SA. Oral Health and Autism Spectrum Disorders: A Unique Collaboration between Dentistry and Occupational Therapy. Int J Environ Res Public Health. 2020 Dec 27;18(1):135doi: 10.3390/ijerph18010135. PMID: 33375475; PMCID: PMC7795681
- Costa-López B, FerrerCascalesR, RuizRobledillo N, Albaladejo-Blázquez N, Baryła-Matejczuk M. Relationship between Sensory Processing and Quality of Life: A Systematic Review. J Clin Med. 2021 Aug 31;10(17):3961. doi: 10.3390/jcm10173961. PMID: 34501408; PMCID: PMC8432132
- <u>https://connectionspediatric.com/2019/05/09/sensory-pyramid/</u>
- <u>https://www.ghcot.com/2019/08/25/606/selecting-the-best-classroom-sensory-tools-by-michelle-beckwith-otr-l</u>
- <u>https://www.twentyonesenses.org/</u>
- Schaaf, Roseann & Nightlinger, Kathleen. (2007). Occupational Therapy Using a Sensory Integrative Approach: A Case Study of Effectiveness. The American journal of occupational therapy : official publication of the American Occupational Therapy Association. 61. 239-46. 10.5014/ajot.61.2.239