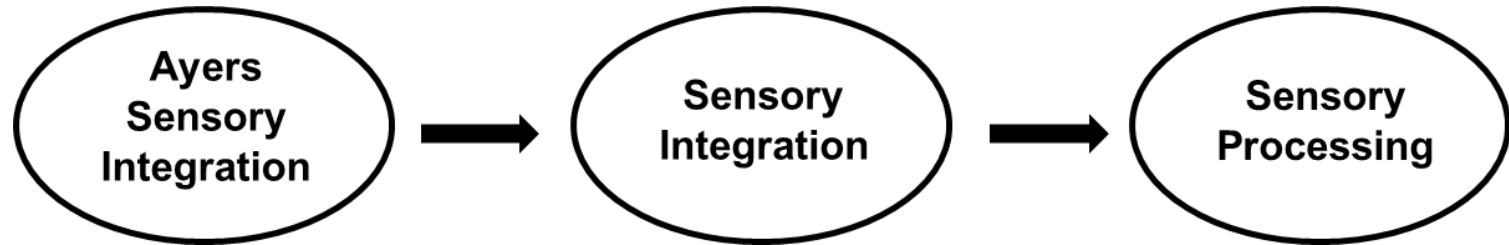


Sensory Integration

SIS Meeting 3/24

Let's define the key players!



- **Ayres Sensory Integration:**
 - Sensory Integration framework created specifically by Jean Ayers
- **Sensory Integration:**
 - How we experience, interpret and react to (or ignore) information coming from our senses
- **Sensory Regulation/Processing:**
 - How you appropriately respond to incoming sensory information

Senses



Touch



Interoception



Proprioception



Vestibular



Taste/Oral



Smell

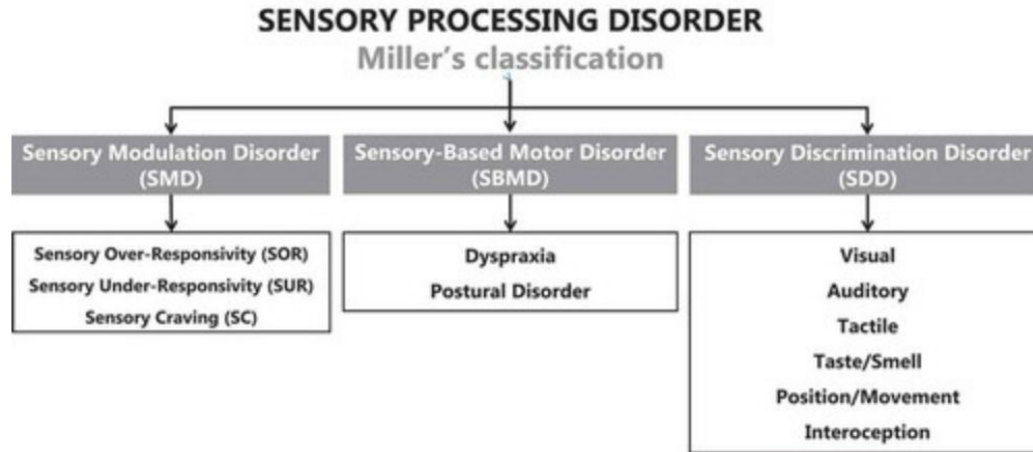


Hearing



Sight

Figure 1. **Classification of Sensory Processing Disorder and subtypes proposed by Dr. L.J. Miller (Miller, Anzalone et al., 2007)**



Sensory Modulation Disorders

Sensory Over-Responsivity/hyperresponsiveness (over exaggerated responses); escalate with very little input

Sensory Under-Responsivity/hyporesponsiveness- Takes an unusually intense amount of input to get the same response (under sensitive)

Sensory Seeking/Craving - A child obtains sensory information via showing interest or pleasure with certain sensations and seek them out



Sensory - Based Motor Disorders

Definition: poor posture and movement due to difficulty interpreting sensory information

Types:

1. **Postural Disorder:** Deficits in vestibular and proprioceptive input impact stabilization of movement and at rest
2. **Dyspraxia:** difficulty with initiating, coordinating and executing motor action



Sensory Discrimination Disorder

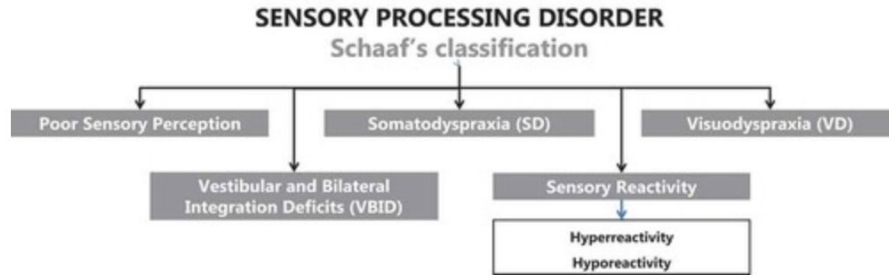
Definition: difficulty differentiating sensory input and quality provided

- Impacts all senses



AOTA Resource - Clinician's guide for Implementing Ayers Sensory Integration

Figure 2. **Classification of Sensory Processing Disorder and subtypes proposed by Dr. R.C. Schaaf (Schaaf & Mailloux, 2015)**



Research Articles

Miller, L. J., Anzalone, M. E., Lane, S. J., Cermak, S. A., & Osten, E. T. (2007). Concept evolution in sensory integration: A proposed nosology for diagnosis. *The American Journal of Occupational Therapy*, 61(2), 135.

Galiana-Simal, A., Vela-Romero, M., Romero-Vela, V. M., Oliver-Tercero, N., García-Olmo, V., Benito-Castellanos, P. J., ... & Beato-Fernandez, L. (2020). Sensory processing disorder: Key points of a frequent alteration in neurodevelopmental disorders. *Cogent Medicine*, 7(1), 1736829.

Case-Smith, J., & O'Brien, J. C. (2015). *Occupational therapy for children and adolescents*. Elsevier Mosby.

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