

Sensory Processing and Autism

Presented by Melinda Cooper, Occupational Therapist

Wednesday, October 19, 2022 10:30 a.m. to 11:30 p.m. Eastern Time

Sponsored by NCS Pearson, Inc.

Course Description

Many individuals with autism experience differences in the way they process sensory information relative to their neurotypical peers. This webinar provides an overview of Dunn's sensory processing framework, which can be used to better understand the interaction between a person's sensory needs and the sensory aspects of tasks and environments, to increase the likelihood of successful participation in occupational roles. The intermediate-level webinar reviews recent related research discusses two standardized sensory questionnaires and explains how assessment results can be used to guide intervention planning and strategy formation.

Learner Outcomes

Based on the content of the workshop, participants will be able to:

- 1. List three reasons why sensory differences may impact participation for individuals with autism
- 2. Identify three strategies which can be employed to support the sensory needs of individuals with autism
- 3. Explain how an atypical sensory processing pattern can be used as a strength
- 4. Describe two standardized assessment tools available for the identification of sensory preferences of people with autism

Time-Ordered Agenda

10:30 a.m. – 10:55 a.m.	Introduction to sensory processing and Dunn's sensory processing framework
10:55 a.m. – 11:00 a.m.	Overview of the Sensory Profile 2 and Adolescent/Adult Sensory Profile
11:00 a.m. – 11:15 a.m.	Implications of sensory processing differences for participation at school, and interventions to assist
11:12 a.m. – 11:25 a.m.	Review of recent research on sensory processing and autism
11:25 a.m. – 11:30 a.m.	Q & A



About the Presenters

Melinda Cooper is an occupational therapist with over 25 years of experience. Her clinical specialties are children with sensory, motor, and cognitive difficulties affecting learning. Since 2007 Melinda has worked for Pearson Clinical Assessment developing and running assessment-related training sessions for clinicians and university students. She has also presented over 50 webinars on a variety of topics of interest to occupational therapists, as well as presenting conference papers and workshops at state and national-level conferences in Australia, New Zealand, the UK, and Singapore.

Melinda is a registered occupational therapist with the Allied Health Professions Regulatory Agency (AHPRA) i Australia, and a member of OT Australia and AOTA.

Disclosure

Financial:

Melinda Cooper is employed by Pearson Clinical Assessment, as a Senior Product Manager: Occupational Therapy.

Non-financial disclosure:

There are no relevant non-financial relationships to disclose.

The Pearson Assessment Division, the sponsor of this webinar, develops and distributes assessments and intervention tools for speech-language pathologists, occupational therapists, and psychologists. This course will address appropriate the use of



Who is eligible to earn ASHA CEUs?

Effective July 1, 2011, individuals must meet at least one of the following conditions in order to be eligible to earn ASHA CEUs:

- ASHA Member (includes Life member and International affiliates)
- ASHA Certificate of Clinical Competence (CCC) Holder
- Licensed by a state or provincial regulatory agency to practice speech-language pathology (SLP) or audiology
- Credentialed by a state regulatory agency to practice SLP or audiology
- Credentialed by a national regulatory agency to practice SLP or audiology
- Engaged in a Clinical Fellowship which is supervised by someone with their ASHA CCC
- Currently enrolled in a masters or doctoral program in SLP or audiology



What does the ASHA CE Registry do to determine eligibility?

If we receive participant information for an attendee who is not in our database as an "eligible" Registry user, we will send an e-mail requesting the individual provide documentation of eligibility prior to awarding ASHA CEUs. An individual must have at least one eligibility criterion at the time they complete a course to be eligible to earn ASHA CEUs.

Attendance Requirements

Pearson maintains responsibility for this program and its content. Full attendance is required to receive Continuing Education certificate – partial credit is not awarded. No credit will be given to participants who are more than 10 minutes late at the beginning of the webinar or leave early.



Evidence

The references listed are peer-reviewed journal articles published by reputable sources. They are all less than two years old and provide information directly relevant to the PD topic being addressed

Marco, E. J., Hinkley, L. B., Hill, S. S., & Nagarajan, S. S. (2011). Sensory processing in autism: a review of neurophysiologic findings. *Pediatric research*, *69*(5 Pt 2), 48R–54R. https://doi.org/10.1203/PDR.0b013e3182130c54

Schoen, S. A., Lane, S. J., Mailloux, Z., May-Benson, T., Parham, L. D., Smith Roley, S., & Schaaf, R. C. (2019). A systematic review of ayres sensory integration intervention for children with autism. *Autism research: official journal of the International Society for Autism Research*, *12*(1), 6–19. https://doi.org/10.1002/aur.2046

Posar, A., & Visconti, P. (2018). Sensory abnormalities in children with autism spectrum disorder. *Jornal de pediatria*, *94*(4), 342–350. https://doi.org/10.1016/j.jped.2017.08.008

Cermak, S. A., Curtin, C., & Bandini, L. G. (2010). Food selectivity and sensory sensitivity in children with autism spectrum disorders. *Journal of the American Dietetic Association*, *110*(2), 238–246. https://doi.org/10.1016/j.jada.2009.10.032

Randell, E., McNamara, R., Delport, S., Busse, M., Hastings, R. P., Gillespie, D., Williams-Thomas, R., Brookes-Howell, L., Romeo, R., Boadu, J., Ahuja, A. S., McKigney, A. M., Knapp, M., Smith, K., Thornton, J., & Warren, G. (2019). Sensory integration therapy versus usual care for sensory processing difficulties in autism spectrum disorder in children: study protocol for a pragmatic randomised controlled trial. *Trials*, *20*(1), 113. https://doi.org/10.1186/s13063-019-3205-y



Thye, M. D., Bednarz, H. M., Herringshaw, A. J., Sartin, E. B., & Kana, R. K. (2018). The impact of atypical sensory processing on social impairments in autism spectrum disorder. *Developmental cognitive neuroscience*, *29*, 151–167. https://doi.org/10.1016/j.dcn.2017.04.010

Little, L. M., Dean, E., Tomchek, S., & Dunn, W. (2018). Sensory Processing Patterns in Autism, Attention Deficit Hyperactivity Disorder, and Typical Development. *Physical & occupational therapy in pediatrics*, *38*(3), 243–254. https://doi.org/10.1080/01942638.2017.1390809

Tomchek, S. D., Little, L. M., Myers, J., & Dunn, W. (2018). Sensory Subtypes in Preschool Aged Children with Autism Spectrum Disorder. *Journal of autism and developmental disorders*, *48*(6), 2139–2147. https://doi.org/10.1007/s10803-018-3468-2

Neufeld, J., Taylor, M. J., Lundin Remnélius, K., Isaksson, J., Lichtenstein, P., & Bölte, S. (2021). A co-twin-control study of altered sensory processing in autism. *Autism: the international journal of research and practice*, *25*(5), 1422–1432. https://doi.org/10.1177/1362361321991255

Scheerer, N. E., Curcin, K., Stojanoski, B., Anagnostou, E., Nicolson, R., Kelley, E., Georgiades, S., Liu, X., & Stevenson, R. A. (2021). Exploring sensory phenotypes in autism spectrum disorder. *Molecular autism*, *12*(1), 67. https://doi.org/10.1186/s13229-021-00471-5

Feldman, J. I., Cassidy, M., Liu, Y., Kirby, A. V., Wallace, M. T., & Woynaroski, T. G. (2020). Relations between Sensory Responsiveness and Features of Autism in Children. *Brain sciences*, *10*(11), 775. https://doi.org/10.3390/brainsci10110775

Jamal, W., Cardinaux, A., Haskins, A. J., Kjelgaard, M., & Sinha, P. (2021). Reduced Sensory Habituation in Autism and Its Correlation with Behavioral Measures. *Journal of autism and developmental disorders*, *51*(9), 3153–3164. https://doi.org/10.1007/s10803-020-04780-1

Osório, J., Rodríguez-Herreros, B., Richetin, S., Junod, V., Romascano, D., Pittet, V., Chabane, N., Jequier Gygax, M., & Maillard, A. M. (2021). Sex differences in sensory processing in children with autism spectrum disorder. *Autism research : official journal of the International Society for Autism Research*, *14*(11), 2412–2423. https://doi.org/10.1002/aur.2580

Fernandez-Prieto, M., Moreira, C., Cruz, S., Campos, V., Martínez-Regueiro, R., Taboada, M., Carracedo, A., & Sampaio, A. (2021). Executive Functioning: A Mediator Between Sensory Processing and Behaviour in Autism Spectrum Disorder. *Journal of autism and developmental disorders*, *51*(6), 2091–2103. https://doi.org/10.1007/s10803-020-04648-4

Gentil-Gutiérrez, A., Cuesta-Gómez, J. L., Rodríguez-Fernández, P., & González-Bernal, J. J. (2021). Implication of the Sensory Environment in Children with Autism Spectrum Disorder: Perspectives from School. *International journal of environmental research and public health*, *18*(14), 7670. https://doi.org/10.3390/ijerph18147670

McCarty, M. J., & Brumback, A. C. (2021). Rethinking Stereotypies in Autism. *Seminars in pediatric neurology*, 38, 100897. https://doi.org/10.1016/j.spen.2021.100897



Mallory, C., & Keehn, B. (2021). Implications of Sensory Processing and Attentional Differences Associated With Autism in Academic Settings: An Integrative Review. *Frontiers in psychiatry*, *12*, 695825. https://doi.org/10.3389/fpsyt.2021.695825

Pastor-Cerezuela, G., Fernández-Andrés, M. I., Sanz-Cervera, P., & Marín-Suelves, D. (2020). The impact of sensory processing on executive and cognitive functions in children with autism spectrum disorder in the school context. *Research in developmental disabilities*, *96*, 103540. https://doi.org/10.1016/j.ridd.2019.103540

Clark, G. F., Watling, R., Parham, L. D., & Schaaf, R. (2019). Occupational Therapy Interventions for Children and Youth With Challenges in Sensory Integration and Sensory Processing: A School-Based Practice Case Example. *The American journal of occupational therapy : official publication of the American Occupational Therapy Association*, 73(3), 7303390010p1–7303390010p8. https://doi.org/10.5014/ajot.2019.733001

NCS Pearson, Inc. is recognized by the New York State Education Department's State Board for Psychology as an approval provider of continuing education for licensed psychologists #PSY-0136.

Earn 1.0 CE Credit



"Pearson is approved by the American Psychological Association to sponsor continuing education for psychologists. Pearson maintains responsibility for this program and its content."

Earn <u>1.0</u> CPD Credit



NASP Approved Provider # 1010

"Pearson is approved by the National Association of School Psychologist to offer continuing education for school psychologists. Pearson maintains responsibility for the program."

Accommodation Requests Pearson will make accommodations in accordance with the Americans with Disabilities Act (ADA). If you require specific accommodations because of a disability, please email ClinicalTraining@pearson.com at least five (5) calendar days before the live webinar date so that appropriate arrangements may be made.

Registration Link: https://pearson.zoom.us/webinar/register/WN_vKvVXERDTVa97e26c9FanA



Complaint resolution

If a registrant feels that a workshop was unsatisfactory for any reason, then please contact the Workshop Coordinator at ClinicalTraining@pearson.com.

CE Contact Information:

NCS Pearson, Inc. 19500 Bulverde Rd, Suite 201, San Antonio, Texas 78259 ClinicalTraining@pearson.com

About Pearson

Pearson is the foremost provider of assessments for psychologists and other mental health professionals. Our reliable, well-validated tools assess child and adult personality, behavior, neuropsychology, ability/intelligence, speech and language, vocations, and biopsychosocial issues, leading to better insights and successful outcomes.