

Biography presentation of presenter



ident and General Manager, fdm



Sarah Glovasky







For more than 20 years, we have been committed to providing innovative quality sensory tools.

We were the first to create and introduce to education professionals comforting weighted plush, the manimo series.

Our mission is fostering the maximum development of all children.



Brain development



Sensory processing and our 8 senses explained



Visual input Sight







Gustatory inputTaste



Tactile input Touch







Auditory input Sound/Hearing



Olfactory input Smell







Vestibular input Balance



Proprioceptive input Movement







Interoceptive input Internal



What is Sensory Integration Sensory processing How our senses interact together

- Sensory integration is the process by which people register, modulate, and discriminate sensations received through the sensory systems to produce purposeful, adaptive behaviors in response to the environment (Ayres, 1976/2005)
- Effective integration of these sensations enables development of the skills needed to successfully participate in the variety of occupational roles, such as care of self and others, engagement with people and objects, and participation in social context.
- As children grow, they typically develop the refined ability to appropriately register, modulate, and discriminate sensory information to support the development of effective emotion regulation, social skills, play skills, and fine motor and gross motor skills.
- Problems effectively integrating sensation can limit a child's ability to attend to tasks, perform coordinated motor actions, plan and sequence novel tasks, develop social relationships, manage classroom demands, perform self-care tasks, and participate in family activities.

Smith Roley, S., Mailloux, A., Miller-Kuhaneck, H., & Glennon, T. (2005). Understanding Ayres Sensory Integration. OT Practice, 12(17), CE-1-CE-8.

To understand what proprioception is, close your eyes and hold out your hands. Move your arms and hands around. Even with your eyes closed, can you tell how far or close your hands are from your body? That's your proprioceptive sense at work!

• • • •





Where does proprioception come from?

What are some examples of proprioception?







What is proprioception?

Proprioception is the **body awareness** sense. It helps with:

Knowing where our body parts are









Coordination between body parts and senses







What happens in case of misinterpretation? Selective attention test - Simons & Chabris 1999



What Is Sensory Modulation?

- Over-Responsivity / hypersensitive
- Under-Responsivity / under responsive
- Sensory Craving / craving

Over-Responsivity

- Delayed motor skill development
- Clothing issues
- Self-care issues
- Frequent melt downs
- Overwhelmed

Under-Responsivity

- Delayed motor skill development
- Food cravings
- Daydreaming or unfocused
- High tolerance to pain
- Clumsiness
- Poor fine motor skill development

Symptoms of Sensory Craving

- Loves movement, loves roughhousing
- Food cravings
- Constant motion
- Difficulty staying still in seat
- Plays rough
- Poor attention span

Sensory overload



Indicators that a student is seeking proprioceptive input

- · Bites/chews on objects
- · Hyperextends joints
- · Bangs body parts
- Holds objects with excessive pressure
- · Enjoys rough-and-tumble play
- · Throws self heavily on the floor
- Prefers to run, jump or stamp heavily
 Likes to sit with knees tucked
- Engages in weight-bearing activities
 Walks on tip toes

How to use your proprioceptive sense to self-regulate

- Proprioceptive input can be very calming for those who are easily overwhelmed by sensory stimulation.
- Proprioceptive input can be alerting for those who need increased sensory stimulation to facilitate attention and learning.



Ideas for Proprioceptive Activities

- · Weight-bearing activities
- · Resistance activities
- Heavy lifting
- · Cardiovascular activities
- Oral activities
- Deep pressure

Proprioceptive Activities

- · WHAT is the purpose of the activity?
- WHEN will the activity take place?
- · HOW OFTEN will the activities take place? · WHERE will the activities take place?
- WHAT activities will be used?

WHAT activities will be used?

- · Chair based exercises
- · Classroom based exercises
- Other exercises
- · Functional activities
- Oral activities
- · Weighted resources

Chair based exercises

- Hand pushes pulls Head compressions Chair push ups Theraband on chair Squeezing a stress ball





Classroom based exercises

- Wall pushes
 Push ups
 Lifting weights e.g. tins, books, dumbells
 Jogging on the spot
 Star jumps
 Bouncing on therapy/exercise ball

Other exercises

- Climbing wall bars/ropes in PE Hall Throwing/catching weighted ball Crawling obstacle course Gymnastics- handstands, cartwheels, using gym equipment Jumping e.g., hop scotch Bouncing on space hopper Lying on stomach over exercise ball and weightbearing through arms





Functional activities

- Wiping benches and tables
 Brushing/mopping floors
 Holding doors open
 Carrying ples of books
 Carrying a backpack with a heavy item in it
 Stacking chairs
 Moving furniture
 Putting out and tidying away PE equipment

Oral activities

- Blowing bubbles
 Blow football i.e. blowing cotton wool along
 a table to score goals
 Drinking through a straw of bottle with a
 sports cap
 Chewing food or appropriate object e.g.
 chewy tube
 Playing a wind instrument
 Blowing up a balloon
 Drinking a thick liquid through a straw e.g.
 milkshake, yoghurt, custard





Passive activities

- 'Hot dog': student is rolled in a blanket and another student or adult pretends to spread on tomato ketchup, mustard etc.
 'Sandwich game': student lies on a mat, and another mat is placed on top of him/her
 Steamroller: student lies on stomach and an exercise ball is rolled over his/her back
 Applying deep pressure to shoulders/arms
 Tight hugs

Weighted resources

- Weighted jacket/vest/belt: should be used after consulting an occupational therapist
 Weighted blanket
 Weighted lap pad
 Backpack with heavy book (or equivalent)
 Weighted animals







Points to remember

- Input to the muscles and joints is regulating

- Proprioceptive input can be provided through resistance activities
 Proprioceptive input can be provided through deep pressure touch
 Provide proprioceptive activities at regular intervals throughout the day

Physiological responses to deep pressure therapy

- The parasympathetic system
- The sympathetic system
- Increases in endorphins and neurotransmitters

Observable effects of deep pressure therapy

- Improved proprioceptive processing for increased balance
 Improved body/spatial awareness
- Improved coordination
- Improved sleep Improved digestion
- Increased focus/attention
- Decreased anxiety/stress

How does manimo work?

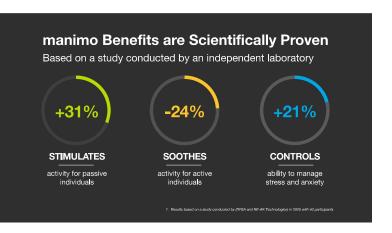


Biometrics











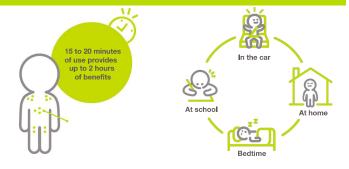
manimo - Who is it for?







manimo - How and when to use it?

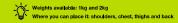




manimo – stimulates the senses

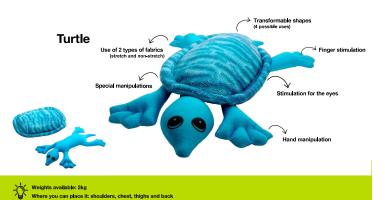
- · Visual input (sight)
- Tactile input (touch)
- Auditory input (sound/hearing)
- Olfactory input (smell)
- · Vestibular input (balance)
- · Proprioceptive input (movement)

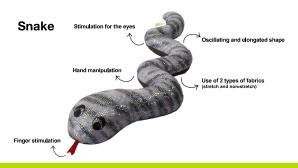


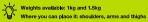


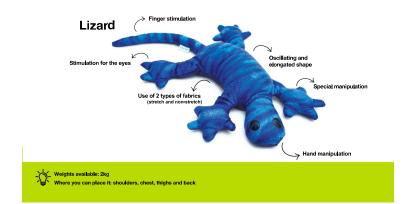


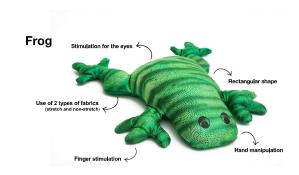




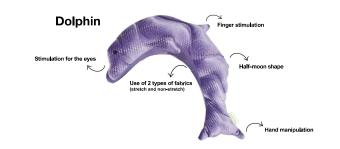


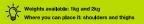












REASONS TO ADOPT A MANIMO



SCIENTIFICALLY PROVEN Soothes excess energy Improves focus and concentration Helps to cope with stress and anxiety





ATTRACTIVE TO ALL KIDS Gender neutral Perfect tool for any K-12 classroom



MORE THAN 250k KIDS EXPERIENCED MANIMO
manimo celebrates its 20th anniversary this year.
More than 250 000 units have been sold







References

- Building Bridges through Sensory Integration, Occupational Therapy for Children with Autism and Other Pervasive Developmental Disorders. Ellen Yack, B.Sc., M.Ed., OTR, Faula Aquilla, B.Sc., OTR, Shrifey Sutton, B.Sc., OTR
- A Buffet of Sensory Interventions : Solutions for Middle School and High School
- Students with autism Spectrum Disorders, Susan Culp, MS, OTR/L
- Coffre à outils pour Enseignants, Parents et Élèves, Diana Henry OTR
- The Sensory Team Handbook, Nancy Mucklow The Out-of-Sync Child, Carol Stock- Kranowitz

- Interpretational brain com/fundamentals/sensory-modulation-disorder-education-and-intervention/
 https://pathways.org/what-is-the-proprioception-sense/
- https://sensory-processing.middletownautism.com/sensory-strategies/strategies-according-to-sense/proprioceptive/



