SENSORY FOCUSED ACTIVITY

Family/Caregiver Seminar 18th September 2024

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Diane Ackerman says:

The senses are our gateway to our world - through which information from the outside world is processed and relayed to our brains.

"There is no way in which to understand the world without first detecting it through the radar net of our senses."







The Conscious Mind Processes 50 bits per second The brain needs to Compress and Select Sensory Input !

Major co-ordinating senses

- Vision
- Sound
- Taste
- Smell
- Touch
- Vestibular
- Proprioception
- Interoception



- What happens to the senses as we age?
- What happens to the senses when a person gets dementia?
- What happens to the person living with dementia when exposed to sensory stimuli?

Vision







VISION



This is the major co-ordinating sense

- The brain is stimulated by light/dark contrast, vivid colours, large size and movement
- Vision involves acuity, tracking and field and perception e.g. FG - tablecloth/shirt.
- Monocular vision affects depth perception as well as processing of speed and movement e.g. person suddenly seen before movement processed
- We are all born with a "face" reflex





Touch





TOUCH

Our biggest sensory organ is touch

- Without touch we do not grow and flourish emotionally
- We have haptic touch in our hands i.e. can discriminate temperature or pressure for example

We're all born with a 'touch seeking'

hormone









SOUND





SOUND



Many components e.g. pitch, tone, intensity, harmony, rhythm

Attention to certain sounds e.g. loud or high pitch sounds get our attention but soft sounds also can make us listen more carefully

Localising sounds - where it comes from
Perceiving and understanding sounds - confuse vacuum with a plane; know whether 1 or many people, or when to cross the road;

Proprioceptive system

Achieved by the change of body positions i.e. the muscles, tendons, joints and ligaments all move position and receive this information which travels to the brain and is perceived as movement.

E.g: see-saw; escalator; rocking chair



Vestibular system

Gross movements/ Centre of gravity/ Balance/ Changing head positions Even if eyes are closed we know if we are upright/flat Maintains appropriate levels of arousal Links to vision e.g. horizon/ballerina Sound-vibrations





Smell





SMELL

- Links to the area of the brain to do with emotions (amygdala/limbic part)
- Longest lived sense i.e. primitive
- Smell receptors (nasal cilia and on roof of mouth) but largest brain area
- Smell part of brain closest to the memory part (hippocampus)
- Smell and taste go together





Taste





TASTE



- Mainly composed of smell
- Tongue is important-covered in sweet/sour/bitter/umami receptors
- Taste receptors cover the tongue and sides of cheeks
- Saliva is important for swallowing and speech
- Textures affect taste Tactile defensiveness



Interoception

Sense of internal awareness





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Creating The 'Just Right' sensory environment

Tools to address the different sensory thresholds

- SNACKS
- DIETS
- ERGONOMICS

These are suitable for both the PlwD as well as the carer