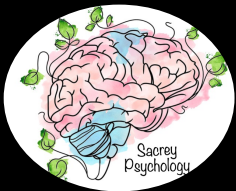


# sensory Exploration



Lori Sacrey, MC

# SENSORY EXPLORATION

## SENSORY SYSTEMS

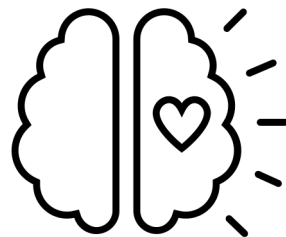
All information our brain takes in is sensory in nature. If brains attended to 100% of the information coming in, we would be constantly overwhelmed. Because of this, humans come with filtering systems to decrease the amount of information coming in.

Neurodivergent brains may filter the same amount of sensory information as neurotypical/allistic brains.

Alternatively, the filtering system of neurodivergent brains *can be different* from those of allistic brains in two ways:

1. The filter lets in comparatively more sensory information  
= **hypersensitive**
2. The filter lets in comparatively less sensory information  
= **hyposensitive**

What do these filtering systems look like? Let's use the auditory (sounds) system to illustrate:

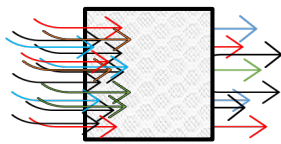


# SENSORY EXPLORATION

## SENSORY SYSTEMS

### People with hypersensitive filters may

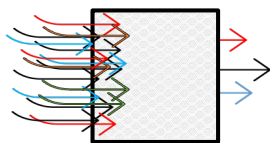
- Find a small amount of information activates them (e.g., may hear noises others cannot)
- Go into fight or flight mode (e.g., overwhelmed or 'meltdown')
- Find ongoing information uncomfortable (e.g., repetitive noise is grating)
- Avoid out sensory information (e.g., stay away from areas with certain noises)



Too much

### People with hyposensitive filters may

- Be less aware of sensory information (e.g., may not hear noise)
- Need more sensory information (e.g., need louder or repetitive noises)
- Be slower or not respond to information (e.g., may need more prompts)
- Seek out sensory info (e.g., make noises)



Not enough

# SENSORY EXPLORATION

Each sensory system may have its own filter. So, one could be either hyper-sensitive, hypo-sensitive, or may filter similarly to the neuro-majority across each domain.



Below are a list of potential impacts of hyposensitivity and hypersensitivity on the olfactory system. Check off all that apply to you

## Hyposensitive:

- May not notice smells
- May prefer strong smells and tastes
- May like to smell everything
- May seek out strong smells
- May like the smell of cleaning products
- May seek out floral scents
- Other: \_\_\_\_\_

## Hypersensitive:

- May have a strong smell intolerance
- May not like the smell of smoke or pollution
- May avoid foods with certain smells
- May avoid chemical smells
- May prefer tasteless foods
- May gag or become upset at strong smells
- May have a restricted diet
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

**Example preferences include:**

Aromatherapy

Baking related scent

Incense

Scent free

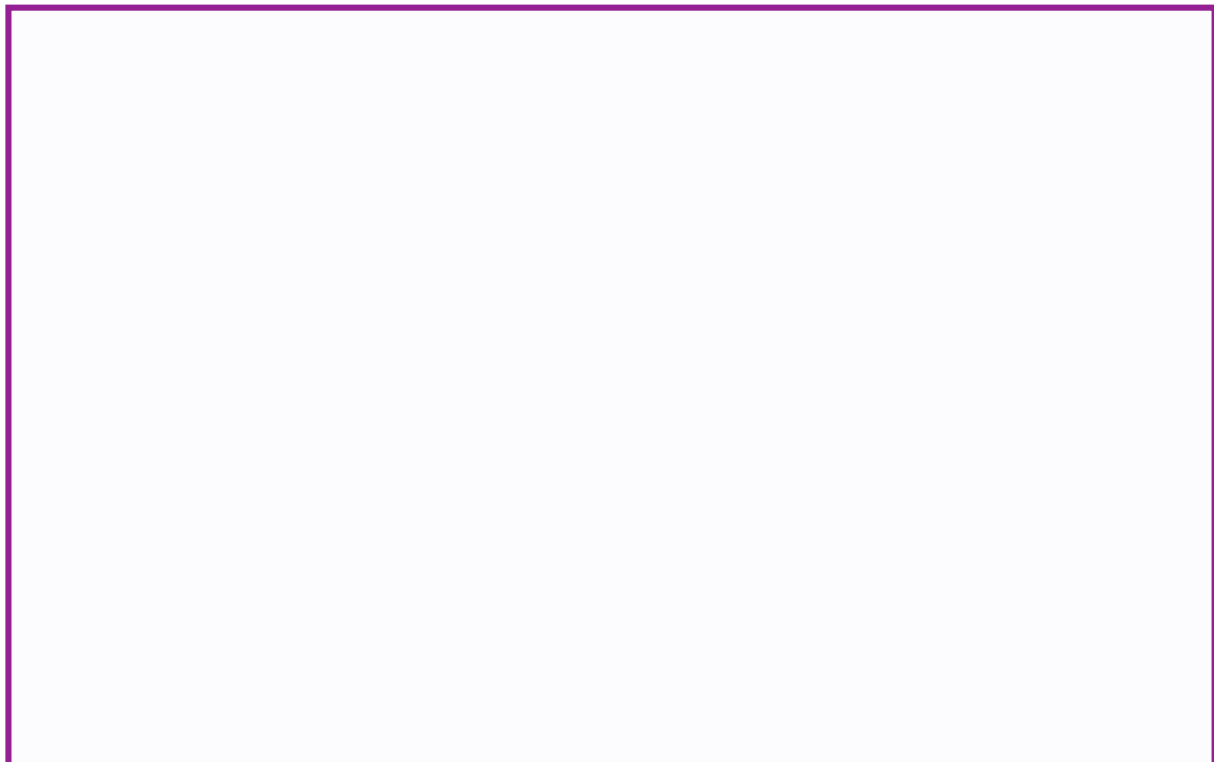
Fresh or clean scents

Low pollution areas

**Example Accommodations include:**

Places that have lots of smells  
(soap shop, flower shop)

Place with low odours

A large, empty rectangular box with a thick purple border, occupying the lower half of the page. It is intended for the user to write their answers to the question above.

# SENSORY EXPLORATION



## Taste system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the taste system. Check off all that apply to you

### Hyposensitive:

- May like to put things in their mouth
- May seek out strong flavours
- May like sour flavours
- May lick things
- May crave certain flavors
- Other: \_\_\_\_\_

### Hypersensitive:

- May not like certain textures to tastes
- Food temperatures affect you
- May prefer a predictable diet
- May not like unfamiliar or new foods
- May prefer foods that are the same each time (e.g., crackers over fruit)
- May find flavourful food overwhelming
- May have food allergies
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



## Taste system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Chewing gum or candy

Water

Chewing ice

Crunchy snacks

Strong flavoured foods

Safety foods

### Example Accommodations include:

Keeping gum in your pocket/purse    Having safety snacks with you

# SENSORY EXPLORATION



## Visual system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the visual system. Check off all that apply to you

### Hyposensitive:

- Can struggle to find people in crowded place (e.g., school yard)
- Can struggle to find something in busy backgrounds (e.g., messy room)
- Can struggle to keep track of where they are when reading (e.g., next line)
- May like watching things move across their visual field (e.g., flicking fingers in front of eyes)
- May like flashing lights or other repetitive visual stimuli (e.g., lava lamp)
- May have poor depth perception
- Other: \_\_\_\_\_

### Hypersensitive:

- Sensitive to bright light, fluorescent lights, sunlight, or certain colours
- Sensitive to flickering or flashing lights
- Prefer dimly light spaces
- May not like making eye contact
- Certain patterns may be overwhelming
- Overwhelmed by visual changes in environment (e.g., moving furniture around)
- May use peripheral vision to look at things (limits amount of visual info coming in)
- May blink a lot
- May need complete darkness while trying to sleep
- Other: \_\_\_\_\_



# SENSORY EXPLORATION



## Visual system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Bright lights

Patterns

Colourful decorations

Low lighting

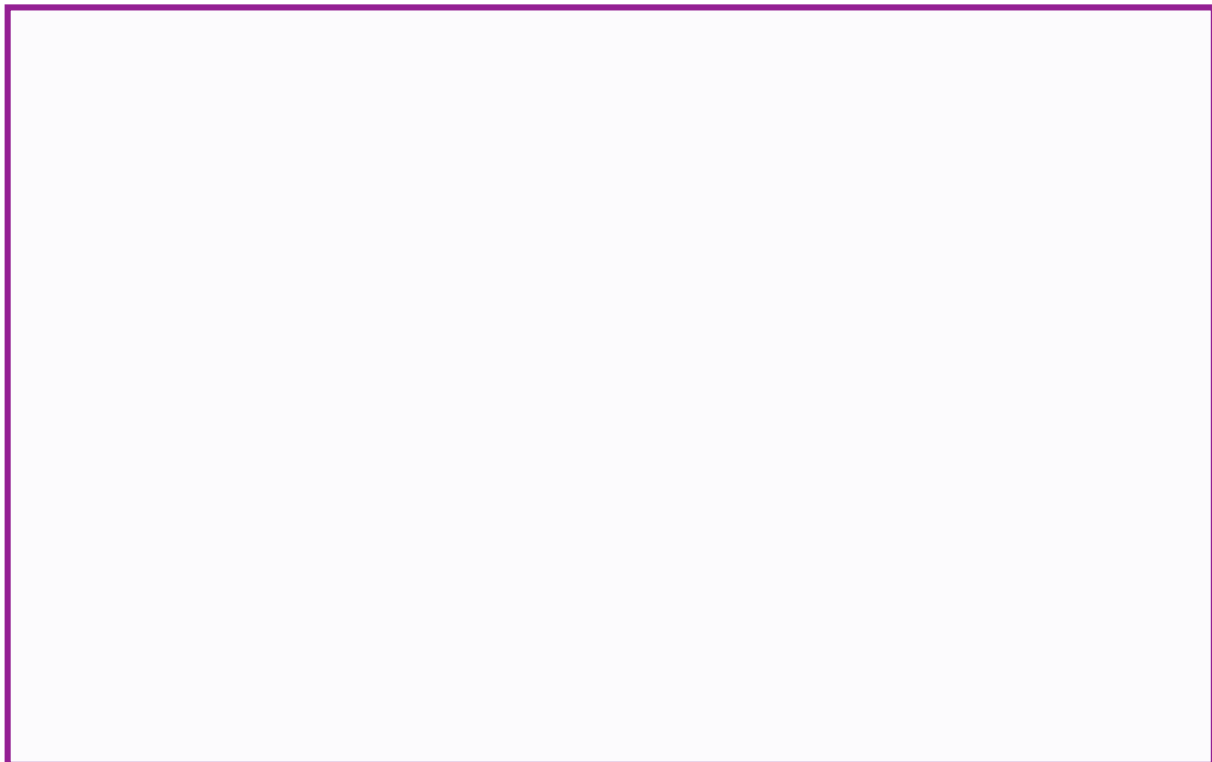
Visually organized and uncluttered

Neutral colours

### Example Accommodations include:

Decorate your place with colourful and stimulating décor

Use lamps instead of overhead lighting



# SENSORY EXPLORATION



## Auditory system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the auditory system. Check off all that apply to you

### Hyposensitive:

- May not respond to name or instructions
- May zone out (e.g., look like they are daydreaming)
- Can struggle to remember what was said (e.g., may say 'what' a lot)
- May not be able to tell the difference between similar sounds
- May make noises (be loud, bang objects together, hum, or sing)
- May tap or bang things to hear the sound
- May turn TV or music up very loudly
- May prefer to listen to the same song or TV show on repeat
- May make repetitive noises (clicking pen over and over)
- Other: \_\_\_\_\_

### Hypersensitive:

- May have difficulty ignoring sounds in the background (e.g., talking in another room)
- May hear sounds that others cannot hear (e.g., high or low frequencies)
- May make own sounds to block out sounds they do not like
- May struggle in rooms with a lot of people or sound and want to leave
- May startle when hear sudden or loud noises
- May dislike high-pitched sounds
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



## Auditory system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Background music

Background TV

Sound machine

Library-level quiet

Private spaces

Being outside

### Example Accommodations include:

Go to places that provide the  
ambiance (background noises)  
you prefer

Keep noise cancelling ear plugs in  
your purse/pocket

# SENSORY EXPLORATION



## Tactile system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the tactile system. Check off all that apply to you

### Hyposensitive:

- May be unaware of light touches (e.g., need firm pressure to 'feel' touch)
- May be more aggressive in the physical contact with others
- May drop items due to differences in holding (e.g., may hold too lightly)
- May use mouth to explore objects (e.g., holding things in mouth)
- May enjoy messy play (e.g., painting, clay)
- May seek out certain textures (e.g., rough or smooth)
- May like tight clothing
- Other: \_\_\_\_\_

### Hypersensitive:

- May not like being touched, especially if unexpected
- Hair brushing may be uncomfortable
- May not like certain fabrics , scratchy materials, or tags
- May not like getting dirty (e.g., sticky or muddy)
- May walk on toes or refuse to walk on certain surfaces
- May not like certain food textures
- May not like wet textures (including face washing)
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



## Tactile system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Deep pressure

Petting animals

Certain fabrics

Cutting off tags from clothes

Being sockless

Weighted blanket

### Example Accommodations include:

Having a wardrobe of clothes that feel comfortable on your body

Engage in hobbies that use your hands, like pottery

# SENSORY EXPLORATION



## Interoception system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the interoceptive system. Check off all that apply to you

### Hyposensitive:

- May have little reaction to pain
- May not notice changes in temperature
- May not feel hunger or thirst
- May find it difficult to understand what they are feeling
- Other: \_\_\_\_\_

### Hypersensitive:

- May dislike certain temperatures (too warm or too cold?)
- May notice small changes in physiological system (changes in heartbeat or breathing)
- May feel pain deeply
- May dislike humid environments
- May feel emotions deeply (e.g., "too sensitive")
- May not like stuffy or stagnant air
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



## Interoception system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Cool temperatures

Several kinds of drinks at the same time

Warm temperatures

Snacking throughout the day

Warm showers

### Example Accommodations include:

Dressing in layers to accommodate changes in temperature

Set times to remind yourself to eat, drink, and take bathroom breaks

# SENSORY EXPLORATION



## Vestibular system

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the vestibular system. Check off all that apply to you

### Hyposensitive:

- May seek out movement (e.g., spinning, bouncing, shake head, etc.)
- May be a thrill seeker (e.g., love amusement park rides)
- May like rapid changes in motion
- May like intense physical activity
- May not get dizzy
- May like hanging upside down
- May like to rock back and forth
- May like certain types of transport (elevator, cars, trains)
- Other: \_\_\_\_\_

### Hypersensitive:

- May avoid swinging, spinning, or sliding
- May have a fear of heights
- May get motion sickness
- May lose balance
- Other: \_\_\_\_\_



# SENSORY EXPLORATION



## Vestibular system

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

**Example preferences include:**

Spinning

Hanging upside down

Jumping

Sitting

Gentle rocking or swaying

Gentle stretching

**Example Accommodations include:**

Engage in activities with lots of movement (e.g., swinging)

Create yourself a comfy sitting nook

# SENSORY EXPLORATION



## Proprioceptive System

Below are a list of potential impacts of hyposensitivity and hypersensitivity on the proprioceptive system. Check off all that apply to you

### Hyposensitive:

- May appear clumsy (e.g., tripping over things or banging into objects)
- May move around a lot
- May like to be wrapped up in blankets or tucked tightly in bed
- May fidget quite a bit
- May have trouble balancing
- May prefer tight clothes
- May use alternative seating
- Other: \_\_\_\_\_

### Hypersensitive:

- May prefer to remain seated
- May find certain surfaces/seating uncomfortable
- May lean against things or people
- May have difficulty with fine motor skills (e.g., holding a pencil, picking up small items)
- May not like tight footwear
- May prefer baggy clothes
- May not like crowds
- Other: \_\_\_\_\_

# SENSORY EXPLORATION



## Proprioceptive System

Considering how you responded to the previous items, what are your sensory preferences and how can you accommodate your preferences?

### Example preferences include:

Being wrapped up/pressure

Movement seeking

Lifting weights

No pressure

Leaning against things

Using alternative seating

### Example Accommodations include:

Giving self time to fidget or stim

Wear loose or baggy clothes


# STIMMING

Two of the ways to help recover from autistic burnout and manage stress are to lean into your RRB's. RRBs are one of the two diagnostic categories of autism – "*restricted interests and repetitive behaviours*"<sup>1</sup>

I don't care for this terminology and choose to call them preferred interests and behaviours.

Once such preferred activity is stimming. Stimming is an important method to help with emotional and sensory regulation. Stimming can help manage stress that can contribute to, or worsen, burnout. It is also fun and enjoyable!

Stimming can look like a lot of different things:<sup>2-4</sup>



VISUAL  
VOCAL  
AUDITORY  
TACTILE  
ORAL  
OLFACTORY  
PHYSICAL

# STIMMING

## 1 Visual



It may include

- Moving fingers in front of the eyes
- Looking at moving objects, such as ceiling fans or lava lamps
- Repetitively blinking eyes or turning lights on and off
- Object placement, such as lining up objects in a certain order

WAYS I VISUALLY STIM

# STIMMING

## ② Vocal

It may include

- Humming or whistling
- Making animal sounds
- Singing a song lyric
- Repeating the same phrase over and over
- Shouting or speaking with a different intonation



WAYS I VOCALLY STIM

# STIMMING

## 3 Auditory

It may include

- Clicking pens
- Fidgets that click
- Tapping ears
- Covering and uncovering ears
- Listening to the same song over and over
- Wearing noise-cancelling headphones



WAYS I AUDITORY STIM

# STIMMING

## 4 Tactile

It may include

- Fidget cubes or spinners rings
- Slime, play doh, or silly putty
- Petting animals
- Soft objects (fluffy socks, stuffed animal)
- Rubbing hand against different textures



WAYS I TACTICALLY STIM



# STIMMING

## 5 Oral



It may include

- Bite or lick food
- Eating same food everyday
- Hard candy or peppermint for grounding
- Multiple drinks (flavours) at the same time
- Chewable jewelry or specialized objects for chewing

WAYS I ORALLY STIM

# STIMMING

## ⑥ Olfactory

It may include

- Smelling perfume or cologne
- Sniffing clean laundry
- Using essential oils/aromatherapy
- Diffusers or air fresheners



WAYS I OLFACTORY STIM

# STIMMING

## 7 Physical

It may include

- Swing or spins
- Amusement park rides
- Rocking or toe walking
- Hand or finger movements
- Weighted blankets or body socks



WAYS I PHYSICALLY STIM

# STIMMING

## 8 OTHER

Any other ways you stim that you feel did not fit into the other categories



OTHER WAYS I STIM

# PREFERRED ACTIVITIES

Engaging in topics in which one is very interested in or very knowledgeable can help manage stress and burnout. Preferred interests can provide pleasure, familiarity, and calming influence during times of stress and can help facilitate self-identity, emotional regulation, and self-efficacy.<sup>1-3</sup>

It is important to remember that during times of burnout, it may be more difficult to engage in interests if one lacks the energy to engage in them, which can exacerbate feelings of burnout<sup>1-3</sup>

Thus, depending on your preferred interests, engaging in preferred activities may be a strategy that you use during later stages of your recovery.

Common categories of preferred interests include:<sup>4</sup>



POP CULTURE  
OBJECTS  
ANIMALS  
CREATIVITY  
TECHNOLOGY  
EDUCATIONAL  
SOCIAL JUSTICE

# PREFERRED ACTIVITIES

## ① Pop Culture

It may include

- YouTube
- Preferred movies or tv shows
- Playing music, listening to Spotify
- Sporting events or sport statistics



POP CULTURE PREFERENCES

# PREFERRED ACTIVITIES

## ② Objects

It may include

- Favourite object
- Preferred toys, blanket, piece of clothing
- Collecting objects (Pokémon cards, rocks)
- Books
- Vehicles (types of cars, planes)



OBJECT PREFERENCES

# PREFERRED ACTIVITIES

## ③ Animals

It may include

- Wild animals (whales, sharks)
- Domesticated animals (cats, dogs, birds)
- Pets



PREFERRED ANIMALS



# PREFERRED ACTIVITIES

## 4 Creativity

It may include

- Drawing or painting
- Clay or kinetic sand
- Wood working
- Building Legos
- Dancing



creative interest

# PREFERRED ACTIVITIES

## ⑤ Technology

It may include

- Video games  
Smart phones
- Computers, apps, or coding
- How things work (machinery, vehicles)



TECH INTERESTS

# PREFERRED ACTIVITIES

## ⑥ Educational

It may include

- Puzzles
- Numbers and math facts
- Reading and writing
- Outer space knowledge
- Historical events



EDUCATIONAL INTERESTS

# PREFERRED ACTIVITIES

## ⑦ Social Justice

It may include interests in

- Racial equality
- Gender equality
- LGBTQIA+ equality
- Capitalism and patriarchy



SOCIAL JUSTICE INTERESTS

# PREFERRED ACTIVITIES

## ⑧ OTHER

Any other preferred interests that you feel did not fit into the previous categories



OTHER INTERESTS