

NEURODIVERSITY AFFIRMING PRACTICE IN ALLIED HEALTH



A/PROFESSOR SARAH VERDON
CHARLES STURT UNIVERSITY
SVERDON@CSU.EDU.AU

LUCIA FLINT (SLP)
NEUROBLOOM SPEECH PATHOLOGY
SVPSPEECHPATHOLOGY@GMAIL.COM

HUME ALLIED HEALTH CONFERENCE, 2025



Lu

**Autism, Anxiety, ARFID,
Endometriosis, PMDD, Cleft lip and
palate and Hearing impairment**



Sarah

**AuDHD, CFS/ME, ARFID,
Autoimmune Disorders**

WHAT IS NEURODIVERSITY?

- The range of differences in individual brain function and behavioural traits, regarded as part of normal variation in the human population
- Yet the neurodiversity framework distinguishes between two main types;
 - Neurotypical refers to an individual whose brain and cognitive development falls within the typical range.
 - Neurodivergent refers to an individual whose brain and cognitive development falls outside (or ‘diverges’ from) the typical range (Goldberg, 2023)
- Despite the neurodiversity movement striving to move away from a deficit approach, we still end up with binary categories of “normal” vs “non normal” brains with these 2 terms, albeit unintentionally
- Types of neurodiversity include – autism, ADHD, dyslexia, dyscalculia, dysgraphia, and Tourette's syndrome.

A must read! Goldberg, H. (2023). Unraveling neurodiversity: Insights from neuroscientific perspectives. *Encyclopedia*, 3(3), 972–980.

SO IS IT ACTUALLY A DISABILITY?

It depends who you ask,
and how they define disability...

- Level 1 and 2 autistics often have more capacity to share their experiences, which can lead to bias in what is known about the lived experience
- It depends on co-occurring conditions
- It depends on the accommodations available
- Beware the toxic positivity! Sometimes it's great, sometimes it's really hard, both can be true
- Social vs medical model of disability
(either way it still deserves funding!)



NEURODIVERSITY HAS BEEN MISUNDERSTOOD FOR A LONG TIME: WHERE DO THESE MYTHS COME FROM?

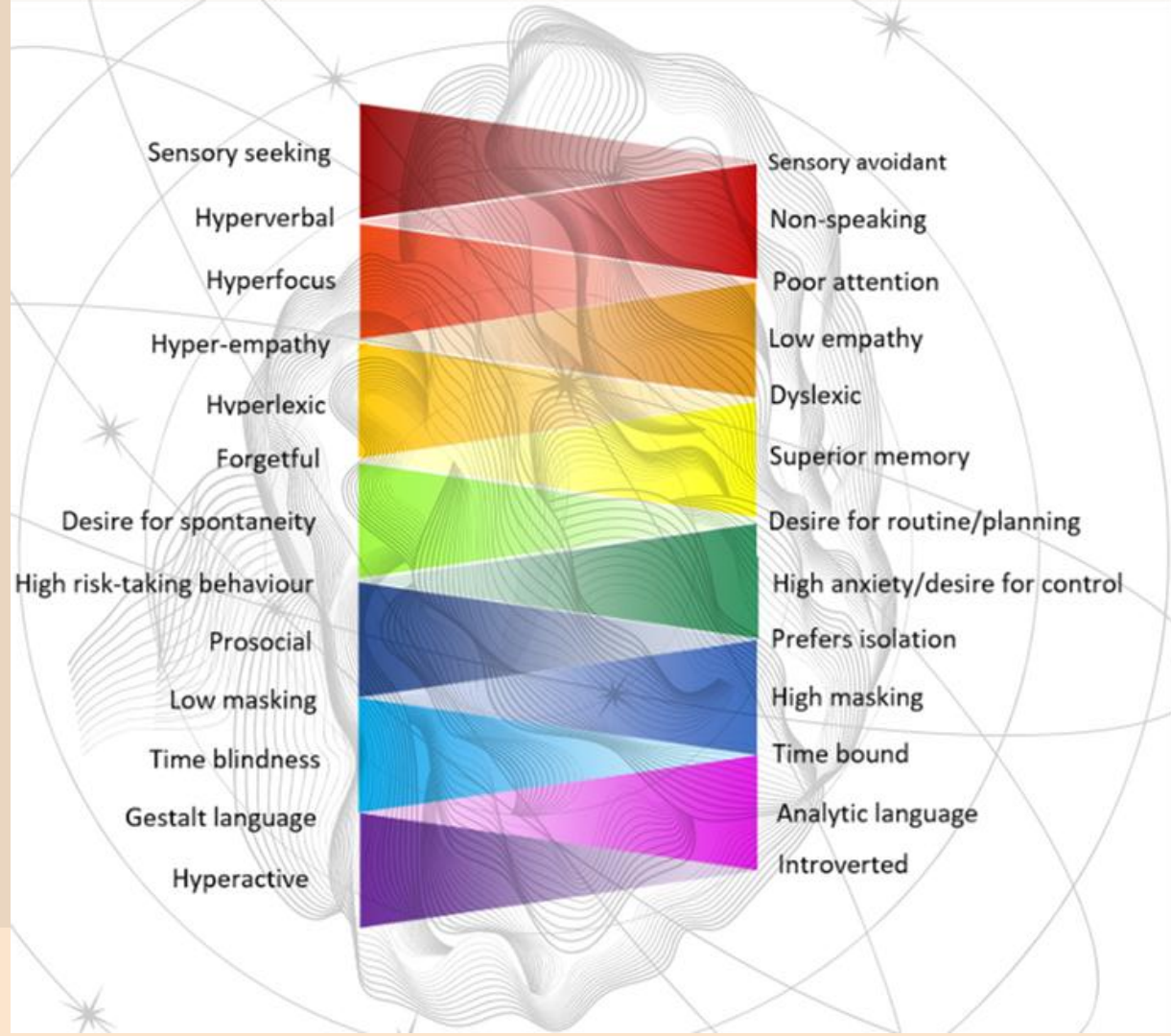
- Outdated stereotypes
- Misrepresentation/narrow representation in media
- Gender bias in research – male presentation is most commonly depicted, female traits of neurodiversity are less understood
- Research conducted by neurotypical researchers/without consultation with neurodiverse community has led to false assumptions and beliefs and unhelpful practices



Source: <https://reacho.in/discover/young-sheldon-trailer-the-big-bang-theory-spin-off>

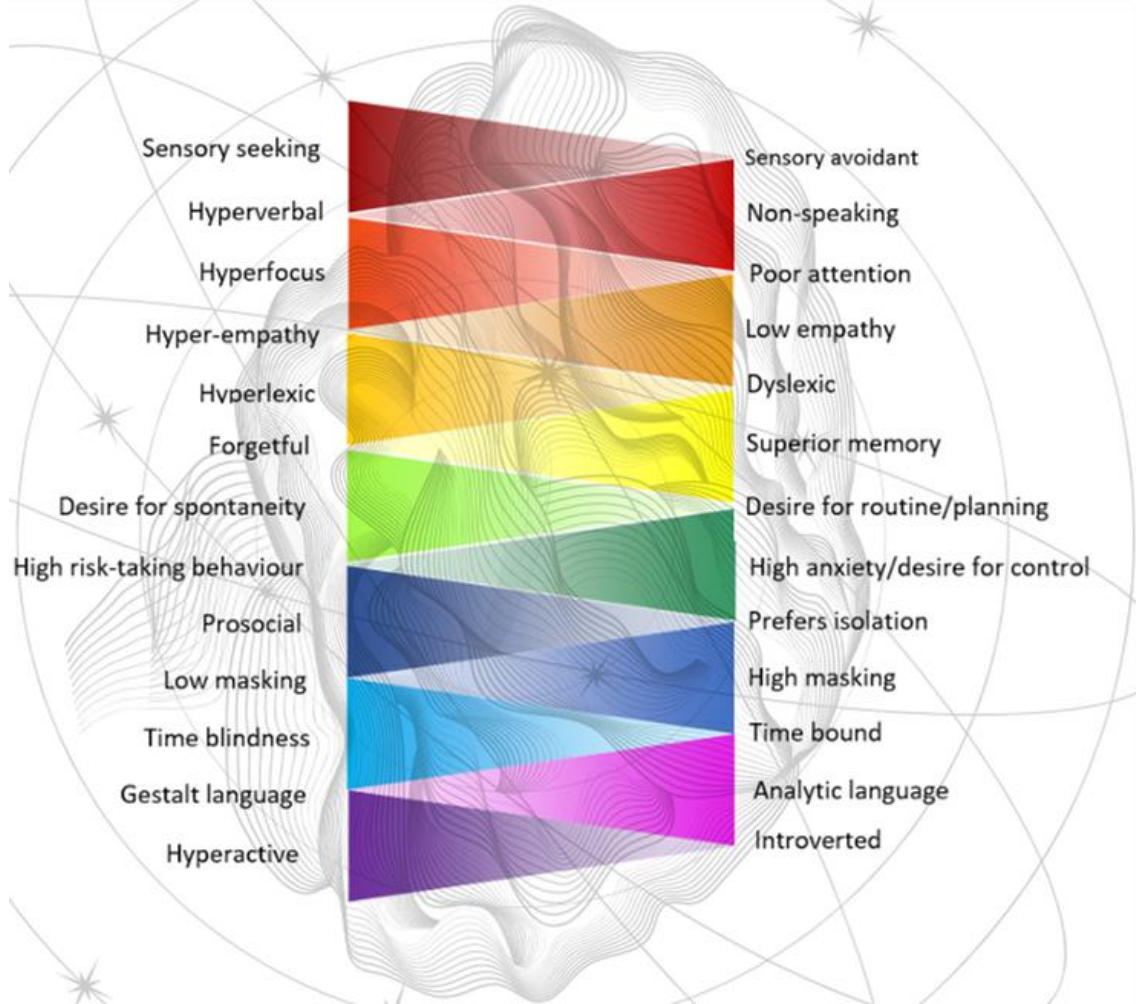
THE SPECTRUM OF NEURODIVERSITY

A MODEL FOR UNDERSTANDING HUMAN BRAIN DIVERSITY



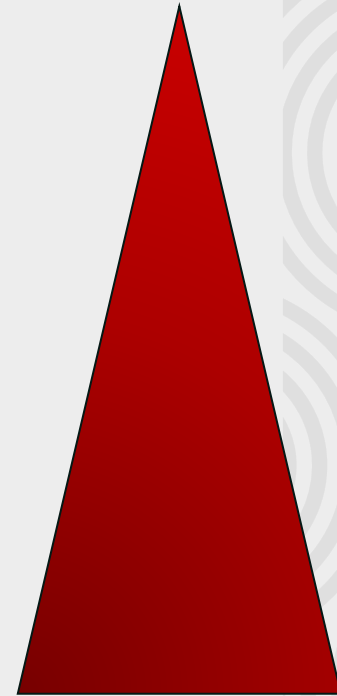
THE SPECTRUM OF NEURODIVERGENCE

- An umbrella term of a range of conditions or neurotypes including; Autism, Attention Deficit Hyperactivity Disorder, Tourette's syndrome and dyslexia, dyscalculia, dyspraxia.
- There are many different features of neurodiversity.
- The image explains some of these features.
- Each of these features exist on a spectrum.
- Given the infinite combination of these features within a human brain, no two neurodiverse people present in the exact same way.



SENSORY NEEDS

- Neurodivergent people experience sensory information differently they may perceive too much (leading to sensory avoidance) or too little (leading to sensory seeking)
- These sensory preferences and behaviours are designed to regulate the nervous system of a neurodivergent person
- Preferences can vary between senses
- Touch - e.g., seeking deep pressure to feel calm (weighted blankets, tight hugs), excessive touching of items/people
- Taste - e.g., picky eating, avoidance of certain textures/colours of food
- Sight - e.g., preference for low lighting, wearing sunglasses, holding lights up to eyes
- Hearing - e.g., hands over ears, wearing noise cancelling headphones
- Smell - e.g., acute sense of smell, dislike of strong smells such as perfume, sniffing objects

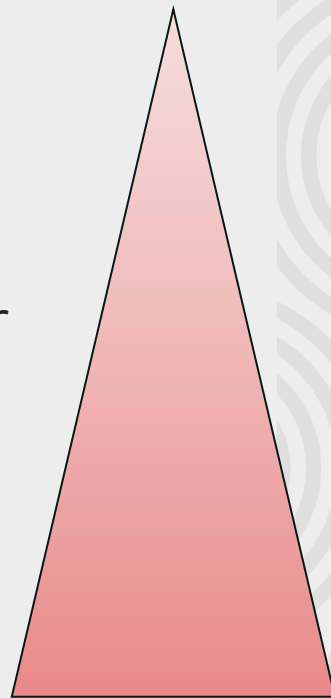


Sensory
Avoidant

Sensory
Seeking

USE OF VERBAL SPEECH

- Neurodivergent people vary in their use of verbal speech
- This can be context specific (i.e., situational/selective mutism)
- Non-speaking does reflect intelligence or language ability
- Non-speaking children may communicate through other forms such as AAC – sign, pictures, electronic devices
- Hyperverbal children are often missed in early diagnosis as they do not have “speech concerns”

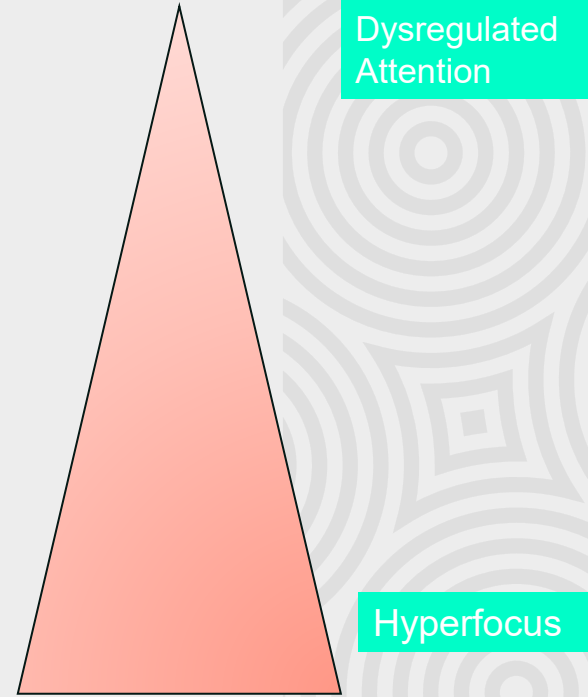


Non-speaking

Hyperverbal

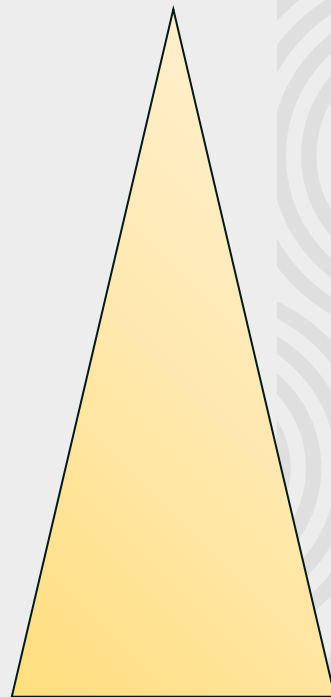
ATTENTION AND FOCUS

- Neurodivergent people vary in their ability to maintain and regulate their attention
- This is usually situationally dependent – i.e., the level of interest drives level of attention
- Dopamine seeking – medication can help to regulate attention
- Very common among children with ADHD, AuDHD
- When hyper-focused, attention to detail can be far superior to that of a neurotypical so the concept of “attention deficit” is a misnomer
- Hyperfocus is closely related to special interests



EMPATHY AND PERSPECTIVE TAKING

- Outdated stereotypes often state that Autistic people do not experience empathy.
- While some struggle with understanding other people's emotions and points of view, others are hyper aware and hypervigilant and can take on those emotions themselves.
- Some have excellent theory of mind which leads them to respond differently to neurotypical people in social interactions.
- Two main ways to categorise empathy:
 - Emotional
 - Cognitive



Low
empathy

Hyper-
empathy

MEMORY

Working memory

- A type of short-term memory that lasts only seconds
- Used to hold information while performing other tasks
- A common issue in children with language disorders
- A common challenge for people with ADHD

Long-term memory

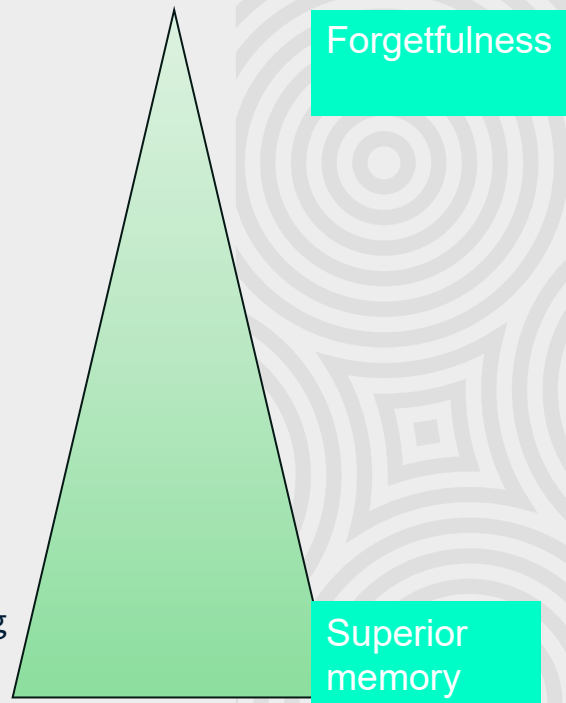
- A mostly permanent storage space for information
- Can be divided into implicit (unconscious) and explicit (conscious) memory

Implicit memory

- Unconscious memories that help with everyday tasks
- Examples include procedural memory, priming, and conditioning
 - For example, riding a bike or driving a car

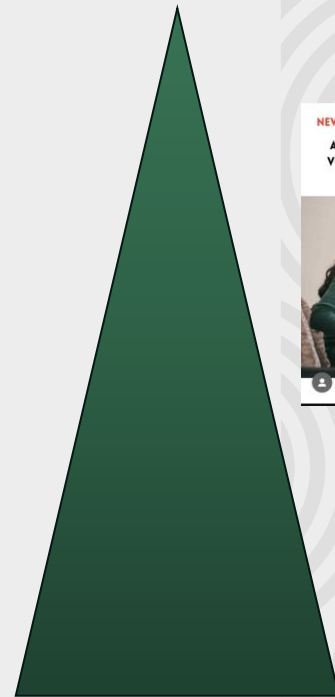
Explicit memory

- Conscious memories that can be recalled
- Examples include episodic memory
- Autistics often have excellent recall of facts, events and details especially hyperfixations



ROUTINE, RIGIDITY AND FLEXIBILITY

- Autistics – often prefer predictability and rigid adherence to routine, can thrive in a well structured, clearly routine environment
- ADHDer – Need novelty and spontaneity to maintain interest and focus
- AuDHD – oscillate between the 2 extremes to stay regulated



Spontaneity



Routine

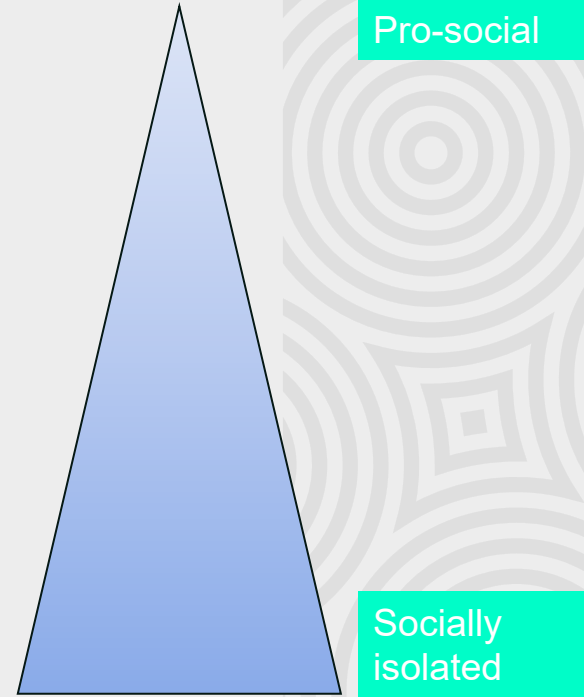
RISK TAKING AND AVOIDANCE

- Autism – often high anxiety, particularly around new tasks, fear of failure and fear of making a mistake (can lead to perfectionism)
- ADHD – Can be very impulsive, not think through risks and consequences before acting, always seeking adventure and novelty which could at times be risky



DESIRE FOR SOCIAL INTERACTION

- A huge myth is that neurodivergent people do not want or seek social interactions or relationships
- Often this are highly desired but difficult to initiate and maintain
- Often seek or prefer solitude because of overstimulation, social anxiety or difficulties with emotional regulation, rather than a lack of interest in other people



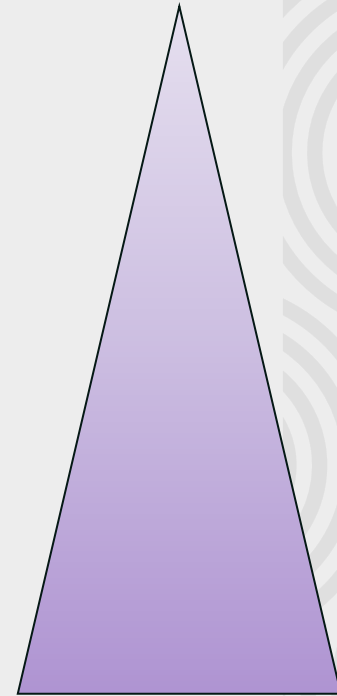
MASKING

- Masking = hiding features of neurodivergent in order to fit in with society
- High masking neurodivergents are often later diagnosed and can be highly affected by mental health issues
- Often experience meltdowns or burnout at the end of the day from having to mask all day
- A very common feature in autistic girls, who are often excellent at observations and pattern recognition so can mimic expected social behaviours but find them extremely taxing



RELATIONSHIP WITH TIME

- Autistics – often very time bound, expect things to run on time
- ADHDers – often have difficulties perceiving how much time a task will take and will run late because of their difficulties conceptualising time
- AuDHDers – try really hard to be on time and get stressed about being late but are late anyway due to time blindness



Time blind

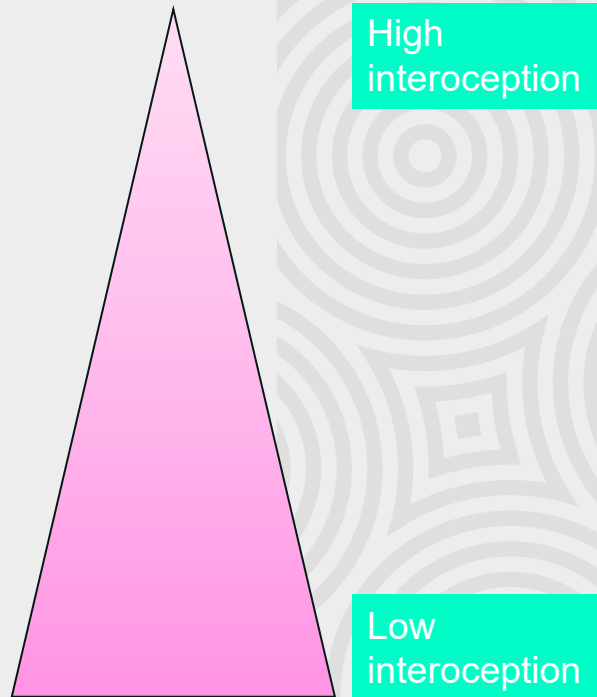
Time bound

INTEROCEPTION

Level of awareness around:

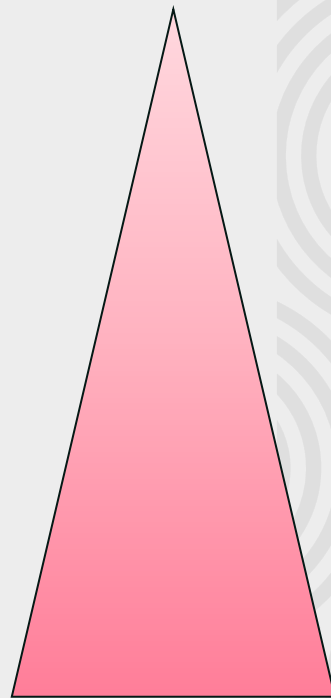
- Temperature
- Pain
- Emotions
- Hunger
- Toileting

Interoception is linked to emotion regulation and mental and physical health. People with high interoception are better able to feel their bodily states and regulate their emotions.



LANGUAGE DEVELOPMENT

- Top down (echolalic) vs bottom up language acquisition (more neurotypical)
- Gestalt vs. Analytic language processing
- Literal interpretations
- Understanding abstract concepts
- Understanding idioms, sarcasm, jokes etc.

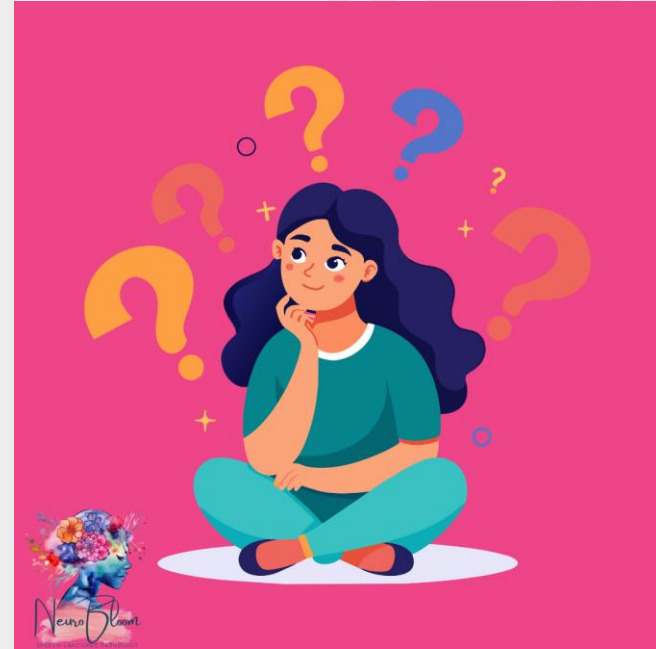


Concrete

Abstract

REFLECTION: 5 MINUTES

- What did you discover about yourself and how your brain works?
- Did any of this resonate with your clients / people in your life?
- How can you apply this model into your future practice?



HOW CAN BE WE NEUROAFFIRMING ALLIED HEALTH PRACTITIONERS?

- Taking a **strengths-based approach** that view types of neurodiversity such as Autism as a form of **diversity rather than a disability.**
- Shifting away from the idea that brains that are not “typical” are “disordered.”
- Giving space for people to be themselves and find the strategies that work for their unique brain.



TANGIBLE STEPS



- Be aware and create awareness
- Engage with the neurodivergent community
 - e.g. Facebook groups, Instagram pages, podcasts etc.
- Explore your own internalised bias;
 - Do you have a preconceived idea of what neurodivergence looks like?
 - Are your services really accessible or is that just what it is says on your website?
- Provide pathways for accessing support and diagnosis
- Make adjustments to your practice / clinic space
 - Various seating options, lighting options, reducing background noise
- Advocacy posters (see advocacy episode)

MINDSET SHIFTS

- Remember that we cannot do therapy with a dysregulated client
- Allowing freedom and choice where possible
- Creating a sense of equality e.g. in speech we both say the target words
- Using declarative language without expecting a response;
 - “I wonder...”, “You can”, “We can”, “I notice....”
- Laughter and play is therapeutic in nature for clients
 - Sometimes being light-hearted is the best way to break the stress response if you have a good relationship
- Incorporating novelty
- Allowing for sensory seeking behaviours
- Flipping the power dynamic

LANGUAGE MATTERS

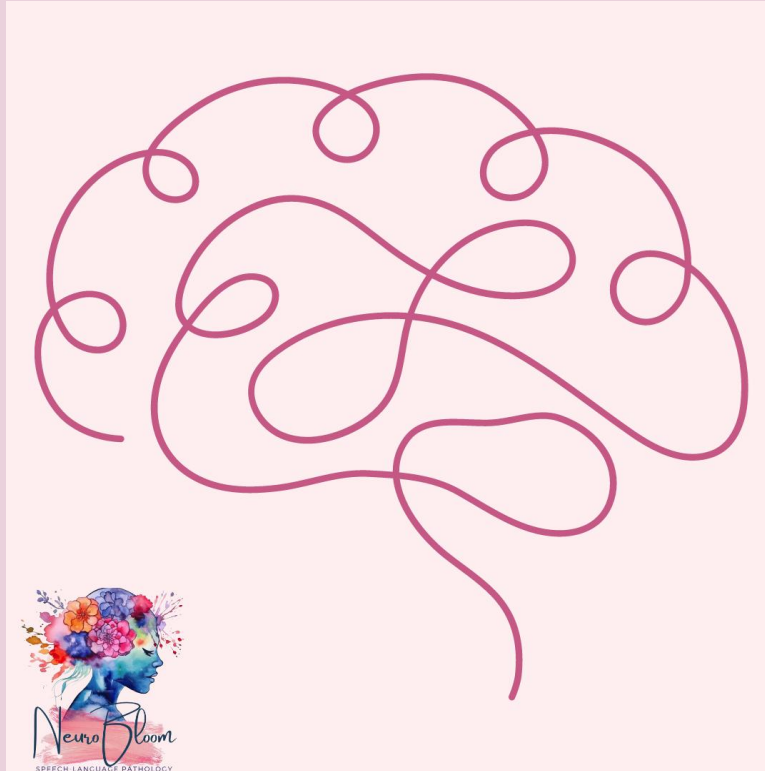
Neurodiversity: describes the variety of ways people think, learn, and behave

Neurodivergence: refers to people whose brains process information differently from neurotypicals – the threshold of what classifies “divergence” is difficult to define

Some affirming label alternatives:

- Autism Spectrum Disorder vs Autism/Autistic
- Attention Deficit Hyperactivity Disorder vs Attention Dysregulation, Hyperfocus Driven
- Pathological Demand Avoidance vs Pervasive Desire for Autonomy
- Sensory Processing Disorder vs Sensory preferences
- Auditory Processing Disorder vs Auditory Processing Differences

MENTAL HEALTH AND NEURODIVERGENCE



Keara Sullivan
@superkeara

I love feeling represented in literature (Reading the DSM-5 rn)

10:53 PM · 2/9/24 From Earth · **1.7M** Views

7.8K Reposts **330** Quotes

43K Likes **1.6K** Bookmarks



THE RELATIONSHIP BETWEEN NEURODIVERGENCE AND MENTAL HEALTH CONCERNS

- **Over 35% of children who are autistic experience suicidality**
- **Misdiagnosis or missed-diagnosed especially in girls / females**
- **40% of autism at least one other DSM-5 anxiety disorder**
- **Eating disorders 3 x more likely in ADHD**
- **70% of autistic children demonstrated 'atypical' eating behaviours**
- **17.5% of autistic children have PTSD**
- **90% of Autistic females have experienced sexual assault**
- **Autistic adults also have a higher prevalence of loneliness** which is associated with poorer health outcomes
- **Loneliness can occur when our desired relationships e.g. friendship or romantic isn't aligned with our reality can include; quality, quantity and specific experiences**
- **Societal pressures to be neurotypical; social exclusion, traumatic experiences, gaslighting, lack of accessible**

HOW CAN WE SUPPORT MENTAL HEALTH FOR NEURODIVERGENT PEOPLE?

- Raising awareness of the prevalence
- Screening clients + referring to help (Suicidal thoughts and urges questionnaires: STUQ)
- Training mental health clinicians to support neurodivergent people
- Starting consent education at a young age
- Strategies to facilitate engagement for autistic people; wording, timing, formatting, various ways to respond, choices, in person or online format, support person if needed, sensory tools and fidgets, lowering noise or lighting

FAMILY

WE DIDN'T WANT TO GIVE HER THE AUTISM LABEL,
SAY PARENTS OF WOMAN WITH FIVE MENTAL
HEALTH DIAGNOSES



CO-OCCURRING CONDITIONS



CONDITIONS THAT COMMONLY CO-OCCUR

- **80% of autistic people have sleep disorders or disturbances**
- **GI problems** occur in **46% to 84%** of Autism population
- **1.6 times** more likely to have **eczema or skin allergies**
- **1.8 times** more likely to have **asthma and food allergies**
- **2.1 times** more likely to have **frequent ear infections**
- **2.2 times** more likely to have **severe headaches**
- **3.5 times** more likely to have **diarrhoea or colitis**
- **7 times** more likely to report **gastrointestinal (GI) problems**
- Approximately **30%** of children with autism have **anxiety related to toileting**
- Approximately **25%** of children with autism have **immune deficiency and dysfunction** (i.e., dysautonomia, POTS MCAS etc.)

Avoidant Restrictive Food Intake Disorder (ARFID)



NOT JUST A FUSSY EATER!

- ARFID or avoidant restricted food intake disorder is characterised by persistent difficulties meeting nutritional needs and can occur across the lifespan.
- ARFID is not due to gastrointestinal complications or body image diagnoses such as anorexia or bulimia.
- ARFID can occur due to a variety of factors which can also co-occur such as; lack of interest in food, aversion to sensory properties of foods and aversive and traumatic experiences with food such as choking.
- ARFID commonly occurs with neurodivergent individuals.



HOW CAN WE SUPPORT PEOPLE WITH ARFID?

- We never force them to eat! This just makes the anxiety around meal times so much worse
- Any food is better than no food at all
- Don't make negative comments about food choices.
- Start safe and chain to more nutritional options
- This can take a long time!

For the latest
ARFID
intervention
literature:



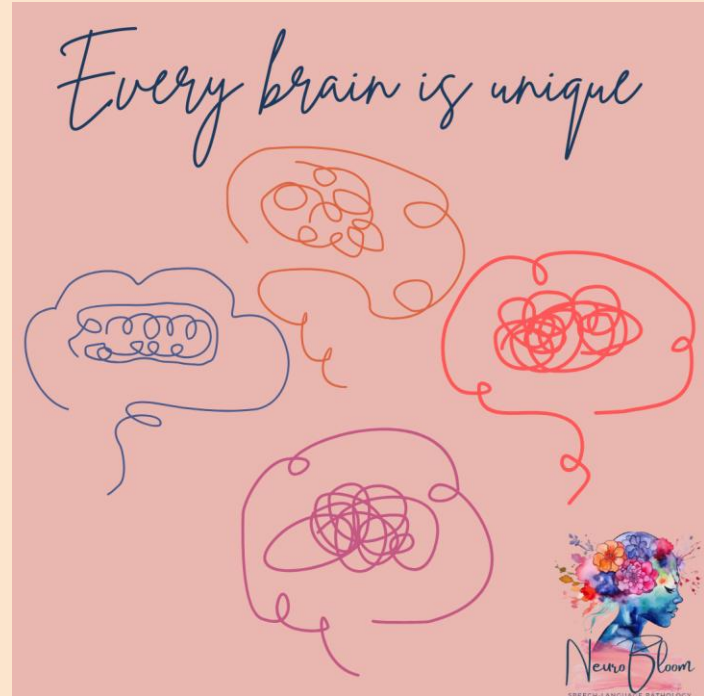
Listen to our
two podcast
episodes on
ARFID:



CASE STUDIES

“Allowing a student with a hidden disability (ADHD, Anxiety, Dyslexia) to struggle academically or socially when all that is needed for success are appropriate accommodations and explicit instruction, is no different than failing to provide a ramp for a person in a wheelchair”.

@neurominds_



LETS MEET LAYLA

- 13 years old (Year 7)
- Autism and anxiety diagnoses
- Rejection sensitivity dysphoria
- Sensory averse
 - She doesn't like loud noises or bright lights
- She loves reading
 - Especially Harry Potter, Lord of the Rings and other fantasy
- She experiences social anxiety and sometimes has anxiety attacks
- Layla does NOT like public speaking
- She can often struggle with making friends and maintaining friendships long term
- Layla has ARFID and only eats a small variety of foods
 - Her preferred foods are; pasta, chicken nuggets, cheese toasties and potato wedges
- Layla attends fortnightly psychology appointments via telehealth



HOW CAN WE SUPPORT LAYLA IN A
NEUROAFFIRMING WAY?

LETS MEET RORY



- 9 years old (Year 3)
- Diagnosed with a moderate intellectual disability at age 3
- Rory's Dad is an amputee, he uses a wheelchair and has his own support worker
- Rory loves sports
 - (cricket, athletics and swimming)
- Handover from previous speech pathologist said he was "non-verbal". However, he attempts to communicate verbally
- He has a liberator device with LAMP software
 - (this is often not taken out of his school bag and not charged)
- Sensory avoidant
 - (afraid of loud noises, large crowds, bright lights and popping games)
- Struggles with hygiene
 - Including; handwashing, teeth brushing, showering and toileting
- Rory has trouble with buttons, zippers and holding cutlery
- Refuses to attend doctors or dentist appointments
 - (he hides under chairs or runs away

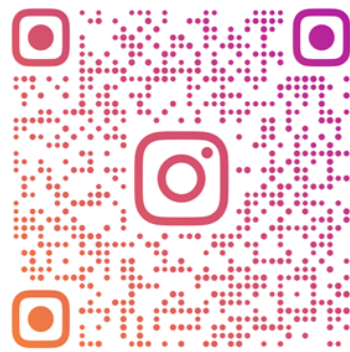
HOW CAN WE SUPPORT LAYLA IN A
NEUROAFFIRMING WAY?

Lots of episodes available on neurodiversity to continue your learning!

<https://open.spotify.com/show/5UMZglvsD96fTa3jaAEhKT>

Follow us on Instagram
[@talking.children.podcast](https://www.instagram.com/talking.children.podcast)

Check out our website
<https://svp-slp.com/>



TALKING.CHILDREN.PODCAST

PROFESSIONAL DEVELOPMENT

- NeuroBloom Speech Pathology offers professional development in both in person and online formats.
- Courses range from 2 hours to 2 days in length, depending on your needs.
- Topics include;
 - Neurodiversity affirming practice
 - Understanding Autism and ADHD
 - Creating affirming workplaces
 - Advocating for your / your client / your child's needs
 - Qualitative and quantitative research

REFERENCES

- Al-Beltagi M. (2021). Autism medical comorbidities. *World Journal of Clinical Pediatrics*, 10(3), 15–28.
<https://doi.org/10.5409/wjcp.v10.i3.15>
- Bottema-Beutel, K., Kapp, S. K., Lester, J. N., Sasson, N. J., & Hand, B. N. (2021). Avoiding ableist language: Suggestions for autism researchers. *Autism in Adulthood*, 3, 1. 10.1089/aut.2020.001418
- Brickhill, R., Atherton, G., Piovesan, A., & Cross, L. (2023). Autism, thy name is man: Exploring implicit and explicit gender bias in autism perceptions. *PloS one*, 18(8), e0284013.
- Cabral, C., & Fernandes, F. (2021). Correlations between autism spectrum disorders and childhood apraxia of speech. *European Psychiatry*, 64(S1), S209-S209.
- Charlton, R. A., Entecott, T., Belova, E., & Nwaordu, G. (2021). “It feels like holding back something you need to say”: Autistic and non-autistic adults' accounts of sensory experiences and stimming. *Research in Autism Spectrum Disorders*, 89, 101864. <https://doi.org/10.1016/j.rasd.2021.101864>
- DuBois, D., Ameis, S. H., Lai, M. C., Casanova, M. F., & Desarkar, P. (2016). Interoception in autism spectrum disorder: A review. *International journal of developmental neuroscience*, 52, 104-111.
- Craddock, E. (2024). Raising the voices of AuDHD women and girls: Exploring the co-occurring conditions of autism and ADHD. *Disability & Society*, 39(8), 2161-2165.

REFERENCES CONTINUED

- Dwyer, P., Williams, Z. J., Lawson, W. B., & Rivera, S. M. (2024). A trans-diagnostic investigation of attention, hyper-focus, and monotropism in autism, attention dysregulation hyperactivity development, and the general population. *Neurodiversity*, 2. 10.1177/27546330241237883
- Kapp, S. K., Steward, R., Crane, L., Elliott, D., Elphick, C., Pellicano, E., & Russell, G. (2019). 'People should be allowed to do what they like': Autistic adults' views and experiences of stimming. *Autism*, 23(7), 1782-1792.
- Lawson, W. B. (2025). Interoception and Relationship to Monotropism. In *Autism and Being Monotropic: What Medical and Other Practitioners Need to Know* (pp. 67-72). Singapore: Springer Nature Singapore.
- Matyjek, M., Dziobek, I., Hamilton, A., & Wheatley, T. *Social Interaction Style in Autism: A critical review of social behaviours and outcomes in autistic and neurotypical interactions.*
- Moore, J., Boyle, J., & Namasivayam, A. K. (2024). Neurodiversity-affirming motor speech intervention for autistic individuals with co-existing childhood apraxia of speech: a tutorial. *Int. J. Autism Relat. Disabil.*, 7, 168.
- Morris, I. F., Sykes, J. R., Paulus, E. R., Dameh, A., Razzaque, A., Esch, L. V., Gruenig, J., & Zelazo, P. D. (2025). Beyond self-regulation: Autistic experiences and perceptions of stimming. *Neurodiversity*, 3