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Introduction to Neuro-diversity

Sarah Hendrickx

The Adult and Adolescent Neuro-diversity Handbook (2009)

Aims of the Day

- To increase knowledge and understanding of a range of neuro-diverse conditions.
- To consider ways of working which support young people and adults with neuro-diverse conditions.

Neuro-diversity

- Brain wiring
- Left-right hemispheres not working together
- Information processing
- 'Oddness'
- Inherited/genetic factors
- Co-morbidity
- Anxiety / stress
- Depression

- Asperger Syndrome
- Dyslexia
- Dyspraxia
- Dyscalculia
- OCD
- ADHD
- Tourette's Syndrome
- Anxiety Disorders

Left and Right Brain

 LEFT BRAIN FUNCTIONS uses logic detail oriented facts rule words and language present and past math and science can comprehend knowing acknowledges order/pattern perception knows object name reality based forms strategies practical safe RIGHT BRAIN FUNCTIONS RIGHT BRAIN FUNC uses feeling "big picture" oriented imagination rules symbols and images present and future philosophy & religion can "get it" (i.e. meani believes appreciates spatial perception knows object function fantasy based presents possibilities impetuous risk taking 	ing)
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Left and Right Brain Test

Which direction is the dancer turning?

Right brain – clockwise Left brain – anti-clockwise

You can change her direction if you focus



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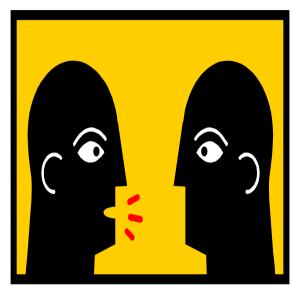
Autistic Spectrum

- Social Language and Communication
- Social Imagination
- Social Interaction
- <u>plus:</u>
- Sensory Issues
- Information Processing
- Motor Skills



Asperger Syndrome

- Autistic Spectrum Condition with no learning disability
- Difficulties with eye contact, reading faces, tone of voice
- Literal understanding of language
- Lack of understanding of social rules
- Prefer routines, predictability
- Dislike change risk averse
- High anxiety world is very confusing



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Asperger Syndrome

- Hard to imagine consequences
- Intense interests
- Not a team player
- Looking for rules/certainty
- Small social circle
- Can be socially isolated
- Poor short-term memory
- Poor organisation
- Black/white all/nothing views



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<u>ADHD</u>

- Procrastination hard to begin a task
- Quick tempered and easily irritated
- Doesn't finish things before starting new ones
- Forgetful and often losing things
- Speaks very rapidly and loudly
- Always moving their body unable to be still
- Unable to maintain focus and attention
- Poor at reading facial expressions



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<u>ADHD</u>

- Interrupts people with own ideas poor listener
- May be a risk-taker with limited perception of danger
- Impatient has to do everything 'now'
- Hard to consider another's perspective
- Self-focused
- Speed over quality
- Low understanding of consequences



<u>Dyspraxia</u>

- Body movement
- Bumping into things
- Untidy clothes
- Poor at sport
- Poor short-term memory
- Word pronunciation
- Social communication difficulties
- Inappropriate interruptions
- Erratic spelling
- Slow to complete work
- Lots of mistakes



Tourette Syndrome

- Involuntary 'tics'
- Motor tics body and facial movements
- Vocal tics noises and words
- Better when engaged in activity
- Sometimes worse when relaxed
- May suppress for while
- Self-conscious anxiety, stress
- Corporalia swearing 10%



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<u>Dyscalculia</u>

- Difficulty understanding concepts of numbers
- Size order
- Concept of time
- Money
- Sequencing
- Organising information
- Ordering
- Not simply 'bad at maths'

dx Total =	$\frac{d\times}{4\times^{3}+\sqrt{1\times^{2}}} = \begin{bmatrix} \sqrt{1\times^{7}} \in E \\ \times \in e^{5} \\ d\times -6b^{5}dt \end{bmatrix} = \frac{6t^{5}}{t^{3}+k^{2}} dt =$
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<u>Strategies for young people with</u> <u>neuro-diverse conditions</u>

- Clear, concise communication
- Back up verbal with written
- Allow time for slower information processing
- Support planning and organisation
- Memory aids
- Recognise different abilities
- Play to strengths
- Accept student for who they are
- Lots of praise and positive feedback

Educational Approaches

- Extra time writing
- Extra time processing information
- Clear written handouts
- Show how to do something more than once
- Allow breaks and movement
- Show what is expected
- Allow alternative assessment (presentation, practical, creative)
- Help with time management and planning
- Colour coding or other multi-sensory strategies



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