Thanks for coming along! This webinar will begin shortly.

The webinar will be recorded so it is accessible to others after the live session.

Dawn will not be able to see the chat during the presentation. Questions put into the chat will be combined by our team members into "umbrella" questions at the end of the session.

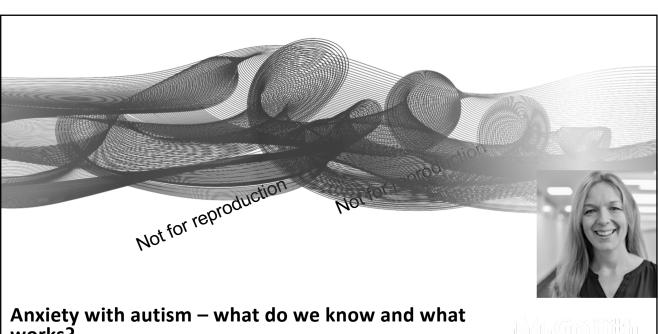
Please be aware of spammers or scammers in the chat box. This event

is free and we will not ask for any personal information in the chat box.

#### Anxiety with autism - what do we know and what works?

Assoc. Prof. Dawn Adams: Autism Centre of Excellence





Assoc. Prof. Dawn Adams: Autism Centre of Excellence





This talk aims to increase your knowledge and understanding about the research findings related to anxiety in autism

It is still recommended that you seek in of section and individual advice or input if you have pointies about the mental health of ourself or a person you care for/work with.

I am a Clinical Psychologist and a researcher and can talk about knowledge but not about first hand experience of autism (or autism and anxiety). I definitely recommended that you seek out and listen to those with a diagnosis on the autism spectrum.

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### Autism Centre of Excellence, Griffith University

- Multi-disciplinary team
- Teaching and Masters/PhD programs
- Leading research in:
  - Anxiety and well-being
    - Preschoolers Anxiety pre Ontion trial
    - 5-year longituding Study of anxiety in Not for readolesaetiche
  - Participation and strengths
  - Academic and communication skills
- Passionate about sharing knowledge and working with the autism community to improve outcomes







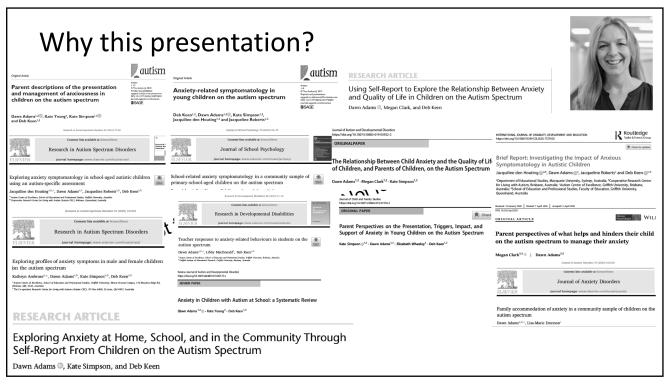


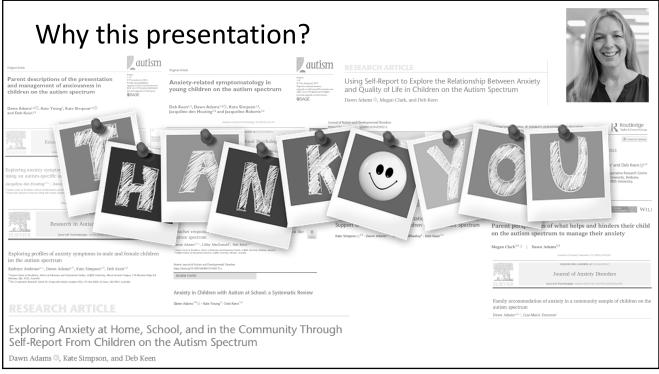












#### Ways to hear about our research outputs



Do you want to hear about our research opportunities and the results of our studies? Join ACE's Autism Research Network and it can come straight to your inbox!

(Please note registration is a two step process, after you complete the consent form in step 1, you'll get an email with a personalised link for step 2) https://is.gd/ACEResearchNetwork

WWW151 GRIFFITH FDU AU

Autism Centre of Excellence (ACE) Research Network **Participant Information and Consent Form** 

https://research-repository.griffith.edu.au - select by author or search for keyword

Lay summaries on our Facebook page and blog posts (Autism research talk)

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#### Language has power

Person first, identify first – "on the autism spectrum" will be used throughout as identified by broad number of groups as acceptable term (Bury et al., 2020; Kenny et al., 2016)

or reproduction

- Move away from the labels "high-functioning" for low-functioning"

   Using the label 'high-functioning' may underplay the challenges individuals experienced on a day-to-day basis and leads to misleading expectations about their abilities to function in the environment, whether that's at school, work or elsewhere (or not recognise the "pay" off for that).
  - The term "low-functioning" also dismisses any strengths or skills each individual may have. UNIVERSITY

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Queensland, Australia

## Topics you asked us to cover

- The autism spectrum
  - Females (→ masking/camouflaging)
  - Adults and the complexity of diagnosis
- The presentation/experience of anxiety in Autism-specific anxiety in Mot for Anxiety in Mot for Motor and Mo autism

  - Anxiety in those with minimal verbal language
  - Measurement
  - School anxiety, school refusal
  - Control, fear of failure

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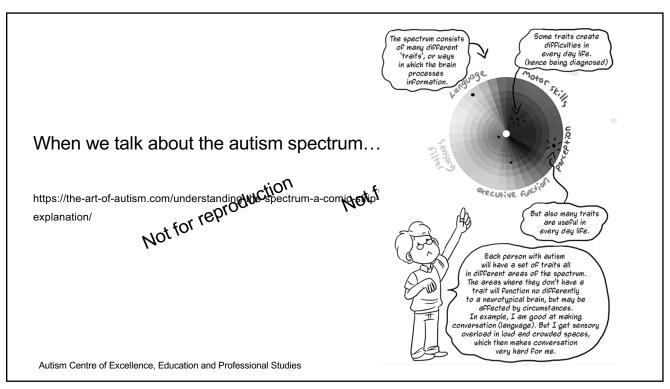


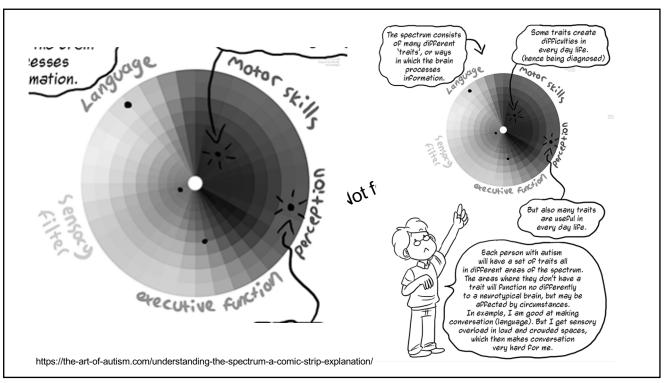
- Supports and strategies
- CBT what do we know and why is it hard?
- Medications
- Where to from here?



# If you feel lost – keep with me!









# Identifying autism in females

- Girls are less likely to
  - Be referred for an autism assessment

  - Receive an autism diagnosis using standardised assessments
     Less likely to have their repetitive behaviours notice of the control o
- - "girls without accompanying intellectual impairments or language delays may go unrecognized, perhaps because of subtler manifestations of social and communication difficulties" (APA, 2013, pp. 57).
- Measures give gender-biased examples (e.g. cars, spinning wheels)
- Delay in knowledge impacting practice



#### Females on the spectrum: the need for careful observation

- Girls may have less obvious restricted interests or repetitive behaviours
  - May like things "neat" or "tidy" make-up or fashion can be strength
  - Collections of specific dolls it's the intensity that's offerent, not the focus

    Social communication evaluation and may be higher than males and may
- increase acrossodolescence.
- High overlap with eating disorders (23% of those with anorexia have autism)
- "Champagne" approach holding it all together during the day and letting it all out in the evening.

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### Camouflaging "Putting on your best normal"

- Up to 70% of females report regularly camouflaging.
- May involve learned and automatic responses learned Not for reproduction through copying/mimicking.
- Systemises social interactions.
- Sometimes described as an "obligation" rather than choice. Aims to avoid negative perception or outcome.
- Associated with exhaustion, stress, anxiety, depression and identity confusion

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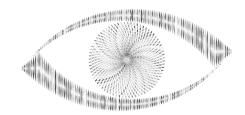


#### Identifying autism in adults (Huang et al., 2020 review)

- Increasing diagnoses in adults. The decision to seek an adult diagnosis is impacted by
  - Cost
- Fearing not being believed
   Difficulty finding a special following waiting times
   Depression (13-50%) and anxiety (10-50%) high amongst those seeking adult diagnosis. 545% ADHD, eating disorder or personality disorder.
- Importance of information, explanation and support.
- "My whole life up to that point finally made sense... I wasn't a failed neurotypical person, I was a perfectly good autistic person": Jac den Houting Ted Talk https://youtu.be/A1AUdaH-EPM

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# Take home message 1



- Autism is a spectrum condition
  - "If you've met one person with autism, you've met one person with autism" personality, profiles, age gender, environment can influence presentation.
- To understand autism with anxiety, we first need to understand autism.
  - DSM-5 criteria is no matched for listening and understanding the experience
- We need to try to understand behaviours and social challenges outside of our cultural (gender/age) bias.



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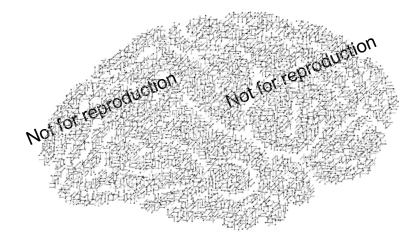
# **Autism with anxiety**



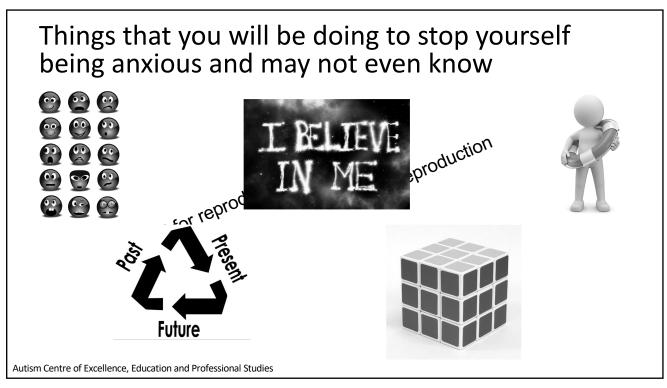
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# Before we think about anxiety, we need to acknowledge that low/no anxiety is an active process



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## Take home message 2

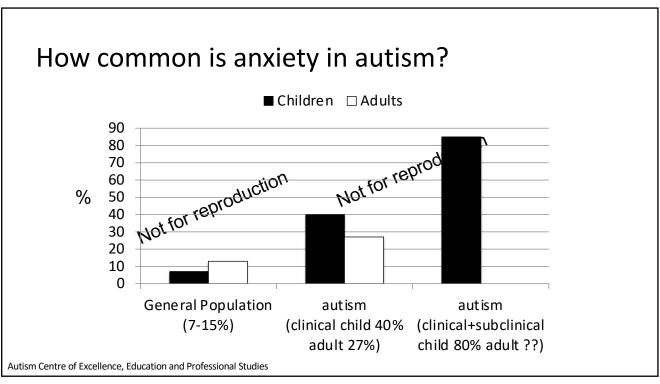
No or low anxiety is not simply the opposite of having anxiety.

It is an <u>active</u> process requiring a reproduction range of skills.

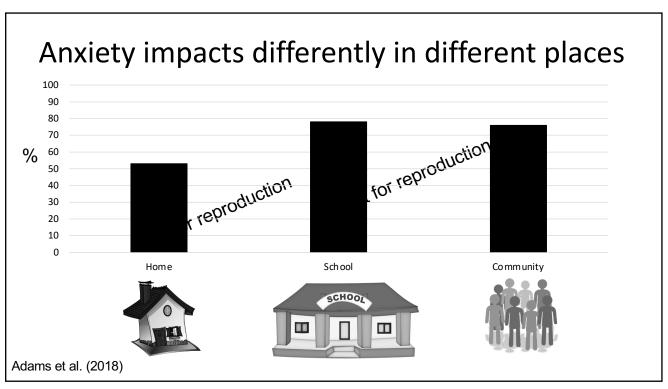
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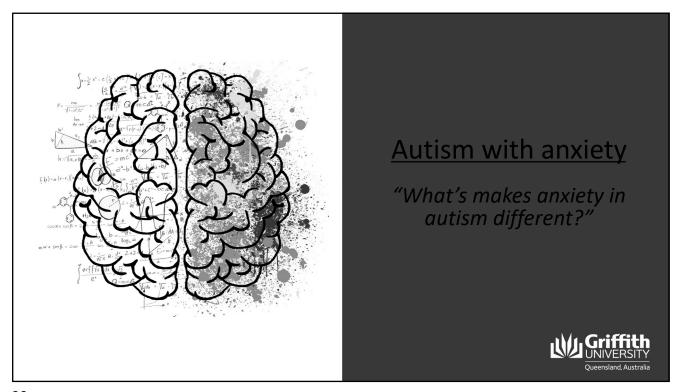
Therefore you don't "remove" anxiety, you develop the tools to (1) identify and (2) reduce it.

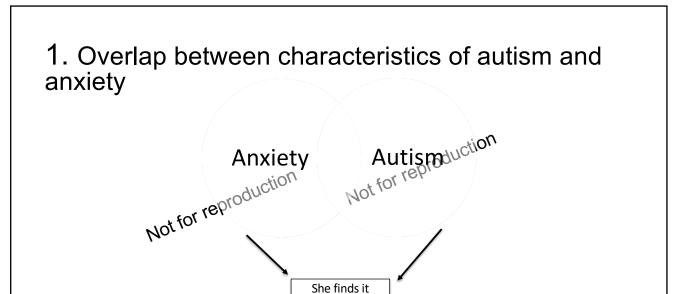




Type of anxiety	Description (% for autism <18 years, van Steensel et al., 2011)	
Generalised Anxiety Disorder	Feeling anxious about a wide variety of things on most days, over an extended period of time ("worry wort") – seek reassurance (10-15%)	
Social anxiety	Worry about social situations or times being judged, criticised, embarrassed or humiliated, e.g. speaking publicly, eating in public, or taking a test. (13-16%)	
Specific phobia	Fearful about a particular object or situation and may go to great lengths to avoid it, e.g. spiders, flying (25-30%)	
Panic disorder	Hallmarked by panic attacks" intense, overwhelming and often uncontrollable feelings of anxiety combined with a range of physical symptoms. (1-2%)	
Obsessive Compulsive Disorder	Ongoing unwanted/intrusive thoughtsfears that cause behaviours/rituals to alleviate fear or protect against harm/outcome (12-18%)	
Separation anxiety  Autism Centre of Excellence, Edu	Frightened of being away from person or item of safety. Anticipated	

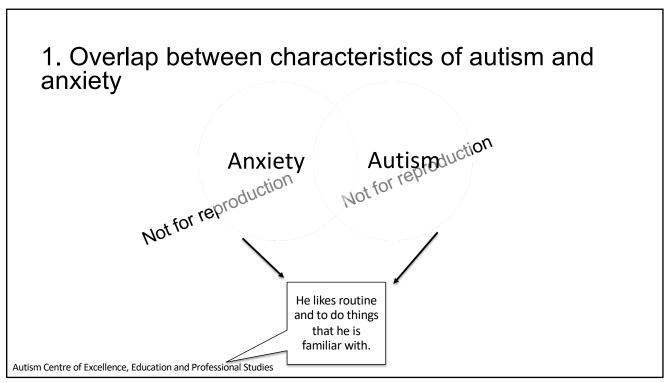






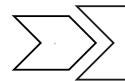
difficult to make eye contact when talking to people.

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### 1. Overlap between characteristics of autism and anxiety





Diagnostic overshadowing

Difficulties understanding what is autism and what is anxiety. May miss signs of anxiety. May attribute signs to autism.

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#### 2. Presence of "typical" and "autism-specific" signs of anxiety (Kerns et al., 2014)

**Typical** 

- **Negative Automatic Thoughts**

- Autism-specific ("Atypical") duction

   Anxiety around roughle, novelty and restricted interests

   Unusual specific fears
- Social fearfulness
- Compulsive/ritualistic behaviour
- Fear of sensory experience

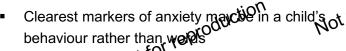




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#### Our research shows that:

- Presentation of anxiety
  - Most common challenges with uncertainty: "needing to know"
  - Least common physiological markers



- Change in votalisations
- Hiding or shutting down, unable to complete tasks
- Changes in mood, affect or emotions
- Changes in movement or running away
- Behaviour changes ("bracing for the worst")
- Repetitive behaviours and questions
- (Physiological changes)





ANGER







SCARED

RYING TRYING TO HIDING ACT NORMAL

CT NORMAL



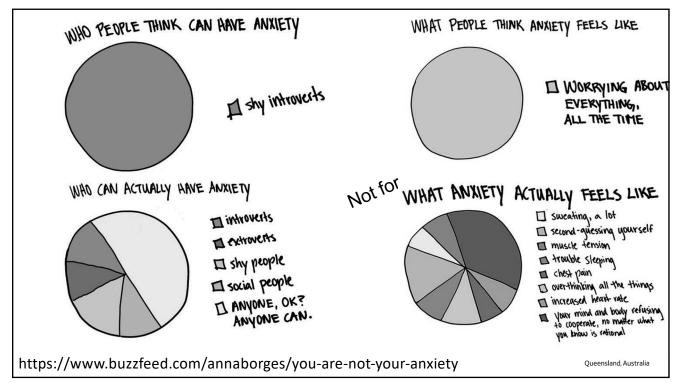


QUESTIONS REP

REPETITIVE BEHAVIOURS

Adams et al. (2018)

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# Take home message 3

It's not autism AND anxiety, it's autism WITH anxiety It's the interaction between that we need to understand Importance of autism-focused measure/assessment

Anxiety is a common but <u>not</u> inevitable or "part of autism" Know what you're looking for – understand what you see not what you think should be there.



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# School anxiety



- Although 80% of children and 72% of parents tell us the children on the spectrum are anxious at school, only 20-30% of teachers rate children above the cut-off.
- Only 50% of children think anyone at school can recognize their anxiety

  Most frequently endersed symptoms by teachers
- - 32.6% hesitant in starting tasks or asking whether they understood the task before starting.
  - 27.2% worries about things
  - 27.2% scared of making mistakes



# Fear of failure and of making mistakes

- Trying something new isn't just about pass/fail
  - It's a challenge to the need for routine and predictability
  - It may be about failing to meet an expectation oduction not an outcome Not for hallenge to specific cognitive skills e.g. ability to visualize and recult
  - e.g. ability to visualize end result, problemsolving skills
  - Challenges with interoception can make "gut instinct" harder

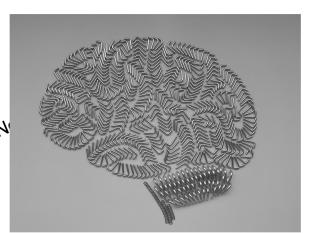


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# Interoception and alexithymia

- Interoception: recognizing inside feelings e.g. pain, hunger, anxiety.
- Alexithymia: labelling of your own inner state(s) by incorporating inner feelings with information from situation
- Managing emotions (emotion regulation) requires both of these + (+ inhibition control + planning etc. etc.)





# Fear of failure and of making mistakes

Remove our neurotypical view and use our autism-informed lens to hypothesise about the Not for reprod barriers → support

Won't do, or cap'tedo? (yet)

Each task avoided, although it may bring immediate relief, can impacts self-esteem.





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## School non-attendance and school refusal

- 43% due to non-problematic absence (e.g. medical appointments) → still impacts!
- 43% due to school refusation
- tight school exclusion and 9% school withdraw hot withdrawah<sup>O</sup>
  - Factors influencing school refusal are more environmental/situational than child-centric.
  - More work needed watch this space!



# Take home message 4

- Diagnostic overshadowing may make it hard for those at school to recognize the anxiety (in context of
- There's a need to look underneath the syntace to understand behavious not the syntace to
- Co-develop an "anxiety signature" to share with those who may not recognize the anxiety
  - Need to recognize anxiety before it can be supported







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# Stimming and repetitive behaviours

- "A stim may indicate there is a problem. A stim is not the problem"
- For various perspectives, see The Mighty's "11 Not for repr People With Autism Explain What Stimming Stimming may be used to

  Regulato
- - Provide predictability, routine or comfort
  - Calm and release
  - Be pleasurable!

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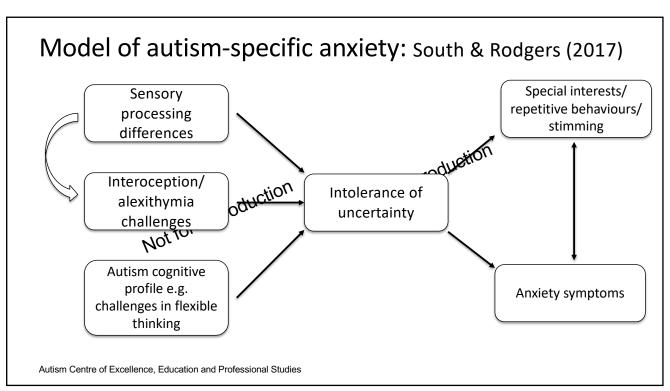


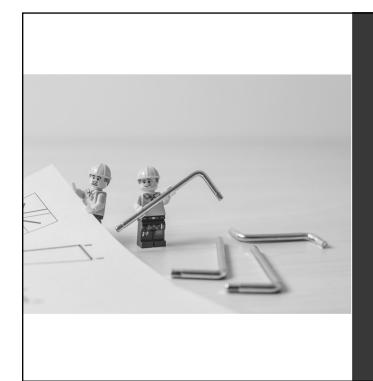




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## **Autism with anxiety**

"So what can we do? How is intervention different?:



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# Every day supports and strategies

- Adults on the spectrum have described how
  - It is easier to mentally prepare than recover afterwards plans
- Adjusting a plan actually means making a whole new plan

  Multiple changes are cumulative and can multiply rather than and to each other
  - It's not just about the task, but the place, the processing and the predictability of the sensory input that impacts the anxiety.
- → Need for everyday consideration as well as specific interventions



Parent-reported helpful strategies differ

between settings

Home	School	Community
talking or explaining (26.4%)	parent-teacher collaboration or communication (20.3%)	preparing or practising in advance (30.4%)
providing/ensuring a calm, safe, quiet location or time alone (26.4%)	providing a calm, safe, quiet location or time alone (15.6%)	avoiding specific places or removing anxiety trigger (14.4%)
routines or predictability (22%)	routines or predictability (13.3%)	sensory-related strategies (10.4%)
	preparing or practising in advance (13.3%)	

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Adams et al. (2018)

# Interventions for anxiety – Mindfulness and Cognitive Behavioural Therapy (CBT)

Mindfulness showing good effects in adults

• Be Mindful and CBT (Serenity) online selfpaced packages show improvements in 50eproduction
75% of those where miplete them Not for

Thoughts

CBT is moderately effective in children on the spectrum without ID

Behaviours

Feelings

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 up to 14 weeks of sessions, no additional benefit after that

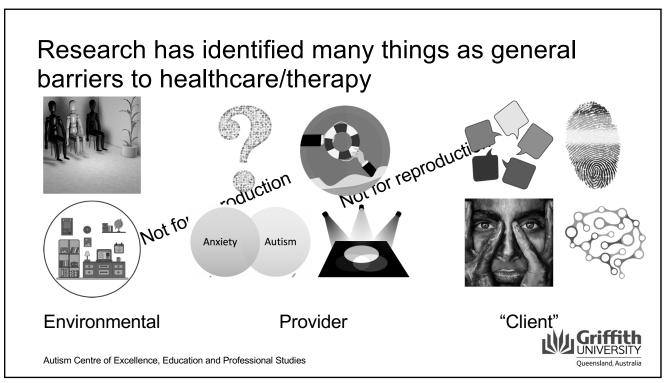


Dawn's reflections on why therapy (and then maybe specifically CBT) may be challenging for anxiety in some individuals on the spectrum



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#### What does CBT ask individuals to do?

- Recognise and identify thoughts, feelings and behaviours
- Hold on to that thought while you question it
- Keep all of those answers in mind and consider possible alternatives
  Use flexible thinking to consider all of those alternatives and identify the most likely outcome?
- Reconsider feelings and emotions (using your interoception and emotion labelling skills)
- Make a plan of action and act upon it (using executive functioning skills)
- Be prepared to be asked a whole range of questions by theraping

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#### CBT modifications significantly improve outcomes

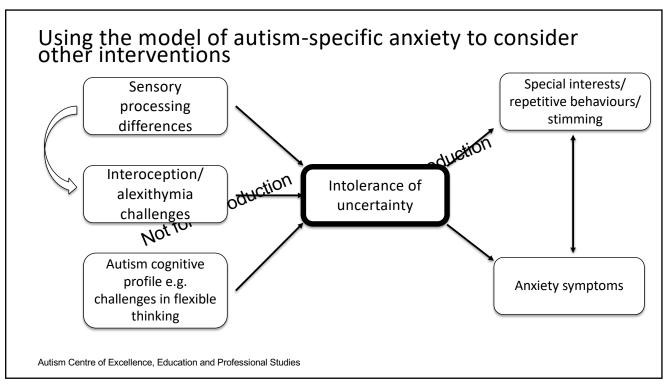
- Helpful modifications for autism
  - concrete tools and supports;
  - use of hierarchies that also address autism characteristics; incorporation of special interests wanted

  - parental divolvement Parent involvement in two or more activities almost doubles effectiveness
- Intolerance of uncertainty levels impact effectiveness
  - CBT doesn't necessarily tackle the intolerance of uncertainty

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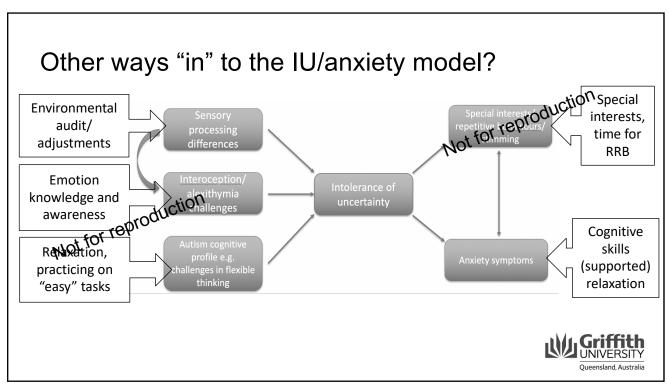
## Treatments focusing on IU to reduce anxiety

- CUES: Coping with Uncertainty in Everyday Situations (Rodgers et al., 2017)
  - parent group intervention to reduce intolerance of uncertainty in children and adults.

    Not for reproduction and adults.

    Not for reproduction not for reproduct
  - productive strategies used by parents to build certainty around the child
  - Reduces child IU and anxiety but reduces parent IU and anxiety more!
  - Currently being evaluated in RCT in UK (Rodgers et al., 2019)





#### Medications – review Vasa et al., (2014)

- Only identified 4 studies autism-specific. No RCT (blinded) studies of anxiety medications specifically in youth on the spectrum
  - "Large scale and long term RCTs examining asychopharmacological and non-psychopharmacological tradition are sorely needed."
- "Citalopram resolited in mild to severe side effects, resulting in discontinuation in 6 of 32 (19 %) children. Fluvoxamine resulted in side effects in 13 of 18 (72 %) children with behavioural activation occurring in 9 (50 %) of children. Buspirone resulted in mild side effects"



#### Medications - CBD oil

- "At present, however, there are no convincing pre-clinical or clinical data showing efficacy and safety of cannabinoid treatment in ASD patients." (Poleg, Golunchik, Offen & Weizman, 2019)
- "Studies revealed mixed and inconclusive findings of cannabis effects for all conditions [co-occuron with aution], except epilepsy. Adverse outcomes were also perfectly which included severe psychosis, increased agitation, somnolence, decreased appetite, and irritability...There is currently insufficient evidence for cannabis use in ASD, which creates an urgent need for additional large-scale controlled studies to increase understanding of risks and benefits" (Agarwal, Burke & Maddux, 2019)



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# Take home message 5

- To support autism with anxiety, we need to understand the autism, autism-specific anxiety and their interaction
- Models
- odels

  Highlight why some therapies (endocent) don't tackle all of the anxiety experience of representation.
  - Gives us lots of avenues to reduce challenges, some outside of formal therapy
- So much more work needed in this area which we hope to continue!



#### Thank you! Time for some questions Keep up to date with our research via our Facebook page

#### Useful links

- www.facebook.com/AutismCentreExcellence https://is.gd/ACEResearch Network Not for Tencentre Not for Te
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