



UNIVERSITY OF BIRMINGHAM

Anxiety in Williams Syndrome

Rachel Royston & Dr. Jane Waite

Cerebra Centre for Neurodevelopmental Disorders (CCND)

University of Birmingham

Contents

- Who are we?
- What is anxiety and what do we know about anxiety in SSW.
- How to spot signs of anxiety
- Strategies
- Where to find further information

Who are we?









Williams Syndrome Research at the CCND

Currently undertaking three year research project: Anxiety in adolescents and

adults - 12+

- 1. Interview study (*n*=13, *M* α*ge*=21.92, *SD*=11.12)
- Online international survey study (current n=19)

Comparison groups: FXS (current n=27), PWS (current n=7)

Direct assessment study (UK) — January 2017



What is anxiety or worry?

"a feeling of worry, nervousness, or unease about something"

When is it 'normal'?

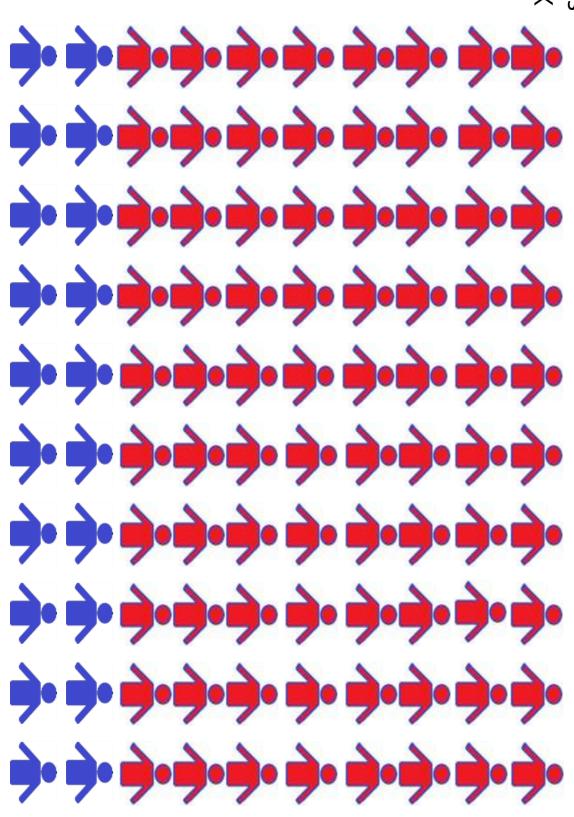
- Situation that is threatening/difficult
- Example: public speaking
- Anxiety stops during or after the event

When is it a problem?

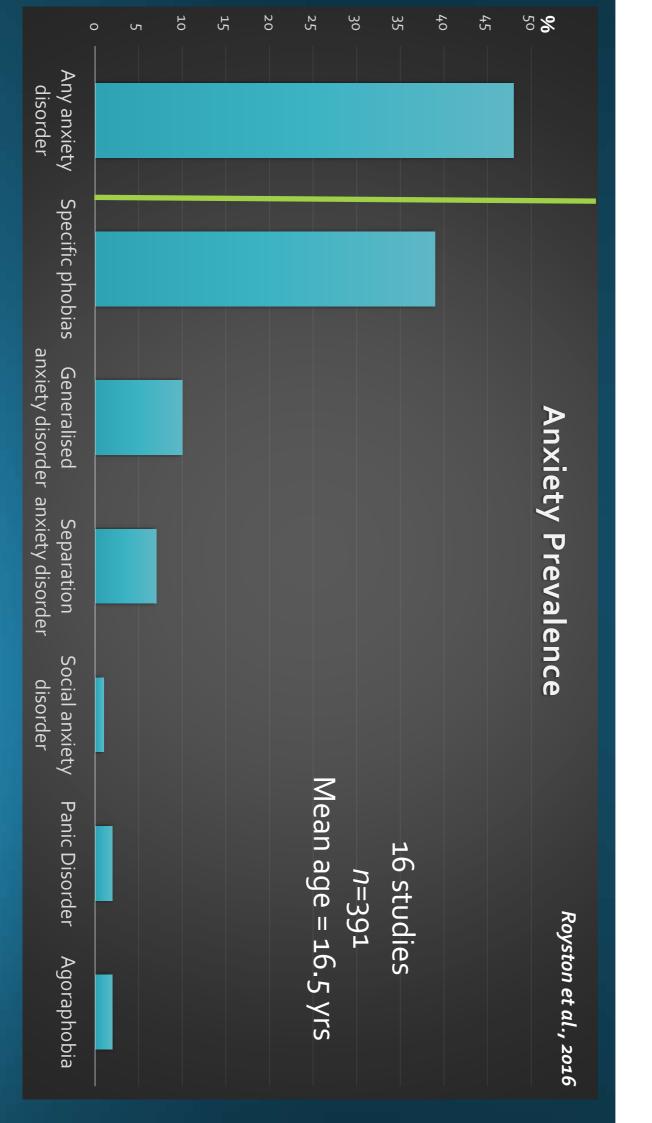
- Constant anxiety all the time
- No reason
- Out of proportion to threat of situation

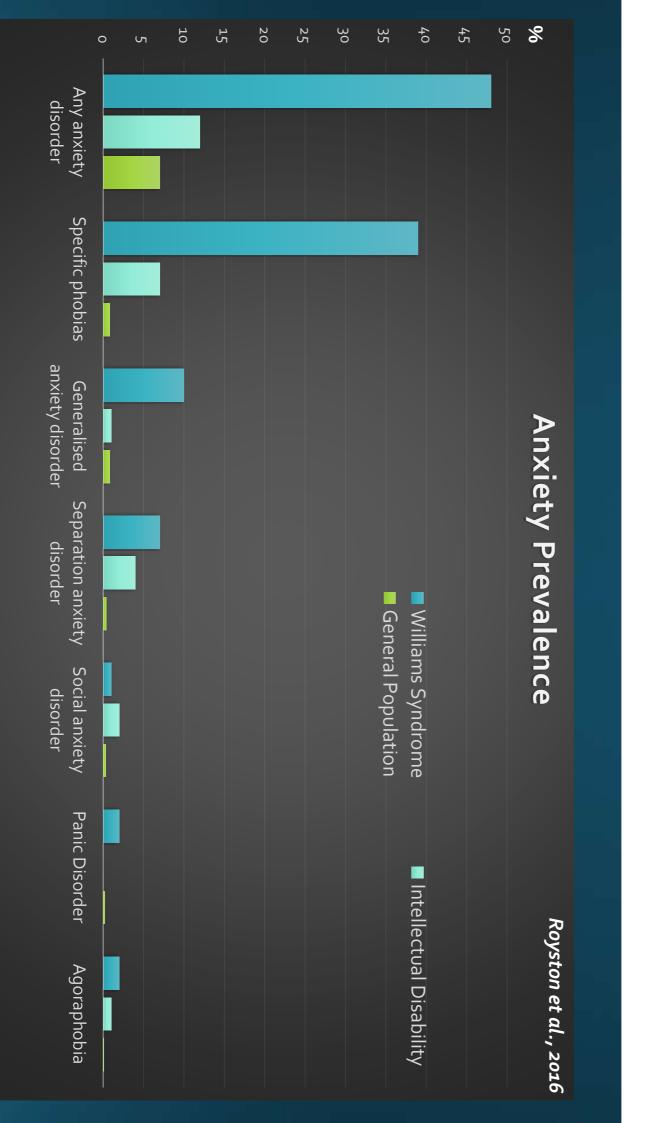


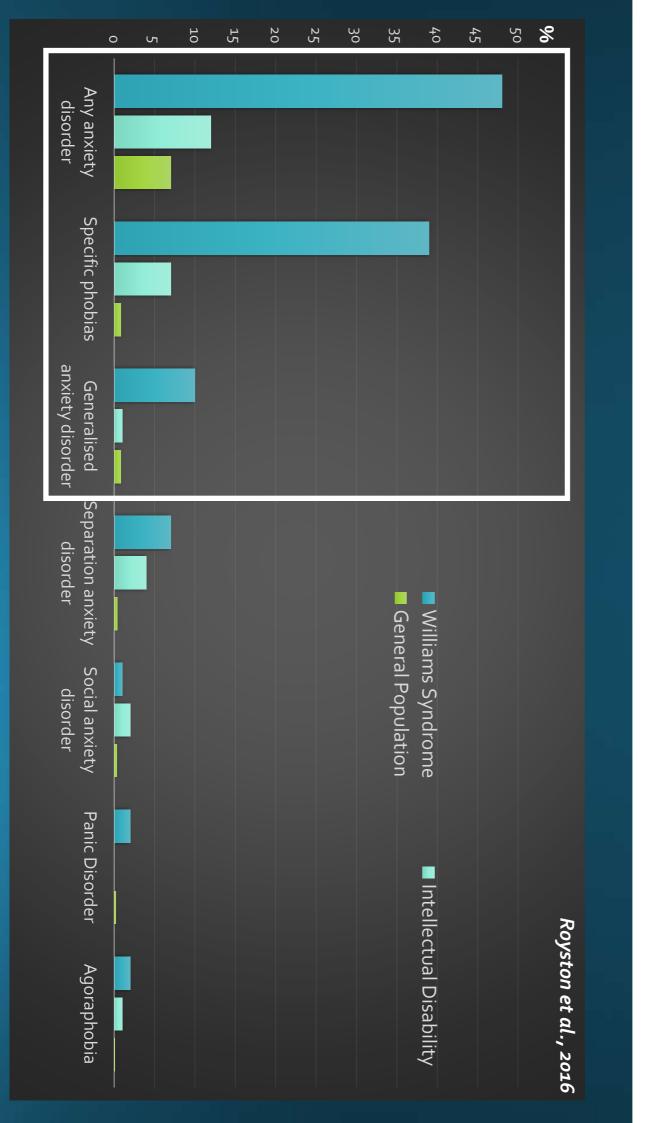
(e.g. Williams, fragile-X or Cornelia de Lange syndromes

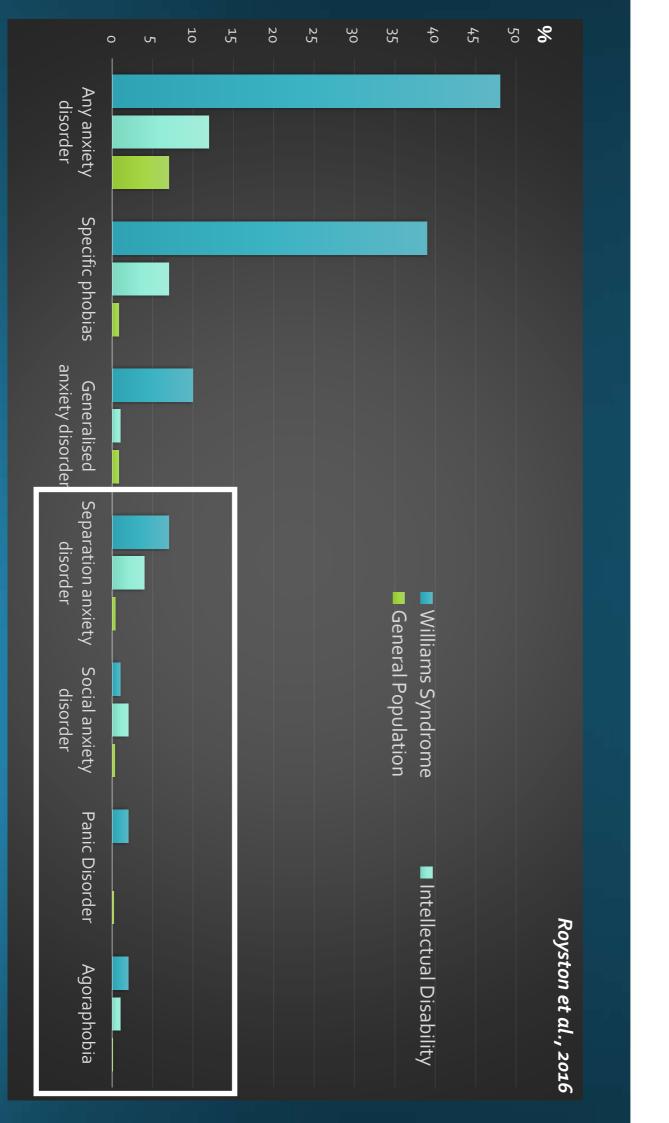








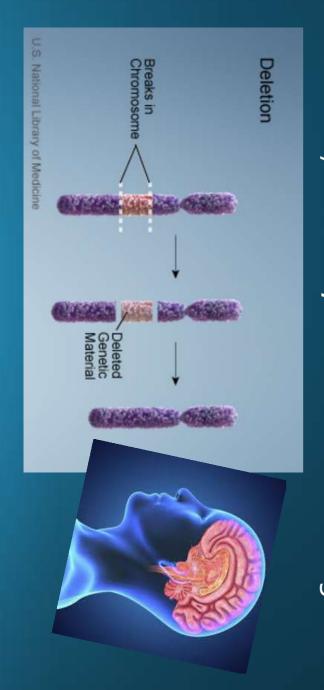




Anxiety in WS

Not related to number of stressful life events or level of ability

Social difficulties, hypersensitivity to sound, executive functioning



Specific phobias

Irrational fear relating to an object, situation or event

Risk in WS: x5.6



Hospitals/Doctors/Injections





Animals



Unpredictability?

- New situations
- Unpredictability
- Routine changes
- Anticipation of future events
- Performance situations/increased demands
- Other people being upset
- Social situations

- New situations
- Unpredictability
- Routine changes
- Anticipation of future events
- Performance situations/increased demands
- Other people being upset
- Social situations

- New situations
- Unpredictability
- Routine chang
- Anticipation o
- Performance situation.
- Other people being upset

Social situations

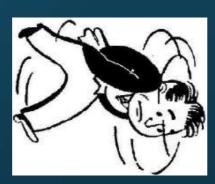
But, people report low levels of social anxiety in Williams Syndrome?

- New situations
- Unpredictability
- Routine changes
- Performance situations/increased demands
- Other people being upset
- Anticipation of future events
- Social situations

UNCERTAINTY?

Generalised Anxiety Disorder

- Excessive and uncontrollable worry, not linked to a specific
- population - GAD linked to Intolerance of Uncertainty in general



- Risk in WS x10
- GAD increases with age (Dodd & Porter, 2009; Leyfer et al., 2006)

Change over time?

Woodruff-Borden et al. (2010):

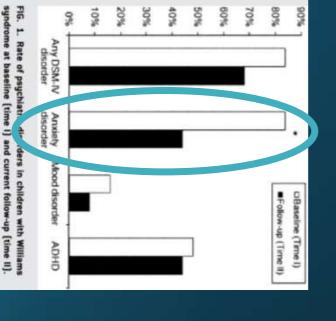
N=45 (mean age $T_1=6.7$ yrs; mean age $T_2=10.8$ yrs)

- 5 year follow up
- 62.2% showed anxiety over time
- at later assessments 72.2% with anxiety developed more anxiety disorders

Green et al. (2011):

n=25, (mean age = 13.1, SD = 5.2)

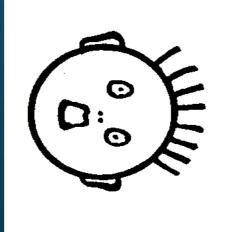
- follow up 3-9 years later
- 84%->44%



Knowing when someone is worried?









What to look for...

	(3)		
		\ }	• nausea
))	 stomach aches
		 inability to relax 	 pale complexion
penaviours		losing control	 trembling
• more repetitive		 concerns about 	 dizziness
SEERING PLOXIIIILY		threat	 muscle tension
	crying	about perceived	 tiredness
more than usual	 distress 	 repetitive thoughts 	 sweating
 fidgeting/ moving 	 feeling worried 	concentrate	heartbeat
 avoiding situations 	 irritability 	 inability to 	 fast and irregular
		thinking patterns:	
Changes to behaviour	Changes to emotions	Changes to thoughts/	Changes to the body:

The vicious cycle of anxiety

Situation

e.g. parent walks their child to the park where there might be dogs



Anxiety

Child's heart rate increases, they feel tense and worried





dogs in the future. Parent is more likely to avoid the park in future

Long term: anxiety increases.
Loss of confidence of coping. Child
more likely to use behaviours to avoid

Child experiences short term relief



Child engages in behaviour to escape any dogs
Refuses to go into the park. Pulls parents arm to move away from any dogs that come near

Understanding the triggers for anxiety

Knowledge of the type of anxiety and triggers associated are important

Date/Time
What happened before? How long did it last? Immediate Trigger
How long did it last?
What did the person worry about?
What happened afterwards? How did the person calm down?

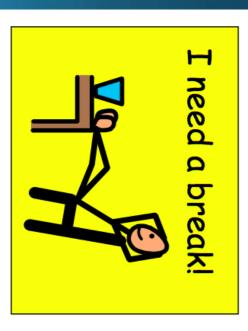
Overview: Strategies

Interventions

- Practice labelling emotions and increasing communication
- Increase coping
- Make life more predictable
- Addressing sensory issues
- Not all strategies work for everyone

Labelling emotions and increasing communication

- Knowing you have a way to let people know that something is difficult can reduce anxiety
- Card or picture cue to 'take a break' or 'leave the situation'
- Avoidance = more likely to experience anxiety in the future: pair person spends in feared situation this strategy with gradually increasing the amount of time the
- Having an allocated "worry time"



Increasing the person's coping skills

Self-calming strategies

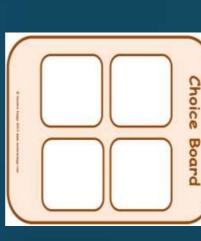
- Listening to calming sounds or music
- (Blomberg et al., 2006; Dykens et al., 2005)
- Deep breathing
- Squeezing a ball



Strategies should be used to help reduce anxiety in difficult situations rather than avoiding the situation

Making life more predictable

- Endure predictable pattern to the day
- Visual schedules
- Use social stories
- Increase choice



- variety. introduce more flexibility so that the person can begin to tolerate a more Once the person has a predictable routine it may be possible to gradually
- Slowly! Monitor progress.
- Use a cue to indicate a change is coming
- Not too early as this anticipation can increase anxiety

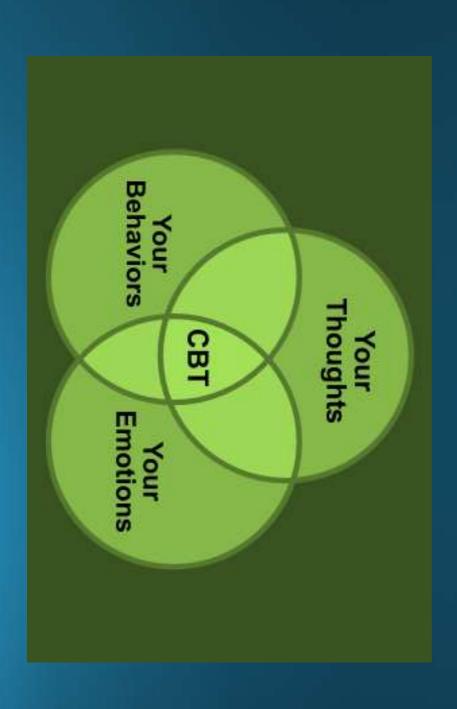
Addressing sensory issues

Example: hypersensitivity to noise, ear pain

- Treat physical health problem (i.e. an ear infection)
- Strategies: ear defenders for loud noises



Cognitive behavioural therapy vs. Behavioural approaches



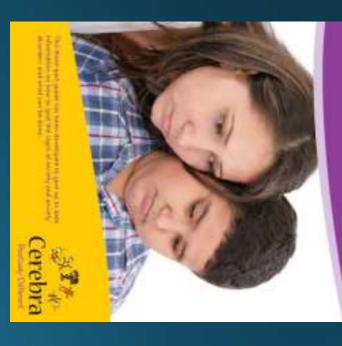
In summary

- Higher levels of anxiety are associated with WS
- Anxiety can arise for various reasons
- People with WS may have fewer strategies available to cope with this unpredictability
- There are several things that we can do to try to reduce anxiety
- There is still a lot for us to learn!

Further information

Cerebra guide for parents

Cerebra Anxiety Guide: A Guide for Parents



Search for 'cerebra anxiety guide'

Dr Debbie Riby, Durham UK

Anxiety in children with Williams Syndrome

A Guide for Primary School Teachers



people with Williams Syndrome

Anxiety in young

A Guide for Secondary Education













