

Down Syndrome Regression Disorder Self Assessment (Parent/Child) Diagnostic Workup (GP's and Specialists)

What is Down Syndrome Regression Disorder?

In 2022 a global research paper was produced in which 25 medical professionals from around the world, together agreed on the Nomanclature (Name), Assessment and Diagnostic testing for Down Syndrome Regression Disorder.

Regression is the loss of previously acquired skills.

Through a national survey, parents identified the list of symptoms and behaviours on page 1 reflecting the loss of skills and behavioural changes.

DSRD can seriously affect a persons ability to take care of themselves, wash, dress, eat and undertake personal hygiene. Significant regression is also reported in language and communication, social skills, motor skills, memory, and behaviour. Each of these reduce quality of life, independence and social engagement.

The condition is also deeply impactful on the person's family.

Produced by:





ceo@downsyndromewa.org.au

Supported by:





Sage Medical
Consulting WA



Checklist for Parents / Carers of loved ones with Down syndrome experiencing regressive changes.

This list has been prepared from the lived experience of parents in Western Australia.

Designed to support parents to compile a list of observed changes
to support a visit to your General Practioner.

	to support a visit to your General Practioner.			
1.	Speed	th and Communication Speech Deterioration Whispered speech Stopped talking completely Extremely quiet Dysphasia (difficulty speaking) Changes in handwriting Minimal verbal participation Has a slower learning pace	4.	3
2.	Physic	cal symptoms Catatonia Seizures Fainting Severe weight loss Choking Hair loss (Alopecia)	-	changes ☐ Incapable of reasoning ☐ No sense of time / urgency ☐ Always running late ☐ Difficult managing menstrual cycles ☐ High degree of forgetfulness
		Incontinence Spending a lot of time sleeping Skin patches or discolouration Decline in motor skills Very slow / awkward movements	5.	Daily living skills Needs assistance with personal care tasks Requires help to dress Requires help to shower Daily wears the same outfits/underwear Constantly late Personal hygiene
3.	Behav □ □ □	Extremely slow eating Uncontrollable crying Aggression OCD tendencies rapidly increased	6.	dramatically reduced Social and Interpersonal Changes Reduced social engagement Reduced emotional responsiveness Falls silent

Not interested in school/work



Parents - When to Seek Help

Dr Eileen Quinn (Paediatrician): "Any child can have good days and bad days. You think they've mastered something, and then suddenly they forget all the words that they used to be able to read. That kind of ebb and flow is pretty normal.

I think the time to really be concerned is when there's a substantial change that doesn't get better in a week or two, especially if they start losing more skills and it really starts to affect their daily life and interfere with their ability to do the things that they used to do"

Reference Link: https://www.dsrf.org/resources/blog/u-turn-down-syndrome-regression-disorder/

For the General Practioner or Specialist Doctor Questions for parent/carer

Questions provided by Dr Cathy Franklin - Mater Intellectual Disability and Autism Service (MIDAS), Brisbane Queenland.

Does the person ever;

- get stuck in one position if so how long for (posturing)
- get stuck in the middle of a movement (ambitendency)
- need help getting started wiht a movmenet eg feeding self with cutlery, taking a step (perseveration)
- have trouble crossing thresholds eg through doorways or up or down stairs
- repeat other's speech or movements (echolalia/echopraxia)

Have you noticed:

- decreased speech/communication (mutism)
- increased slowness eg how long does it take to eat breakfast now (compared to previously)
- how long does it take to get dressed (bradykinesia)
- unusual movements eye rolling back, repeticvitie frequent movements (steeotypy) or odd wasys of doing unusla behaviours eg walking, stepping sideways (mannerisms)
- unusual facial expressions eg grimacing (grimacing)
- abnormal staring (staring)
- changing handed-ness (eg was left and now right)
- periods of rushing around, agitiation without obvious trigger (agitation)

NB Inappropriate laughing and crying can also occur and be mistaken for halluncinations.

Mater Intellectual
Disability and Autism
Service





Diagnostic Workup General Practitioner and Specialists

General Practitioner

Pathology

FBC CRP HbA1c

UEC Vitamin B12 Celiac screen

LFT Vitamin D HIV, HBV, HCV screen

Ca TFT ANA

BSL (random) Iron studies Urine MSU M/C/S

*** keep in mind that if there has been a HbA1c, Vit B12 testing in the last year, this is acceptable given that the patient may be out of pocket for these tests if done frequently

ECG

Consider

- ECHO (can request to have an ECG done at the same time)
- Imaging of the brain (CT / MRI although can be done via neurologist)
- Audiometry

Refer onward at this point if no obvious cause is found

Specialist Referral

Neurologist

- EEG
- Cognitive assessments
- Lumbar puncture

Geneticist

- Genetic testing
- •

Gastroenterologist

Colonoscopy + gastroscopy

Psychiatrist

- Autism screening
 Respiratory physician
- OSA evaluation

Further Information

Refer to Research Paper: Assessment and Diagnosis of Down Syndrome Regression Disorder: International Expert Consensus 2022. Dr Santoro says "Down syndrome regression disorder (DSRD) is really a diagnosis of exclusion. Our workup is not to diagnose DSRD; our workup is to rule out other explanations for it."

Refer to Research Paper: Assessment and Diagnosis of Down Syndrome Regression Disorder: International Expert Consensus 2022 https://www.frontiersin.org/journals/neurology/articles/10.3389/fneur.2022.940175/full



Interpretation of Diagnostic Workup
Sage Medical Consulting WA

