

# Catatonia, Autism and its Discontents

Presented by **Dr Angela Livingstone** 

Victorian Dual Disability Service

Better and fairer care.

Always.

#### Victorian Dual Disability Service (VDDS)

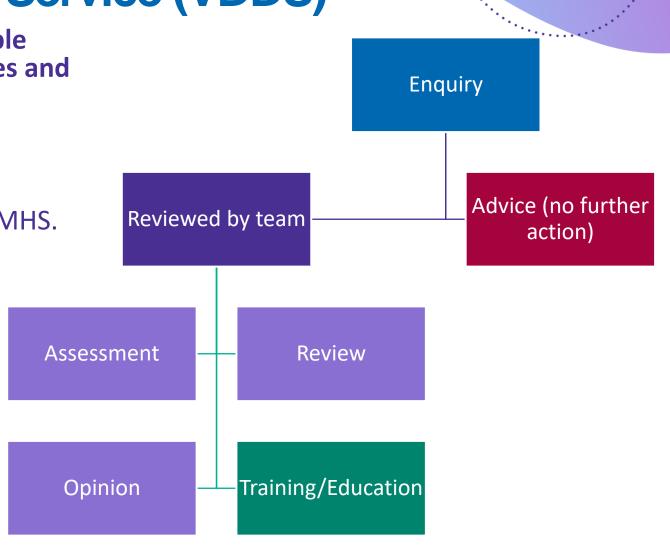
State-wide mental health service for people with co-occurring mental health challenges and a developmental disability.

#### What does VDDS do?

- Telephone consultation to anyone.
- Assessment & consultation for public AMHS.
- Assessment & consultation for NDIS participants
- Education & Training
- Service Development

#### How to make a referral or request training:

- Telephone Referral: (03) 9231 1988
- Email: vdds@svha.org.au





## Outline

- ❖ What is Catatonia?
- What is its relationship to Autism?
- How can we recognise and treat it?

#### **Ayn Rand: The Virtue of Selfishness**

"Nothing is given to man on earth except a potential and the material on which to actualize it. The potential is a superlative machine: his consciousness; but it is a machine without a spark plug, a machine of which his own will has to be the spark plug, the self-starter and the driver; he has to discover how to use it and he has to keep it in constant action."





## What is Catatonia?

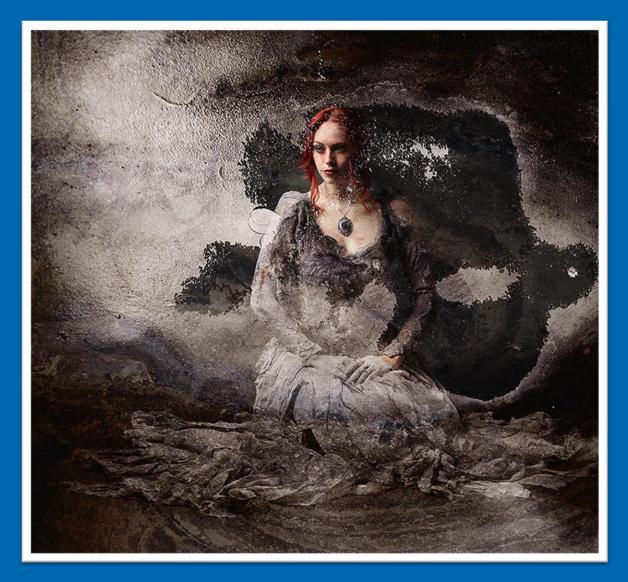
## Why Catatonia?



- Nearly no exposure to catatonia before working at VDDS.
- Multiple presentations since, often associated with significant features of Autism Spectrum Disorders.
- OWhy did I never see / recognise it before?
- O Why is it apparently common in ASD?
- Resistance from AMHS to diagnose and suggest treatment.



- ❖Philip Barrough (1583)
- \*Robert Bayfield (1663)

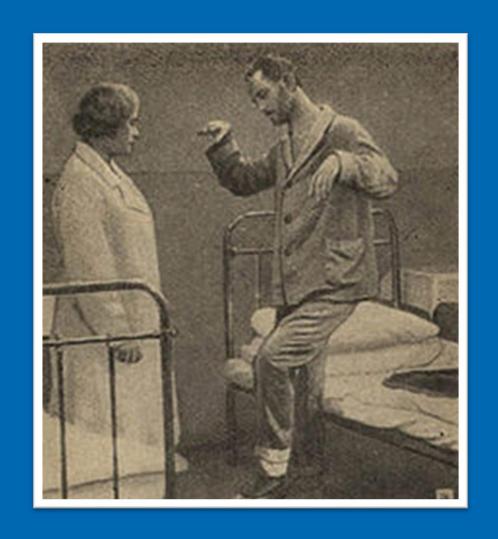


Artwork by Elizabeth Hinders



- ❖Kahlbaum (1874)
- ❖Kraepelin (1893)

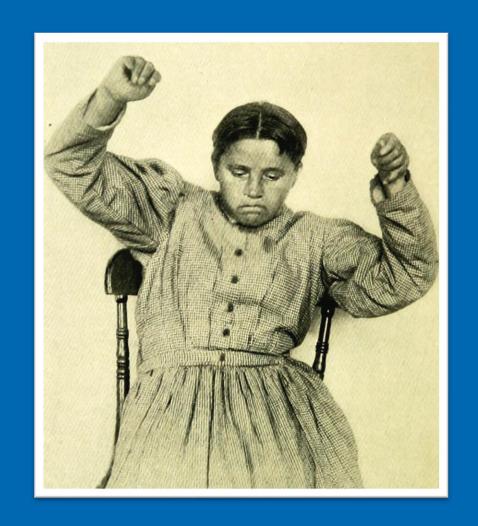
- ❖ Wernicke (1900)
- ❖Bleuler (1911)
- \*Kleist (1913, 1943)



Leonhard (1936); three pairs of categories:

- Parakinetic catatonia vs manneristic catatonia
- Speech-prompt vs speech-retarded catatonia
- Proskinetic vs negativistic

Also was the first to describe catatonia in children.



#### **Childhood Catatonia**



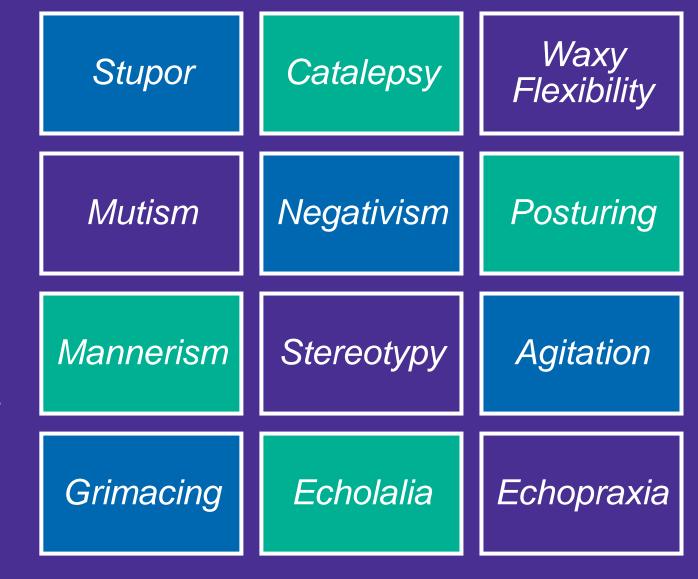
Artwork by Sasha Bassari

- Catatonia has been described in children as young as five years, but is far more common in adolescents and adults.
- In younger children the clinical picture may vary, with fewer catatonic symptoms overall and less psychomotor retardation (stupor, immobility), and the presence of incontinence (not usually reported in adults).
- Schizophrenia is the most common diagnosis.
- More common in male children.
- Can be associated with an acute non-psychotic anxious state (*Thakur et al., 2003*).

#### **DSM-5** Criteria

- Catatonia Associated With Another Mental Disorder (293.89)
- Catatonic Disorder Due to a General Medical Condition
- Unspecified Catatonia

Must include at least three of the following:



**Some Medical Causes of Catatonia** 

- Epilepsy
- Wilson's Disease
- ❖Tay-Sach's Disease
- Tuberous Sclerosis
- Hyponatraemia
- ❖Rheumatic Fever
- Encephalitis
- Thyroid Derangement
- Substance Use
- Withdrawal of medication





#### Things That Look Like Catatonia (but aren't)

Elective Mutism

Metabolic-induced Stupor Parkinson's Disease

Malignant Hyperthermia

Locked-in Syndrome Stiff Person Syndrome Neuroleptic Malignant Syndrome Toxic Serotonin Syndrome

#### Psychiatric Diagnoses Associated with Catatonia



Artwork by Vassia Sarri

- Mood Disorders
- Psychotic Disorders
- Mental Disorders due to a General Medical Condition
- Substance-Induced Disorders
- Developmental Disorders
  - Autistic Disorder
  - o PDD-NOS
  - Childhood Disintegrative Disorder
  - o Prader-Willi



#### **How Common is Catatonia?**

#### Well...

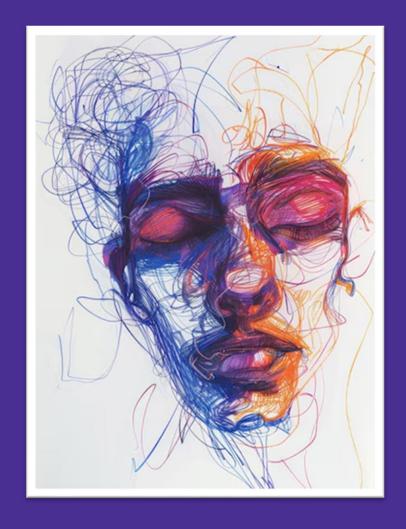
- Studies estimate between 6-17% of MH inpatients have catatonia.
- 15999 mental health admissions to one Victorian urban AMHS in past 15 calendar years

#### **BUT**

♦66 were coded as having catatonia (ICD-10 F20.2, F06.1)

= 0.4%

Why?





#### "Where Have All The Catatonics Gone?"

(title of an editorial by B. Mahendra, Psychological Medicine, 1981)

#### ❖What has happened?

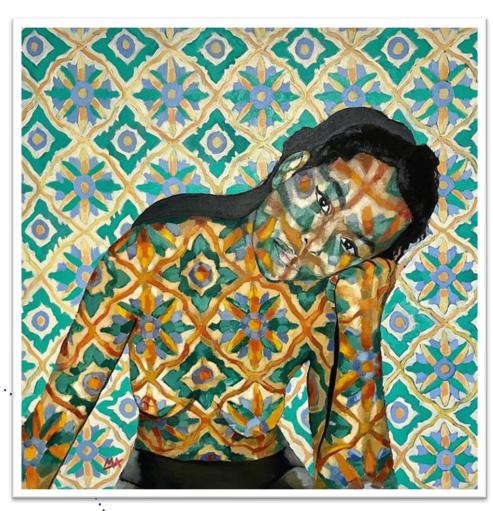
 The rate of periodic (mood-related) catatonia seems to have remained stable, while there is a decline in the rate of chronic (psychotic) catatonia

#### **❖**Why?

- Rates remain higher in developing countries is decline due to decreased incidence of obstetric complications, head trauma etc.?
- Encephalitis lethargica? Other viral causes for the previously high levels of catatonia?
- O Different treatment approaches?
- Diagnostic overshadowing?



#### Subjective Experiences



- ❖ Northoff (1998) retrospectively investigated the subjective experience of catatonic patients.
- ❖ Self-questionnaire of 22 akinetic subjects.
- Compared to:
  - 22 with akinetic Parkinson's
  - 22 with noncatatonic major depression
  - 22 with noncatatonic paranoid schizophrenia
  - o 22 with residual schizophrenia





# Catatonia and its Relationship with Autism

#### What is Autism?

- Autism Spectrum Disorder (ASD)
- **❖** Lifelong neuro-developmental disability.
- Multiple causes (genetic / environmental)
- **❖** Wide variation in presentation and support needs.
- Core features
  - Social communication challenges
  - Repetitive and restricted interests and/or behaviours.
- Increasingly common (1:68 children, 1:100 adults



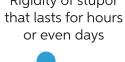


#### Catatonia and Autism

#### Common catatonic behaviors



Performing strange movements





Staying in uncomfortable positions without shifting



Erratic and extreme movement



**Fcholalia** (repetition of words or behaviors)

- Catatonia is a relatively common condition in ASD ~10%
- ❖ People with ASD & catatonia are at increased risk for negative outcomes with a 60-fold increase in mortality, which may include suicide.
- Onset is often in adolescence with functional regression.
- Benzodiazepines & ECT are the most effective treatments.

#### **Catatonia and Autism**

#### Wing & Shah (2000)

Reported that 30 of 510

 (17%) of patients
 attending a tertiary
 referral centre for autism
 in the UK met criteria for
 diagnosis of catatonia. No
 child under 15y
 demonstrated the full
 syndrome, and in most
 cases catatonic
 symptoms started
 between 10y and 15y

#### Billstedt, Gilberg & Gilberg (2005)

Found 13 of 120 (12%)
 patients with autistic
 disorders between 17 and
 40 years had clinically
 diagnosed catatonia with
 severe motor initiation
 problems, and another 4
 had several symptoms
 but not the full picture.

#### Kakooze-Mwesige, Wachtel and Dhossche (2008)

 Estimated the incidence of catatonia as one in seven (14%) of adolescents/ young adults with autism, similar to the incidence of catatonia in those with affective and psychotic disorders.



#### **Catatonia and Autism**

#### Why might they be related?

- Clinical boundaries between ASD and childhood SCZ are not always clear; possible familiar coinheritance and comorbidity may be common.
- ❖Is Autism the same "disease" as catatonia?
  - If so, why don't BZPs and ECT work in "treating" ASD?
- Symptom overlap

Loss of language

Loss of social skills/adaptive behaviour

Stereotypies

Compulsive behaviour

Hyperkinesis

Echolalia/echopraxia

Staring/gaze avoidance



## Catatonia and Autism A Consumer's Experience



"My first major mental health episode happened in the middle of 2023... People didn't understand or believe what I was going through... I think it was triggered by Autistic burnout. I didn't have the capacity to do anything, and that's not quality of life"

- AMHS consumer

## Catatonia and Autism A Consumer's Experience

"I was taken to the ED. I was catatonic at the time... I couldn't speak, and I became non-verbal. ED staff didn't understand... The doctors tried to get my history from me, but I couldn't talk... One ED doctor said 'If we can't get a history from you, then we can't treat you'... It felt like they thought I was trying to be difficult [because I couldn't talk]... Felt like my brain was overheating. [I think] my Autistic response to stress is either a meltdown, or shutting down [catatonia]. Luckily, I was admitted to the ward and diagnosed... They treated me with benzos... That slowly worked"

- AMHS consumer

#### What Might This Experience Reflect?

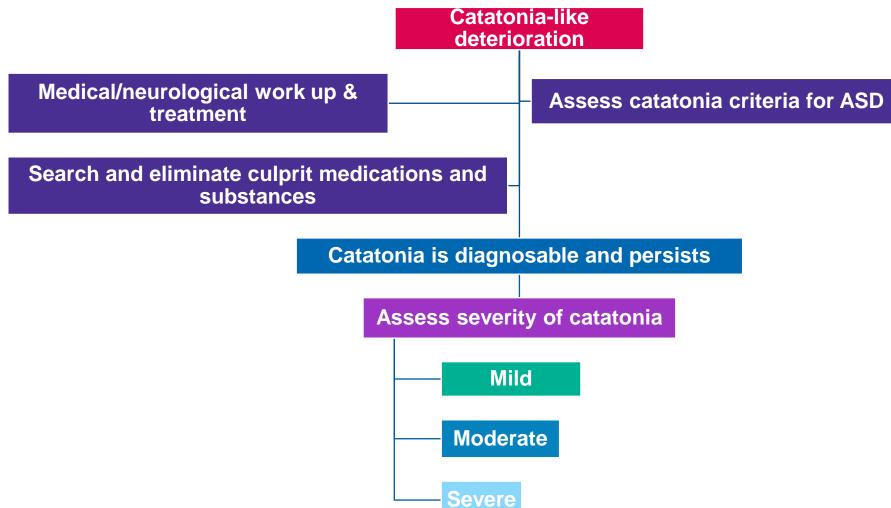
- Autism and Stress?
- Consumer awareness when catatonic?
- Mental health staff knowledge of catatonia and / or Autism?
- Assumptions / biases?
- Treatment of catatonia in ASD?





# Assessing and Treating Catatonia

#### **Assessment of Catatonia in Autism**





#### **Bush Francis CRS**

- 1. Observe patient while trying to engage in a conversation.
- 2. Examiner scratches head in exaggerated manner Echopraxia?
- 3. Examine arm for cogwheeling. Attempt to reposture, instructing patient to "keep your arm loose" move arm with alternating lighter and heavier force *Negativism Waxy flexibility?*
- 4. Ask patient to extend arm. Place one finger beneath hand and try to raise slowly after stating, "Do NOT let me raise your arm"
- 5. Extend hand stating "Do NOT shake my hand" *Ambitendence?*
- 6. Reach into pocket and state, "Stick out your tongue, I want to stick a pin in it" *Automatic obedience?*
- 7. Check for grasp reflex
- 8. Check chart for reports of previous 24-hour period. In particular check for oral intake, vital signs, and any incidents.
- 9. Attempt to observe patient indirectly, at least for a brief period, each day.



#### **Treatment of Catatonia**

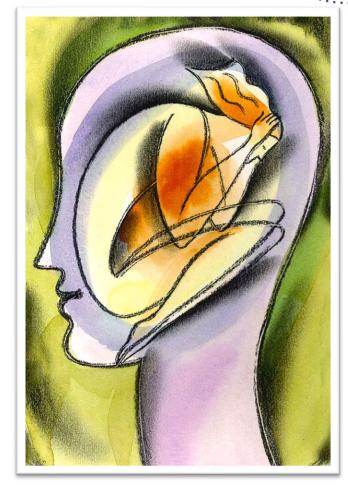


- Identify catatonia and exclude other diagnoses
- Assess severity of catatonia
  - Is there a medical emergency due to dehydration/malnutrition?
  - Aré features of malignant catatonia present (e.g. fever, altered conscious state, autonomic instability, stupor)?
- Cease antipsychotics / other medications that may be contributing
- Lorazepam
- **\***ECT
  - Acute
  - Sometimes maintenance may be required



#### Treatment of Catatonia Specific to Autism

- Lorazepam and ECT may be less effective in ASD, particularly in the absence of anxiety. Psychological approaches to chronic catatonic deterioration in ASD include:
- effective management of ASD (structure, routine)
- avoidance of forced choice
- stress reduction
- external prompts (especially with feeding)
- physical activity with rhythmic and repetitive movements
- physical assistance to relinquish fixed postures



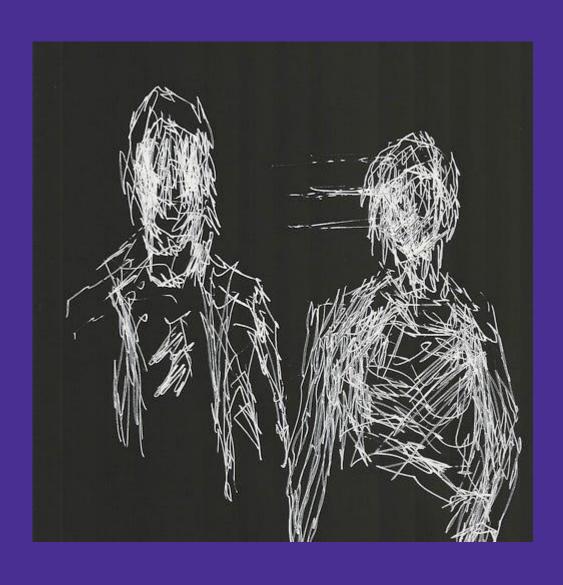
Artwork by Leon Zernitsky



#### Recommendations

- Recognise what catatonia looks like and when catatonia may be present.
- Recognise it as a risk factor for NMS
- Recognise that catatonic complications of mental illnesses may need specific treatment.
- Suspect catatonia in adolescent/youth autistic regression
- To own a duty of care and advocacy.
- Question whether an Autistic consumer's presentation may be due to or affected by catatonia.
- Reflect on your own biases and assumptions about Autism and catatonia.





"Shape without form, shade without colour Paralysed force, gesture without motion

. . .

Between the idea
And the reality
Between the motion
And the act
Falls the Shadow"

(T.S.Eliot, The Hollow Men)

#### Conclusion

• TBC



Artwork by Van Lanigh

## Thank you

 For a copy of these slides, please email vdds@svha.org.au with subject header "Please send Catatonia slides"

#### References

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### **Further Reading**

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