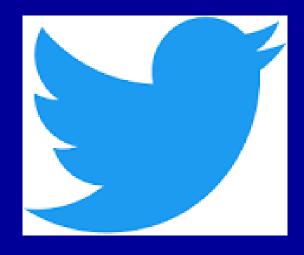
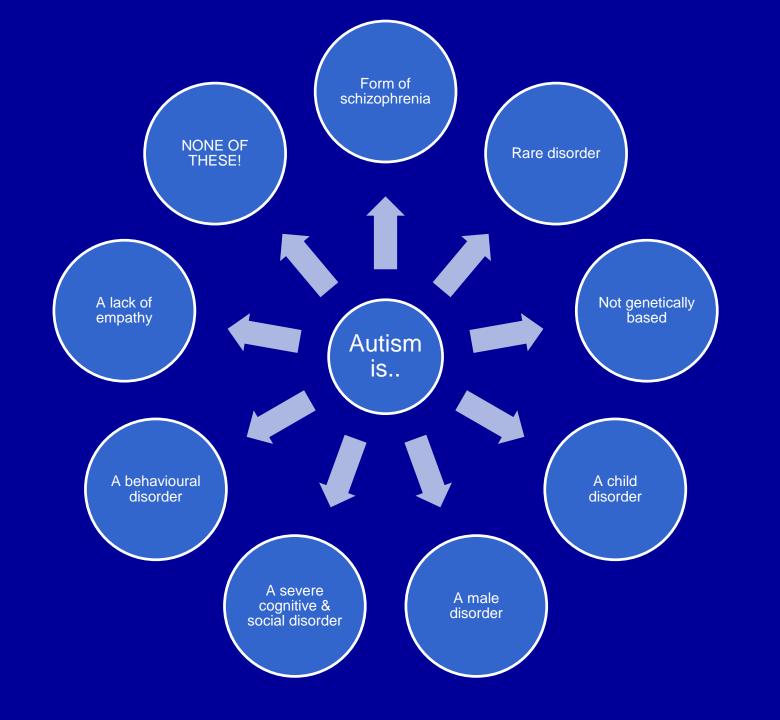
Eight Decades of Autism







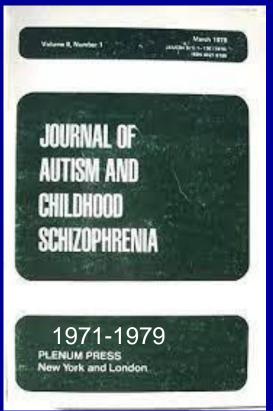
Patricia Howlin
Pre- INSAR Meeting, Stockholm
May 2023



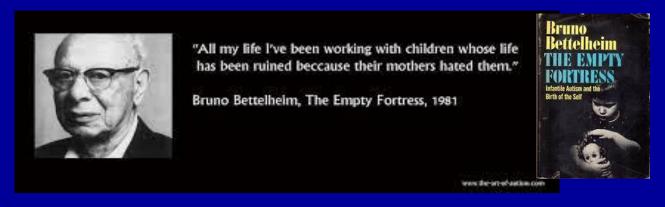
1.Autism- a form of childhood psychosis/ early schizophrenia



• Kanner (1949)" I do not believe that ... early infantile autism will at any future time have to be separated from the schizophrenias"



"Early Childhood Schizophrenia" "Childhood Psychosis"



1940-50's: Schizophrenia Parenting style/ emotional coldness

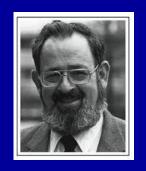
- Psychoanalysis for parents and/or children
- Removal of children to long-stay institutions
- Drug and medical treatments (including ECT) as used for schizophrenia



Changing views

(1965) "Infantile autism has an identity of its own"

• Rimland (1964) "Infantile autism and childhood schizophrenia are separate and quite unrelated"



• Rutter (1972) The term "Childhood schizophrenia" has ceased to have any scientific meaning".... belongs to "the history of psychiatry."

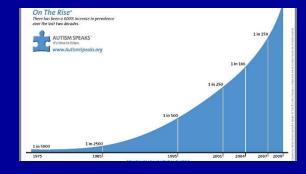
2. Autism- a rare disorder

Estimated prevalence

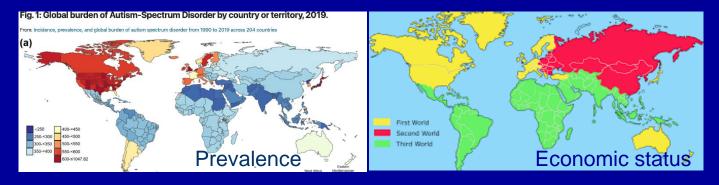
1970's 2-4 per 10,000, ~ **0.02%**

2022 Zeidan et al. ~1%

But varies across the world –



Lower in <income countries (Solmi et al. 2022)



World discrepancies - major implications for identification & intervention. What are the factors (e.g. gender/early mortality/ services/ etc) that influence prevalence data? (Solmi et al., 2023)

3. Autism- not associated with physical or genetic causes

- Kanner (1951) No evidence of congenital, cerebral or other physical illnessses. Enquiry into the hereditary element "entirely useless"
- Rutter (1972): Notes "potential influence of organic brain dysfunction" but also the "possible adverse influences in the home, the school, and the community"
- Rutter & Bartak (1971) "Genetic studies ...disappointingly limited (although may be) a genetically determined type of autism that constitutes a small subgroup of autistic disorders"
- Folstein & Rutter (1977) first twin studies on "Genetic influences and infantile autism"



• "Autism one of the most highly heritable disorders with negligible shared environmental contributions. rare variants of large effect size & small effect common gene variants all contribute to autism risk. These discoveries challenge traditional diagnostic boundaries and highlight huge heterogeneity in autism. Thapar & Rutter (2021)



- Rutter (1967) Autism rare in other genetic conditions (e.g. Down syndrome /Cerebral palsy)
- Now: Significantly increased rates of autism in many genetic conditions
 - Cornelia de Lange, Rubinstein Tabi, Prader Willi,
 Smith Magenis, FraX, Down syndrome & many others (Bozhilova et al., 2023)
- Challenges for identification, diagnosis & intervention





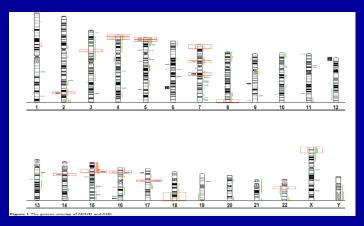








ADHD (exclusion criterion for autism until DSM-5) Co-occurrence in 50% to 70% Significant genetic overlap (Stam et al., 2022)



- Combination may = more disturbance, disruption to education etc.
- Effects of interventions (drug +/- social, behavioural) less predictable
- (Hours et al, 2022)

4. Autism- a childhood disorder





















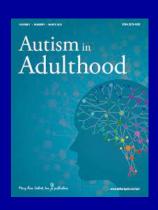


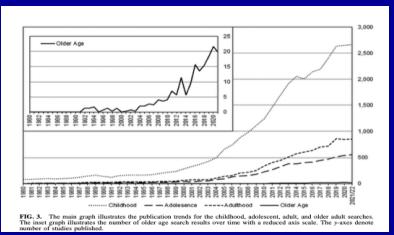


Autistic scientists, teachers, medics, researchers, innovators, writers, actors, artists, musicians, comedians, influencers, environmentalists, technology, computing, wealthy philanthropists, wealthy non-philanthropists

- Changes in specification of diagnostic criteria:
- DSM-IV
 Evidence of "Delays or abnormal functioningprior to 3 years"
- DSM-5
 - "Symptoms may not become fully manifest until social demands exceed limited capacities, or may be masked by learned strategies in later life"

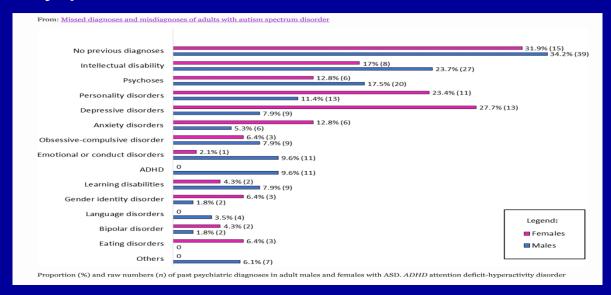
Adult research increasing- but still very limited (especially for older adults)





"Older adult" papers <1% of all autism research" (Mason et al., 2022)

- Increasing numbers of late- diagnosed adults (especially wonen)
- Many personal accounts refer to earlier misdiagnoses



N= 161; Median IQ 100 (30-145); Age :Ist diagnosis 13 yrs (range 1-50yrs); autism diagnosis 23 yrs (18-55yrs). Previous diagnoses ID; psychoses, personality disorders

Fusar Poli et al (2022)

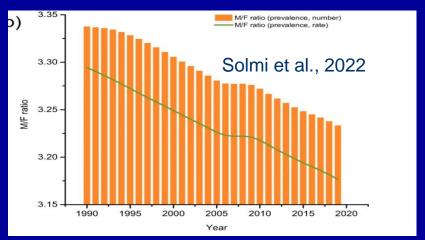
Impact of late diagnosis

- Childhood- adolescence: > Social exclusion, bullying, isolation, mental health problems
- Adulthood-Response to late diagnosis mostly positive
 - (Huang et al., 2020- sytematic review of 82 studies)
- Relief & >understanding of difficulties for individuals & families/partners
- Increased self esteem/ self-worth/ feeling of belonging/ empowerment
- >Access to
 - support & interventions for mental health problems
 - autism groups/forums
 - social & environmental adaptations (work college, family)

5. Autism- a male disorder

- Initial estimates 4:1 (?10-1 in high IQ groups).
- Now ~ 3:1 and falling

(Burrows et al., 2022 Loomes et al., 2017, Posserud et al., 2022)



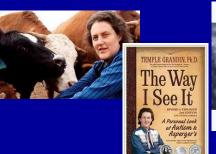
- DSM-5 recognises issues of diagnosis in females "Girls without accompanying intellectual disability or language delays may go unrecognized, perhaps because of subtler manifestation of social and communication difficulties"
- And patterns of interests(makeup, pop stars, films)

- 1980-90's influential females regarded as "exceptions" rather than examples of how autistic women feel/ act/ achieve
- Early accounts/ research- few references to femaleshighlighted more severe intellectual impairments
- Gradual awareness of :
 - male: female differences;
 - inadequacy of standard assessments/ diagnostic instruments (Milner et al., 2023)
 - camouflaging- & impact on mental health/ quality of life
 (Cook et al. 2021, Tubio-Fungueiriño et al., 2021)

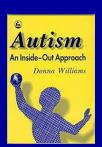












6. Autism- a severe cognitive & social disorder

- Kanner (1943/1949) "Profound withdrawal from contact with people", "extreme emotional isolation", "persisent lack of responsiveness". "Symptom combination in most instances warrents an unequivocal diagnostic formuation".
- DSM-IV- TR "In most cases ...an associated diagnosis of mental retardation.. Gross deficits in language development"
- "A devastating condition" (EU Healthcare and Social Care News, Feb 2020), "Having a child diagnosed with autism can be devastating" (Stem-therapy "cure" advert 2023)
- Fact ~ 60% develop useful speech (Tager Flusberg & Kasari, 2013)
 60-70% IQ in average (70+) range (MacKay et al., 2018)

Strengths based approach to intervention/education



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- ~60% of autistic individuals have an exceptional cognitive or other skill (Uddin 2022)
 - Bal et al. (2022) 46% of 1470 children had social talent; + 23 % a personal strength
 - Memory, Visuo-spatial, Numbers/dates, Music, Spelling/reading,
 Art
- Strengths based focus can improve quality of life, mental health, educational & employment prospects
- Self reported use of personal strengths: > Qol & well being; < anxiety, depression and stress (Taylor et al. 2023; Urbanowicz et al,2019)
- ? How best to enhance/facilitate this potential for education, work, social integration (Halder et al., 2022)

7. Autism -a behavioural disorder

Implications for intervention...



"You see, you start pretty much from scratch when you work with an autistic child. You have a person in the physical sense - they have hair, a nose and a mouth - but they are not people in the psychological sense. One way to look at the job of helping autistic kids is to see it as a matter of constructing a person. You have the raw materials, but you have to build the person."

Ivar Lovaas, a founder of ABA

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Time out; extinction; withdrawal of rewards; physical punishment, electric shock



Limited involvement of /high demands on families Unwarranted claims

"Normal intellectual and educational functioning" in 47% of children receiving this intervention (Lovaas, 1987)

"Early Intensive Behavior Intervention ...saves up to \$2.500,000 per individual over the lifetime". (Jacobson et al. 1998)





Also rise of "alternative" interventions



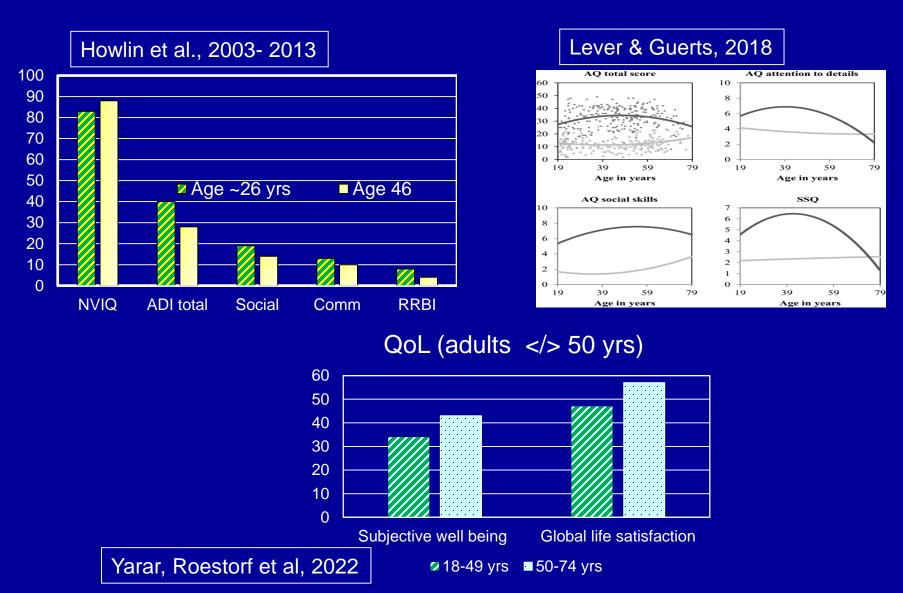
Now.... focus on adult-child synchrony, social-communication interaction, daily life issues

- But limited evidence on :
 - Long term effects- impact on adulthood
 - Optimal age (cf Guthrie et al., 2023)
 - Optimal strategies which interventions work best for which children/which families



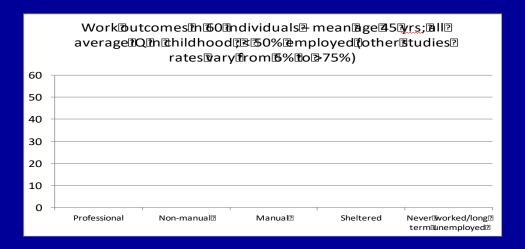
8. Autism -increased problems in adulthood; outcomes poor

Age related changes in IQ, autism traits, QoL



But:

- Higher risk of mental and physical health problems
- **General outcome**, as measured by standard assessments (independent living, jobs, relationships, Quality of Life) generally rated as poor even in comparison with other disadvantaged groups.



What is a good outcome?

- Danger of reliance on "neurotypical" norms
- Higher social/occupational attainments may come at the cost of poorer mental health; lower QoL
- Inconsistent relationships between:
 objective & subjective measures
 self & proxy reports

Need measures that "capture diversity across the spectrum…describe progress on a wide range of domains" (Georgiades& Kasari; 2018) "<u>Person-environment fit"</u> the crucial issue

(Henninger & Lounds Taylor, 2013)

9. Autism - a lack of empathy

Autism-a double empathy problem

"A different embodied way of being that can lead to effects on social interactions and understanding" (Milton [2022] The double empathy problem: 10 years on.)

"Misperceptions by the typical majority "— lead to isolation, & affect health and behaviour of autistic people. (Mitchell et al., 2021)

Autism-a double empathy problem

Needs – Milton et al.2021

- A more continuous understanding of neurodiversity and 'recognition' not 'diagnosis' of autism
- Identify sources of mutual misunderstanding
- Awareness of how differences in the social lifeworld of autistic and non- autistic unfold at the macro (i.e. lifespan/development) and micro level (e.g.social relationships at work or school).
- Inclusion of both autistic and non- autistic stakeholders in every stage of future research

10. Autism – NOT A DISORDER!

 "Paradigm shift" in autism research- from "normal science" to "neurodiversity in autism science"





Pellicano, den Houting, 2022

- Focus on Neurodiversity/ Neurodivergence includes...
 - strengths-based approach not focus on areas of difficulty
 - recognising & exploring bias in autism research
 - language that avoids negative value judgements
 - learning and using ideas, theories, and concepts used by autistic people
 - collaborating with community stakeholders using participatory methods. (Dwyer;2022)

Need

 social, environmental & attitudinal changes among the neurotypical population to meet the needs/facilitate the development of those who are neurodiverse

 and undo the long-term damage of early concepts and "treatments" for autism (Anderson, 2023)



"You see, you start pretty much from scratch when you work with an autistic child. You have a person in the physical sense - they have hair, a nose and a mouth - but they are not people in the psychological sense. One way to look at the job of helping autistic kids is to see it as a matter of constructing a person. You have the raw materials, but you have to build the person."

Ivar Lovaas, a founder of ABA

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Identity (Autism) or Person First Language? (IFL vs PFL)

- US/ UK on-line surveys preference for IFL (Taboas et al.(2022) <u>Autism</u> Survey. N=728. 87% >IFL)
- Netherlands (Buijsman et al. 2022): N=1300; 68% adults; 82% parents >PFI (younger, higher IQ adults more likely to prefer IFL)
- Age, culture, and personal choice all important- suggest researchers use a mix of language - clinicians be guided by individual's personal choice

IFL reflects more positive self-perception of autism

- "It defines who I am"
- "Autism makes me who I am. ...an integral part of who I am. It affects the way I think, communicate and socialise".
- "Identity versus person shouldn't be a thing because they are one and the same. I am autistic. It's not an item I carry, can put down, it's who I am."
- "Autism makes my brain work somewhat different at a fundamental level, and thus it is fundamental to who I am. Identity first all the way for me. Plus it's much less clunky to say."
- (Botha et al 2020; Keating et al., 2022)

Family of 50 yr old, severe intellectual and communication difficulties. Told by social services that their language was "disrespectful"

"He's NOT an autistic, he's my son/grandson /brother ...its him that makes him what he is, why we love him..... not his condition"



