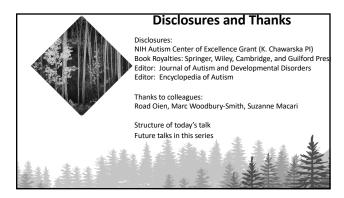
Seeing the Forest AND the Trees: Diagnostic Complexities in the Age of DSM-5

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Overview

- The 'Discovery' of Autism and Origins of the Broad vs. Narrow Concept
- II. From Kanner to DSM-III
 III. The Origins of DSM
 IV. From DSM-III to DSM-5 From Kanner to DSM-III (1980)
- DSM-5 and its Impact Current Controversies
- I. Broader Autism Phenotype II. Asperger's
- III. Age and IQ related issues: adults, infants
- IV. Gender V. Culture
- VII. Summary Where to go from here!

Could we infer the forest from a leaf?

The 'Discovery' of Autism vast tonere autism before kanner?

• Early reports of feral children – date from Roman times if not before

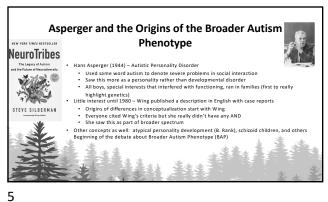
• Victor – the Wild Boy – reported on by Itard may be first reported case

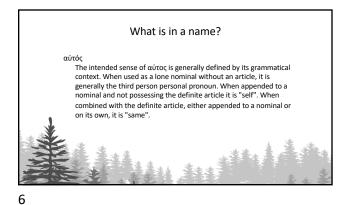
• Donvan and Zuker – In a Different Key – found reports from state training schools in the 1800s Leo Kanner (1943) gave the classic description of "early infantile autism" Leo Kanner (1943) gave the classic description of "early infantile autism"

Two essential features:
Autism
Insistence on sameness/resistance to change
Also noted the language/communication issues
Believed it was inborn

Some false leads:
Impression of normal levels of intelligence — did well with SOME tasks on IQ tests
Not evitaged to medical conditions
In early cases parents were all very successful and well educated

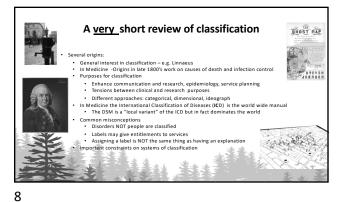
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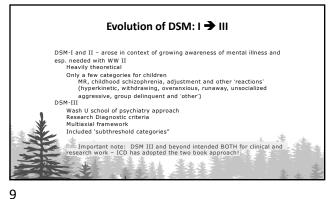




Early Development of Autism as a Diagnostic Concept Evolution of concept ? Continuity with Childhood Schizophrenia (official term for autism before 1980 Some aspects of Kanner's report Research in the 1970's helped establish the validity of autism as a diagnostic concept Autism was RANIA MASEO — high rates of epilepsy, often in teenage years Autism was STRONGLY GENETIC — much higher rates in identical vs fraternal twin Autism responded best to STRUCTURED TEACHING rather than unstructured Extremely rare (esp. before puberty) Onset much later than autism Different in clinical features and family history as compared to autism tempts in the 1970's to develop explicit guidelines for diagnosis Rutter (1978) Social and language features (not due to MR), restricted interests and early onset Ritvo (NSAC, 1978) unusual rates & sequences of development, sensitivities to

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DSM-III - Recognition of Autism

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- First recognition of "Infantile Autism"
- New overarching class of disorder to which this belonged: the
 - Pervasive Developmental Disorder
 - Infantile Autism/Residual Infantile Autism
 - Childhood Onset PDD/ Residual COPDD
 - Atypical PDD (subthreshold but essential Broader Autism Phenotype- BAP)

Problems:

Great to have recognition BUT lack of developmental orientation and complexities of diagnosis

From DSM-III to DSM-IV

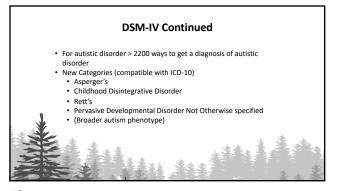
- Problems in DSM-III quickly recognized
- DSM-III-R (1987) Autistic Disorder
 - Better name, more criteria (3 areas), more flexible, more developmental
 - Problems a bit overly broad esp. at ends
- DSM-IV (1991) major redo of whole book For autism several steps: invited reviews, data
- reanalyses, working WITH ICD-10 revision
- Field Trial



- International effort
 - 21 sites, 125 rates, almost 1000 cases
 - Info on case and raters
 - Clinical diagnosis
 Rater info/experience
 Case information
 - Ratings of various criteria sets
 - Final set: 12 items (3 areas: social, communication,
 - restricted behaviors), at least 6 (2 from social) Note: good reliability with experienced clinicians, good interrater reliability, and results of factor analyses

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Asperger's Disorder: 1944 –1994

- Little interest until Wing's 1981 paper
- Suggested modifications, case reports, issue of continuity with autism – several views arose
 Subsequent research limited in several ways

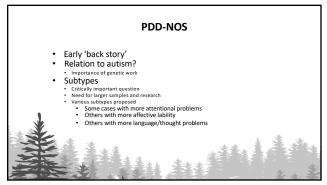
 Small samples, tendency towards circularity in findings
 Inconsistent approaches and terminology
 Convergence with other concepts:
- - - NLD, Right Hemisphere Learning Disability, Semantic-Pragmatic Processing Disorder, Schizoid

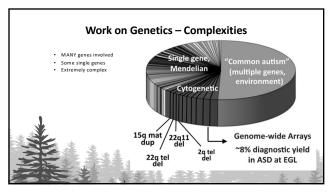
personality DSM- IV Field Trial

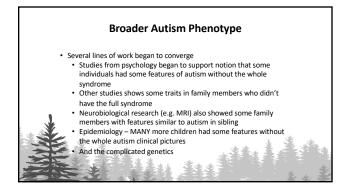
About 50 cases, significant differences from autism and PDD-NOS

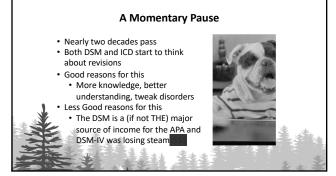
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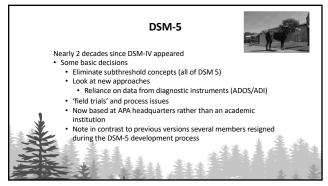
Asperger's Disorder • Considerable resistance to inclusion • DSM-IV definition somewhat problematic • Complexities with several views of best approaches to diagnosis: "verbal" autism, PDD-NOS, something more unique and different from autism · At least 6 different approaches! But it was included and research and clinical interest as well as public awareness started to increase dramatically



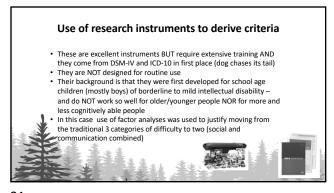


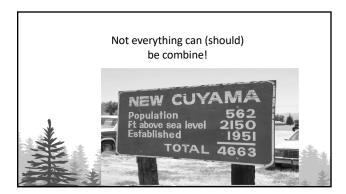






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Drop PDD in favor of Autism Spectrum Disorder A welcome change but not the singular rather the plural Overall decision

- ONLY autism spectrum disorder
- Drop Asperger's, drop PDD-NOS
- New social communication disorder diagnosis
- For Autism Spectrum Disorder

 Changes in approaches Mo
- Changes in approaches Move from 3 categories to 2

DSM-5 Decisions

- New sensitivities criterion
- From polythetic to mixed decision
- Specifiers to denote levels of severity
 - Moves from over 2200 ways to 12 ways to get diagnosis

Impact of DSM-5

Mattilla et al 2011 (JAACAP 2011 583-592

• First study of DSM-5 but DID not use final criteria set

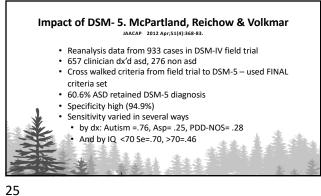
• epidemiological study 5,484 8 year old (Finland)

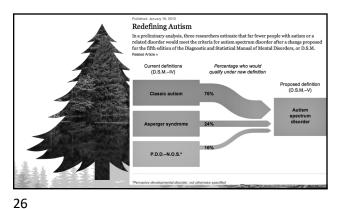
• Large group had ASSQ, 110 seen for assessment,

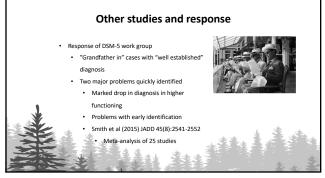
• Looked at DSM-IV and DSM-5, separate analysis IQ <> 50

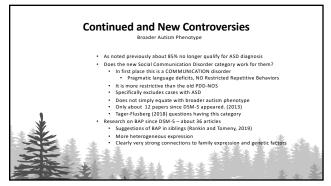
• DSM-5 under diagnosis in those with higher IQ – DSM-5 (draft) had major issues

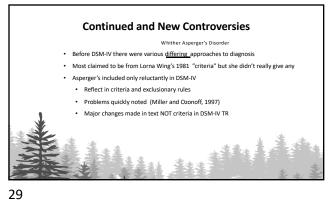
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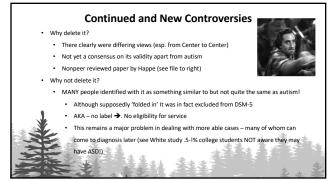


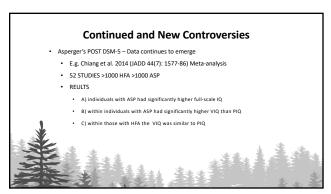


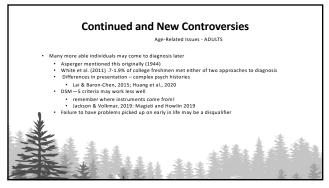


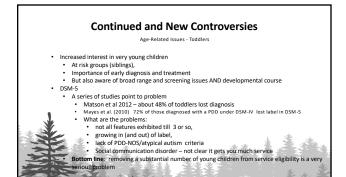




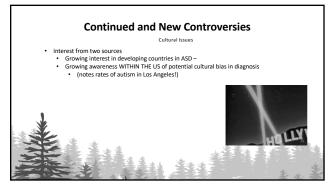








Continued and New Controversies Gender Related issues Implicit assumption that critieria are agnostic to gender BUT is this true? Dworzynski et al., 2012 Females with ASD require more symptom severity and greater impairment BUT Females more likely to exhibit internalizing behaviors than boys(Mandy et al., 2012 Females may be better at 'camouflaging' than males (Bargiela et al., 2016). Prevalence studies consistently show male predominance but Females less likely to engage in RRBs than males(Charman et al. 2017) Males show more externalizing behaviors (Mandy et al. 2012; Solomon, Miller et al. 2012) Females may have better joint attention, few sensory behaviors(Oien, Hart et al. 2017) Females smy have better social skills (charwarska et al. 2012) Females fewer RRBs Frazier et al. 2013, Mandy et al. 2012 Gender differences on screening items in large population samples (Oien et al 2017) Bottom Line: There may have been (and continue be) unintended but systematic bias against diagnosis in females with autism!



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