

Neurodevelopmental Disorders associated with FASD

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Learning Disabilities
Services

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Declaration of interest related to FASD

Non Payment Activities

- Medical Advisor to FASD charities
- Scientific advisor to various FASD international and national conferences
- Executive member of the UK FASD professionals network

Paid Activities

- Lead Clinician National FASD Behavioural Clinic (NHS)
- Honoraria received from conference presentations from
 - Pharmaceutical Companies
 - Charities related to Adoption and Fostering
 - Private education consultancies
- No Formal ongoing contract exists with any of the above other than FASD clinic



2011 data and concepts

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Measures used in the clinic

- 4 Digit FASD analysis
- (3d Facial recognition)
- Semi structured FASD history Questionnaire
- SCQ (ASD screen)
- DISCO (ASD assessment)
- ADHD Screening Questionnaire
- DBCL
 - Parent
 - Teacher
- Vineland II
- Short Sensory Profile
- WAIS IV / WISC IV
- Delis Kaplan Executive Function Tests
- CELF 4 (3 initially)
- TROG
- Social Interpretation cards
- PSI
- CCC
- BRIEF



Top down or bottom up ?

Top Down: Phenomenology

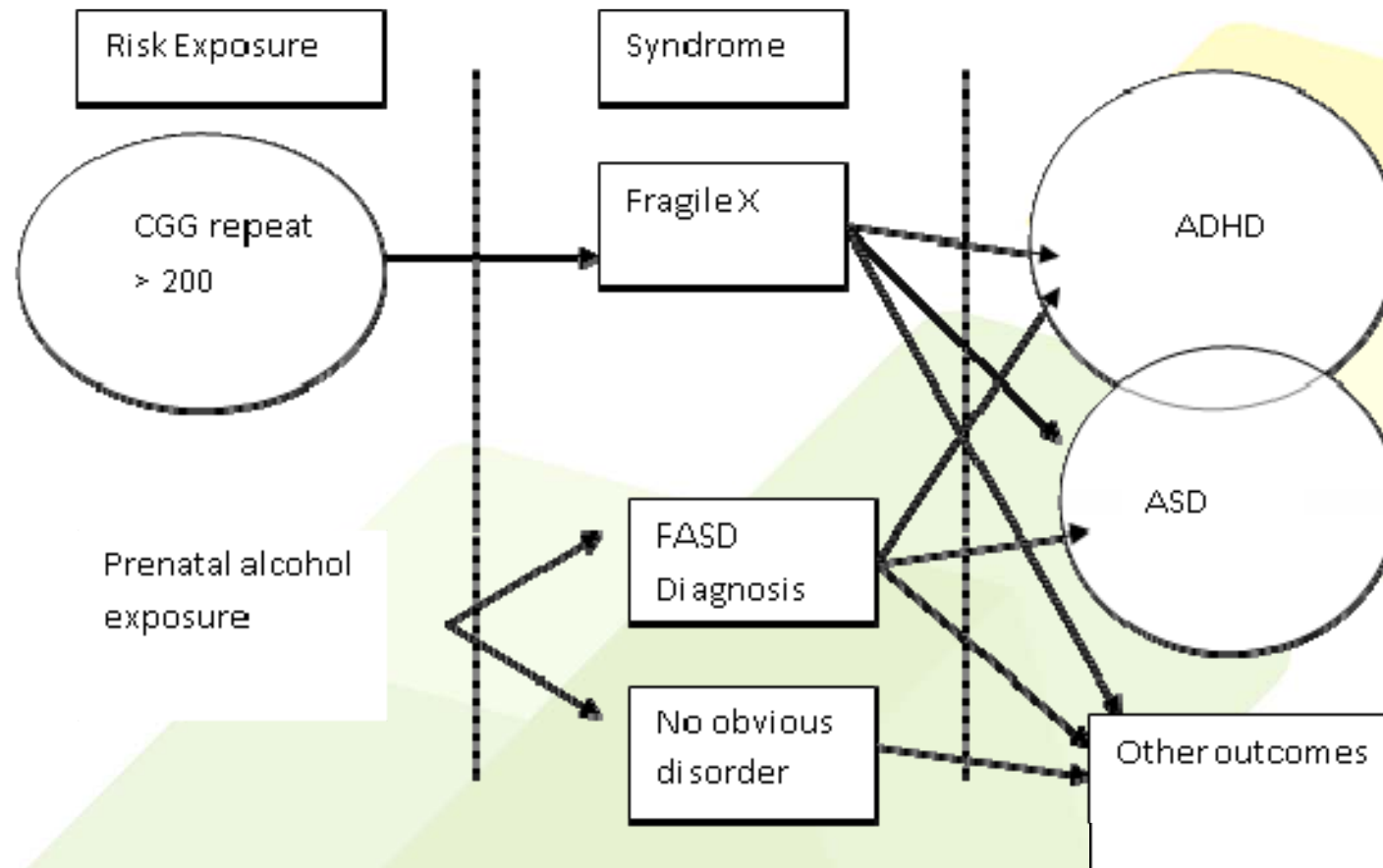
Symptoms / Function

Bottom Up: Aetiology



Relationship between disorders

(Chapter 13 FASD Inter professional perspectives Raja Mukherjee)



2011 Findings (Mukherjee 2011)

- 21 cases
- 16 (72%) met criteria for ASD
- Not typical presentation and more wider presentation
- Pre DSMV changes



2017 Clinic Audit update

Total Group Audit n = 106

Being developed for publication

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Clinic demographics (last data update full n=106)

➤ Gender

- Male: 62 (58.5)
- Female :44 (41.5)

➤ IQ level

- Normal Range: 38 (38.5)
- Borderline: 54 (50.9)
- Mild ID: 12 (11.3)
- Moderate/Severe ID 2 (1.8)

➤ Age group

- <10: 46 (43.4)
- 10-14: 38 (35.8)
- 15-19: 14 (13.2)
- 20+ 8 (7.5)

➤ Parent type

- Birth: 12 (11.3)
- Adopted: 94 (88.7)



ASD Diagnoses n=101

57.4% of group meet criteria for DSMV ASD using DISCO

SCQ % scoring

46.7 >15

54.7 >13

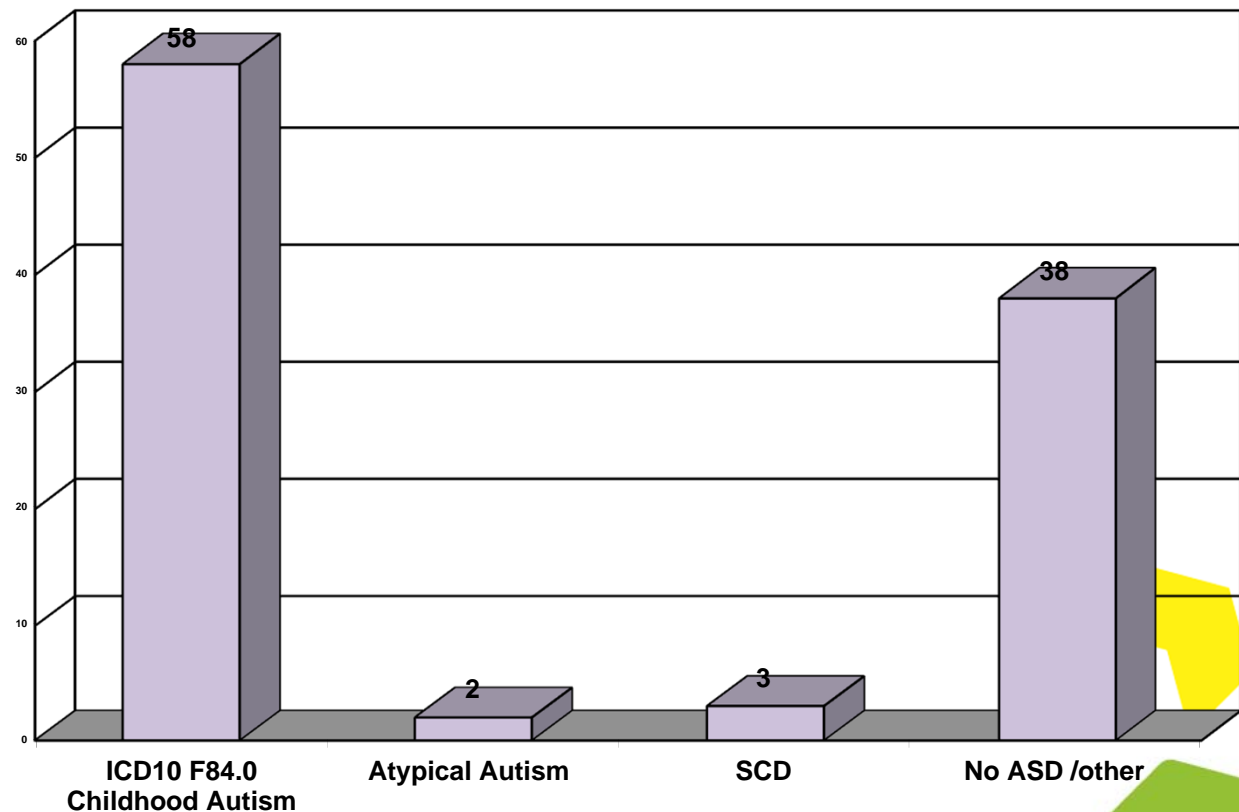
62.7 >11

Median 15

IQR 11

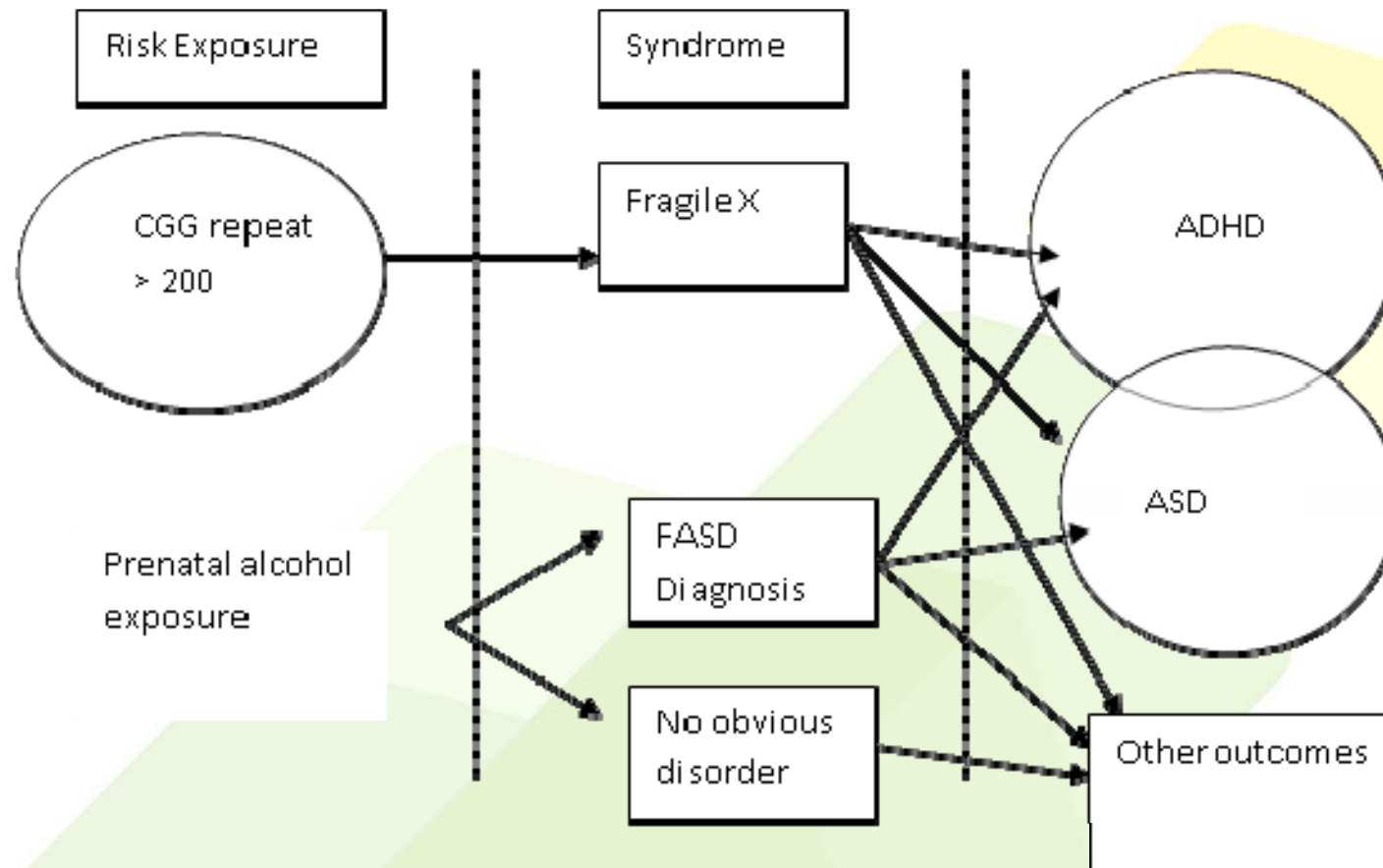
Range 1-32

No difference by Age,
Gender, IQ level or
parent type



Relationship between disorders

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An example of complexity that needs to be understood

Different types of social functioning
In people on the Autistic Spectrum

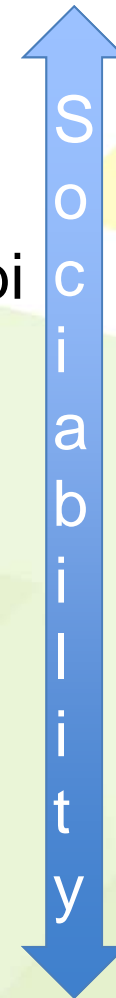
Angelmans

Runbenstein Taybi

Fragile X

High

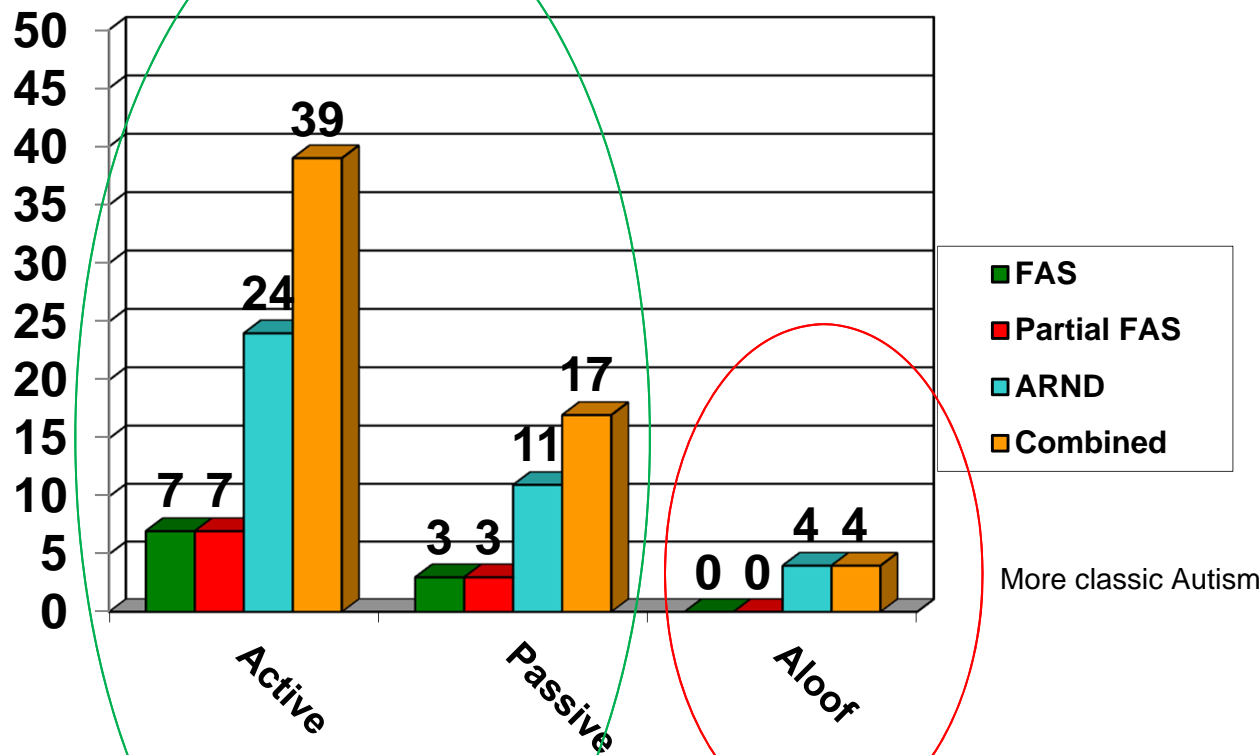
Low



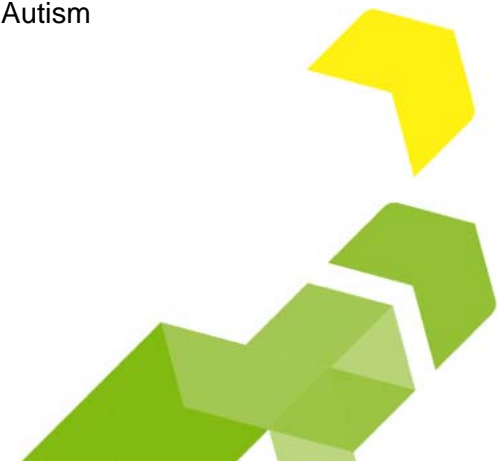
Wider ASD spectrum

Type of Social Impairment

:From DISCO scoring



More classic Autism



An example of complexity that needs to be understood

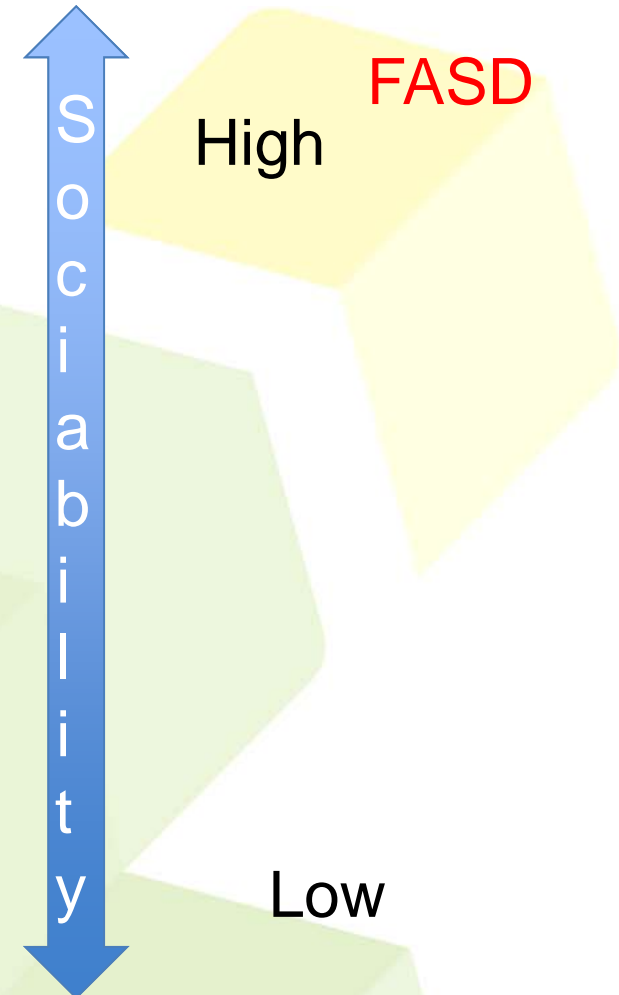
Different types of social functioning
In people on the Autistic Spectrum

Angelmans

Runbenstein Taybi

Cornelia De Lange

Fragile X



ADHD

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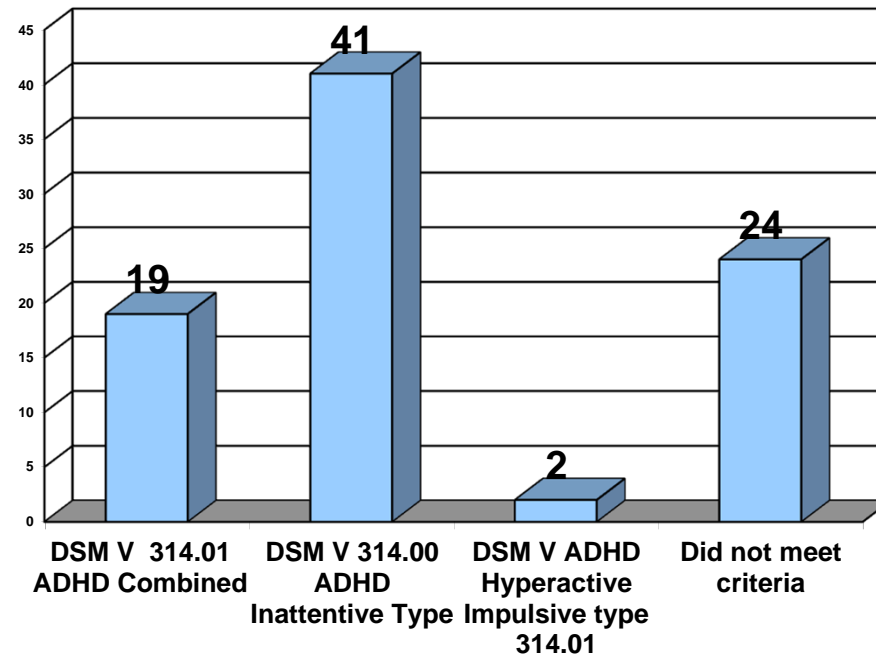
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ADHD

72.1%
present with
ADHD

N=86

No significant
difference by age
or diagnosis



	Combined	Inattentive	Hyperactive
Male	15	20	2
Female	4	21	0

Chi 2= 6.306, df =2, p= 0.043



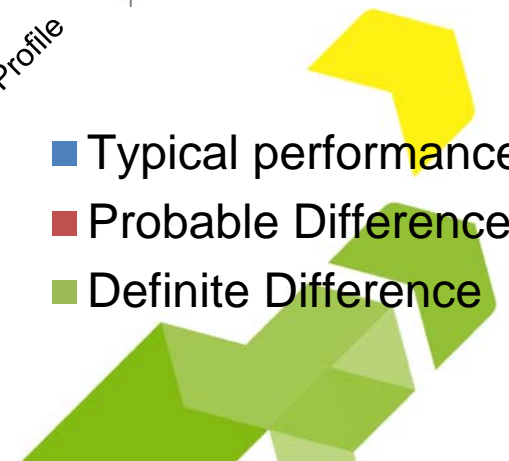
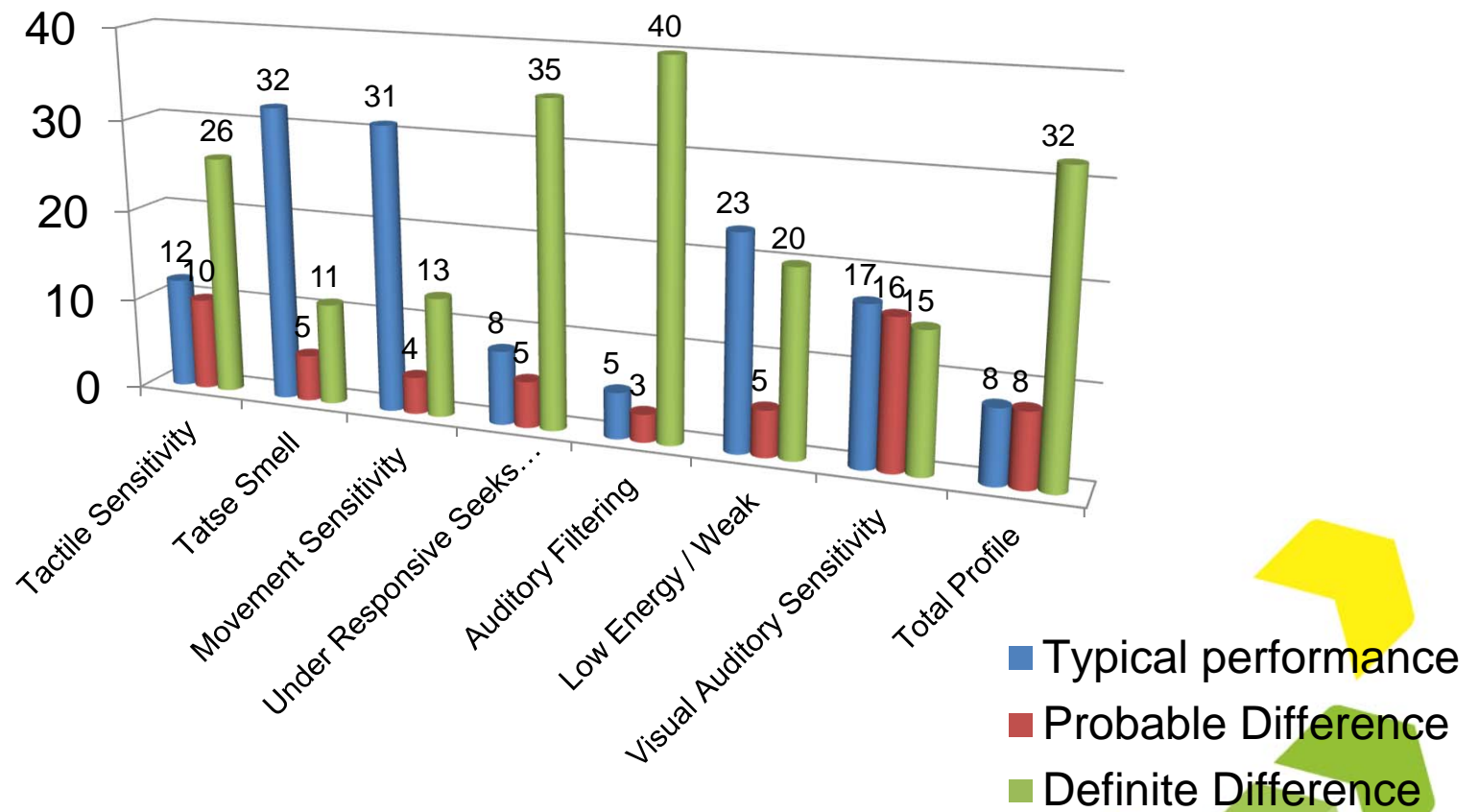
Single item analysis of ADHD diagnostic criteria: inattentive symptoms

	Percentage of Group meeting Criteria (%) Total in group (86)
Not pay attention	50 (58.1)
Fail to stick at task	13 (15.1) Can stick to self directed activity
Not listen when spoken to	47 (54.7)
Fail to Finish an instruction	61 (70.9)
Difficulties planning	75 (87.5)
Avoid areas find difficult	74 (86)
Loose things needed for task	63 (73.3)
Easily distracted	77 (89.5)
Forgetful	66 (76.7)

Single item analysis of ADHD diagnostic criteria: Hyperactive impulsive criteria

	Percentage of Group meeting Criteria (%) Total in group (86)
Sits fidgeting	55 (64)
Gets up when should sit down	30 (34.9)
Not stay still / squirm	29 (33.7)
Cannot be quiet	31 (36)
Driven by a motor	19 (22.1)
Talk excessively	32 (37.2)
Blurt out answers	55 (64)
Difficulties waiting turn	48 (55.8)
Interrupts others	71 (82.6)

Short Sensory profile (W.Dunn) n=48



Questions

