

Findings on Children's Pathways To Diagnosis and Services

NCHS Data Users Conference

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Disclosures

- I have no personal financial relationships with commercial interests relevant to this presentation
- The views expressed are my own, and do not necessarily represent those of the NIH, NIMH, or the Federal Government

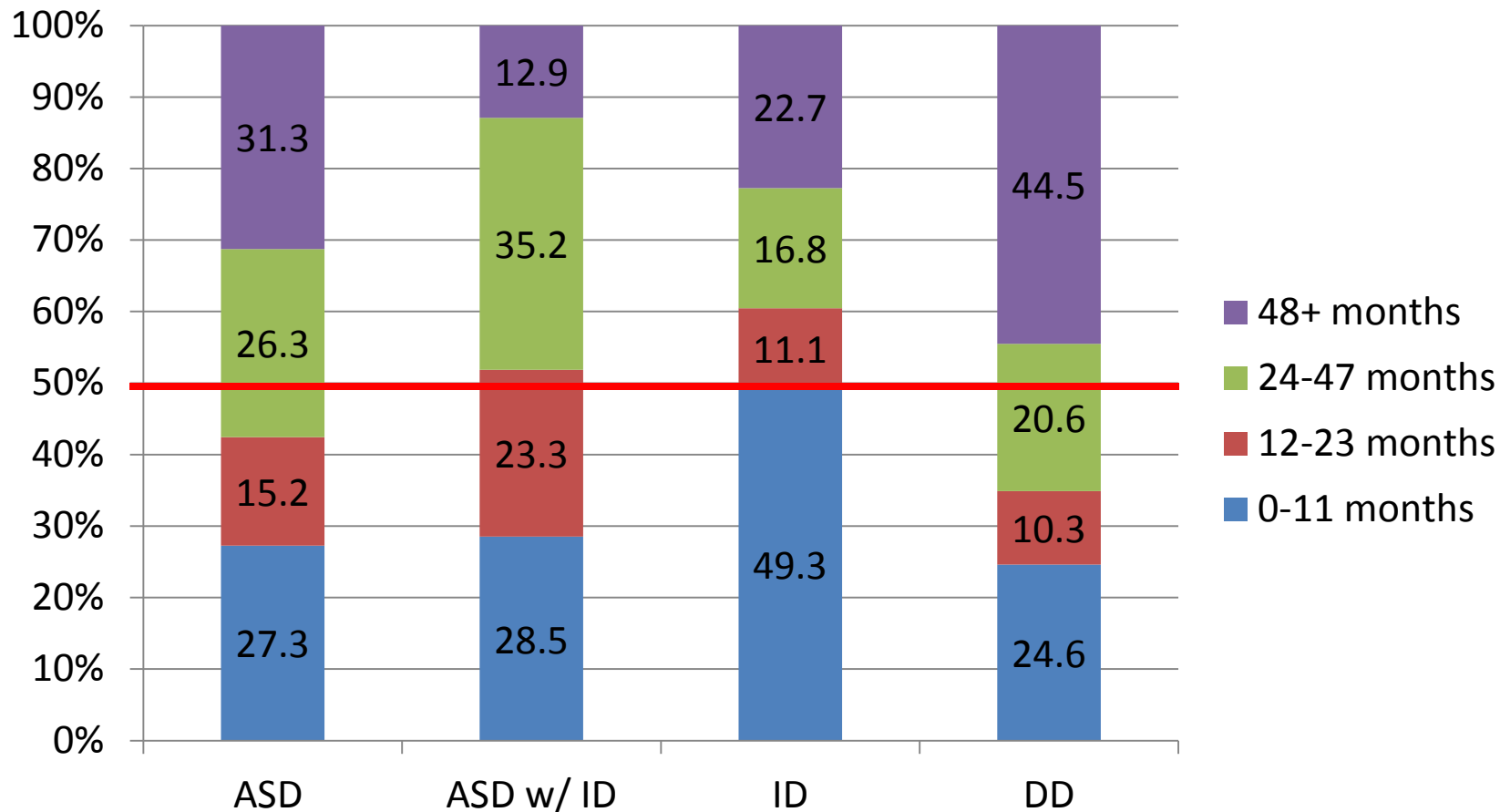
Summary of topics to be covered

- Basic demographics of 4 (mutually exclusive) groups of children
- Preliminary data on:
 - Initial problems noted by parents
 - Age of child when first diagnosed
 - Types and number of services used by children
 - Types and number of medications used by children
 - Cohort differences in age when first diagnosed

Demographics

	Autism Spectrum Disorder (N=1,117)	Autism Spectrum Disorder w/ Intellectual Disability (N=303)	Intellectual Disability (N=657)	Developmental Delay (N=1,441)
Current Age				
6-11	56.4%	48.7%	42%	50.3%
12-17	43.6%	51.3%	58%	49.7%
Gender				
Male	82.6%	80.5%	51.4%	66.9%
Female	17.4%	19.5%	48.6%	33.1%

Child's age when parent was first concerned



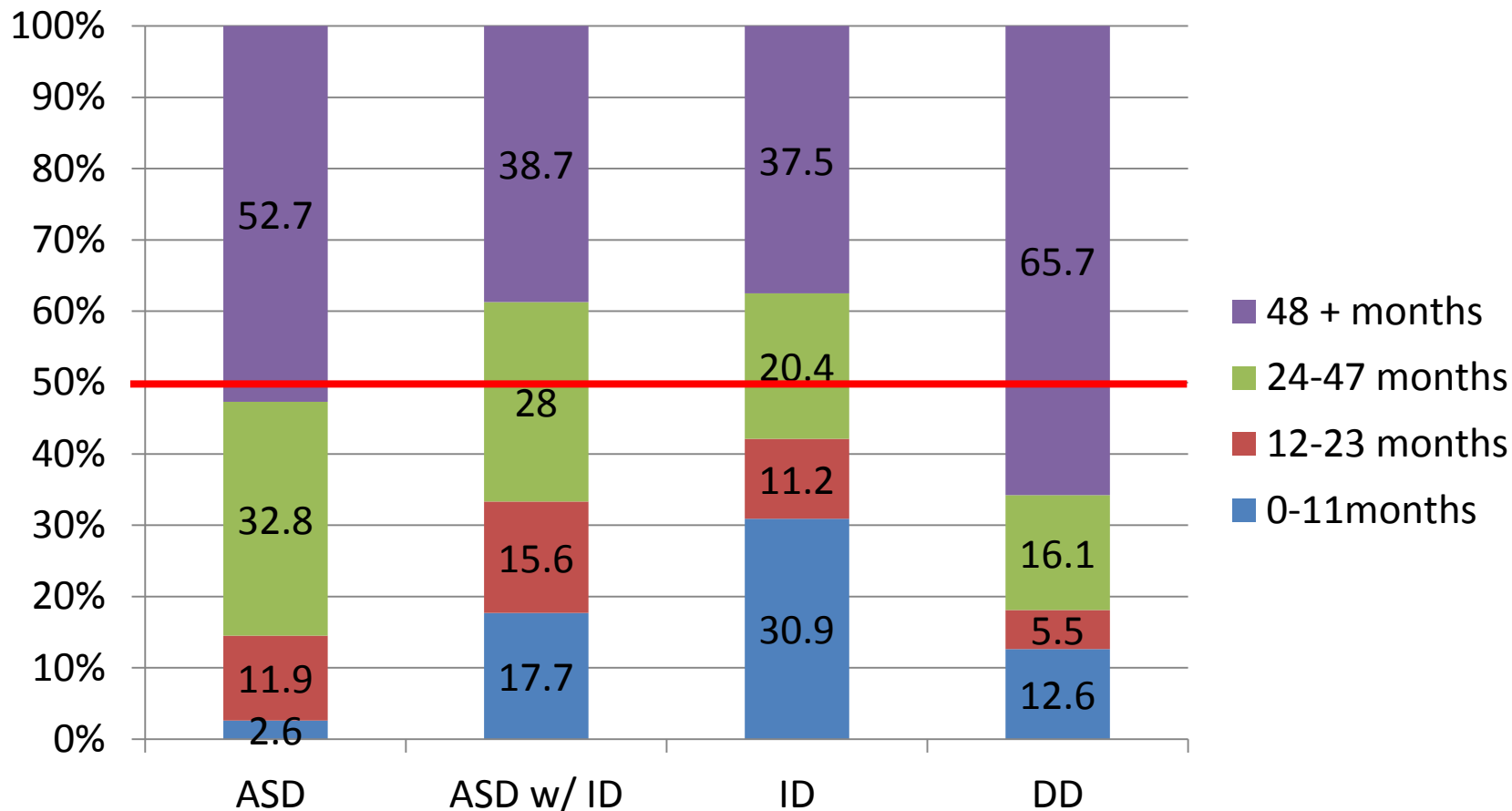
Problems noted when parents were first concerned

- Categories assessed (20 items total):
 - Verbal Communication
 - Nonverbal Communication
 - Behavioral Difficulties
 - Learning and Understanding
 - Unusual Gestures or Movements
 - Motor Skills
 - Medical problems

Most commonly noted problems when parents were first concerned

Autism Spectrum Disorder (ASD)	ASD with ID	Intellectual Disability (ID)	Developmental Delay (DD)
Behavioral Difficulties (90%)	Verbal Communication (96%)	Learning and Understanding (87%)	Behavior Difficulties (77%)
Nonverbal Communication (87%)	Learning and Understanding (93%)	Verbal Communication (85%)	Learning and Understanding (76%)
Learning and Understanding (79%)	Nonverbal Communication (90%)	Behavior Difficulties (76%)	Verbal Communication (61%)
Verbal Communication (74%)	Behavior Difficulties (86%)	Motor Skills (78%)	Nonverbal Communication (57%)

Child's age when first diagnosed with ASD, ID or DD*

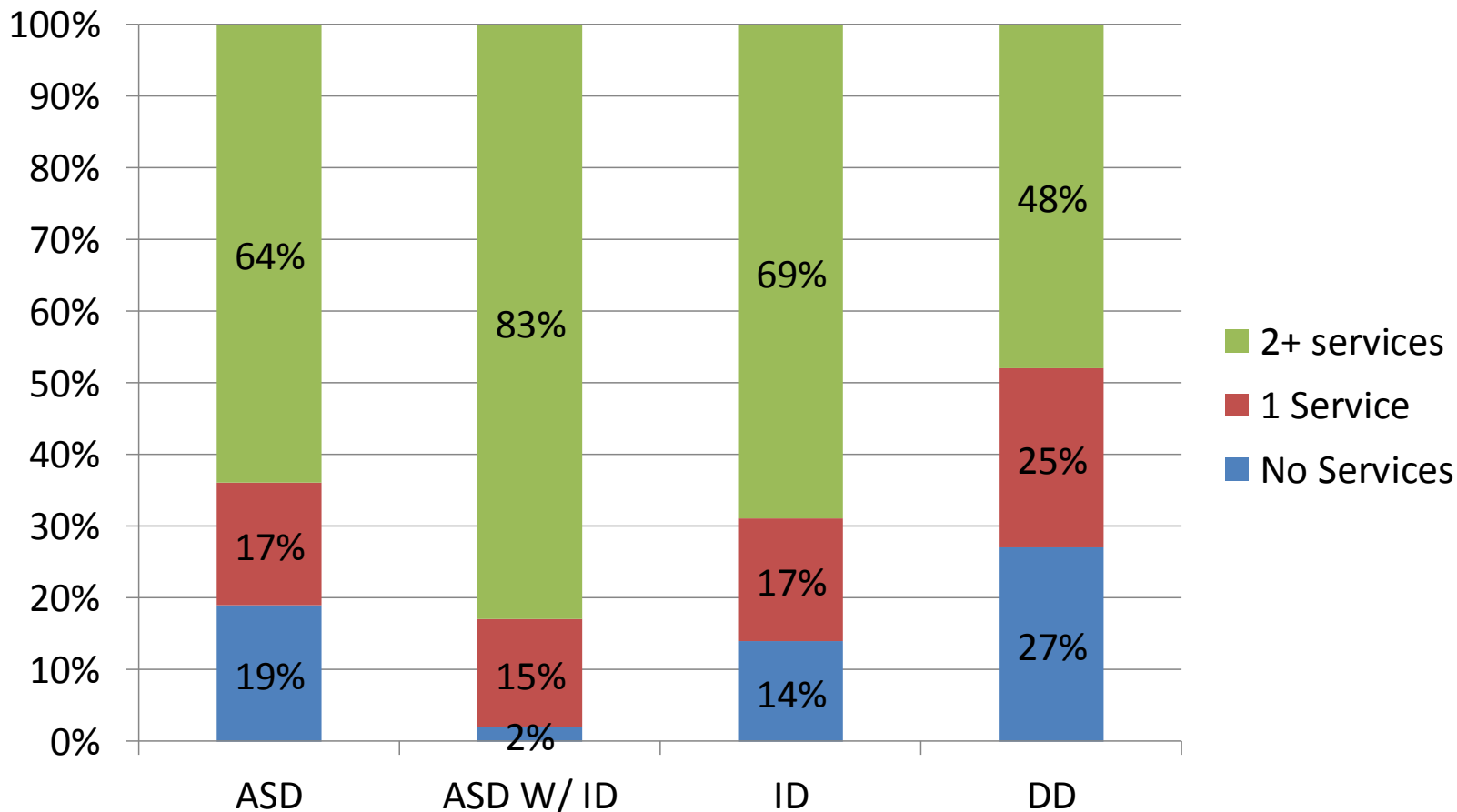


* Current diagnosis may be different from 1st diagnosis

Types of therapy or training services used

- Services assessed:
 - Behavioral intervention or modification services
 - Sensory integration therapy
 - Cognitive based therapy
 - Occupational therapy
 - Physical therapy
 - Social Skills training
 - Speech or language therapy

Number of therapy or training services currently used



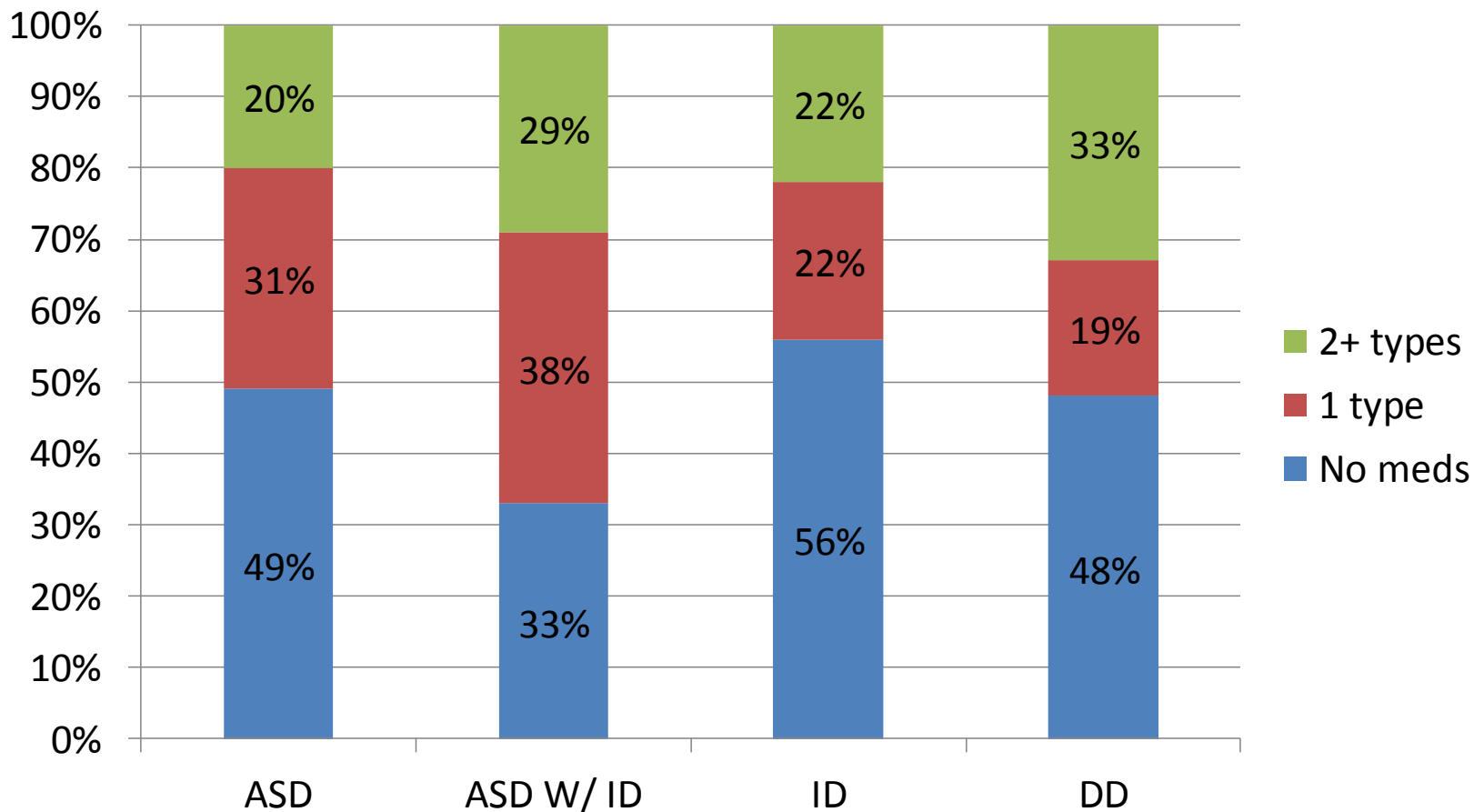
Most commonly used types of therapy

Autism Spectrum Disorder (ASD)	ASD with ID	Intellectual Disability (ID)	Developmental Delay (DD)
Social Skills (56%)	Speech/Lang (81%)	Speech/Lang (63%)	Speech/Lang (40%)
Speech/Language (51%)	Social Skills (67%)	Occupational (54%)	Occupational (36%)
Occupational (39%)	Behavioral (44%)	Social Skills (45%)	Social Skills (31%)
Behavioral (38%)	Cognitive (43%)	Physical Therapy (31%)	Behavioral (23%)
Using 1 or more services: 81%	Using 1 or more services: 98%	Using 1 or more svcs: 86%	Using 1 or more services: 73%

Types of Medication Used

- Types of medication assessed:
 - Stimulant medications
 - Anti-depressant medications
 - Anti-anxiety or mood stabilizing medications
 - Anti-seizure medications
 - Anti-psychotic medications
 - Sleep medications

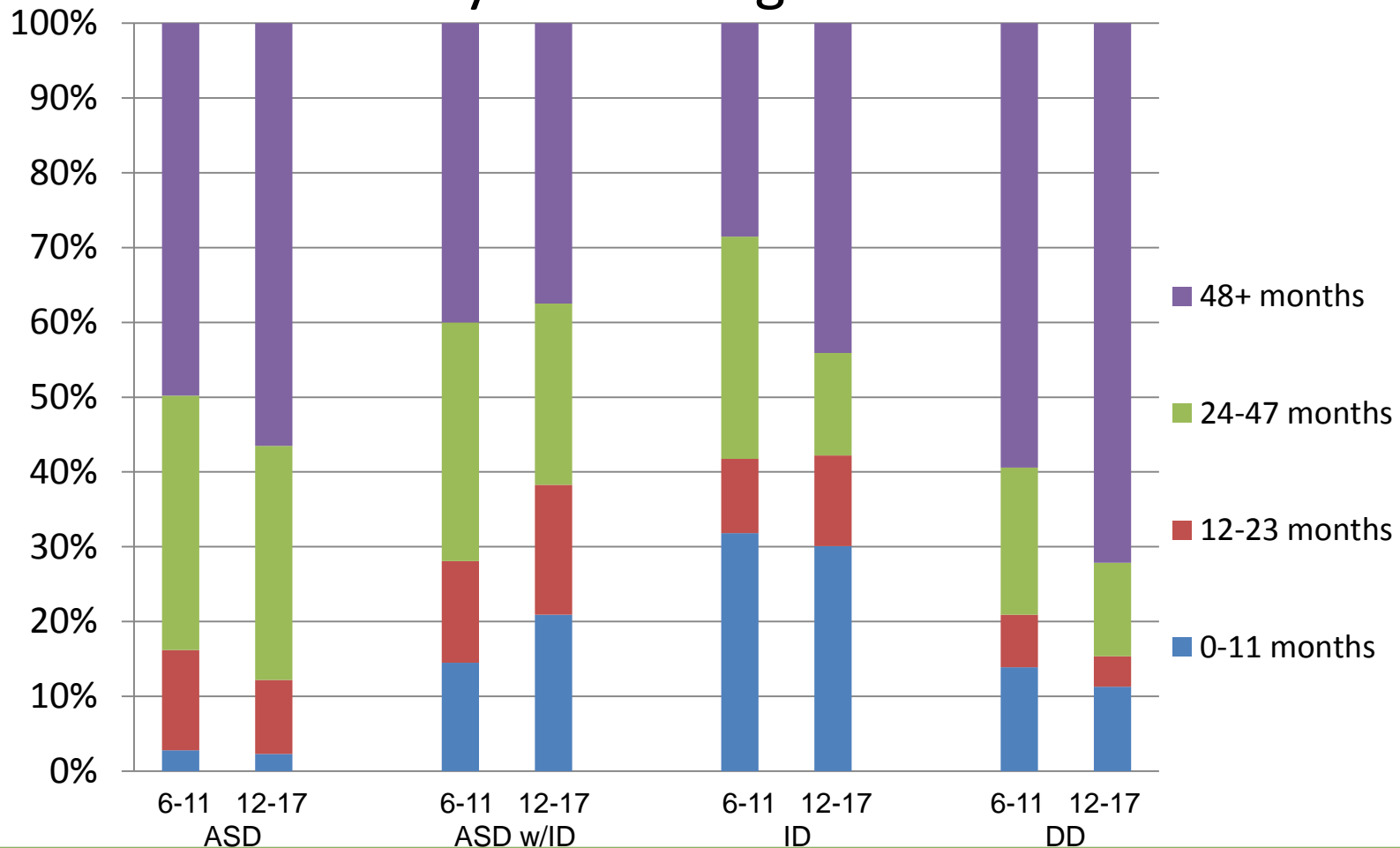
Number of types of medication currently used



Most commonly used medication types by condition

Autism Spectrum Disorder (ASD)	ASD with ID	Intellectual Disability (ID)	Developmental Delay (DD)
Stimulant meds (30%)	Anti-anxiety/ mood stabilizing meds (34%)	Stimulant meds (17%)	Stimulant meds (35%)
Anti-anxiety/mood stabilizing meds (22%)	Stimulant meds (28%)	Anti Seizure Meds (16%)	Sleep meds (13%)
Antidepressant meds (17%)	Antidepressant meds (27%)	Anti-anxiety/mood stabilizing meds (16%)	Anti-anxiety/mood stabilizing meds (9%)
Sleep Meds (17%)	Sleep meds (23%)	Antidepressant meds (14%)	Antidepressant meds (9%)
On 1 or more meds: 51%	On 1 or more meds: 66%	On 1 or more meds: 44%	On 1 or more meds: 51%

Child's age when first diagnosed by current-age cohort



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