

The North Dakota Autism Spectrum Disorder (ASD) Database

Kodi Pinks, MPH
Autism Database Administrator
Division of Children's Special Health Services
North Dakota Department of Health

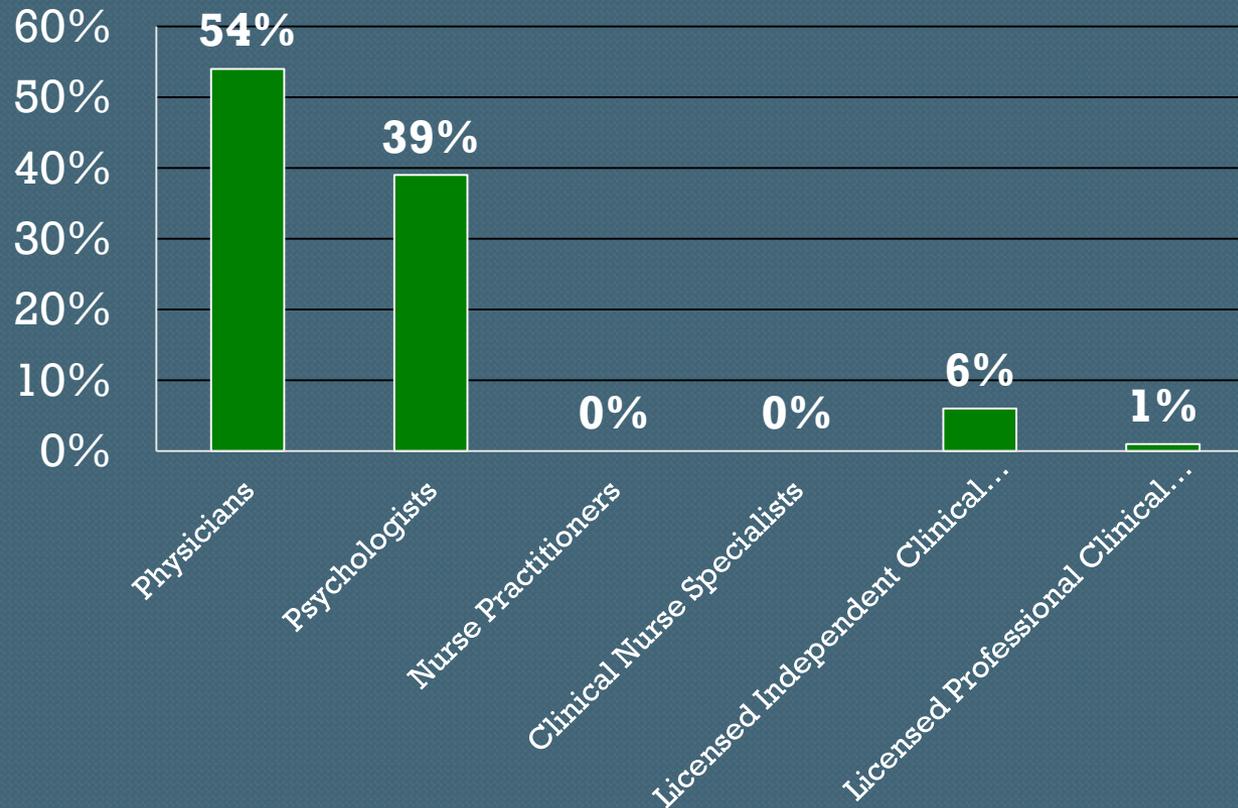


Important to Note

- How many individuals have been reported into the database to date?
 - ❑ 340
 - For this presentation, the data is based off of 300 reports
- Things to consider with this data
 - ❑ Small sample size
 - Reliability
 - Anonymity and privacy
 - ❑ Missing data
 - Creates challenges in analysis and reporting

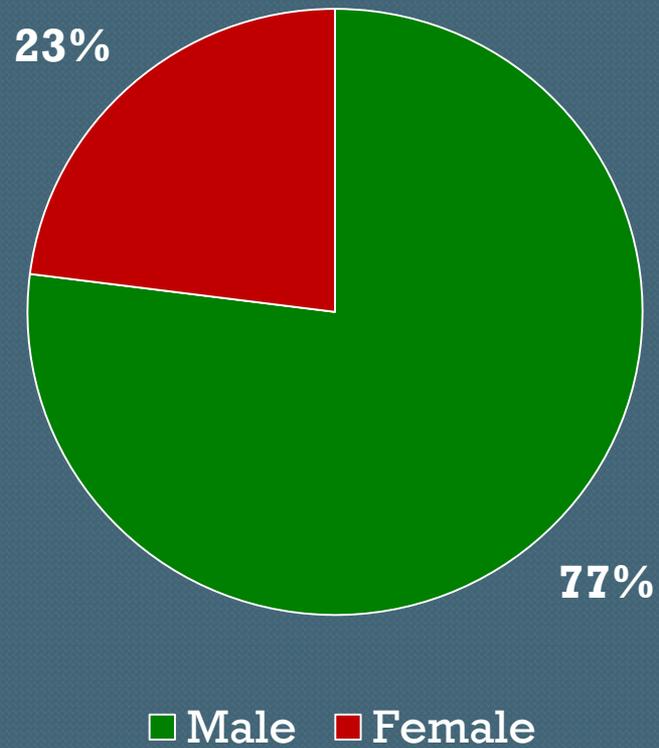


Types of Providers Reporting



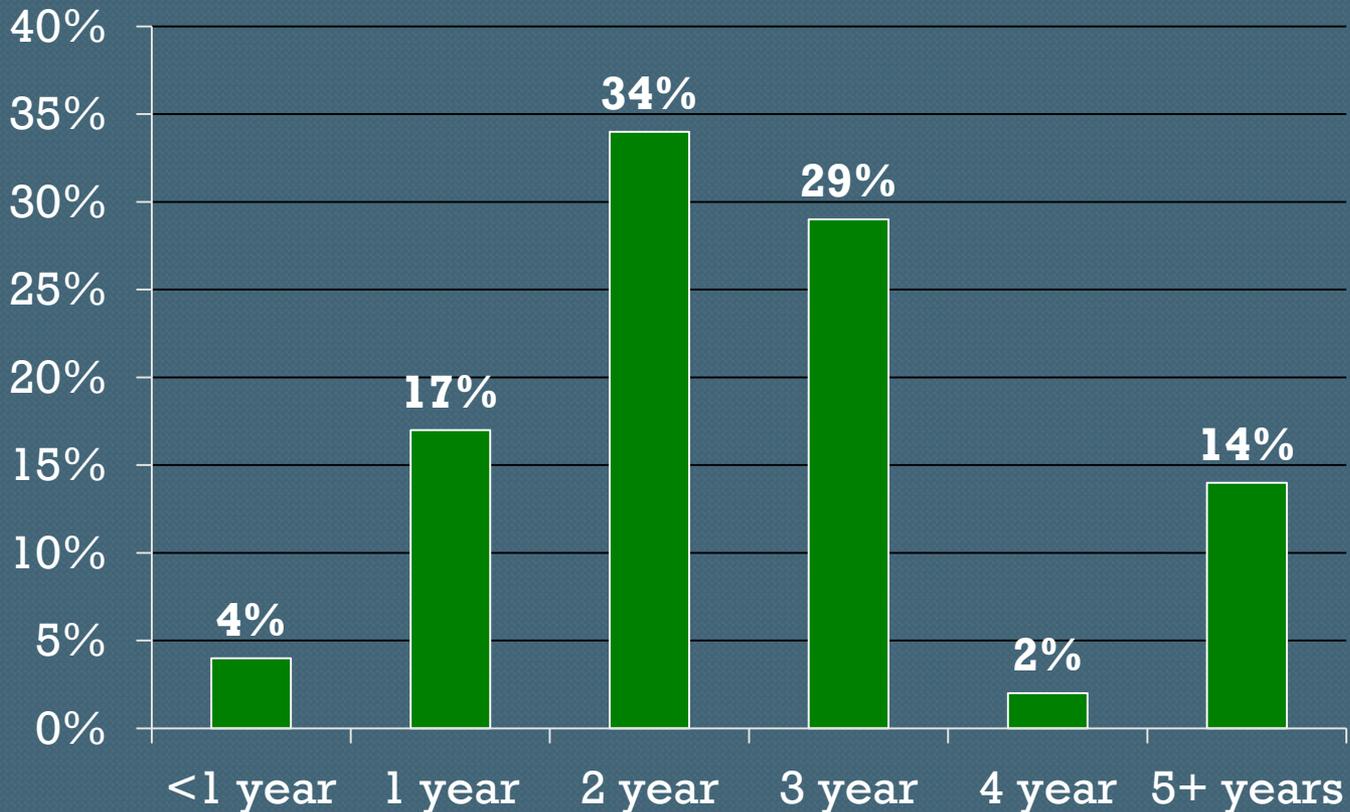
Data as of March 24, 2017 based on N=300 (Unknown=28)

Gender



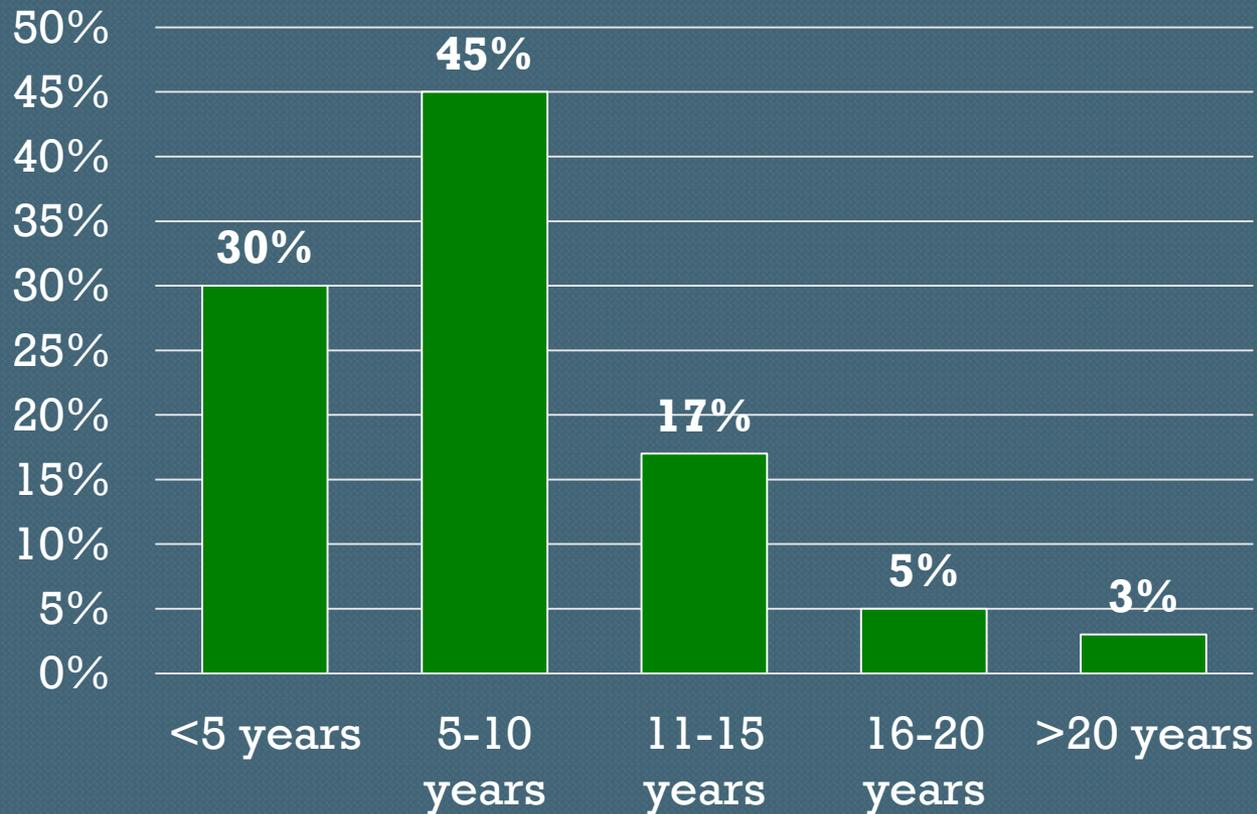
Data as of March 24, 2017 based on N= 300 (Unknown=8)

Age at When Symptoms First Noted



Data as of March 24, 2017 based on N= 300 (Unknown=88)

Age of Diagnosis



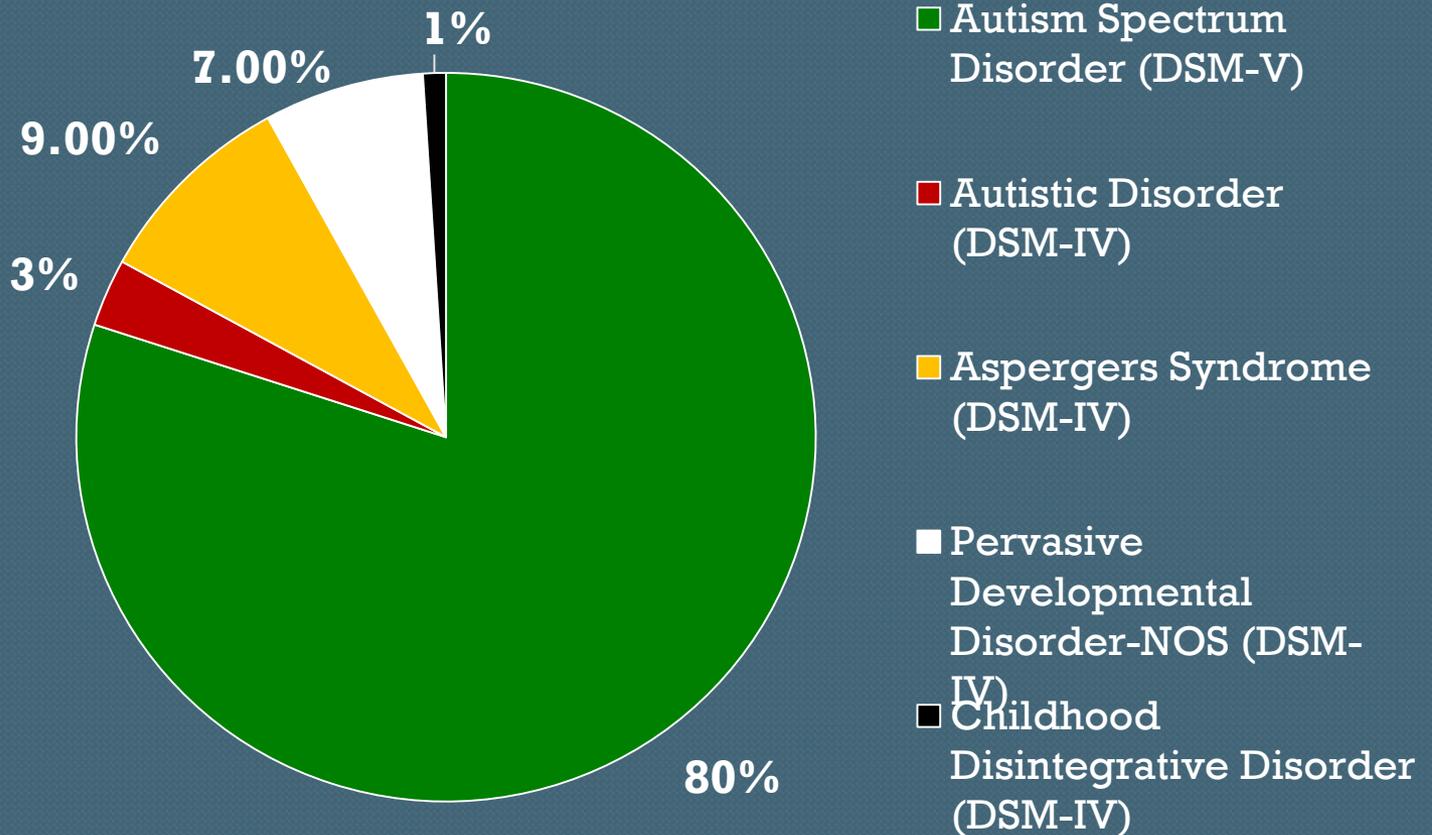
Data as of March 24, 2017 based on N=300 (Unknown=36)

Age of Diagnosis by Gender

	Age Symptoms First Noted	Age at Diagnosis
Male		
Mean	2.6 years	7.6 years
Median	2 years	6 years
Female		
Mean	2.6 years	9.2 years
Median	3 years	9 years
Total		
Mean	2.6 years	8.0 years
Median	2 years	7 years

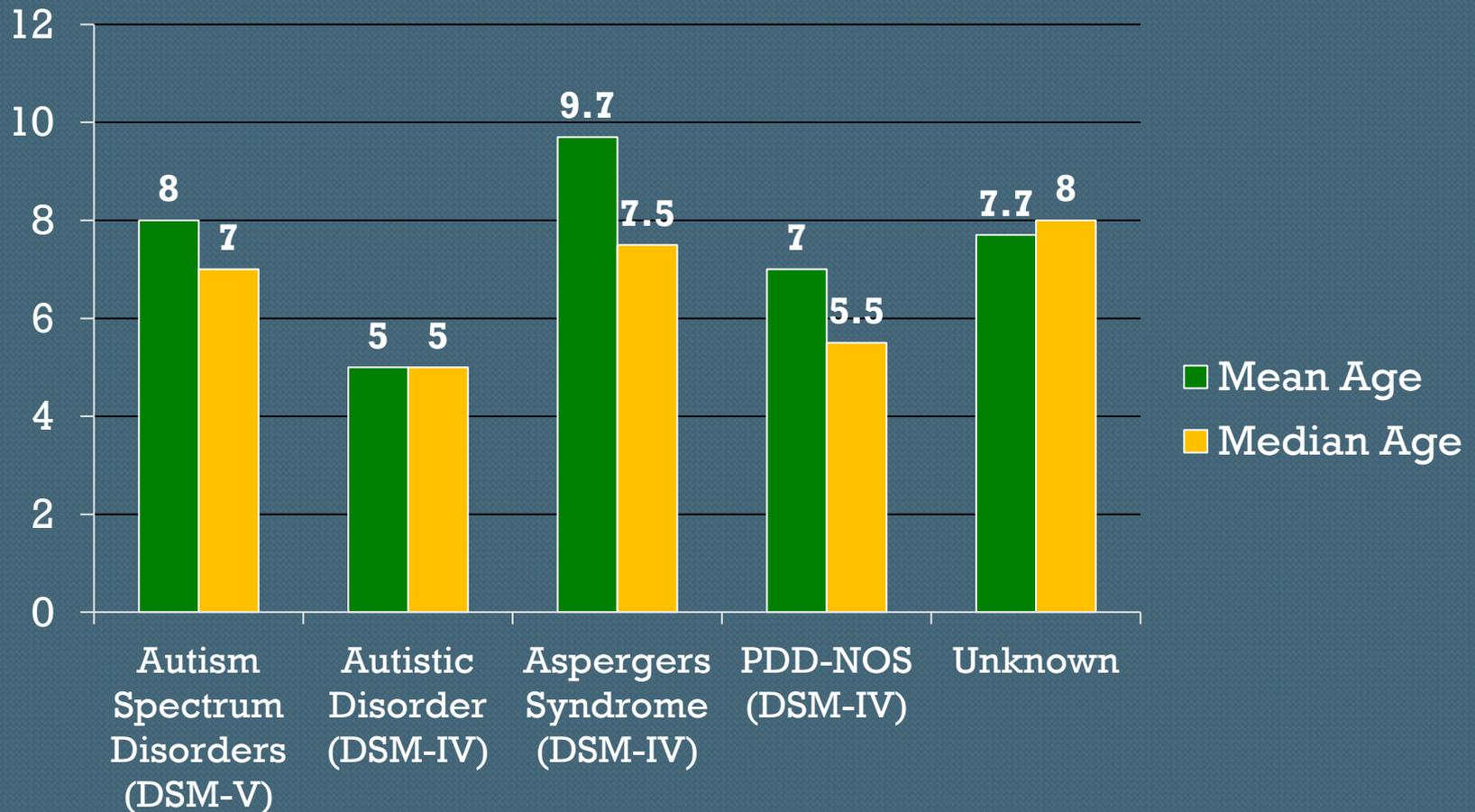
Data as of March 24, 2017 based on N=300 (Males=137, Females=41, Unknown=8)

Diagnosis Type



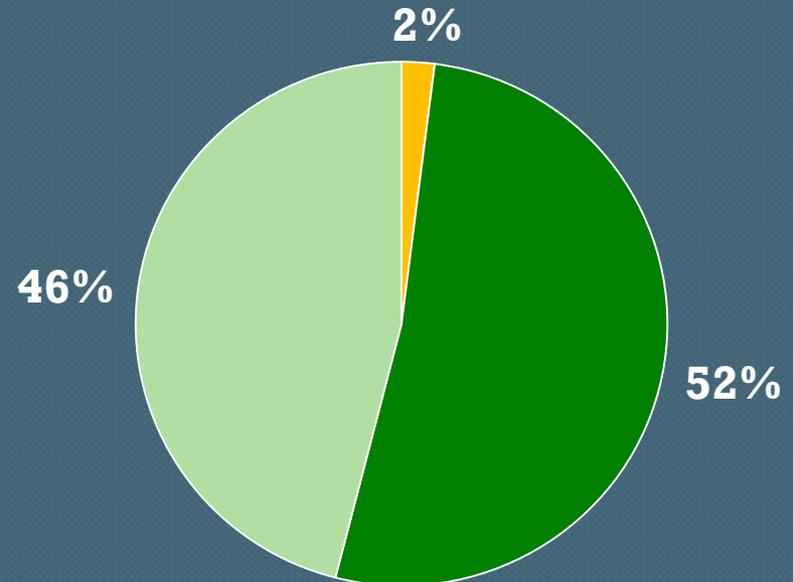
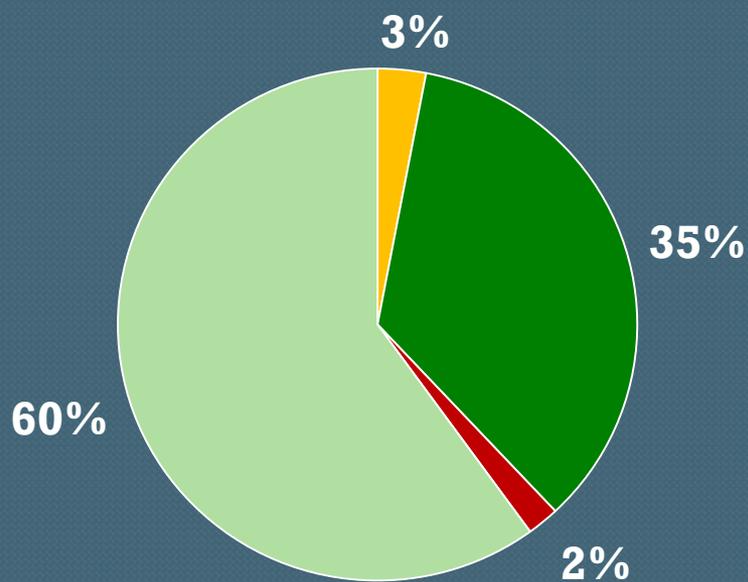
Data as of March 24, 2017 based on N=300 (Unknown=9)

Age of Diagnosis by Type



Data as of March 24, 2017 based on N= 300 (Unknown=9)

Race and Ethnicity



- American Indian
- White
- Other (e.g., Asian, Black, etc.)
- Refused/Unknown

- Hispanic
- Non-hispanic
- Unknown

Data as of March 24, 2017 based on N=300

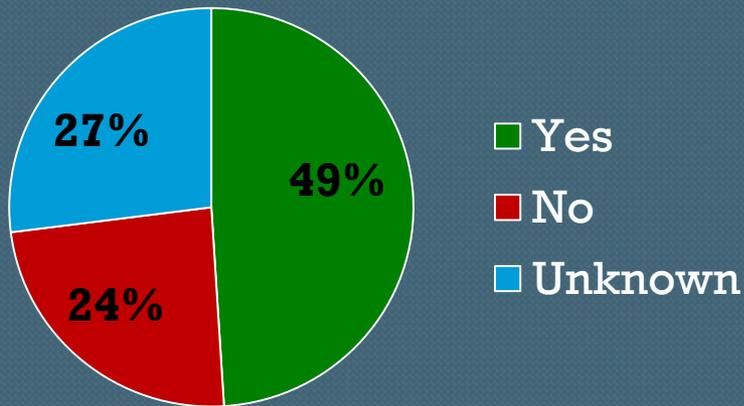
Age of Diagnosis by Race

	Age Symptoms First Noted	Age at Diagnosis
American Indian (5%)		
Mean	2.4 years	5.56 years
Median	2 years	5 years
White (42%)		
Mean	2.6 years	7.95 years
Median	2 years	6.5 years
Other (3%)		
Mean	1.5 years	5 years
Median	1.5 years	4 years

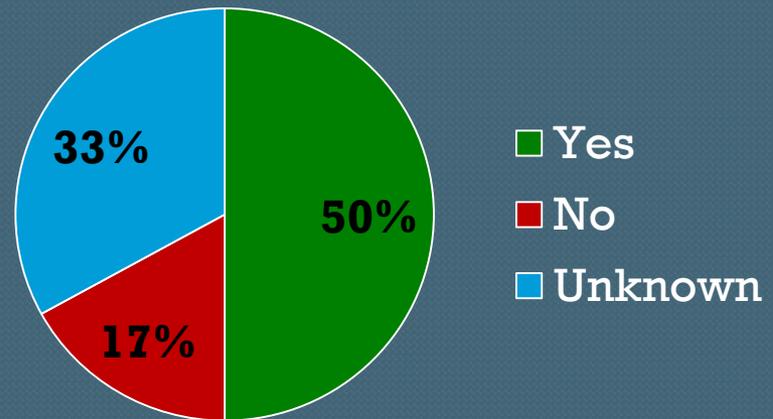
Data as of March 24, 2017 based on N=300 (Unknown=X)

Diagnostic Process for Autism Spectrum Disorder

Complete Physical Evaluation Done

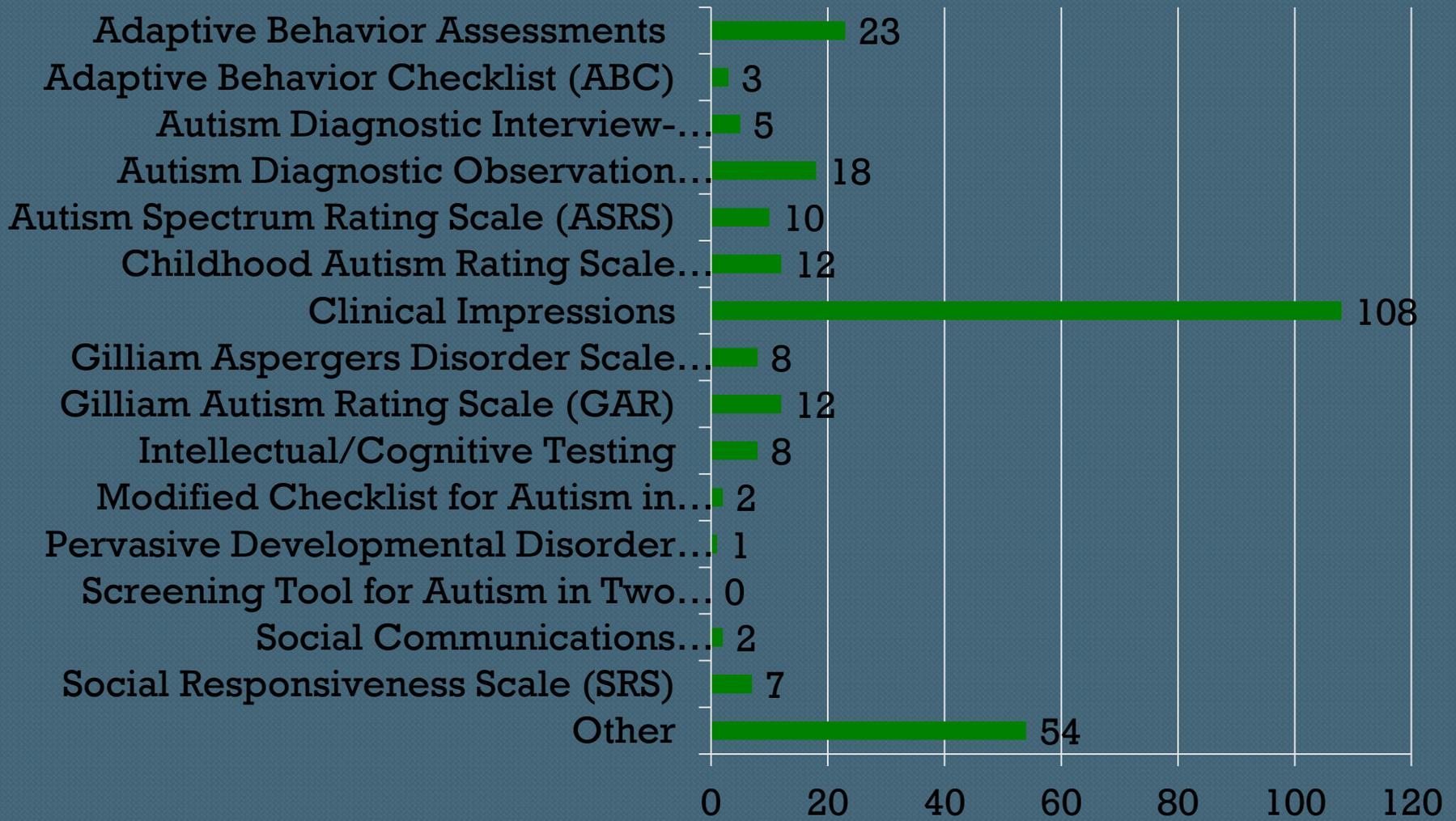


Hearing Test Done



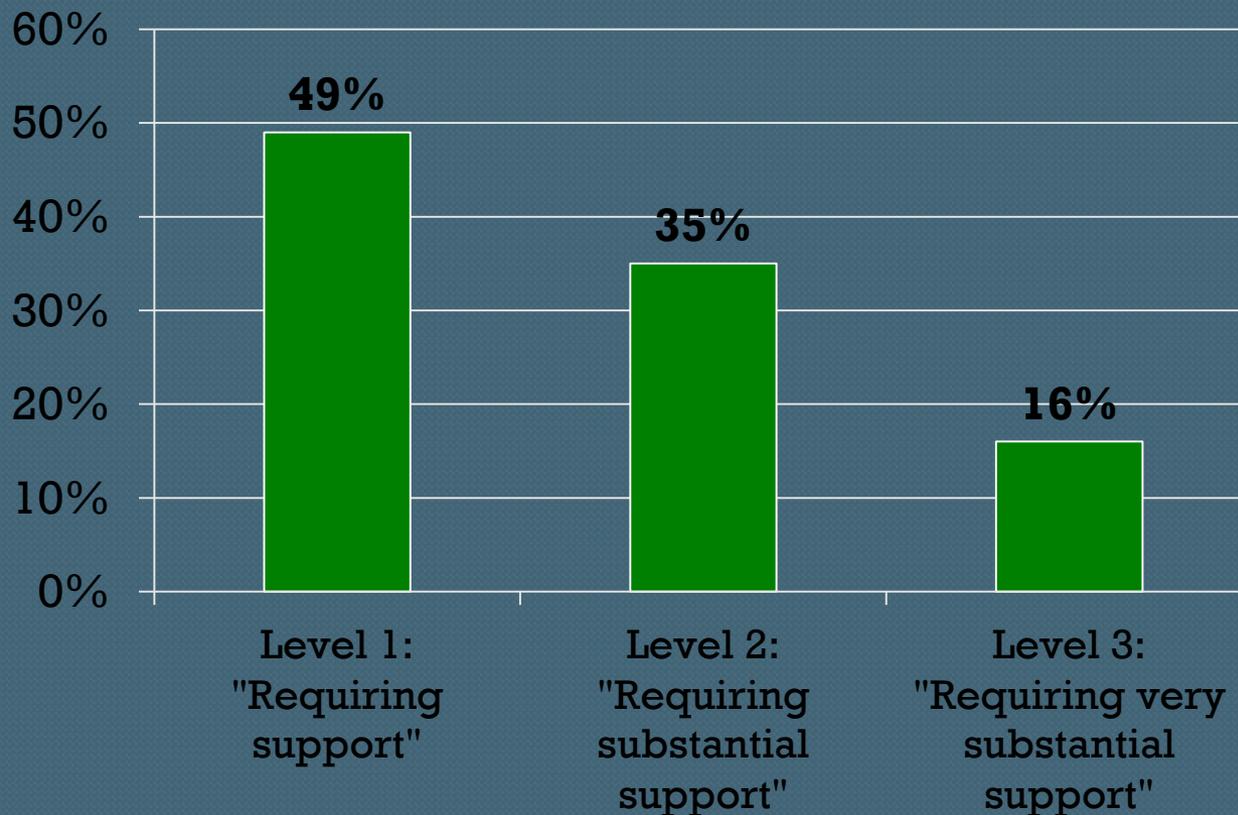
Data as of March 24, 2017 based on N=300

Diagnostic Tools/References Used



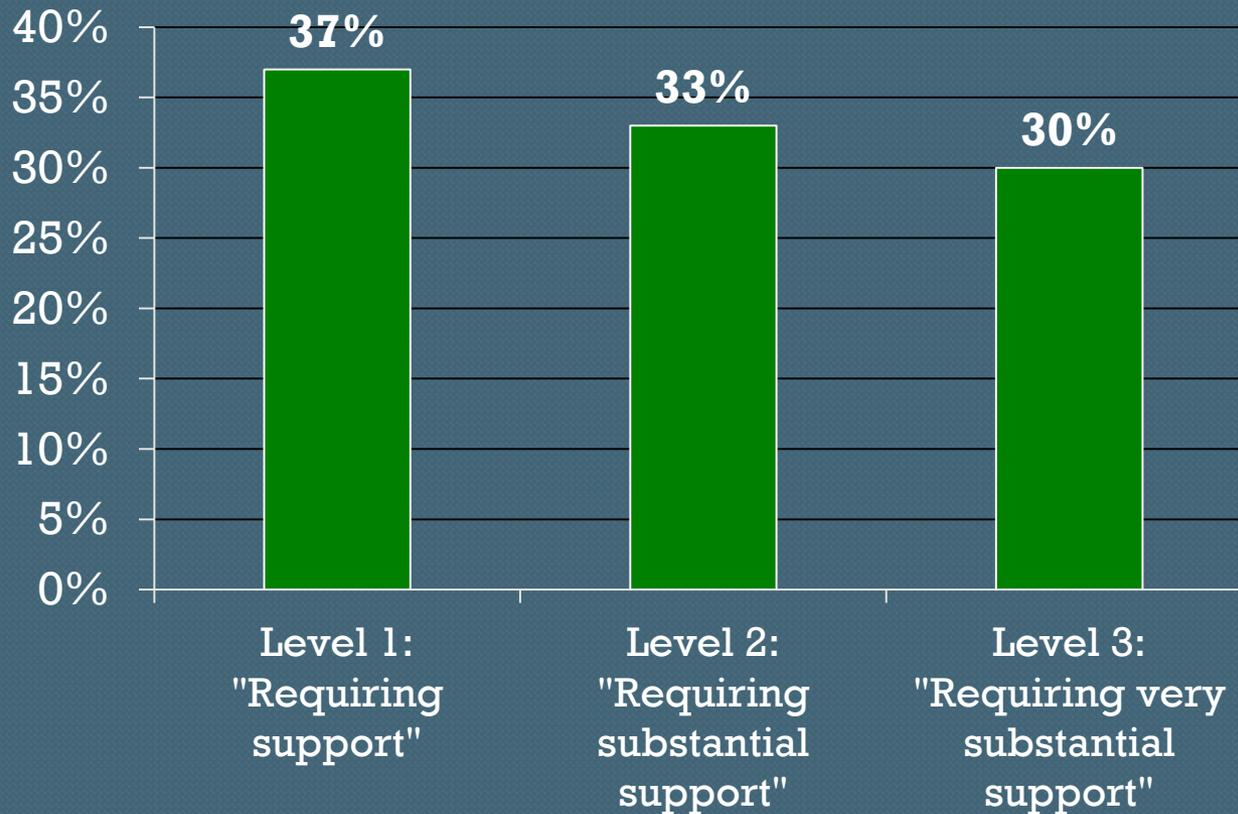
Data as of March 24, 2017 based on N=300

Restricted, Repetitive Behavior Severity Levels



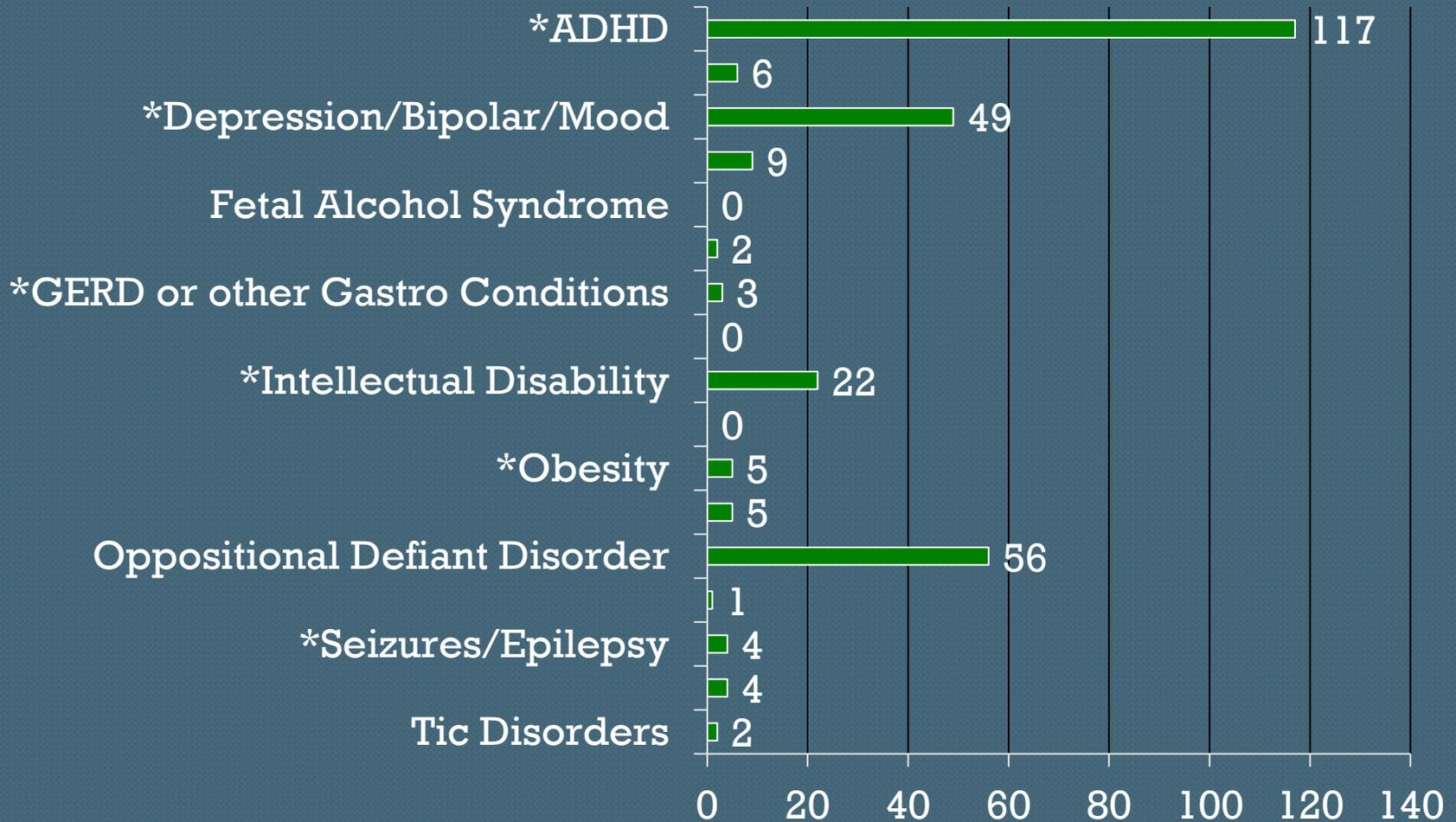
Data as of March 24, 2017 based on N=300 (Unknown=44)

Social Communication Severity Levels



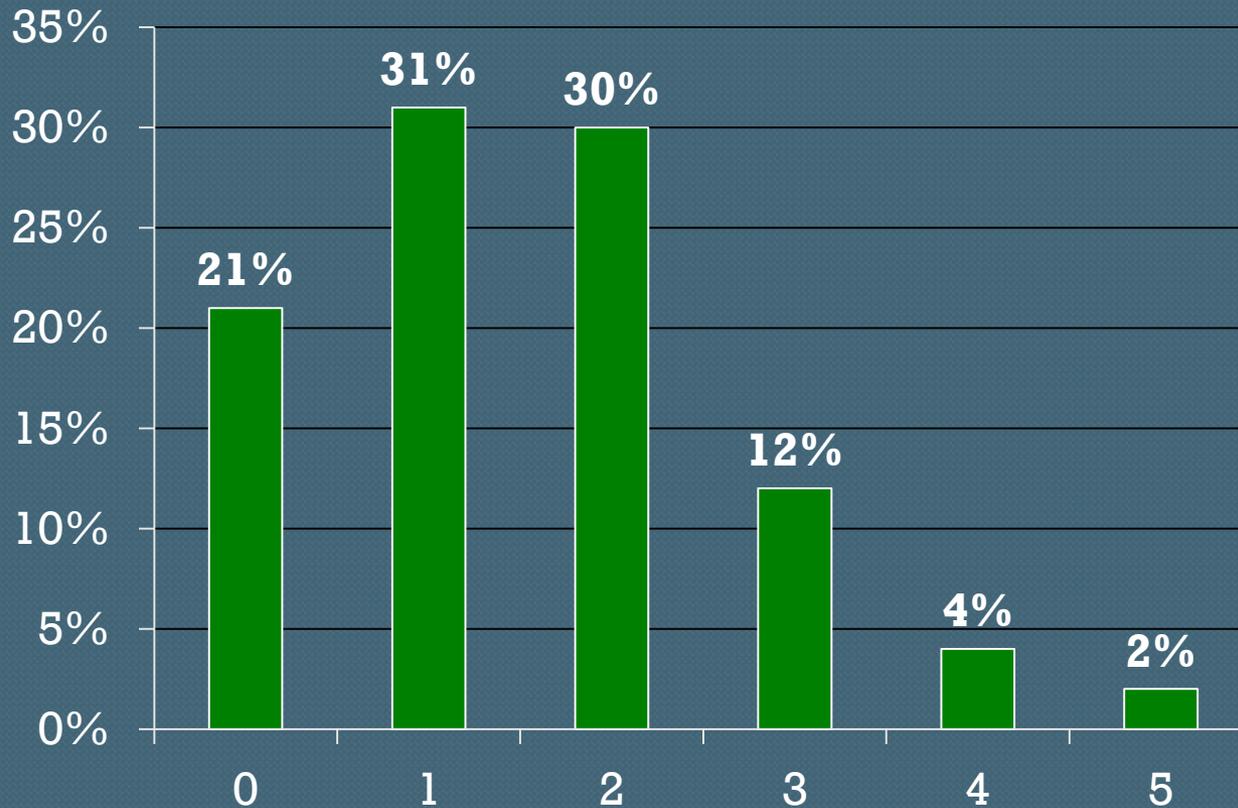
Data as of March 24, 2017 based on N=300 (Unknown=41)

Co-morbidities Associated with ASD



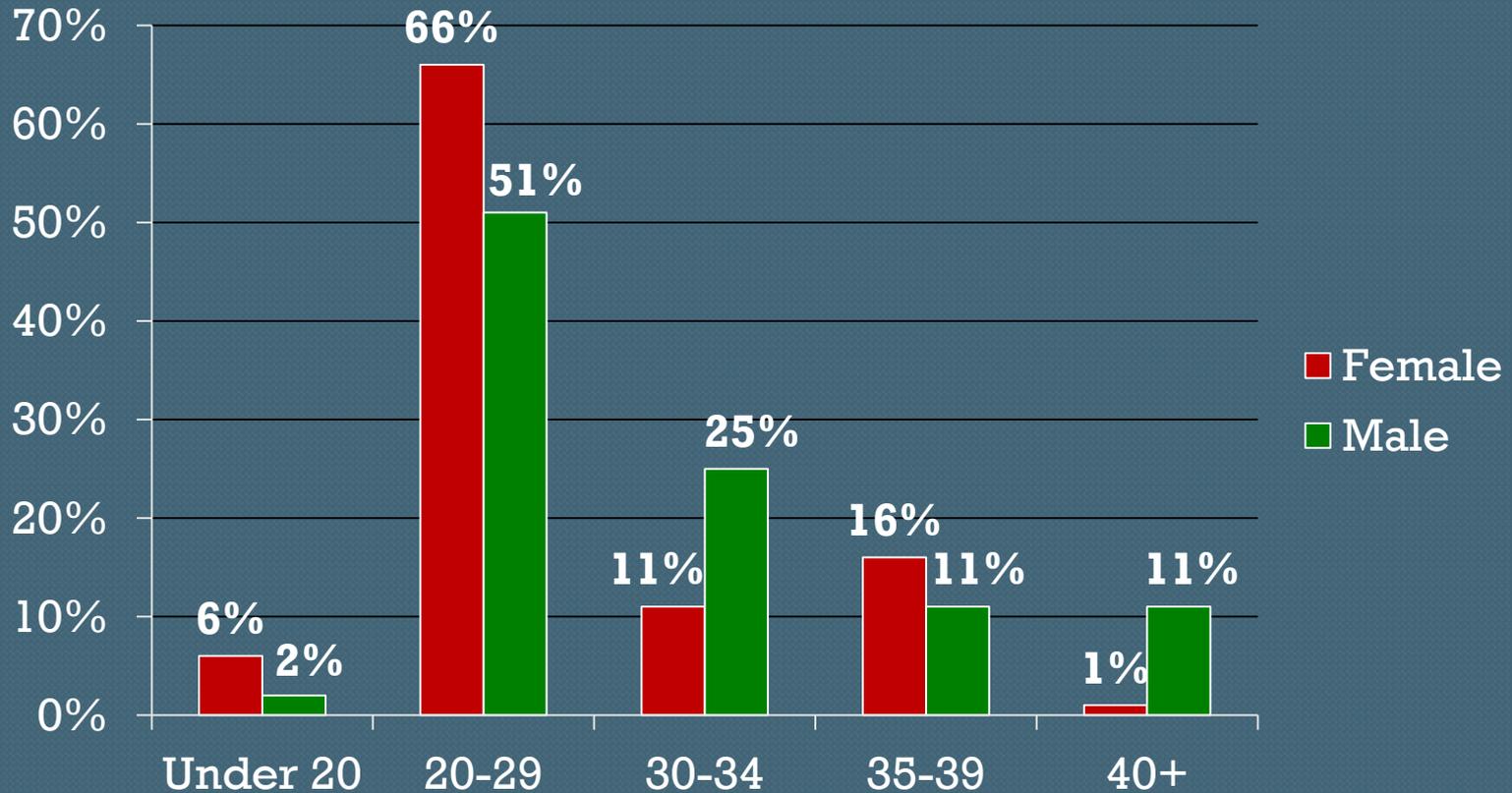
Data as of March 24, 2017 based on N=300

Number of Co-morbidities



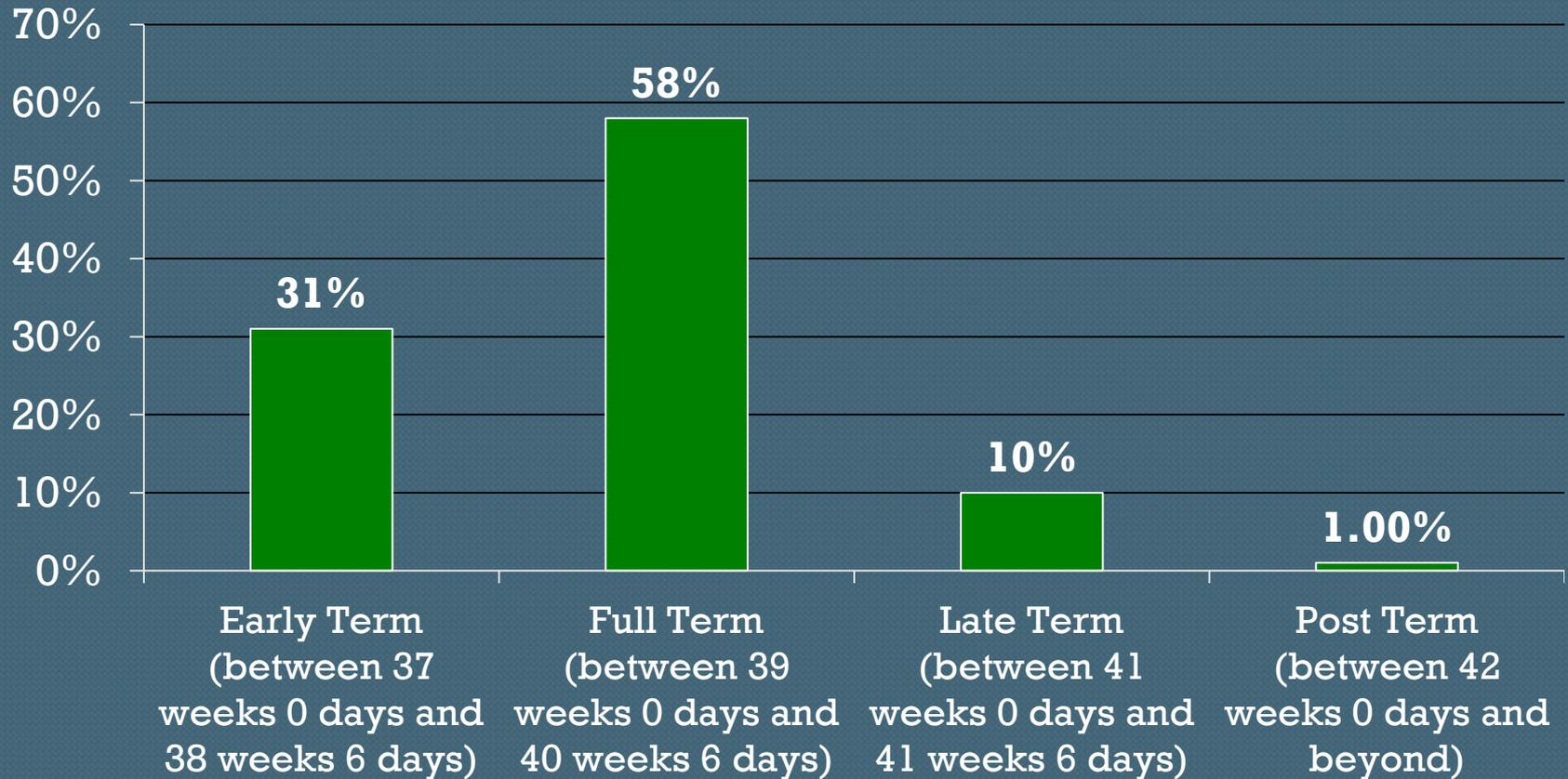
Data as of March 24, 2017 based on N=300

Parental Age at Time of Delivery



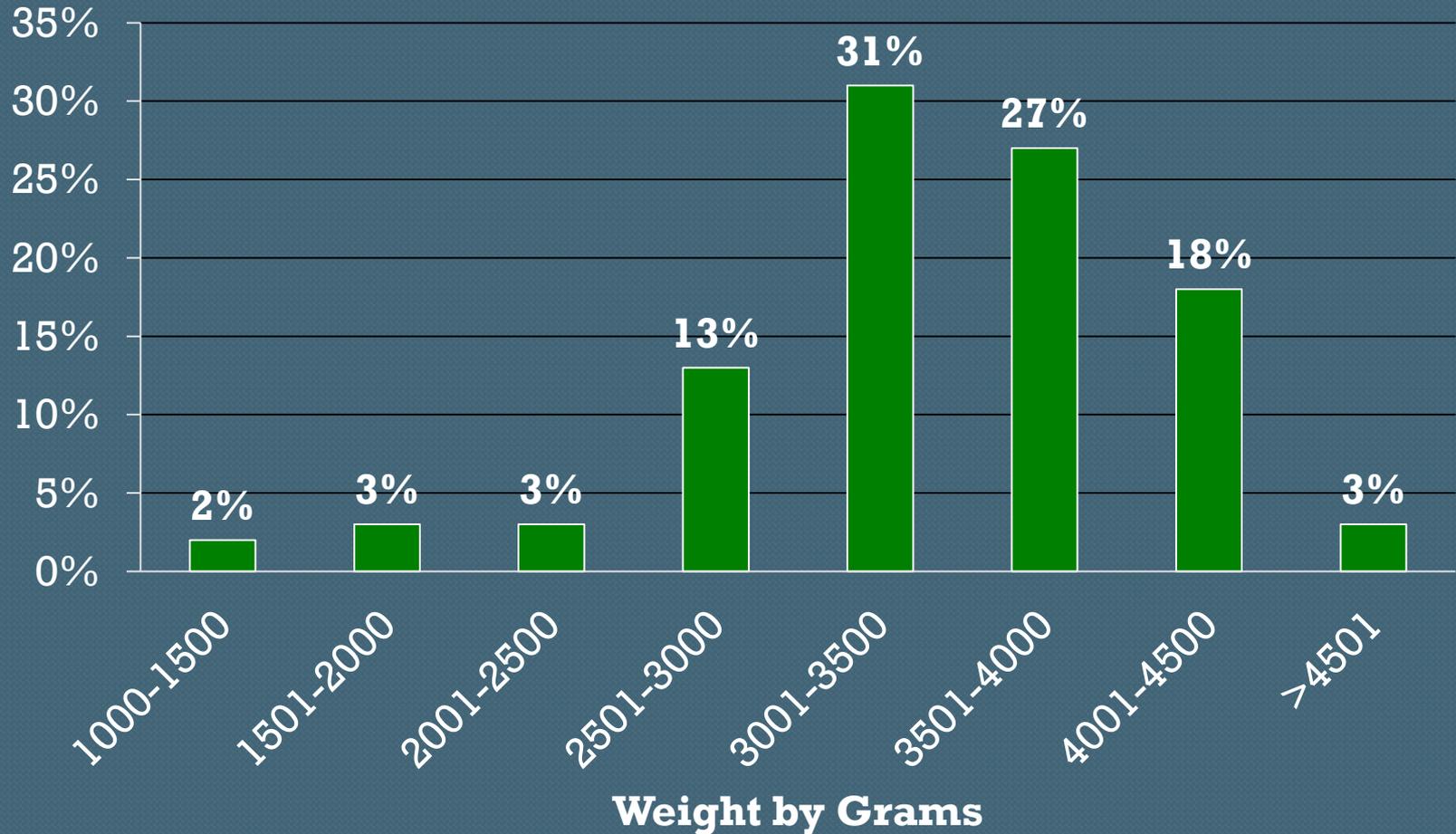
Data as of March 24, 2017 based on N=300 (Males=94, Females=106, Unknown=49)

Weeks of Pregnancy



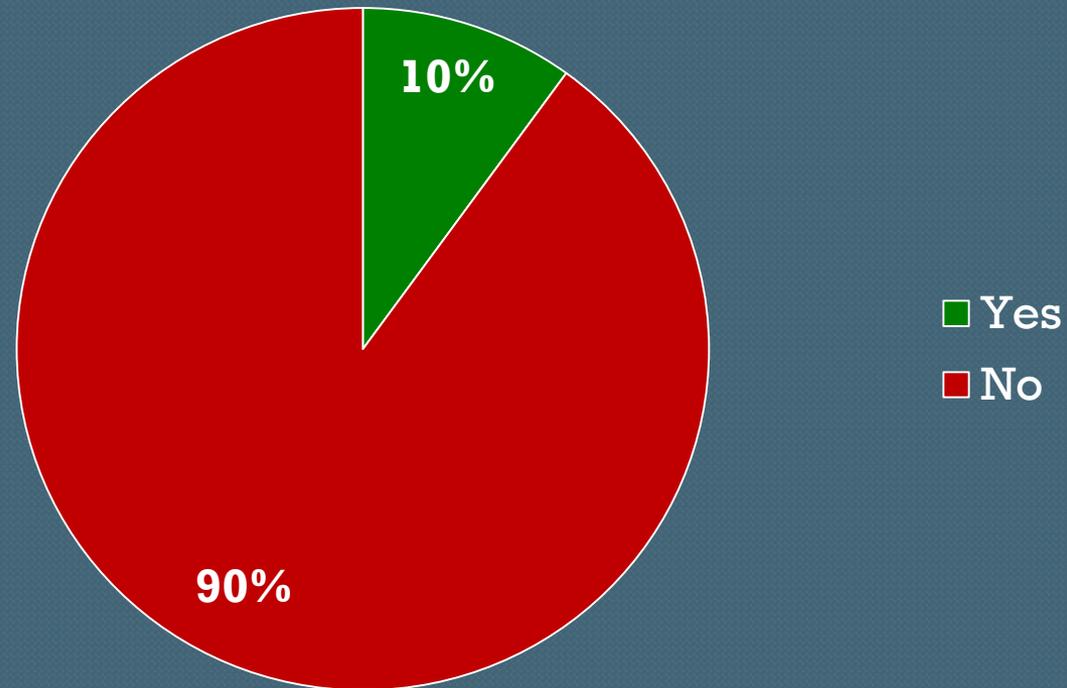
Data as of March 24, 2017 based on N=300 (Unknown=175)

Birth Weight



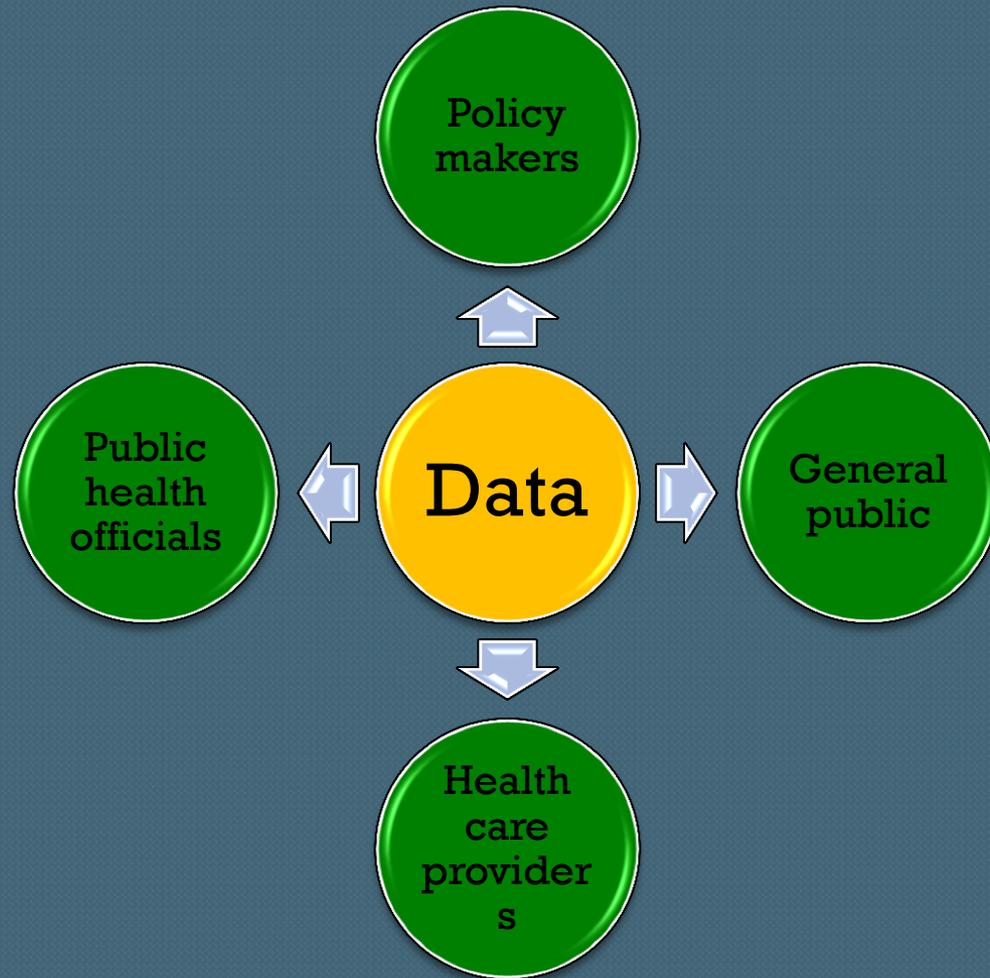
Data as of March 24, 2017 based on N=300 (Unknown=26)

Siblings Diagnosed with Autism



Data as of March 24, 2017 based on N=300 (Unknown=90)

How Can This Information Be Used?

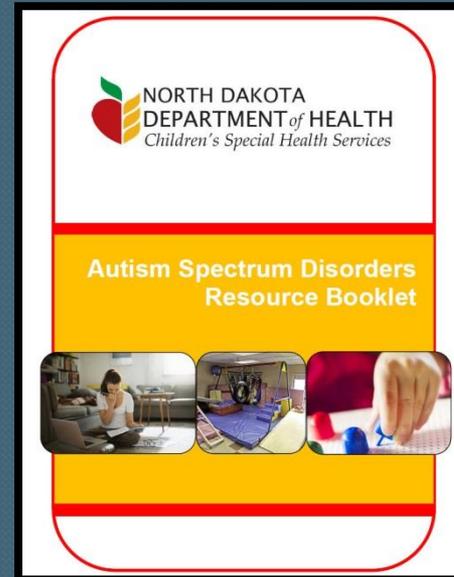
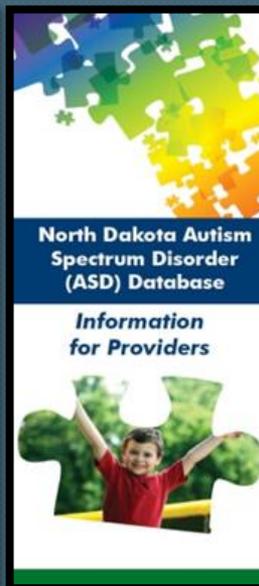
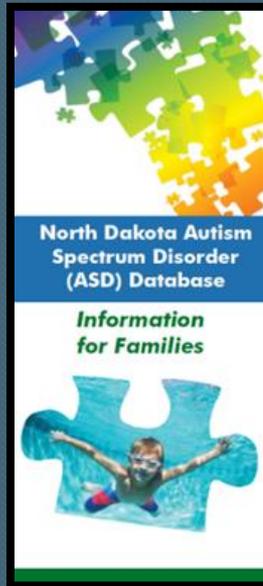


Next steps for the Autism Spectrum Disorder Database

- Conduct outreach activities and education
 - Educational materials (E.g., brochures)
 - Training for mandatory reporters
- Promote public awareness
- Continue to collect data for analysis and reporting



Additional Resources



600 East Boulevard Ave., Dept. 301

Bismarck, ND 58505-0200

701.328.2436 or 800.755.2714

Fax: 701.328.1645

E-mail: dohcshsadm@nd.gov

www.ndhealth.gov/cshs

Questions?

