

Autism Prevalence 2012

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Autism and Developmental Disabilities Monitoring (ADDM) Network

- Organized by CDC in 2000
- 14 sites in United States
 - 6 sites in 2000
- Estimates prevalence among 8 year olds
- Uses education and health records
- Estimates given every 2 years

ADDM Goals

1. Obtain # of children with ASD in project areas
2. Report comparable population-based ASD prevalence estimates and determine if rates are changing over time
3. Study whether autism is more common in some groups
4. Provide descriptive data on children with ASD

ADDM Sites

- Alabama
- Arizona
- Arkansas
- Colorado
- Florida
- Maryland
- Missouri
- New Jersey
- North Carolina
- Pennsylvania
- South Carolina
- Utah
- West Virginia
- Wisconsin

Methods

- Multisite, multiple-source, records-based surveillance methodology
- Education and health records
 - Phase 1
 - Screening and record abstraction
 - Phase 2
 - Data reviewed systematically

Results

- Evaluated 337,093 children age 8 years
 - 8.4% of US children that age
- ASD rates - 11.3/1000 or 1/88
 - Range was 4.8-21.2/1000
- Those from education sources only had higher rates of ASD

Gender and Race

- 1/54 males, 1/242 females
- White 12/1000
- Black 10.2/1000
- Hispanic 7.9/1000

ASD Classification

Age of Diagnosis

- Autistic Disorder – 48 months
- ASD/PDD – 53 months
- Asperger – 75 months

Intellectual disability (ID) and ASD

- 38% of those with ASD
 - ID (IQ \leq 70)
- 24%
 - Borderline (IQ 71-85)
- 38%
 - Average to above-average

Intellectual Disability and ASD

- Range for ID
 - 13% in Utah
 - 54% in South Carolina

 - Females higher ID 46% vs 37%

Other studies of ASD

- National Health Interview Survey 4 fold increase from 1997-99 and 2006-08
- 2007 National Survey of Children's Health
 - Parent report
 - 3-17 year
 - 11/1000

International Prevalence of ASD

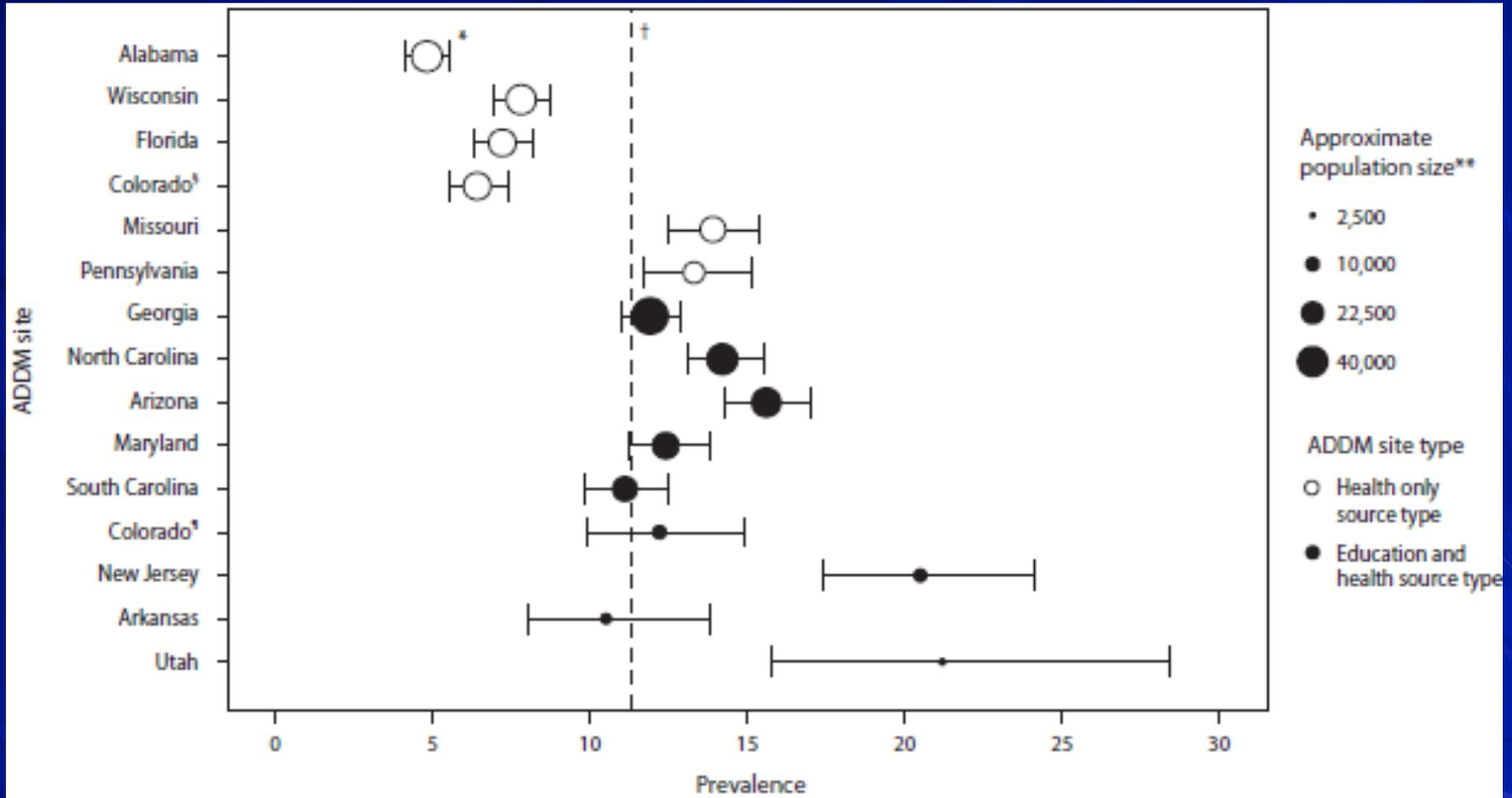
- Britain 2003 + 2004
 - 1% of population
- South Korea 2006
 - 26.4/1000

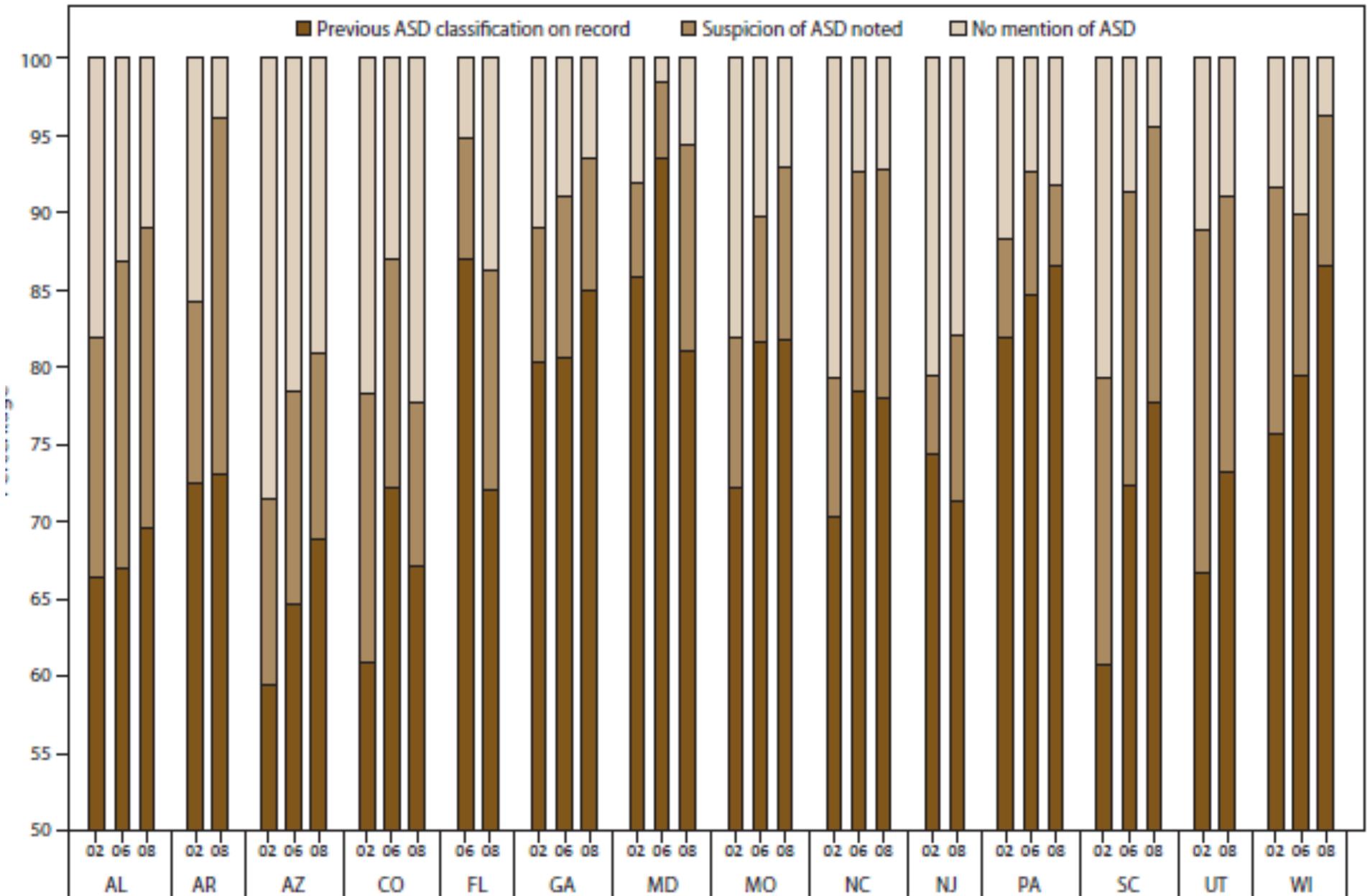
Identified Prevalence of Autism Spectrum Disorders

ADDM Network 2000-2008

Combining Data from All Sites

Surveillance Year	Birth Year	Number of ADDM Sites Reporting	Prevalence per 1,000 Children (Range)	This is about 1 in X children...
2000	1992	6	6.7 (4.5-9.9)	1 in 150
2002	1994	14	6.6 (3.3-10.6)	1 in 150
2004	1996	8	8.0 (4.6-9.8)	1 in 125
2006	1998	11	9.0 (4.2-12.1)	1 in 110
2008	2000	14	11.3 (4.8-21.2)	1 in 88





References

- Prevalence of Autism Spectrum Disorders – Autism and Developmental Disabilities Monitoring Network, 14 sites, United States, 2008, March 30, 2012.