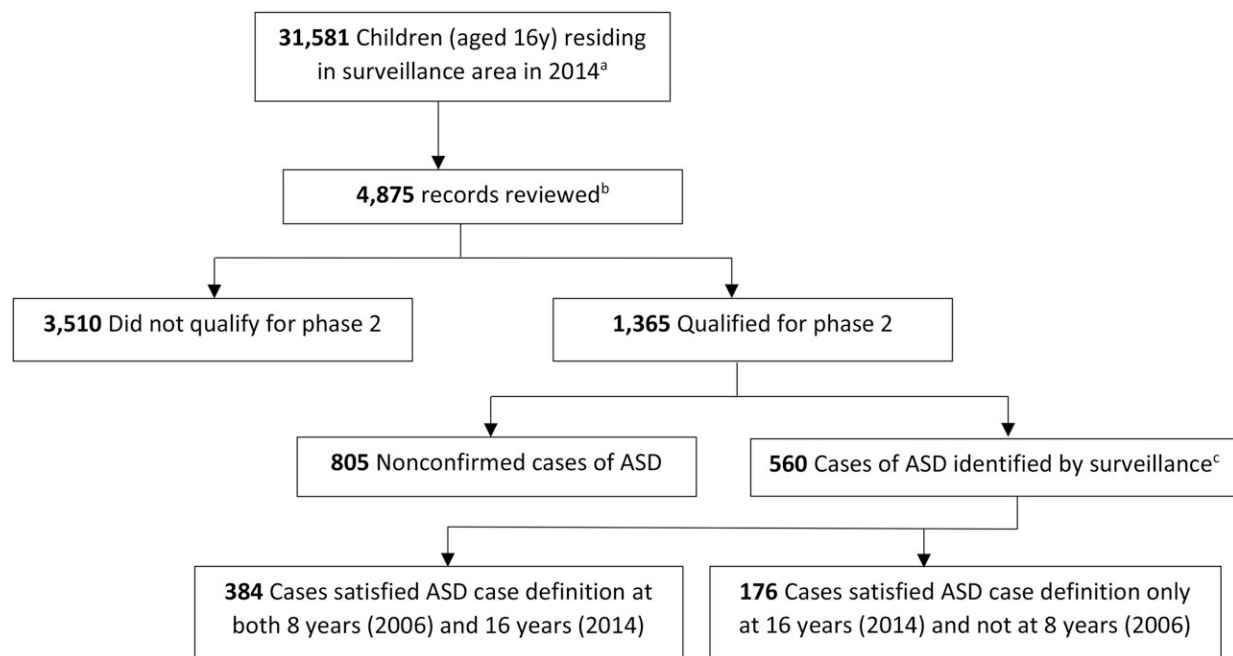


# A quarter of teens with autism go undiagnosed, researchers find

October 2 2023, by Andrew Smith



New Jersey Autism Study Surveillance Process, 16-year-olds, Surveillance Cycle 2014. ASD indicates autism spectrum disorder. <sup>a</sup>Population denominators were obtained from the National Center for Health Statistics. <sup>b</sup>Approximately 15% of the population qualified for phase 1 of the study based on residency, birth year, receipt of services through special education services in the surveillance year, having 1 or more surveillance-specific International Classification of Diseases, Ninth Revision codes, or some combination of these factors. <sup>c</sup>Diagnoses of ASD were confirmed by an active surveillance standard case definition based on criteria in the Diagnostic and Statistical Manual of Mental Disorders (Fourth Edition, Text Revision). Credit: *Journal of Autism and Developmental Disorders* (2023). DOI: 10.1007/s10803-023-06058-8

About a quarter of 16-year-olds with autism spectrum disorder (ASD) have yet to receive a formal diagnosis, according to research from Rutgers.

The [study](#), which appears in the *Journal of Autism and Developmental Disorders*, used a method called active multiple-source surveillance to produce what its authors believe to be the best-ever data on ASD prevalence among adolescents in our region.

"We think this is the largest ever study of ASD in this age group, and we hope it helps schools, [health care providers](#) and others with information that leads to better understanding and services," said Walter Zahorodny, an associate professor at Rutgers New Jersey Medical School and lead author of the study.

The researchers found that, overall, 1.77 percent of 16-year-olds in northeastern New Jersey have ASD, but the condition affects males more than females, whites more than Blacks or Hispanics, and high-income adolescents more than low-income peers.

Researchers also found that one in four adolescents with ASD has not been diagnosed and that three in five ASD adolescents have one or more neuro-psychiatric conditions—most commonly attention deficient hyperactivity disorder (ADHD).

Researchers reviewed school and [health records](#) for 4,875 of the 31,581 16-year-olds who lived in four northern New Jersey counties in 2014. That initial review identified 1,365 records that merited comprehensive evaluation and analysis, which, in turn, confirmed 560. Of those, 384 had been previously identified by monitoring when the cohort was 8 years old, and an additional 176 individuals satisfied ASD diagnostic

criteria at age 16.

ASD was identified more frequently in [adolescent](#) males, 2.89 percent, compared to females, 0.62 percent.

ASD was twice as common among adolescents from high-income households compared to low-income families. ASD diagnosis also varied significantly by race and socioeconomic status. ASD was 50 percent more prevalent in white adolescents than in Black and Hispanic peers. (There weren't enough Asian teens in the cohort to compare rates.)

"This confirms what other studies have found about the relative occurrence of autism by sex, race and [socioeconomic status](#) in childhood, and it almost certainly reflects true incidence patterns rather than better diagnosis rates among groups that get more frequent and better [medical care](#)," Zahorodny said. "Our study didn't examine why prevalence rates vary, but other studies suggest a complex interaction of genes and environment."

The study's most important findings may be the identification of a significant number of undiagnosed autism cases, particularly among adolescents with mild forms of impairment and the high percentage of adolescents with ASD who also have other neuropsychiatric disorders.

The finding that many individuals go undiagnosed—and that many [adolescents](#) who could benefit from support never receive it—suggests that schools and health care providers could improve their tools for detecting ASD. The finding that most people with ASD have another neuro-psychiatric disorder suggests that this group will have more complex and possibly require more intensive interventions and planning.

The latest study was the second by this research group to examine the same group of people, but Zahorodny hopes it won't be the last.

"We would love to continue studying this same cohort going forward because we know so much less about autism in adulthood," Zahorodny said. "Continuing to follow this group of more than 500 people could greatly add to what is known about ASD and how it is characterized in adulthood, which will, ultimately, lead to the identification of interventions which maximize well-being."

**More information:** Walter Zahorodny et al, Prevalence and Characteristics of Adolescents with Autism Spectrum Disorder in the New York-New Jersey Metropolitan Area, *Journal of Autism and Developmental Disorders* (2023). [DOI: 10.1007/s10803-023-06058-8](https://doi.org/10.1007/s10803-023-06058-8)

Provided by Rutgers University

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