

NEWS

Clinical research: Death rate high in autism

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State rate: Individuals with autism are at risk of dying as a result of seizures or respiratory infections, according to a follow-up of a famous Utah prevalence study.

Of the 305 people diagnosed with autism in Utah in the 1980s, 29 have died. This is about ten times higher than the death rate in the general population during the same time period, according to a study published 25 September in the *Journal of Autism and Developmental Disorders*¹.

These deaths tend to be the result of complicating medical conditions, such as **epilepsy**, suggesting that clinicians should monitor the overall health of people with autism.

A 1989 prevalence study in Utah used both a four-year media campaign (from 1982 to 1986) and hospital and special needs facility records to screen for children who may have autism². Further diagnostic analysis identified 241 individuals with the disorder and a state **prevalence** of 0.04 percent.

This is much lower than the Centers for Disease Control and Prevention **estimates of 1.1 percent** reported earlier this year. However, **a follow-up of the original study** found that another 64 individuals would have been diagnosed if the researchers had used current guidelines³.

In the new study, researchers looked at this total group of 305 people and found that 29 of them (20 males and 9 females) had died since the original study. The most common reasons listed on

death certificates are respiratory failure, heart problems and seizures. Together these account for 12 deaths. Only three were due to unnatural causes, such as accidents and suicide.

However, death certificates tend to be less accurate than usual when the deceased person had an obvious chronic condition, such as Down syndrome, the researchers caution.

The researchers also compared the death rate in individuals with autism with that in 2,466 age-matched controls from the general population, 532 siblings of participants with autism and 2,478 first cousins of those with autism. They only looked at the individuals with autism for whom they had data on factors such as birth weight, gestational age and parents' health status.

Individuals with autism are ten times more likely than the general population, and eight times more likely than their cousins or siblings, to have died since the 1980s. The latter number may be lower because family lifestyle influences mortality.

Because women in the general population live longer than men do, the elevated risk of death for women with autism is more than twice that of men with the disorder. This may be because women with autism tend to have **more severe symptoms** than men do, including more intellectual disability and epilepsy, the researchers say.

References:

1: Bilder D. *et al. J. Autism Dev. Disord.* Epub ahead of print (2012) [PubMed](#)

2: Ritvo E.R. *et al. Am. J. Psychiatry* **146**, 194-199 (1989) [PubMed](#)

3: Miller J.S. *et al. J. Autism Dev. Disord.* Epub ahead of print (2012) [PubMed](#)