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Nearly one in five adults with active epilepsy lives alone based on findings from the 2010 and 2013 US National Health Interview Surveys. US Centers for Disease Control and Prevention, Epilepsy Program

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Keywords

Epilepsy; Surveillance; Epidemiology; Housing; Social support; National Health Interview Survey

1. Background

Epilepsy is a complex disorder that can be challenging to manage. Social support confers a number of advantages on health and well-being [1,2]. Supportive relationships might help people with chronic disorders like epilepsy better manage their disorder and improve quality of life [3,4]. Little is known about household or family structure for adults living with epilepsy. This brief report uses two nationally representative samples to compare the various household/family structures of adults with and without epilepsy.

2. Methods

For adults with active epilepsy, inactive epilepsy, and no epilepsy, this report compares the age-standardized prevalence in the combined 2010 and 2013 cross-sectional National Health Interview Surveys of five types of household or family structures (living alone, married/unmarried couples without child(ren), two-adult with child(ren), single-adult with child(ren), and all other adult-only households).

3. Results

The percentages who reported living alone were significantly higher for adults with active epilepsy (20.9%) or inactive epilepsy (22.6%) than that of adults without epilepsy (16.6%; Fig. 1). The percentage who reported living in two-adult households/families with child(ren) was significantly lower in adults with active epilepsy (22.5%) than that in adults without epilepsy (35.3%). The percentage who reported living in all other adults-only households/

families was significantly higher in adults with active epilepsy (31.3%) than that in those without epilepsy (19.6%).

4. Conclusion

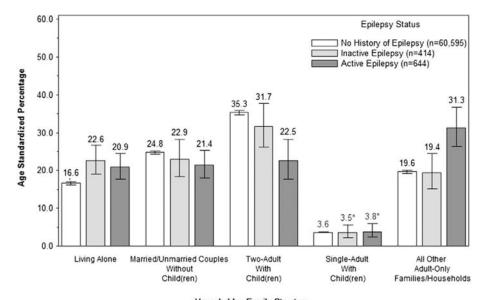
Among adults with active epilepsy, one in five lives alone and less than one in four live in households with two adults and children. More adults with active epilepsy live in multiperson households than those without the disorder. Adults with epilepsy living alone may be at increased risk of injury associated with uncontrolled seizures, mental distress associated with social isolation, lower quality of life, and early mortality [6,7]. Adults with epilepsy who live in single-adult households with children face the same and added care-giving stress that might complicate their disorder. Epilepsy providers should consider household or family structure as a health determinant. Ensuring that these two groups of adults with epilepsy have access to instrumental and emotional resources is paramount. Further study assessing the type and quality of supportive relationships in other family structures for adults with epilepsy is also warranted.

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Household or Family Structure

Fig. 1. Age-standardized¹ percentage distribution of household or family structure² for adults (18 years and above) by epilepsy status³—National Health Interview Survey⁴, United States, 2010 and 2013. Notes: \$\int 95\%\$ confidence interval for age-standardized percentage of each point estimate shown in the graph. *These estimates are unreliable because they have relative standard errors (RSE) 20% and b30%. ¹Estimates are age-standardized (18–24, 25-34, 35-44, 45-54, 55-64, 65+) using the projected 2000 US population as the standard population. ²Family structure is measured by an NHIS-recoded variable with 13 mutually exclusive response values that take into account parental marital status and the type of relationship (e.g., biological, adoptive, step-) between children aged 0-17 years and any parents present in the family. Because of the small sample sizes of some of these responses, we combined and further recoded them into five levels. For example, married/unmarried couples include both married and unmarried couples without any children. Two-adult households/families with child(ren) consist of five categories: parents with child(ren), one parent and one step-parent with child(ren), one parent and one cohabiting partner with child(ren), at least one parent and other related adults with child(ren), and other related and/or unrelated adults with child(ren). Single-adult households/families include responses of mother with child(ren) only, father with child(ren) only, and all other single-adult with child(ren) categories. All other adult-only households/families include categories of all other adult-only families and living with roommate(s). ³Epilepsy status is measured based on responses to three questions, 1). "Have you ever been told by a doctor or other health professional that you have a seizure disorder or epilepsy?"; 2). "Are you currently taking any medicine to control your seizure disorder or epilepsy?"; and 3). "Today is [fill: Current Date]. Think back to last year about the same time. About how many seizures of any type have you had in the past year." Adults who responded "No" to the first question were considered as having no history of epilepsy. Respondents who answered "Yes" to the first question, "no" or "do not know" to the second question, and reported having zero seizures during the past year for the third question were considered as having inactive epilepsy.

Adults who answered "yes" to the first two questions or if they reported one or more seizures during the past year in response to the third question were considered as having active epilepsy. The case-ascertainment questions and case-classification definitions follow standards for epidemiologic studies of epilepsy and have acceptable positive predictive value for identifying clinical cases of epilepsy [5]. ⁴Estimates are based on household interviews of a nationally representative sample of the noninstitutionalized U.S. civilian population and are derived from the National Health Interview Survey. This analysis used the sample adult, person, and family files and was weighted using sample adult weight. Complex survey design was also accounted for.