

Article

Oral health should be considered when working with adults with intellectual disabilities, and larger, higher-quality studies in this area are needed

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Commentary on: Ward, LM., Cooper, SA., Hughes-McCormack, L., et al. **Oral health of adults with intellectual disabilities: a systematic review.** *Journal of Intellectual Disability Research.* May 2019. <https://doi.org/10.1111/jir.12632>

Commentary

Implications for practice and research

- Larger, higher-quality studies are needed to investigate the oral health needs of adults with intellectual disabilities.
- Specific training in oral hygiene care and oral disease management should be given when working with adults with intellectual disabilities.

Context

Poor oral health can have a harmful influence on an individual's self-esteem, self-image, social interaction, stress, mood and can cause other health problems (1). In a previous systematic review, it was highlighted that adults with intellectual disabilities were more likely to experience poor oral health compared to the general public (2). Since this publication there has been a wide range of international research and policy development looking at specifically improving oral health for adults with intellectual disabilities (3). This systematic review carried out by Ward and colleagues examined if adults with intellectual disabilities still experienced poor oral health, and if so, to what extent (4). The secondary objective was to identify what were the most common methods used to examine oral health within the relevant literature.

Methods

This PROSPERO registered systematic review searched multiple databases (EMBASE, MEDLINE, PsycINFO, WoS) from 2008 to July 2018. Only English language peer reviewed observational studies which examined oral health status of adults (aged 18+) with intellectual disabilities living in the community were included. Screening and data extraction were carried out by one reviewer with 10% of screened studies and quality assessment (Critical Appraisal Skills Programme) being verified by a second reviewer.

Findings

The findings from the review highlight that adults with an intellectual disability still experience poor oral health. Poor gingival health was frequently reported, with gingival signs being reported in 23.3% to 88.1% of adults with an intellectual disability. The more severe form of periodontal health of periodontitis were identified in 22.5% to 69.2%. In addition to poor periodontal health there was a “high prevalence” of untreated dental decay with the prevalence of decayed teeth ranging from 26% to 52.9%. The most commonly used method to identify these issues was clinical oral examination.

Commentary

This review adds to findings from previous systematic reviews which have identified a high prevalence of poor oral health in adults with an intellectual disability (2). The methodology was clearly and concisely reported, however there are three main fundamental issues which should be considered when interpreting the results of this review.

The first issue is that studies used heterogeneous samples of participants. That is, these participants varied in age, gender, type of disability and country of origin. This wide variation makes it difficult to synthesize the findings from the included studies, as they all looked at a different population (5). The second issue is that a majority of the included studies, as acknowledged by the authors, may not be representative of the general population of adults with an intellectual disability: some studies used dental service users (only) or Special Olympics participants (only). Based on these issues it is questionable how these findings can be generalized to the general population of adults with an intellectual disability.

The third issue relates to the review’s use of comparisons. For example, inappropriate comparisons were made between different definitions and measures used in oral health. In addition, there were few identified studies using a control group to compare the oral health of people with intellectual disabilities to members of the general public.

Due to the first two issues and other aspects of the included studies, the primary evidence was identified to be of low quality. Although some of these limitations were addressed and contextualized within the discussion section, extreme caution should be taken when interpreting the results. Despite the poor-quality primary evidence and lack of appropriate comparison, specific training in oral hygiene care and oral disease management should be given when working with adults with intellectual disabilities. Furthermore, the review’s findings do highlight the need for further robust research (including prevalence and incidence studies, controlled trials, and qualitative studies) to explore oral health needs and issues for individuals with intellectual disabilities.

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Competing interests

I have no conflicts of interest with any aspect of this publication