



Health inequalities: Dysphagia

Introduction

Dysphagia (difficulty in eating, drinking or swallowing) is associated with serious health complications and psychosocial consequences. Aspiration pneumonia is of particular concern due to its link with subsequent morbidity and mortality^{1 2 3}.

Prevalence and risk factors

For the general population, literature reviews have reported dysphagia prevalence rates ranging from 2.3 to 16%⁴ and 1.7 to 11.3%⁵, with prevalence being higher in older people.

For people with learning disabilities, estimates vary from 1% of adults without cerebral palsy, to 99% of children with severe generalised cerebral palsy and learning disability⁶. Estimates from population-based samples of people with learning disability from areas of England give rates of 8.1%⁷ and 11.5%⁸ of adults known to formal learning disability services. However as both estimates are reliant on dysphagia initially being recognised by caregivers or professionals, who may under-recognise dysphagia, actual prevalence may be higher⁶.

A large-scale population-based study in Greater Glasgow incorporating health assessments found a prevalence of 14.4%, with higher prevalence in those with more severe learning disabilities (for example profound learning disability OR 10.50, 95% CI 6.13-17.98)⁹. For England, data from 47% of GP practices in England for 2017/18 indicate that 5.0% of patients with a learning disability also had a diagnosis of dysphagia, with the highest prevalence recorded in patients aged 75 and over (11.7%)¹⁰. Dysphagia is more common in people with more severe learning disabilities, in people with learning disabilities who have cerebral palsy, and is also associated with motor impairment⁶. Specific syndromes associated with learning disabilities can result in both anatomical and neurological precursors for dysphagia, including Down syndrome¹¹, Rubinstein Taybi syndrome¹², and Rett syndrome¹³. People with learning disabilities have also been shown to be at a higher risk of choking^{14 15}.

Impact on people with learning disabilities

Aspiration (breathing food or liquid into the lungs) is common in people with learning disabilities and dysphagia¹⁶. Many of those who aspirate do so silently (aspiration without a cough or other sign), which may go unnoticed and have chronic health implications¹⁶. Respiratory infections and choking are common in people with learning disabilities and dysphagia.

Respiratory disease, particularly bronchopneumonia, is a leading cause of death in people with learning disabilities, in particular in those with profound and multiple disabilities, accounting for significantly more deaths than in the local general population^{1 17}.

Preventable lung inflammation caused by solids or liquids, or foreign bodies, has also been associated with mortality in people with learning disabilities¹⁴. The issue of dysphagia in people with learning disabilities may be complicated by co-occurring physical health issues, psychiatric, communicative, cognitive and behavioural issues. For example, there is a link between the side-effects of neuroleptic medications and dysphagia¹⁸ and people with learning disabilities are more likely than others to be prescribed these types of anti-psychotic medication¹⁹.

Behavioural factors which may be an issue for people with learning disabilities (such as pica, cramming food and eating and drinking quickly) may also exacerbate dysphagia symptoms^{20 21}. Learning disability may also impact on the ability to learn compensatory strategies and retain skills²².

Finally, some people with learning disabilities may be unable to communicate verbally their dysphagia related experiences.

Healthcare and treatment

There is very little research evidence available on current practice in relation to supporting people with learning disabilities and dysphagia¹⁶. Individualised interventions include altering positioning, modification of food and drink consistency, giving advice on equipment, and working on the physical environment through carer training²³. Noncompliance with dysphagia management advice in people without learning disabilities has been associated with adverse outcomes, including chest infection, aspiration pneumonia, and death²⁴. Numerous barriers to compliance with eating and drinking recommendations have been identified²⁵. Education to increase knowledge of dysphagia and its associated risks amongst caregivers can increase adherence to dysphagia management guidelines¹⁶. There is an urgent need for research on improving the management of dysphagia in people with learning disabilities including positioning, dietary modification and long-term postural care

which may prevent changes in body shape that can cause problems with swallowing^{26 27}.

The quality of caregiver support provided to people with learning disabilities and dysphagia can have an influence on health and ultimate risk of death²⁰. Despite dysphagia being identified as a key risk area for people with learning disabilities²⁸, less than 20% of inpatients with learning disabilities were found to have received a swallowing assessment²⁹.

Social determinants

The problems associated with dysphagia may be compounded by social determinants of health such as the quality of social care support received and access to appropriate healthcare, although research investigating these issues is lacking.

Resources

Public Health England (2016) [Dysphagia and people with learning disabilities](#)

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