

Context setting

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OverviewThe importance of appropriate management of dysphagia

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Definition of Dysphagia

 "Difficulty swallowing (dysphagia) means it takes more time and effort to move food or liquid from your mouth to your stomach."

Estimates of Dysphagia Prevalence

- Stroke
- Head/neck cancer
- Acquired Brain injury
- Brain or CNS Cancer
- Respiratory conditions
- Following cervical spinal surgery
- Progressive neurological diseases
- Parkinson's Disease and Dementia
- Developmental disorder (carried on into adulthood)

Stroke

Stroke 200/100,000 per UK population each year affected by stroke (Mann et al 1999) Studies report an incidence of dysphagia of between 40% and 78% Of those with initial dysphagia following stroke 76% will remain with a moderate to severe dysphagia and 15% profound

Progressive Neurological Disease

Dysphagia can be an initial symptom in a small number of people with progressive diseases such as Parkinson's disease, multiple sclerosis and motor neurone disease, but the majority will develop dysphagia with progression of the disease

200/100,000 UK population have dysphagia due to Parkinson's disease (Hartelius and Svensson 1994). More than 90% of those with motor neurone disease will develop dysphagia

Chronic Obstructive Pulmonary Disease

Around 2% of the whole population – 4.5% of all people aged over 40 – live with diagnosed COPD.

27% (McKinstry et al 2009)

Dementia

> 850,000 in UK

68% of those with dementia in homes for the aged have dysphagia (Steele 1997)

Adult Learning Disability

5.27% of all adults with a moderate to severelearning disability

Nursing home residents/Frail Elderly

 Between 50 and 75% of nursing home residents

Estimates of Prevalence of Swallowing Difficulties

- Presbyphagia refers to age-related changes in the swallowing mechanism in the elderly
- Sarcopenic dysphagia is difficulty swallowing due to loss of muscle mass and strength.

Both are associated with increasing age (Wakabayashi, 2014).

Does dysphagia matter?

The type and severity of dysphagia has been associated with:

- the risk of pneumonia (Bray et al., 2016; Palli et al., 2017; Masrur et al., 2013; Titsworth et al., 2013; Finlayson et al., 2011; Westendorp et al., 2011; Lakshminarayan et al. 2010; Sellars et al., 2007; Hinchey et al., 2005; Martino et al., 2005)
- mortality (Ingeman et al., 2011; Koennecke et al., 2011; Katzan et al., 2003; Vernino et al., 2003)
- poor outcomes (Turner et al., 2015; Middleton et al., 2011; Bravata et al., 2010;)
- COSTS (Katzan et al., 2007; Odderson et al., 1995)

Levels of Intervention

- Assisting all individuals to enjoy mealtimes
- Being alert to identify swallowing difficulty
- Identifying the level of risk of anybody with a swallowing difficulty
- Screening to identify the particular difficulty and referring forward if necessary
- Detailed assessment by speech and language therapists

(Competency framework is to be addressed later)

Summary of the Literature

Bray et al. (2016) interrogated the Sentinel stroke audit data of 63,650 patients admitted with acute stroke, (88%) had a dysphagia screen, and (39%) a comprehensive dysphagia assessment(SLT).

Patients with the longest delays in dysphagia screening and SLT dysphagia assessment had a higher risk of stroke associated pneumonia (SAP).

The risk of SAP increased with delays in SLT dysphagia assessment, with an absolute increase of pneumonia incidence of 1% per day of delay.

The Tragedy of the Commons

Out comes of common ownership

"If everybody owns it, it's as if nobody owns it."









#DysphagiaResearch



helped prioritised the final questions







#DysphagiaResearch

30 research questions have been identified as areas of priority, published in 3 lists

10 Paediatric Questions 10 General Questions



10 Adult Questions





Dysphagia: Top 10 adult research priorities

- I. Does the use of thickener in fluids reduce aspiration pneumonia and/or improve hydration and/or quality of life in adults with dysphagia?
- 2. What is the feasibility of predicting aspiration pneumonia (pneumonia associated with food or liquid going into the lungs rather than the digestive system) in adults with dysphagia who have capacity to consent and are at risk of aspiration on all food consistencies?



Dysphagia: Top 10 paediatric research priorities

- I.Are oro-motor therapy techniques effective and cost-effective in improving eating and drinking and health outcomes for children and young people with nonprogressive neurological conditions?
- 2. Does cervical auscultation (listening to the sounds that accompany swallowing using a stethoscope placed on the neck) improve (a) identification of swallowing difficulties in children, and (b) carer's understanding of children's swallowing when they listen to the auditory feedback whilst their child is swallowing?



Dysphagia: Top 10 general, non-age group specific research priorities

- I. Do people with dysphagia and/or their families/carers carry out recommendations to improve the safety/effectiveness of swallowing at meal times? What strategies are effective to improve compliance with recommendations for postural changes?
- 2. What is the impact of thickening fluids on the physiology and wellbeing of (a) children and (b) adults with dysphagia?

