

OBJECTIVES

- · What is Oral Health
- Oral Health & General Health
- Impact of Stroke on Oral Health
 Role of nursing in oral health
- OH care





IMPACT OF STROKE — OROFACIAL MANIFESTATIONS • Unilateral facial paralysis — complete or partial loss of motor and/or sensory function • Dysphasia or loss of sensation — Unable to recognize that food/medications remains in their mouth. — lnability to feel extreme temperature — Inability to wear dentures comfortably — Poor tongue function and lip seal

IMPACT OF STROKE - OROFACIAL **MANIFESTATIONS**

- · Hypogeusia or Decreased ability to taste foods
 - Change in food preferences
 - Pureed or chopped foods
 - Risk of caries and halitosis
- Motor impairments -
 - Difficulty in speech, mastication and swallowing
 - Potential for aspiration of foods and fluids

Lyons et al. (2018). Oral care after stroke: Where are we now? European Stroke Journal.

IMPACT OF STROKE - DYSPHAGIA

- Present in >50% of new stroke cases
- 11-13% remains dysphagic after 6 months
- Risk of developing pneumonia increases 3x if dysphagia is present
- Risk of developing pneumonia increases IIx if there is confirmed
- 3x greater risk of mortality with diagnosed of pneumonia after stroke

Armstrong, J. R., & Mosher, B. D. (2011). Aspiration pneumonia after stroke: intervention and prevention. The Neurohospitolist. (12), 85-93.

Cohen et al (2016). Post-stroke dysphagia: A review and design considerations for future trials. International Journal of Stroke 2016, Vol. 11 (4), 339–411

IMPACT OF STROKE - LIMB PARALYSIS

- Paralysis on the dominate side will affect the person's ability for self-care.
- . During the first weeks after the stroke, total care is necessary and should include oral care.
- After physical and occupational therapy, some self-care may be achieved. However, some assistance may still be required.
- · Oral hygiene procedures may be extremely difficult to perform without assistance and

Lyons et al. (2018). Oral care after stroke: Where are we now? European Stroke Journal.

IMPACT OF STROKE - SECONDARY

- Poor oral hygiene
- · Xerostomia
- Dental Caries
- · Increased Bleeding Periodontal Disease
- Lyons et al. (2018). Oral care after stroke: Where are we now? European Stroke Journal.

 Armstrong, J. R., & Mosher, B. D. (2011). Aspiration pneumonia after stroke: intervention and prevention. The Neurohospitolist. (12), 85-93.

 Chohen et al. (2016). Rota-stroke dysphagia: A review and design considerations for future trials. International Journal of Stroke 2016; Vol. 11(4), 399-411.

ORAL HEALTH RELATED QUALITY OF

- Dentate patients with stroke greater risk of caries and periodontal disease
- · Edentulous with dentures difficulty cleaning their mouth and dentures
- · Some dependency on carers
- Loss of sensation may cause concern as oral pain is often and indication of oral disease
- Pain from dental trauma ulcerations

ROLE OF NURSES

- Unique role in an integrated care program
- First line of contact maintain close relationship throughout their acute
- Oral care needs to be incorporated into daily management routine

Ajwani et al (2017). Integrated oral health care for stroke patients - a scoping review. <u>J Clin Nurs</u>. 2017 Apr;26(7-8):891-901. doi: 10.1111/jocn.13520. Epub 2016 Dec 7.



Irish Heart Foundation:

Council for Stroke

National Clinical Guidelines and Recommendations for the Care of People with Stroke and Transient Ischaemic Attack

> Revised Version March 2010

Oral Care

- All stroke patients should have an oral/dental assessment, which includes screening for obvious signs of dental disease, level of oral care and appliances, upon or soon after admission. (R)
- All patients who are not swallowing, including those with tube feeding should
 have oral and dental hygiene maintained (by the patient or cares) through
 regular (four-hourly) brashing of teeth, dentures and gams with a suitable
 cleaning agent (toothpaste or chlorhexidine gluconate dental gel) and removal
 of secretions. (B)
- All patients with dentures should have their dentures put in appropriately during the day, cleaned regularly, checked and replaced by a dentist if ill-fitting, damaged or lost. (R)
- All patients with swallowing difficulties and/or facial weakness who are taking food orally should be taught or helped to clean their teeth or dentures after each meal. (R)
- Staff or carers responsible for the care of patients disabled by stroke should be trained in assessment of oral hygiene, selection and use of appropriate oral hygiene equipment and cleaning agents, and in recognition and management of swallowing difficulties or dysphagia. (R. 1)

Royal College of Physicians

National clinical

guideline for stroke

4.11.1 Recommendations

- People with stroke, especially those who have difficulty swallowing or are tube fed, should
 - have mouth care at least 3 times a day including:

 brushing of teeth and cleaning of gums with a suitable cleaning agent (toothpaste and/or chlorhexidine dental gel), for which an electric toothbrush should be considered;
 - removal of excess secretions; application of lip balm.
 - People with stroke who have dentures should have their dentures:
 - put in during the day;

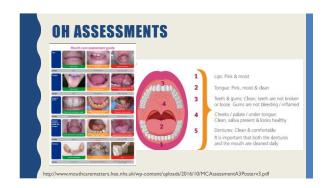
 - cleaned regularly using a toothbrush, toothpaste and/or chlorhexidine dental gel;
 checked and replaced if ill-fitting, damaged or lost.

People in hospital or living in a care home after stroke should receive mouth care from staff who have been trained in:

- assessment of oral hygiene:
- selection and use of appropriate oral hygiene equipment and cleaning agents;
- provision of oral care routines;
- awareness and recognition of swallowing difficulties.

 People with stroke and their family/carers should receive information and training in mouth care and maintaining good oral hygiene before transfer of their care from hospita





















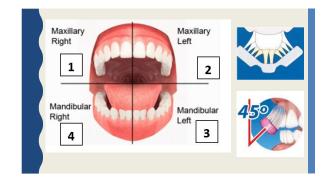
PRODUCTS

Brands of non-foaming (SLS free) toothpaste and the fluoride content

1450ppm 1450ppm Pranurse unflavoured toothpaste 1450ppm ensodyne pronamel 1450ppm 1000ppm 1400ppm Aquafresh children's little teeth Oralieve moisturising toothpaste 1450ppm 1450ppm 1000ppm

Use of antimicrobials

- Chlorhexidine Gluconate
 - Gel - Spray





- Foam swabs or toothettes do not remove plaque bacteria and food from the teeth and should not be substituted for a toothbrush. (Marino et al, 2016)
- Risk of aspiration and choking as the foam can become detached or be bitten off, especially if it
 is left soaking in liquid, even for a few minutes.
- $\bullet\,$ To be used only for application of mouth rinses or lubricating agents

- Glick M! Williams DM! Kienman DM! Mulick M! VMatt RG! Weyart R]*. (2016) A new definition for oral health developed by the PDI World Dental Federation opens the door to a universal definition of oral health. Ex Dental. (2016 Des 16.2(1)(2):792-793. doi: 10.1086/glab.2016.953.
 Body Postions and Functional Training to Reduce Appraison in Extense with Dysphagia JMAJ 54(1): 35–38, 2011 Hittosh KAGARA*1 Yoko INAMPOTO: 2 Sumiko OKAGA.*3 Elich SATIOHY
- Seymour GJ. Good oral health is essential for good general health: the oral-systemic connection. Clin Microbiol Infect. 2007;13(Suppl 4):1-2.
- Kane SE (2017) The effects of oral health on systemic health, Gen Dent 2017 Nov-Dec(55(6):30-34.
 Brady M. Eurhanetto D. Hunter RV, Lewis S. Milney. (2006) Staff-led interventions for improving oral hygiene in patients following stroke. Codrane Database Syst Res 2006 Oct 18(4):CD003864.
- 184(1):LUUJ0804. "Murray!", Scholten II. (2018). An oral hygiene protocol improves oral health for patients in inpatient stroke rehabilitation. <u>Gerodontology.</u> 2018 Nar;35(1):18-24. doi:10.1111/jger.1290. Epub. 2017 Nov. 20. "Ajmori S. Joyandi S. Burkolter N. Anderson C. Blode S. Itosui R. George A. (2017). Integrated oral health care for stroke patients a scoping review. J Clin Nurs. 2017 Apr; 24(7-4):891-901. Epub. 2016 Dec 7.

- http://www.mouthcarematters.hee.nhs.uk/wp-content/uploads/2018/03/Order-Information-rollout-MCM.pdf
- http://www.knowledge.scot.nhs.uk/media/7460397/caringforsmilescarehomes2013.pdf page 37-
- Scannapieco FA. Role of oral bacteria in respiratory infection. J Periodontol. 1999; 70: 793-802.
- Scannapieco FA, Bush RM, Paju S. Associations between periodontal disease and risk for nosocomial bacterial pneumonia and chronic obstructive pulmonary disease: a systematic review. Ann Periodontol. 2003; 8: 54-69.
- Kwok C, McIntyre A, Janzen S, Mays R, Teasell R. (2014). Oral care post stroke: a scoping review. J Oral Rehabil. 2015 Jan;42(1):65-74. doi: 10.1111/joor.12229. Epub 2014 Sep 22. Review.