



SPEECH AND LANGUAGE THERAPY DEPT. ST JAMES HOSPITAL

PREVENTION OF ASPIRATION PNEUMONIA IN STROKE

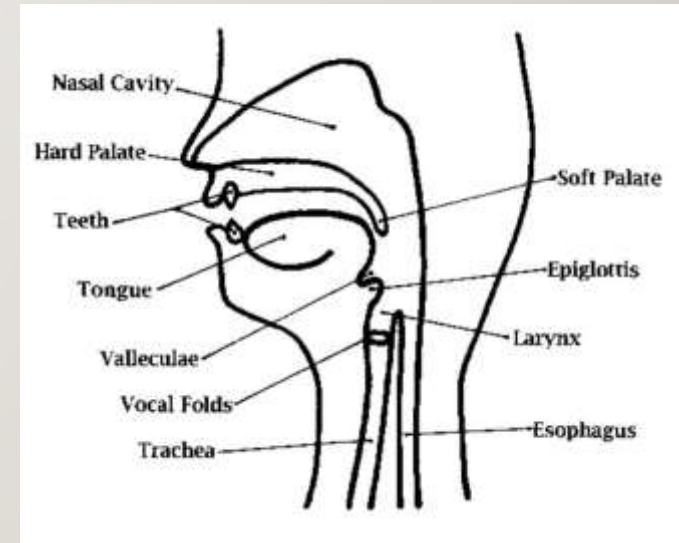
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CIARA MORAN SPEECH AND LANGUAGE THERAPIST

WHAT IS ASPIRATION PNEUMONIA

- The infectious pulmonary process that occurs after abnormal entry of fluids into the lower respiratory tract is termed aspiration pneumonia
- It can be oro-pharyngeal secretions
- Ingested food or drink
- Gastric contents

(Raghavendra et al., 2020)



MAIN CAUSES OF ASPIRATION PNEUMONIA POST STROKE

- Oro-pharyngeal dysphagia caused by damage to areas in the brain involved in controlling muscles and cranial nerves involved in swallowing
 - Incidence of dysphagia post stroke is 50%(Flowers et al, 2018)
 - Associated with prolonged hospital stay, disability, and death (Schepp et al. 2012)
- Consider other co-morbidities such as progressive neurological disorders, head and neck cancer

ORO-PHARYNGEAL DYSPHAGIA POST STROKE

- Reduced oro-pharyngeal sensation
- Reduced muscles movement and / or contraction caused by weakness or apraxia
- Weakened cough reflex
- Delayed swallow reflex trigger



WHAT HAPPENS WHEN SOMEONE PRESENTS TO HOSPITAL WITH A STROKE

- TOR BSST (Toronto Bedside Swallow Screening Test). Patients at risk or identifying with difficulties eating and drinking who are FAST +ive are screened by a trained healthcare professional within 4 hrs of presenting to hospital– CNS, Reg, HASU nurses
- National guidelines
- Pass / Fail aspiration screen
- Can identify aspiration and the need for further clinical swallow evaluation
- Does not identify silent aspiration
- Allows early identification those patients who do not need a formal evaluation and who can safely take food and medications by mouth (where previously these patients would have been kept NBM until Monday)
- Important for patients with time sensitive medications or with blood sugar level sensitivities

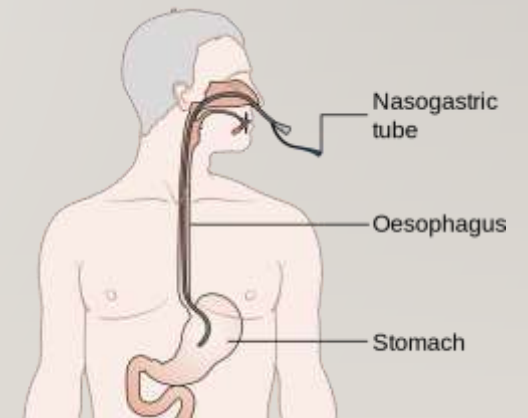
WHAT HAPPENS NEXT ..



- Pass – safely commence oral intake
- Fail – aspiration risk identified patient made NBM and referred to SLT for further swallow ax
- If any concerns around swallow or communication post stroke, regardless of TOR BSST outcome, **please refer to SLT** for further input

NBM – NIL BY MOUTH

- No food or drink to be given orally to reduce the risk of aspiration if dysphagia is suspected or if the patient is not alert enough for oral intake
- Alternative feeding should be considered, particularly if over a weekend to reduce the amount of time a person is without nutrition and hydration
- Alternative feeding options as discussed by Clinical Nutrition
- Oral care should be prioritized



SLT ROLE IN PREVENTION OF ASPIRATION PNEUMONIA



- Modification of diet and fluids based on bedside assessment
- Monitoring and regular review of recommendations or NPO status
- Objective swallow assessment – VFU & FEES
- Swallow rehab
- Strategies and environmental precautions and educating caregivers
- Chest monitoring – CXR, CRP, physio & medical team notes
- Ensuring regular oral cares and oral hygiene is adequate
- Liaison with MDT – medical team, nursing, clinical nutrition, physio & OT

SLT BEDSIDE SWALLOW ASSESSMENT

- Assess oro-motor function
- Communication status – screening and assessment
- Oral trials
- IDDSI food and drink levels
- Identify most suitable food and drink recommendations that reduce risk of penetration and /or aspiration
- Identify the necessary environmental strategies and level of assistance required to reduce risk of penetration and /or aspiration



