Toolkit for eating and drinking with dysphagia in MND

West Yorkshire & Harrogate MND Special Interest Group (WY&H)

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Why this toolkit?

Developing PEG pathway but

- PEG not wanted / "not yet"
- deferred, now wanted, risks > benefits

Supports people affected by MND, supports staff

Discussion at WY&H MND special interest group

- fully informed decision, with capacity=> valid to decline
- what can we offer?
- difficult to find existing guidelines



Interested professionals from Harrogate, Leeds, Calderdale and Huddersfield, support from MND Association

Online meetings over the last 6 months

Individually reviewed **existing guidelines** for components of this toolkit e.g. coughing and choking, saliva management

What?

It is: 🔻

- Toolkit of references
- Pragmatic guidance
- Useful for non-specialists
- This presentation is an opportunity for us to gain your feedback so we can improve the toolkit

It is not: 🗴

- The result of an extensive systematic literature review
- Universally applicable to all teams/areas would need adapting to local practice

What?



Background notes

Specific guidelines

Secretion management Fluid intake

Summary pathway

Patient held care plan



Background notes

Summarise context and existing guidelines and literature:

Impact of gastrostomy (ProGas study)

Current studies re nutrition and outcomes in MND (HighCALS, OptiCALS)

Feeding tube pathways

Risk stratification tools (Middlesbrough)

Impact of psychology on decision making and behaviour

Psychological / physical / pharmacological / complementary therapies to manage symptoms and complications

Suggested systems

What?

West Yorkshire & Harrogate MND special interest group

Background notes for Eating and drinking with dysphagia

National guidelines recommend early discussions with people with MND (pwMND) regarding gastrostomy. The ProGas study, looking at clinical outcomes following gastrostomy, found that maximum benefit was derived when the gastrostomy was inserted at 5% weight loss. However, the average time from diagnosis to elective gastrostomy for the cohort was 16.7 months. During this time, people may be coping with symptoms related to dysphagia and they may also be in a psychological process of adaptation. Multiple pwMND, carer and health service factors have been reported to complicate decision making and lead to pwMND delaying making decisions. ProGas also showed that risks from gastrostomy insertion increase once weight loss exceeds 10%, and as respiratory function deteriorates. In addition, for some people living with MND, cognitive change may challenge their ability to accept a gastrostomy; either due to a lack of insight or ability to plan ahead, or due to changes to mental capacity. Communication may also become more difficult as time progresses, and therefore there is an optimal window of time for each person to have a gastrostomy if they want one, both of in terms of safety of the procedure, and gaining maximum benefits.

Summary Pathway

Prompt to explore nutritional status and swallowing Professional decision –

? Offer tube (net benefit?)

Person's decision –

? Accept tube if offered

Mental capacity factors

If no feeding tube:

- optimising intake/minimising risks
- managing symptoms and complications

Need for regular review – decisions, support



Eating and drinking with dysphagia – Summary pathway

Person eating and drinking with dysphagia

Take into account

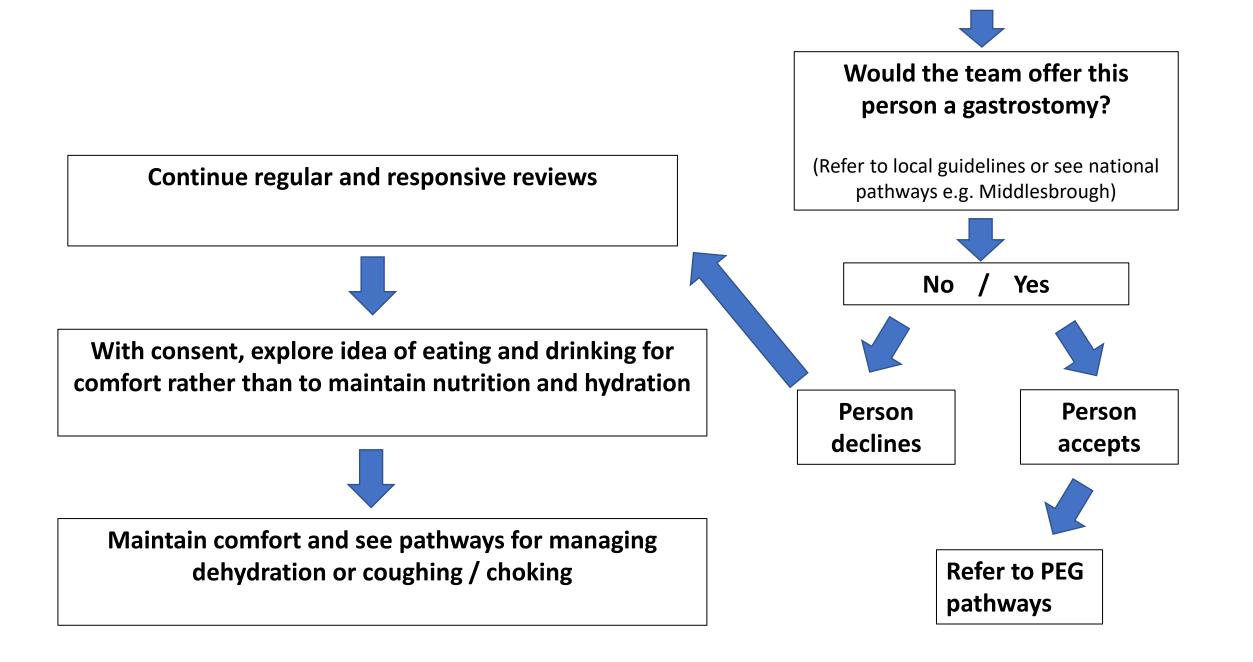
- Understanding wishes, preferences and priorities
- Fluid / food intake vs hydration and nutritional needs
- Appetite and thirst
- Gastrointestinal symptoms (e.g. nausea / constipation)
- Causes of decreased oral intake (e.g. swallow difficulty; breathlessness or NIV use; limb weakness or possibility of low mood or depression causing lack of appetite)
- Implications for swallowing medication
- Person's capacity for planned decisions whilst considering that the person may eat and drink in a different way to their planned decision either due to quality-of-life factors *in the moment* or due to behavioural / cognitive change (consider ECAS)
- If concerns re mental capacity, liaise with consultants and GP and consider if the following are in place / appropriate:
 - Mental capacity assessment
 - Best interest assessment
 - Advance Care Planning, Advance Directive to Refuse Treatment, Lasting Power of Attorney, IMCA etc
 - Court appointed Welfare Deputy

At diagnosis; MDT assessments and review or if there are any concerns about

- Weight
- Nutrition
- Swallow

Assess weight, nutritional intake, fluid intake, hydration, oral-health, feeding, drinking and swallow









Management of fluid intake, dehydration & symptoms

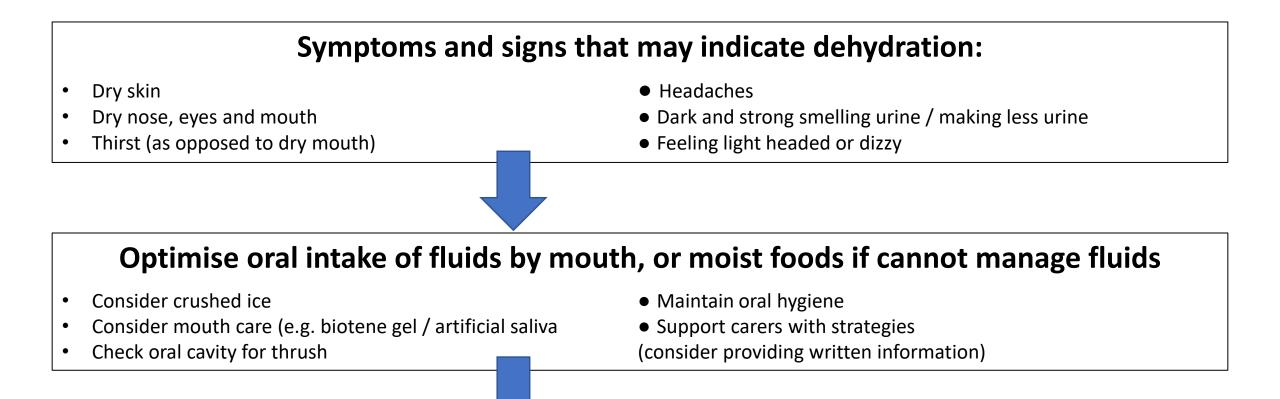
Recognise dehydration (signs & symptoms)

Optimise oral intake

If unresolved symptoms

- ? SC fluids locally
- symptom control

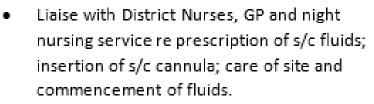
Eating and Drinking with Dysphagia – Fluid intake



If symptoms are not improving: (e.g. thirst, headaches)

- Consider subcutaneous fluids if available locally
- Discuss practicalities, benefits and burdens with patient and Healthcare Team

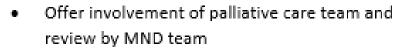
Health care team can facilitate subcutaneous fluids, and Patient wishes to pursue



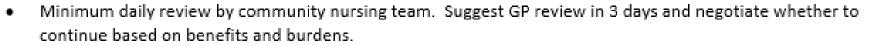
Refer to local guidelines for more detail



Patient declines or primary health care team express concern



- Continue symptomatic measures
- If prognosis likely to be days as a result of reduced oral intake, consider offering sedation to reduce discomfort that results from dehydration



 Monitor for changes in condition that might suggest the person is starting to <u>die, and</u> commence usual symptom control measures; consider offering sedation to reduce discomfort that results from dehydration.

What?

Secretion management

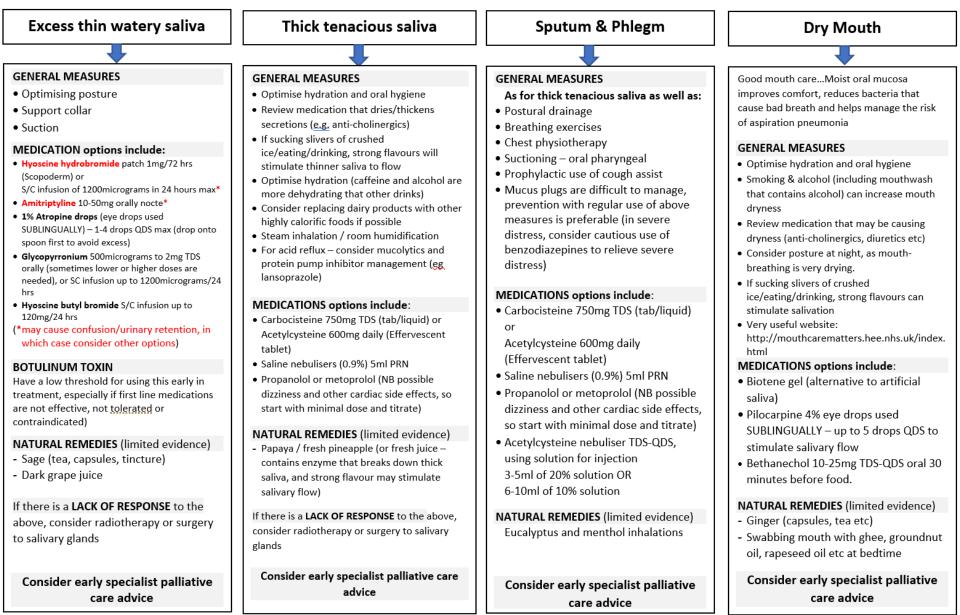
Excess thin saliva

Thick / tenacious saliva

Sputum

Dry mouth

Eating & Drinking with Dysphagia – Secretion management)



If choking, consider laryngospasm as a possible cause. If laryngospasm is a factor, manage thin saliva and consider breathing exercises, and medications to reduce future episodes - muscle relaxants (e.g. baclofen) and/or anxiolytics (e.g. lorazepam).

Excess thin watery saliva

GENERAL MEASURES

- Optimising posture
- Support collar
- Suction

MEDICATION options include:

- Hyoscine hydrobromide patch 1mg/72 hrs (Scopoderm) or S/C infusion of 1200micrograms in 24 hours max*
- Amitriptyline 10-50mg orally nocte*
- 1% Atropine drops (eye drops used SUBLINGUALLY) – 1-4 drops QDS max (drop onto spoon first to avoid excess)
- Glycopyrronium 500micrograms to 2mg TDS orally (sometimes lower or higher doses are needed), or SC infusion up to 1200micrograms/24 hrs
- Hyoscine butyl bromide S/C infusion up to 120mg/24 hrs

(*may cause confusion/urinary retention, in which case consider other options)

BOTULINUM TOXIN

Have a low threshold for using this early in treatment, especially if first line medications are not effective, not tolerated or contraindicated)

NATURAL REMEDIES (limited evidence)

- Sage (tea, capsules, tincture)
- Dark grape juice

If there is a LACK OF RESPONSE to the above, consider radiotherapy or surgery to salivary glands

Consider early specialist palliative care advice

Thick tenacious saliva

GENERAL MEASURES

- Optimise hydration and oral hygiene
- Review medication that dries/thickens secretions (<u>e.g.</u> anti-cholinergics)
- If sucking slithers of crushed ice/eating/drinking, strong flavours will stimulate thinner saliva to flow
- Optimise hydration (caffeine and alcohol are more dehydrating that other drinks)
- Consider replacing dairy products with other highly calorific foods if possible
- Steam inhalation / room humidification

MEDICATIONS options include:

- Carbocisteine 750mg TDS (tab/liquid) or Acetylcysteine 600mg daily (Effervescent tablet)
- Saline nebulisers (0.9%) 5ml PRN
- Propanolol or metoprolol (NB possible dizziness and other cardiac side effects, so start with minimal dose and titrate)

NATURAL REMEDIES (limited evidence)

 Papaya / fresh pineapple (or fresh juice – contains enzyme that breaks down thick saliva, and strong flavour may stimulate salivary flow)

If there is a LACK OF RESPONSE to the above, consider radiotherapy or surgery to salivary glands

Consider early specialist palliative care advice

Sputum & Phlegm

GENERAL MEASURES

As for thick tenacious saliva as well as:

- Postural drainage
- Breathing exercises
- Chest physiotherapy
- Suctioning oral pharyngeal
- Prophylactic use of cough assist
- Mucus plugs are difficult to manage, prevention with regular use of above measures is preferable (in severe distress, consider cautious use of benzodiazepines to relieve severe distress)

MEDICATIONS options include:

 Carbocisteine 750mg TDS (tab/liquid) or

Acetylcysteine 600mg daily (Effervescent tablet)

- Saline nebulisers (0.9%) 5ml PRN
- Propanolol or metoprolol (NB possible dizziness and other cardiac side effects, so start with minimal dose and titrate)
- Acetylcysteine nebuliser TDS-QDS, using solution for injection
 3-5ml of 20% solution OR
 6-10ml of 10% solution

NATURAL REMEDIES (limited evidence) Eucalyptus and menthol inhalations

Consider early specialist palliative care advice

Dry Mouth

Moist oral mucosa improves comfort and reduces bacteria that cause bad breath

GENERAL MEASURES

- Optimise hydration and oral hygiene
- Smoking & alcohol (including mouthwash that contains alcohol) can increase mouth dryness
- Review medication that may be causing dryness (anti-cholinergics, diuretics etc)
- Consider posture at night, as mouthbreathing is very drying.
- If sucking slithers of crushed ice/eating/drinking, strong <u>flavours</u> can stimulate salivation

MEDICATIONS options include:

- artificial saliva (gel/spray)
- Pilocarpine 4% eye drops used
 SUBLINGUALLY up to 5 drops QDS to stimulate salivary flow
- Bethanechol 10-25mg TDS-QDS oral 30 minutes before food.

NATURAL REMEDIES (limited evidence)

- Ginger (capsules, tea etc)
- Swabbing mouth with ghee, groundnut oil, rapeseed oil etc at bedtime

Consider early specialist palliative care advice



Patient held record

Care plan specific to eating and drinking with dysphagia

current recommendations for optimal safety and comfort

documentation of discussions with patient / family

Patient held record



Eating and drinking advice for Bertie

(fictitious example only - something like this might be updated by the SLT and dietician and referred to by the MDT so they are aware of anything to follow up.)

Date·of∙ review¤	Current·advice·on·eating·and·drinking·(swallow·techniques; positioning; texture modification; food fortification)¤
	We reviewed your swallow today, you are managing minced and moist foods and
21st. March	aiming. for two-snacks a day as well. M
2022¶	Я
	You are practicing chin tucks to help you swallow. I
	ท
	Whilst eating, try a chair with arms and remember to stay upright for 30.
	minutes after eating. Swap lunch and dinner so you have your main meal
	when you are less tired. A
	প
	We talked about the PEG Dr. Brain had asked you about it at clinic, but you do
	not feel it is right for you at the moment. You are happy that we continue to
	weigh you and ask you and Brenda how you are getting on with mealtimes. A
	প
	You can also talk to any one of us if you are worried about your weight,
	swallowing or coughing and choking after meals. I

Thanks to

- Pharmacist Helen Dove and medicines information team at CHFT
- The wider multi disciplinary team across West Yorkshire who contributed knowledge, experience and wisdom into the pathway
- Jennifer Benson (Speech and Language Therapist)