Medication for the Terminal Patient Who Can't Swallow

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I have no financial relationships to disclose

Route and medication list not all inclusive

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Why This Topic

- All Internists care for patients with dysphagia and /or terminal patients
- Addressing medications in all care settings for patient with dysphagia often not done well
 - ESPECIALLY THE HOSPITAL!! "NPO"
- More patients may be able go home to die
- Call nationally for appropriate opioid dosing

- Definition difficulty in swallowing that may include oropharyngeal or esophageal problems
- Eating is one of the most basic human needs/pleasure – difficulty is swallowing can cause social/emotional isolation
- May or may not be inherent in aging, but common in the elderly
- Incidence
 - 15 % in community-dwelling elderly
 - **50-75%** in nursing home population

Risk Factors in the elderly

- Medications and dysphagia
 - Xerostomia

—Anticholinergic drugs (tricyclic, antipsychotics, antihistamines, antispasmodics, antiemetic, antihypertensives)

• Esophageal/Laryngeal peristalsis

—Antihypertensives, antianginal

• Delayed neuromuscular responses

—Delirium causing, extrapyramidal side effects

• Esophageal injury/inflammation

----CCB, Nitrates relax lower esophageal sphincture

—Large pills

Assessment

- Primary care screening for the elderly
 - Example tool Dysphagia screening form- University of Wisconsin and Madison GRECC
 - One question test "Do you have difficulty swallowing food?"
 - Correlate symptoms of weight loss, cough and SOB
- Bedside clinician evaluation
 - 3 oz water swallow test, auscultate over trachea before and after water swallowed; eval for cough, choking change in breath sounds

Assessment and Diagnosis

- Physical Exam
 - Subtle voice changes (hoarseness, wet, hypernasal, dysarthria)
 - Absent or poor dentition
 - Tongue strength/oral control
 - Palate exam symmetry, mass
 - Head and neck
 - Gag reflex poor indicator of dysphagia

Disorders Associated with Dysphagia

Neuromuscular – affect the central control over muscles and nerves involved in swallowing (i.e. Parkinsons, CVA, ALS, Myasthenia gravis, MS) Rheumatologic – (i.e. Polymyositis, Dermatomyositis, Inclusion body myositis) Head and neck oncologic – Oropharyngeal cancer Pharyngeal structural – Zenkers Gastrointestinal – tumors, GERD, Schatzki ring (primarily esophageal but cause symptoms radiating to pharynx) **Diminished cough**

- Treatment
- Goal optimize safety of swallow, maintain adequate nutrition and hydration, improve oral hygiene
- Swallow therapy
 - Postural adjustments
 - Food and liquid rate and amounts (time to eat, small amounts, concentrate, alternate food and liquid, stronger side of mouth, sauces)
 - Adaptive Equipment
 - Diet modification

Treatment

- Dietary modifications (watch for dehydration)
- Aggressive oral care
- Modify eating environment
- Oral Hygiene
 - Also reduce risk of aspiration
- Consider palliative care Interdisciplinary
- Speech pathologist, dietician, OT, PT, nurse, oral hygienist, dentist, PCP, Caregivers, SW, family

Consequences

- Social isolation (embarrassment)
- Physical discomfort
- Dehydration
- Malnutrition
- Overt aspiration
- Silent Aspiration a bolus comprising saliva, food, liquid, meds or any foreign material enters the airway below the vocal cords without triggering overt symptoms
- Pneumonia, death

Dysphagia in Long-Term Care

- Common 50-75%
 - Aspiration leading cause of death in nursing home patients
 - Can stress nursing assistants with difficult feeding patients
 - —Place food in non-impaired side of mouth
 - —Limit use of straws
 - —Adaptive feeding equipment
 - -Restrictive diets

The non-fixable dysphagia

- Goal is enhanced quality of life
- Tube Feeding
 - Not essential in all patients who aspirate
 - No data to suggest TF in pts with advanced dementia prevented aspiration pneumonia, prolonged survival or improved function (aspiration pneumonia is the most common cause of death in PEG tube patients)
 - Short term TF indicated if improvement in swallow likely to improve
 - Pt autonomy, self-respect, dignity and QOL

Goal is enhanced quality of life

- Tube Feeding
 - OK not to put in PEG
 - Do not need to put in PEG for meds
 - Does patient want to go home?
 - can family manage patient at home with PEG?
 - Is PEG being put in for reversible dysphagia/disease process- if no, need goals of care discussion
 - Consider prognosis, palliative care consult
 - —More and more available in hospitals and outpatient (including nursing homes)

Decreasing appetite / food intake

Thirst

- 66% has thirst either initially or until death all relieved with voluntary liquids or mouth care
- Only one patient had calculated intake of food or fluids >75% of requirements
- 9 patients had symptoms from eating encouraged by family

Arguments for Artificial Hydration

Delirium is common in dying patient Hydration may improve the delirium

- Lawlor PG Support Care Cancer 2002
- Bruera E et al. Support Care Center 1996



Alternate Routes of Administration

Allow adjustment to patient's changing needs Transdermal Transmucosal **Rectal opioids Parenteral: Intravenous or Subcutaneous** Spinal infusions: Intrathecal or Epidural

Abrahm JL.A Physician's Guide to Pain and Symptom Management in Cancer Patients. 2000.

Medication Philosophy in General for the Dysphagia Patient

Limit to essential medications

Choose less invasive route of administration

- buccal mucosal or oral first
- topical
- subcutaneous, intravenous rarely
- rectal
- intramuscular almost never

Medications for the non-terminal patient with Dysphagia

When NPO

- NPO except medications?
- Write order "may hold po meds if unable to swallow"
- Review medications and stop non-essential ones, change essential ones to IV, topical, sublingual, subcutaneous or rectal
- Example catapres, nitropaste for HTN; rectal aspirin in stroke patient;
- Good time to evaluate if patient really needs med

Medication evaluation in the patient where dysphagia improving

Pureed diet, thickened liquids

- Still very guarded prognosis
- Address goals of care
- Review medications and stop non-essential ones
- Example cholesterol meds, vitamins
- Good time to evaluate if patient really needs med

Nasogastric Tube

Closely evaluate why put in

- ? For meds are medications necessary, ?alternate route available
- ? For feedings
 - Evaluate when patient will be able to eat and if patient will meet caloric needs
 - —Likely proceed directly to PEG if meets goals of care
- Poor prognostic sign and high risk of complications

Subcutaneous route

Subcutaneous route

- Button
- Butterfly needle
- Abdomen, thigh, upper arm

Hypodermoclysis

- subcutaneous infusion fluids
- Max 1-2 ml/min
- Often used in nursing home

Subcutaneous Medications

Pain

- Dilaudid, Morphine, Fentanyl
- For Morphine 1:1 IV/SQ
- Subcutaneous infusion
- **Anti-inflammatory**
 - Decadron
- **Agitation/Restlessness**
- Ativan, Haldol, Phenobarbitol Shortness of Breath
- Morphine

Subcutaneous Medications

Nausea

- Compazine
- Haldol

Terminal congestion

• Scopolamine

Subcutaneous Infusion Morphine, Dilaudid

Topical medications

Anti-hypertensive

• Catapres

Pain

- Fentanyl
- Lidoderm
- Over the counter topical creams
- Compounded NSAIDS
- Restlessness
 - Ativan Gel
- **Compounding Pharmacies**

Additional medication routes to consider

Rectal

Many medications can be given rectally
Long acting Rx will become immediate release
Intrathecal
Nerve Blocks
Epidural

Treatment in last days of life

Loss of gag reflex

Xerostomia – mouth care/swabbing

Buildup of saliva, secretions

- scopolamine to dry secretions
- Levsin sublingual
- Atropine drops given sublingual
- postural drainage
- positioning
- Suctioning

Take Home Points

- Pause when writing an NPO order
- Pause when writing pureed diet or thickened liquid
- Pause in patient with anorexia
- Don't forget topical, rectal, sublingual and subcutaneous route
- Consult hospice when needed for info
- Consult pharmacy
- Consult interventional pain specialist