

Cough and Dyspnea in Serious Illness

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Objectives

- Review cough and dyspnea, including symptom progression during illness trajectories
- Discuss cough and dyspnea etiologies and associated treatment options
- Highlight education and management of cough and dyspnea during advanced illnesses





Cough

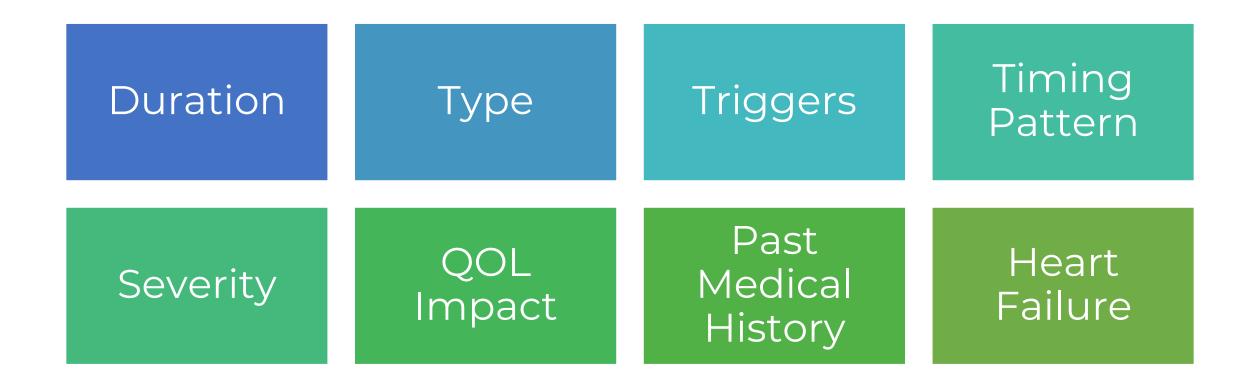
- Explosive expiration, consciously or via reflex response
- Defense mechanism
- Debilitating
 - Sleeplessness, fatigue, pain, fractures , social impairments, incontinence
- Chronic cough lasts > 8 weeks

Dry Cough	Productive Cough	Hemoptysis	Massive Hemoptysis
 No sputum production 	 Cough with sputum raised 	 Sputum contains blood 	 Expectoration of 100-600 mL blood





Cough: Patient History







Cough: Non-Malignant Causes

Acute

- Laryngitis or Bronchitis
- Aspiration
- Infections
- · COPD
- Environmental Irritants

Chronic

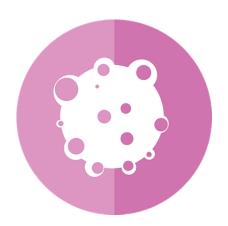
- Medications
- Bronchitis
- GERD
- Heart Failure
- Lung Disease
- Smoking





Cough: Malignant Disease

- Malignancies of the airways, lungs, pleura, and mediastinum
- Metastases to the thorax
- Present in ~90% of patients with advanced lung or head and neck cancers
- Direct and indirect causes







Cough: Ineffective Swallowing

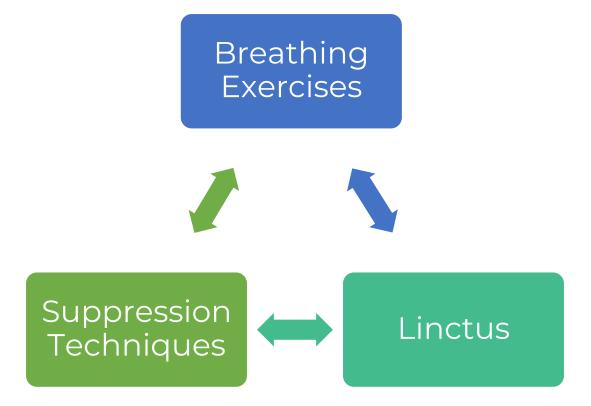
- Multiple attempts to clear secretions
- Inability to coordinate effective swallowing
- Indicators: Drooling, coughing when eating/drinking
- Bedside swallowing evaluation
 - Chewing, swallowing, breathing
- Goals of care







Cough: Nonpharmacologic Treatment







Cough: Mild Symptoms

- Nonpharmacologic therapies
- Peripherally acting antitussives

Demulcents

- Increased saliva and swallowing
- Protective barrier
- Examples: pectin, glycerin

Benzonatate

- Anesthetizes
 vagal stretch
- receptors
- 100-200mg po tid prn cough
- Limited data

Inhaled Local Anesthetics

- Suppresses irritant induced cough
- Nebulizer
- Higher doses can cause constriction
- Eating precautions

Miscellaneous

- Leukotriene receptor antagonists
- Menthol





Cough: Moderate to Severe Symptoms

- Nonpharmacologic therapies
- Centrally acting antitussives

Opioids	Gabapentin, Pregabalin	Combination Therapies & Adjuvants	Dextromethorphan
 Mainstay Routes, formulations, frequency Anticholinergic potential 	 GABA analogs Gradual dose escalation Sedation Nonspecific evidence 	 Adverse effects Start sequentially 	 Mixed data Non-productive cough Combination products available





Cough: Pearls & Education

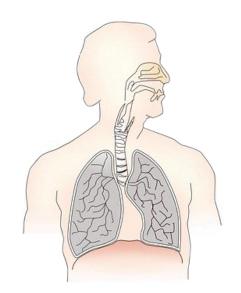








- Subjective breathing discomfort
 - Air hunger, increased breathing effort, chest tightness, rapid breathing, suffocation
- Multidimensional
- Commonly experienced in end of life
 - Cancer, AIDS, heart disease, COPD, renal disease
- Psychologic factors
- Clinical characteristic







Dyspnea: Management

- Goal: Reduce distress
- Treatment of underlying disease
- Nonpharmacologic Interventions
- Oxygen
- Opioids
- Anxiolytics
- Acupuncture
- Palliative Sedation







Dyspnea: Nonpharmacologic Measures

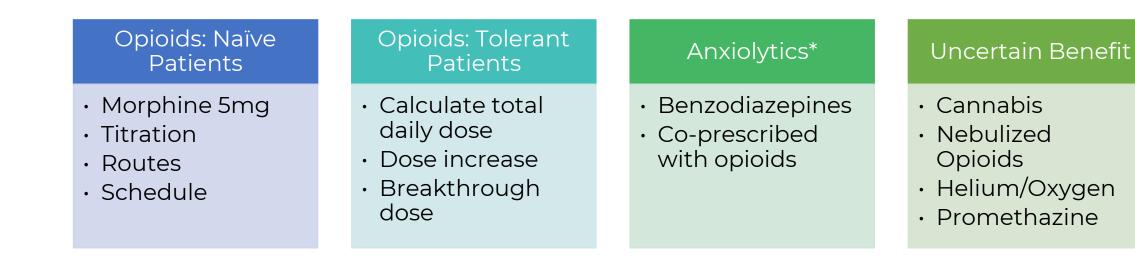
Relaxation	 Relaxation techniques Psychosocial support
Activity Modification	Restroom aidsWheelchairs
Air Movement	• Fan • Open Window





Dyspnea: Pharmacologic Measures

In combination with nonpharmacologic measures



*Dyspnea-associated anxiety





Dyspnea: Pearls & Education









💮 HOME HEALTH



Thank you Ellen Fulp, PharmD, MSPC, BCGP ellenf@avacare.biz



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