



Angioedema Pathophysiology
Angioedema is <i>not</i> always an IgE mediated allergic





Angioedema Management

Fresh frozen plasma may be helpful in ACE Inhibitor associated angioedema.

Epinephrine may precipitate an acute coronary syndrome in this elderly, severely hypertensive patient with known coronary artery disease Angioedema Management

✓C1 esterase inhibitor [human] is indicated for HAE, not ACE inhibitor associated angioedema.

✓ FFP, H1 and H2 blockers may be beneficial in ACE inhibitor associated angioedema.

References:
US Hereditary Angioedema Association. Diagnosing HAE. http://www.haea.org/professionals/diagnosing-hae. Accessed online: 1/9/16.
Tran TP and Muelleman RL. Allergy, Hypersensitivity, and Anaphylaxis. In: Marx JA, Hockberger RS, Walls RM. eds. <i>Rosen's Emergency Medicine – -</i> <i>Concepts and Clinical Practice</i> . 7 th ed. Philadelphia, PA: Elsevier/Saunders 2010

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Asthma Pathophysiology

Asthma **is** a chronic inflammatory condition associated with bronchial hyper responsiveness and some reversibility ✓IV steroids are **not** more effective than PO steroids ... unless the patient cannot tolerate oral intake
 ✓Give steroids promptly in severe attacks
 ✓Effects begin within hours (peak at 24 hours)

Asthma Clinical Presentation Wheezing does **not** correlate with disease severity and may be absent in a patient in extremis

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Asthma Management

Acute asthma should be aggressively treated to avoid hypoxia (maternal and fetal)

Maternal and fetal risk of uncontrolled asthma = high

If systemic corticosteroids used, continuous fetal monitoring is recommended at delivery



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Asthma Management Squeezing of the lateral chest may relieve breath stacking In the setting of abruptly high airway pressures followed by cardiac arrest, the patient may have tension pneumothorax requiring tube thoracostomy



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	COPD Management
 <td>Characteristics of a COPD exacerbation:</td>	Characteristics of a COPD exacerbation:
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COPD Pathophysiology Cigarette smoking is the most significant risk factor for the development of COPD. However, only a minority of smokers develop COPD ~ airway obstruction + obliteration of pulmonary vasculature O poor gas exchange

COPD Management The change in pulse oximetry from patient's baseline is more important than absolute levels. Indications for admission for COPD are: · significant worsening from baseline · inadequate response to ED therapies · significant comorbidities · worsening hypoxia or hypercarbia from baseline · insufficient home resources

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The 2 interventions that alter the progression of COPD and reduce mortality are: **smoking cessation** and **oxygen therapy**.







PE Clinical Presentation

PE Management EKG findings associated with PE include: S1 Q3 T3 Tachycardia RBBB pattern Inverted T waves in V1-V4 P pulmonale Chest radiograph findings associated with PE include: Hampton's Hump and Westermark Sign



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	<u>PE Management</u>	
In the non-r CT angiog	pregnant patient with normal rer ram is currently the test of choi	nal function, ce for PE.



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Fibrinolysis is rea	sonable for pts with massive PE and acceptable risk of bleeding complications $(\mathrm{IIa}/\mathrm{B})$		
Fibrinolysis may (hemodynamic in and low risk of bi	se considered for prs with submassive PE judged to have clinical evidence of adverse prognosis atability, worsening resp. insufficiency, severe RV dysfunction, or major myocardial necrosis) eeding complications (IIb/C)		
Fibrinolysis is not (III/B)	recommended for patients with submassive PE with only mild dysfunction, i.e. low risk PEs		
Fibrinolysis is no	recommended for undifferentiated cardiac arrest (III/B)		
	Mile (format is anglesia, folke pulmoursy analysis on pulmine) 2013 /		



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