Cheatography

Pulmonary Rotation ACNP Cheat Sheet by xkissmekatex (kissmekate) via cheatography.com/33594/cs/10482/

Asthma (O	bstructive Disease)	TESTS (co	nt)		
Definition	 Inflammatory condition of the airways hyperresponsiveness leading to airway edema + 	Exercise- induced bronchosp asm	Decrease in FEV1 of >10% on a treadmill or a stationary bicycle.		
	bronchoconstrictionRecurrent/intermittent episodes	CXR	Normal in mild cases. Severe asthma shows hyperinflation.		
	of wheezing, shortness of breath, and/or cough • Usually reversible either spontaneously or with treatment.	Arterial Blood Gas	 Indicated in respiratory distress. Hypocarbia from hyperventilation. Hypoxemia may be present. 		
Causes	Atopy (IgE mediated) + Environmental triggers (allergens, irritants, chemicals, respiratory infections, physical stress, and emotional stress).		• If CO2 level is normal or high sign that the patient is decompensating due to fatigue or severe airway obstruction and intubation may be required.		
Diagnosis	Reversible bronchoconstriction on own or with bronchodilator and a history. Consider challenge test	Challenge Test	•Methacholine challenge, histamine challenge, and thermal (cold air). Principle of nonspecific		
Severity	Intermittent, mild persistent, moderate persistent, and severe persistent		hyperirritability. •Must both tighten up with the challenge and loosen up with		
Relations hips	 GERD, Allergic rhinitis Worsened by Allergic bronchopulmonary aspergillosis (ABPA), Obstructive sleep apnea-hypopnea (OSA), Stress 		 subsequent bronchodilators. Response to short-acting bronchodilator (increase in the FEV1 > 12% and increase of 2 mL). 		

TESTS

PFT's • Norma	l if no	active	disease
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- FEV1/FVC < 70%
- · Decreased expiratory flow
- Significant response to

beta2-agonist.

- Normal or increased TLC (due to
- hyperinflation).
- Normal or reduced VC.
- DLCO is normal.



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Treatment	
Rescue	SABA (albuterol)
Quick relief (acute, mild, intermittent disease)	 Short-acting beta2-agonists (SABAs) Systemic corticosteroids Anticholinergics
Long-Term control	 Inhaled corticosteroids (ICS; most potent and most effective) Long-acting beta2-agonists (LABAs) Mast-cell stabilizers (cromolyn sodium +nedocromil) Leukotriene modifiers Methylxanthines (theophylline) • Immunomodulators (omalizumab = anti-IgE)

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Treatment	(cont)	Trea	atme	nt (c	10
Acute Exacerbat ion	 Inhaled B agonist and ipratropium via nebulizer or MDI. Assess response clinically and with peak flow. IV or oral corticosteroids, then taper when improvement occurs. Third-line agents include IV magnesium, which helps with bronchospasm in severe refractory cases. 	Pers		nt e • c ir c	D F D con h rc en C
	 Supplemental oxygen to keep Osat>90%. Antibiotics if necessary. Intubation for respiratory failure. 	Pers	sister	li •	in F D
Mild Intermitte nt	 Symptoms <2 times per week, nighttime awakenings <2x per month. Normal baseline FEV1 and FEV1/FVC. Needs no long-term control medications, just short acting beta agonist (albuterol). 			lo n	on ne oi
Mild Persistent	 Symptoms >2 times per week but not every day. 3-4 nighttime awakenings per month, minor limitations on activities. Normal PFTs. Low dose inhaled corticosteroid indicated with PRN albuterol inhaler. 	Days with Sx >2 days/ week week >2 days/ week but not daily Daily Through out the day	SABA Use (control only) ≤ 2 days/ week bat not daily and not more that 1 x on any given day Daily Several times per day	and Control of the initial great of the initial great of the initial of the in	

Trea	Treatment (cont)							
	Moderate • Daily symptoms with frequent Persistent exacerbations. • FEV1 is 60-80% of expected. • Daily inhaled low dose corticosteroid, PRN albuterol inhaler, and LABA inhaler. +/- cromolyn/methylxanthine/antileuko iene.							cted. erol
Severe • Continual symptoms with Persistent frequent exacerbations and limited physical activity. • FEV1 <60% of predicted. • Daily high dose inhaled corticosteroid, PRN albuterol, and long-acting beta agonists. +/- methylxanthine and systemic corticosteroids.								
Freetment and Maintenance Factors used in the determination of both SEVERITY (with initial evaluation: Transmeri ta based on CONTROL Burgs S&BA Rogitize EV: Montander Based of detaily Initial evaluation: Transmeri ta based on CONTROL Several								
≤2 days/ week >2 days/ week but not daily	(control only) ≤ 2 days/ week > 2 days/ week but not daily and not more that 1x on any given day	< 2/month 3-4/month	≥ 80% ≥ 80%	None Minor limitation	Intermittent Mild Persistent	Step level: Step 1 Step 2	Well controlled Well controlled	Maintain current step Maintain current step

Differential Diagnosis of Wheezing

- CHF: due to edema of airways and
- congestion of bronchial mucosa.
- COPD: inflamed airways may be narrowed or bronchospasm may be present.

Step 4-5

- · Asthma: most common cause.
- · Cardiomyopathy/Pericarditis: can lead to edema around the bronchi.
- Lung Cancer: due to obstruction of airways (central tumor or mediastinal invasion).



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