

## Blue Cross Complete Clinical Practice Guideline Summary Guidelines for the Diagnosis and Management of Chronic Obstructive Pulmonary Disease (COPD)

Eligible	Key Recommendation					
Population	Components					
Patients	Diagnosis	<ul> <li>Consider COPD in those with a history of exposure (e.g. occupational exposure) to risk factors for the disease, especially smoking.</li> <li>Characteristic symptoms of COPD include: cough, increased sputum production, discoloration and dyspnea on exertion.</li> </ul>				
embers ≥ 18						
ears of age		<ul> <li>Perform spirometry on all pat</li> </ul>	ients suspected of COPD to e	stablish diagnosis. <b>[C]</b>		
		<ul> <li>A Post-bronchodilator FEV<sub>1</sub>/FVC &lt; 70% confirms the presence of airflow limitation that is not fully reversible</li> </ul>				
	Management:	Together with symptoms, spirometry helps stage severity of COPD and can be a guide for specific treatment steps The lower the percentage				
	Stable COPD	predicted FEV <sub>1</sub> , the worse the pro				
		I: Mild COPD	II: Moderate COPD	III: Severe COPD	IV: Very Severe COPD	
		FEV <sub>1</sub> /FVC <0.70	FEV <sub>1</sub> /FVC <0.70	FEV <sub>1</sub> /FVC <0.70	$FEV_1/FVC < 0.70$	
		$FEV_1 \ge 80\%$ predicted	FEV <sub>1</sub> <u>&gt;</u> 50% and < 80%	FEV <sub>1</sub> <u>&gt;</u> 30% and < 50%	$FEV_1 < 30\%$ of predicted or $< 50\%$ predicted plus	
		<ul> <li>short acting bronchodilators</li> </ul>	predicted	predicted	chronic -respiratory failure	
		as need [A]	<ul> <li>Daily long-acting</li> </ul>	<ul> <li>Daily long-acting</li> </ul>	<ul> <li>Combination therapy</li> </ul>	
			bronchodilators (	bronchodilators as before	<ul> <li>Oral steroids as needed</li> </ul>	
			<ul> <li>Inhaled corticosteroids</li> </ul>	plus inhaled	<ul> <li>Oxygen supplementation</li> </ul>	
			are indicated if	corticosteroids		
			hospitalized for frequent	<ul> <li>Oral steroid bursts for</li> </ul>		
			COPD exacerbations	exacerbations		
		• Smoking cessation is a primary management goal for COPD <b>[A]</b> . Counsel all smokers (and household members) to quit at each visit <b>[A]</b> .				
	Therapy for all					
	severities					
		<ul> <li>COPD education</li> <li>Pulmonary rehabilitation [A] (if functional impairment)</li> <li>Assess need for referral to specialist.</li> </ul>				
		<ul> <li>May be beneficial at any stage of the disease</li> <li>When lung function deficits are not consistent with symptoms</li> </ul>				
		• To confirm the diagnosis and rule out other diagnoses				
		<ul> <li>Patient with COPD has less than 10-year pack history of smoking</li> <li>Hospitalized for COPD</li> <li>Frequent exacerbations</li> <li>Papid decline in EEV</li> </ul>				
		$\cdot$ Rapid decline in FEV $_1$				
		<ul> <li>Consideration/monitoring c</li> </ul>	of oxygen therapy			
		<ul> <li>Patient may be a candidate</li> </ul>	e for lung transplant or volum	e reduction surgery (if stage	IV)	
	Management:	Generally exacerbations present with worsening in baseline dyspnea, increased sputum volume, and/or increase in sputum purulence.				
	Exacerbations					
		Antibiotic therapy may be beneficial [B] but remains controversial. The most common bacterial organisms include H. influenzae, S. pneumoniae, and M catar halis. Bactrim and				
		doxycycline are adequate "first-line" agents. Antibiotic choice should be based on <i>local bacterial resistance patterns</i>				
	Deriedie	Educate patient/family regarding COPD disease process [A].				
	Periodic					
	Assessment					
		Recognition of COPD exacerbations [B].				
		<ul> <li>Maintain physical and nutritional status.</li> <li>Quality of life assessment to include, ability to perform daily activities, quality of sleep and screeping for depression.</li> </ul>				
		<ul> <li>Quality of life assessment to include, ability to perform daily activities, quality of sleep and screening for depression.</li> <li>Discussions of end-of-life care [B] should take place while COPD is still stable, and following frequent hospital admissions for COPD.</li> </ul>				
vels of Evidenc	L e for the most sign full clinical practice	ificant recommendations: A=rando guideline please visit http://bluesi	mized controlled trials; B=co	ntrolled trials, no randomizat	tion; C=observational studies; D=opinion of expert pane	
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tapted from G	ULD 2008 Update,	Global Strategy for the Diagnosis, I w/mmwrhtml/mm5753a6.htm?s_ci	Management, and Prevention d=mm5753a6 e 1-9-09	of Chronic Obstructive Pulmo	onary Disease (p. 54)	