Spirometry is essential for confirming a clinical diagnosis of COPD, and provides a useful description of the severity of the disease in addition to monitoring the progression of the disease over time. Spirometry measures the maximal volume of air forcibly exhaled from the point of maximal inhalation (forced vital capacity, or FVC) and the volume of air exhaled during the first second of this maneuver (forced expiratory volume in 1 second, or FEV₁). The presence of a postbronchodilator FEV₁/FVC ratio <70%, consistent with airflow limitation that is not fully reversible, confirms the diagnosis of COPD. For in-office classification of COPD severity, practitioners can use postbronchodilator FEV₁ spirometry values expressed as a percentage of the predicted normal range for the individual.

Patient Name: ___________________ Patient Results: FEV₁/FVC: ______ FEV₁ % predicted: ________

Stage (circle one): Mild Moderate Severe Very severe

COPD Disease Classifications¹,∗

<table>
<thead>
<tr>
<th>Severity</th>
<th>FEV₁/FVC</th>
<th>FEV₁ % predicted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild COPD</td>
<td>&lt;0.70</td>
<td>≥80%</td>
</tr>
<tr>
<td>Moderate COPD</td>
<td>&lt;0.70</td>
<td>50% ≤ FEV₁ &lt; 80%</td>
</tr>
<tr>
<td>Severe COPD</td>
<td>&lt;0.70</td>
<td>30% ≤ FEV₁ &lt; 50%</td>
</tr>
<tr>
<td>Very Severe COPD</td>
<td>&lt;0.70</td>
<td>&lt;30% or &lt;50% with chronic respiratory failure</td>
</tr>
</tbody>
</table>

*Based on postbronchodilator spirometry.

% predicted = values corrected for age, sex, ethnicity, and height.
Adapted from Global Initiative for Chronic Obstructive Lung Disease (GOLD).¹

COPD definition includes FEV₁/FVC <0.7 and postbronchodilator FEV₁ values as described in the table above.

- Bronchodilators are central to COPD symptom management
- Inhaled bronchodilators are preferred
- Long-acting inhaled bronchodilators are more effective and convenient than short-acting agents
- The effects of inhaled glucocorticosteroids in COPD are much less dramatic than in asthma, and their role in the management of stable COPD is limited to specific indications. The addition of regular treatment with inhaled glucocorticosteroids to bronchodilator treatment is appropriate for symptomatic COPD patients with an FEV₁ < 50% predicted (Stage III: Severe COPD and Stage IV: Very Severe COPD) and repeated exacerbations.
The major differential diagnosis for COPD is asthma. Although a clear distinction between the two is not always possible, a careful history combined with postbronchodilator spirometry demonstrating the partially reversible airway obstruction characteristic of COPD can help clarify the diagnosis.1,2

### Reference List:
