BRONCHIECTASIS (BE) AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

Research on Bronchiectasis COPD Overlap Syndrome (BCOS) is emerging.¹⁴

GLOBAL INITIATIVE FOR COPD (GOLD) GUIDELINES ON BRONCHIECTASIS

- **2014:** Bronchiectasis defined as a comorbidity of COPD.³
- **2015:** Emphasized the influence of bronchiectasis in the natural history of COPD.⁴
- **2016:** Comorbid bronchiectasis associated with longer exacerbations and increased mortality. Treatment should be along conventional lines for bronchiectasis with the addition of usual COPD strategies where indicated.⁴
- **2017:** When exacerbations are repeatedly characterized by purulent sputum, patients should be investigated for bronchiectasis.⁷
<table>
<thead>
<tr>
<th>BCOS PHENOTYPE</th>
<th>BCOS HAS WORSE OUTCOMES</th>
<th>COMBINING BE MANAGEMENT WITH COPD</th>
<th>HFCWO IMPROVES OUTCOMES IN BE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clinical features/factors</strong></td>
<td><strong>Greater sputum production</strong></td>
<td><strong>Bronchiectasis common in lower lobes</strong></td>
<td><strong>Decrease in:</strong></td>
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<tr>
<td>– Moderate to severe airflow obstruction</td>
<td>– More frequent respiratory exacerbations</td>
<td>– May reflect gravity-dependent retention of infected secretions</td>
<td>– Hospitalizations**</td>
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<tr>
<td>– Increased daily sputum</td>
<td>– Longer duration of acute exacerbation</td>
<td>– Cause obstruction and damage of airways</td>
<td>– Office, emergency department and hospital outpatient visits**</td>
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<tr>
<td>– More frequent respiratory exacerbations</td>
<td>– Higher rate of pathogenic microorganisms in sputum</td>
<td>– Create an environment for bacteria to grow, which may lead to recurrent infections**</td>
<td>– Prescriptions/antibiotic use**</td>
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<tr>
<td>– Higher rates of potential pathogenic microorganisms</td>
<td>– Poorer lung function</td>
<td>– Airway clearance critical to management**</td>
<td><strong>Improvement in:</strong></td>
</tr>
<tr>
<td>– At least one hospitalization</td>
<td>– Extended ICU and hospital length of stay</td>
<td></td>
<td>– Dyspnea and quality of life**</td>
</tr>
<tr>
<td></td>
<td>– Increased mortality</td>
<td></td>
<td>– Several lung function parameters compared to CPT**</td>
</tr>
</tbody>
</table>

For more information, please contact your Hillrom sales representative at 1-800-426-4224.

respiratorycare.hill-rom.com

References