Supplementary material

CT scanning protocol

Chronic HP patients underwent CT scanning on a Brilliance 16P scanner (Philips Medical Systems, Andover, MA) at suspended full-expiration and suspended full-inspiration after standardized breathing instructions, using a weight-based CT technique for dose minimization [39]. Subjects were instructed on the importance of breath-holding and immobility during scanning and on attaining reproducible maximum inspiratory and expiratory breath-holds. CT acquisition parameters for chronic HP patients are reported in Table E1. CT images were reconstructed with a smooth reconstruction filter (B filter).

Table E1 - CT imaging parameters in chronic HP patients.

<table>
<thead>
<tr>
<th></th>
<th>Patients &lt;=80Kg</th>
<th>Patients &gt;80Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full-insp</td>
<td>Full-exp</td>
</tr>
<tr>
<td>Tube voltage (kVp)</td>
<td>120</td>
<td>90</td>
</tr>
<tr>
<td>Tube current (mAs)</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Matrix</td>
<td>512x512</td>
<td>512x512</td>
</tr>
<tr>
<td>Slice thickness (mm)</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>