

## 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.**

	Patients ≤80Kg		Patients >80Kg	
	Full-insp	Full-exp	Full-insp	Full-exp
Tube voltage (kVp)	120	90	140	120
Tube current (mAs)	30	20	30	20
Matrix	512x512	512x512	512x512	512x512
Slice thickness (mm)	1.0	1.0	1.0	1.0