

Appendix 2: Resting maximal flow-volume loop (curve 0) of a 72-year-old man with chronic obstructive pulmonary disease. The flow-volume loop shows the typical concave shape on expiration consistent with severe airflow obstruction. Flow-volume loops repeated every minute during an incremental exercise test (resting tidal volume curve 1 and curves 2–4 at higher ventilation levels). Note that end-expiratory lung volume exceeds functional residual capacity (FRC) at high ventilation level, defining dynamic pulmonary hyperinflation.

