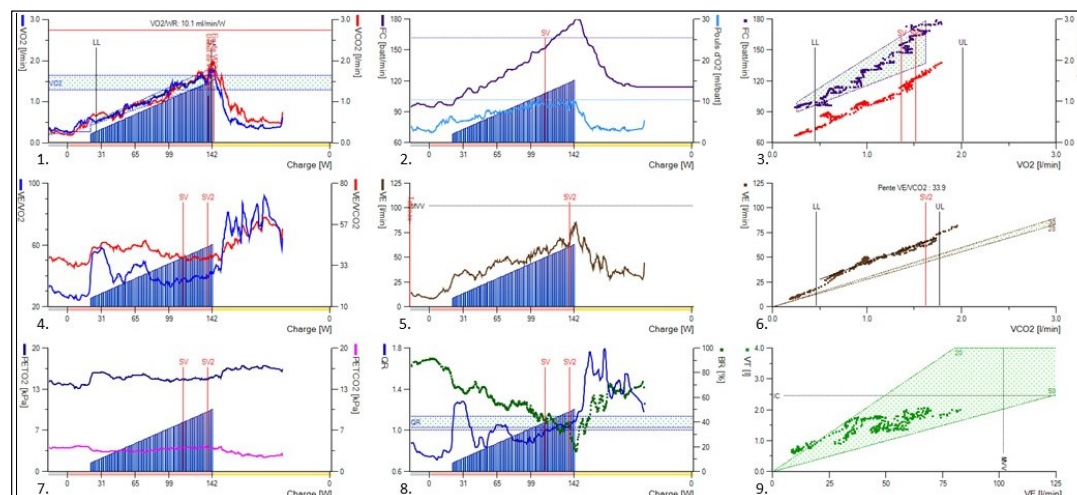
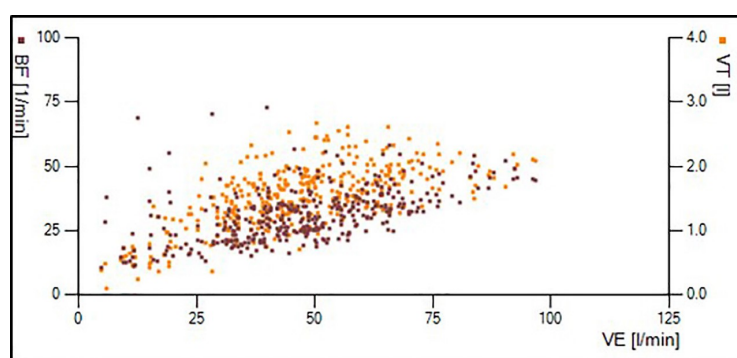


SUPPLEMENTARY MATERIAL

Figure S1. Modified Wasserman 9-panel plot of a patient with an erratic pattern of DB and hyperventilation

Modified Wasserman 9-panel plot. From left to right and top to bottom. 1. $V'O_2$ and $V'CO_2$ over load (W), 2. HR and $V'O_2$ pulse ($V'O_2/HR$) over load, 3. HR and $V'CO_2$ over $V'O_2$, 4. $V'E/V'CO_2$ and $V'E/V'O_2$ over load (W), 5. $V'E$ over load (W), 6. $V'E$ over $V'CO_2$, 7. $PETCO_2$ and $PETO_2$ over load (W), 8. RER and BR over load (W), 9. VT over $V'E$. Graphs of special interest to identify DB: panels 9, 6 and ventilation slopes showing DB with an erratic pattern and hyperventilation. Panel 9 shows an irregular increase of VT and BF with a VE/VCO_2 slope in the upper limit of the normal range. Geratherm® Respiratory combined filter was used in these panels. Data were sorted over 13 breath cycles around the current value, minimum and maximum values were ignored, and the average was then calculated on 11 breath cycles. BF: breathing frequency. BR: breathing reserve. HR: heart rate. $PETCO_2$: end-tidal pressure of CO_2 . $PETO_2$: end-tidal pressure of O_2 . RER: respiratory exchange ratio. SV: anaerobic threshold. SV2: respiratory compensation point. $V'CO_2$: CO_2 production (L/min). $V'E$ total minute ventilation (L/min). $V'E/V'O_2$, ventilatory equivalent for O_2 . $V'E/V'CO_2$, ventilatory equivalent for CO_2 . $V'O_2$: Oxygen consumption (L/min). VT: tidal volume.

Figure S2. Ventilation slopes of the same patient*

*Data are not filtered which allows for a qualitative impression of dispersion of VT and BF. VT, tidal volume; BF, breathing frequency; $V'E$, minute ventilation.