

## Supplementary material

**Table S1:** The odds of belonging to the worst-performing PVT quartile (Q4) when parameter values are increased by 10% compared to the combined group of all other quartiles (Q1-Q3). Quartiles and the corresponding odds are defined separately for each PVT outcome variable.

	RRT (1/ms)	Median RT (ms)	Slowest 10% RT (ms)	Fastest 10% RT (ms)	Lapses (RT>500ms)
<i>Model adjusted for sex, age, BMI, ESS and comorbidities</i>					
TST (h)	1.02	1.06	1.01	1.00	1.02
AHI (1/h)	1.04	1.03	0.96	1.01	1.06
ODI (1/h)	1.07	1.07	0.98	1.06	1.09
AI (1/h)	0.98	0.97	0.96	0.94	1.01
ObsDur (%)	1.02	0.99	0.96	0.99	1.05
DesDur (%)	1.06	1.05	0.99	1.05	1.08
DesSev (%)	1.15	<b>1.16</b>	1.03	1.07	<b>1.18</b>
ObsSev (s%)	1.08	1.08	1.03	1.02	1.10
Mean SpO <sub>2</sub> (%)	0.85	0.89	0.89	0.93	0.80
Min. SpO <sub>2</sub> (%)	0.97	0.96	0.99	0.99	0.94
t <sub>90%</sub> (s)	1.08	1.09	1.02	1.06	<b>1.10</b>
Mean Depth (%)	1.15	<b>1.18</b>	1.07	1.10	<b>1.18</b>
Median Depth (%)	<b>1.17</b>	<b>1.18</b>	1.08	1.11	<b>1.20</b>
<i>Model adjusted for sex, age, BMI, ESS, comorbidities, TST, AHI, AI, and Obstruction Duration</i>					
DesSev (%)	1.24	<b>1.29</b>	1.14	1.13	<b>1.23</b>
ObsSev (s%)	1.14	1.17	1.13	1.05	1.13
Mean SpO <sub>2</sub> (%)	0.85	0.88	0.83	0.95	0.85
t <sub>90%</sub> (s)	1.07	1.07	1.03	1.00	1.08
Mean Depth (%)	<b>1.20</b>	<b>1.26</b>	1.15	1.16	<b>1.20</b>
Median Depth (%)	<b>1.23</b>	<b>1.27</b>	1.16	1.18	<b>1.23</b>

Caption: All odds are adjusted for smoking status and co-existence of hypertension, depression and chronic obstructive pulmonary disease (COPD). Bolded odds are statistically significant ( $p < 0.05$ ). Abbreviations: ms = milliseconds, TST = total sleep time, AHI = apnea-hypopnea index, ODI = oxygen desaturation index, AI = arousal index, ObsDur = obstruction duration, DesDur = desaturation duration, DesSev = desaturation severity, ObsSev = obstruction severity, t<sub>90%</sub> = time spent under 90% oxygenation, Mean Depth = mean depth of all desaturations, Median Depth = median depth of all desaturations.