

E-table 1. Central apnea index and sleep architecture.

	DS	Control	p value
CAI	0 (0;2.5)	0 (0;1.8)	0.70
Micro-arousals index	12.5 [7;17.8]	8 [5;17]	0.79
Sleep efficiency (%)	81 [73.88]	82 [78;91]	0.20
REM sleep (%)	18 [14;21]	19 [14;23]	0.25

Data are presented as median [IQR] or (range). DS: Down syndrome; CAI: central apnea index; REM: rapid eye movement.

E-table 2. Results of gas exchange in DS subjects and controls grouped by OSA severity.

	Mean PtcCO ₂ (mmHg)			% of TST with a PtcCO ₂ > 50 mmHg		
	<i>DS</i>	<i>Control</i>	<i>p value</i>	<i>DS</i>	<i>Control</i>	<i>p value</i>
No OSA (n=4, 14%)	45 [43.3;46.3]	43 [41.8;44]	> 0.05	1.5 (0;5)	0 (0;0)	> 0.05
Mild OSA (n=10, 36%)	45.5 [44.3;46.8]	42 [39.5;44.5]	< 0.01	0 (0;65)	0 (0;0)	> 0.05
Moderate OSA (n=6, 21%)	42.5 [39.8;43.8]	42 [40;44]	> 0.05	0 (0;23)	0 (0;0)	> 0.05
Severe OSA (n=8, 29%)	44 [43;47]	41 [40;48]	> 0.05	0 (0;58)	0 (0;28)	> 0.05

Data are presented as median [IQR] or (range). DS: Down syndrome; TST: total sleep time; PtcCO₂: Transcutaneous partial pressure of carbon dioxide; OSA: obstructive sleep apnea.