

Residual sleep disordered breathing during auto-titrating positive airway pressure therapy

Angela L. Denotti, Keith K.H. Wong, George C. Dungan II, John W. Gilholme, Nathaniel S. Marshall and Ronald R. Grunstein

"Online Depository – Supplementary Data"

Figure S1. Visual representation of airflow traces recorded at the different flow measurement sites.

Table S1. Polysomnographic data from auto-titrating and sub-therapeutic nights.

**Table S1. Polysomnographic data from auto-titrating and sub-therapeutic nights**

Polysomnography variable	Auto-titrating night		Sub-therapeutic night		<i>p-value</i>
	Mean (SD)	Range (min-max)	Mean ± SD	Range (min-max)	
Time in bed (mins)	463.7 (31.5)	366 - 532	461.2 (31)	366 – 519	<i>ns</i>
Total sleep time (mins)	366.8 (53.3)	237.5 – 444.5	367.7 (55.4)	262 – 475	<i>ns</i>
Sleep efficiency (%)	79 (9.6)	57 – 92.6	79.7 (10.1)	57 – 96.6	<i>ns</i>
Sleep latency (mins)	15.4 (14.7)	1 – 79	15.6 (14.3)	2.5 – 61	<i>ns</i>
REM latency (mins)	108.1 (65.3)	16 – 280	135.3 (99.6)	15.5 – 391	<i>ns</i>
REM sleep (%)	21.7 (7.5)	9.7 – 40.4	19 (7.7)	2.8 – 39.3	<i>ns</i>
Supine sleep time (mins)	225.2 (133.7)	11 - 460.5	220.6 (118.8)	39.5 – 472.2	<i>ns</i>
EEG arousal index (/h)	21.1 (10.9)	4.9 – 44.4	23.1 (11.3)	1.9 – 40.9	<i>ns</i>
Total no. EEG arousals	130.1 (73)	34 – 273	139.1 (68.1)	13 – 254	<i>ns</i>
>3% oxygen desaturation index (/h)	2.2 (3)	0 – 14.3	4.2 (6)	0 – 27	*
Minimum oxygen saturation (%)	90.4 (2.9)	84 – 95	89.2 (4.2)	76 – 94	<i>ns</i>
Periodic limb movements index (/hr)	4.8 (9.6)	0 - 43	4.1 (9.0)	0 - 41	<i>ns</i>
Pressure 95 <sup>th</sup> centile on autoCPAP report (cmH <sup>2</sup> O)	11 (1.9)	7-15	-	-	-
Median leak (L/sec)	0.07 (0.08)	0.00 – 0.34	0.05 (0.08)	0.00 – 0.30	<i>ns</i>

\*p=<0.05, †p=<0.001, ns=not significant REM = rapid eye movement, EEG =

electroencephalogram