Tsou YA et al. Upper Airway Surgery and OSA Endotypic Traits

Supplementary Table 1. Endotypic traits before and after surgery among responders and non-responders following surgery, excluding participants who underwent only nasal surgery

Variable	Responders (n=10)			Non-responders (n=12)			- <i>P</i> -value ^{b)}
	Pre-surgery	Post-surgery	P-value ^{a)}	Pre-surgery	Post-surgery	P-value ^{a)}	- r-value ^{-/}
REM sleep							
AHI	47.58±23.77	19.54±24.89	0.065	33.28 ± 17.05	26.05 ± 20.23	0.622	0.057
Arousal threshold	176.04 ± 46.66	164.38±51.46	0.570	159.83 ± 45.58	175.34 ± 47.17	0.313	0.420
V _{passive}	34.99 ± 25.28	59.39 ± 26.42	0.020	54.54 ± 30.95	45.43±24.63	0.383	0.030
Loop gain	0.50 ± 0.22	0.50 ± 0.14	0.910	0.42 ± 0.10	0.52 ± 0.12	0.039	0.384
Compensation	1.75±24.12	3.09 ± 15.40	0.910	-0.27 ± 11.55	1.83 ± 11.99	0.844	0.942
NREM sleep							
AHI	35.06 ± 32.54	19.54 ± 24.89	0.002	22.42 ± 12.27	35.94 ± 26.72	0.677	0.015
Arousal threshold	156.00 ± 49.11	132.58 ± 28.89	0.002	140.09 ± 26.17	147.08 ± 34.13	0.677	0.092
V _{passive}	57.07 ± 25.79	71.14±20.65	0.037	69.53±12.49	63.46±24.56	0.733	0.050
Loop gain	0.56 ± 0.20	0.47 ± 0.12	0.432	0.48 ± 0.12	0.47 ± 0.15	0.850	0.358
Compensation	-7.20 ± 17.70	-5.09 ± 15.77	1.000	-5.84 ± 23.16	-12.89 ± 18.25	0.077	0.163

Values are presented as mean ± standard deviation.

REM, rapid eye movement; AHI, apnea-hypopnea index; V_{passive}, ventilation at eupneic drive; NREM, non-rapid eye movement.

^{a)}Pre-surgery and post-surgery endotypic traits were compared between groups (responders vs. non-responders) using Wilcoxon signed-rank tests. ^{b)}The P-value for interaction between surgical state (preoperative and postoperative) and group was generated using generalized linear mixed models.