

Patient	GOOD RESPONDERS													POOR RESPONDERS										ALL PATIENTS			
	Data Measures													Data Measures													
	S8	S13	S18	S11	S6	S2	S24	S5	S16	S22	S1	AVG	SD	S3	S10	S17	S4	S9	S21	S14	S20	S12	AVG	SD	AVG	SD	P
ANB (deg)	8.3	-0.6	-0.4	5	9.7	INSF	-0.1	4.6	-2.4	1.8	4.1	3.0	4.0	-1.7	6.2	3.0	1.1	5.1	-0.3	-2.5	4.9	3.9	2.2	3.2	2.59	3.56	0.31
WITS (mm)	1.1	-10	-7.7	4.5	3.7	3.5	-1.7	2.4	-7.4	-3.3	1.7	-1.2	5.2	-8.4	-0.3	-5.0	1.0	-0.8	-3.1	-4.3	-0.9	-2.5	-2.7	2.9	-1.95	4.28	0.21
ODI	74.9	54.8	52.6	68	74.1	75.8	72.7	86.1	56.8	72.2	80.4	69.9	10.8	63.1	66.5	64.2	74.9	68.9	65.9	57.9	64.2	77.5	67.0	6.0	68.43	8.88	0.23
Delta mid. pharyngeal muscle	-1.7	-5.1	-3.9	-0.2	0.2	-2.5	0.5	-3.9	-3.4	-1.7	-0.9	-2.1	1.9	-5.3	-7.6	-1.5	-2.1	-3.2	-7.4	-1.4	2.0	2.0	-2.7	3.5	-2.39	2.69	0.31
delta min axial airway %	154	65.9	64.6	61.8	59.4	52	47.1	42.5	33.9	22.4	18.9	56.6	36.3	13.2	12.0	7.6	2.3	2.3	2.9	-8.5	-15.7	-38.7	-2.5	16.4	27.05	41.42	0.00
AVG % airway change	56.6													-2.5										27%	41.79		

INSF- Insufficient data for measure

Table 1. Cephalometric and airway measurements. Good responders are identified in green as patients with greater than or equal to 16% minimal axial area airway increase with an oral appliance (OA) in place. Poor responders in red were patients with less than 16% minimal axial airway area increase with an OA in place. Change in the middle pharyngeal muscle length and minimal axial area were taken as the difference of measures with and without an OA in place. ODI = overbite depth indicator.

	Norm	1 SD	Threshold	OAEI point value
ANB (deg)	2	3.5	>4	2
WITS (mm)	-1	1	>3	1
ODI	75	5	>70	3
Delta middle pharyngeal muscle	-	-	>-3	2

Table 2. Standardized cephalometric values and assigned point values for OAEI scoring. Three cephalometric variables selected received increasing OAEI point values based on the value of 1 standard deviation (SD) from previously established means except for WITS (3 SDs). Because there is no current mean value for the length of the middle pharyngeal muscle length the median score was assigned as an OAEI point value. OAEI = oral appliance efficiency index; ODI = overbite depth indicator.