

Supplementary material 2: Nasal cavity and nasopharynx volumetric change

according to the facial pattern, vertical, and horizontal movements of the maxilla, and occlusal plane rotation.

	Nasal Cavity volume			Nasopharynx volume		
	Increase	Reduction		Increase	Reduction	
	N (%)	N(%)	¹ p value	N (%)	N (%)	¹ p value
Skeletal pattern						
Class II	6 (100.00)	0 (0.00)	0.1141	2 (50.00)	2 (50.00)	0.2445
Class III	7 (58.22)	5 (41.67)		10 (83.33)	2 (16.67)	
MVS						
Superior	4 (66.67)	2 (33.33)	0.6394	6 (66.67)	1 (33.33)	0.7923
inferior	4 (57.14)	3 (42.86)		2 (85.71)	1 (14.29)	
No shift	3 (100.00)	0 (0.00)		4 (66.67)	2 (33.33)	
MHS						
Advancement	11 (68.75)	5 (31.25)	1.000	12 (75.00)	4 (25.00)	1.000
Setback	0 (0.00)	0 (0.00)		0 (0.00)	0 (0.00)	
OP alteration						
Clockwise	3 (42.86)	4 (57.14)	0.1667	4 (57.14)	3 (42.86)	0.2885
Counterclockwise	4 (100.00)	0 (0.00)		3 (75.00)	1 (25.00)	
None	4 (80.00)	1 (20.00)		5 (100.00)	0 (0.00)	

¹ Fisher exact test; MVS - Maxillary vertical shift; MHS - Maxillary horizontal shift; OP - Occlusal Plane