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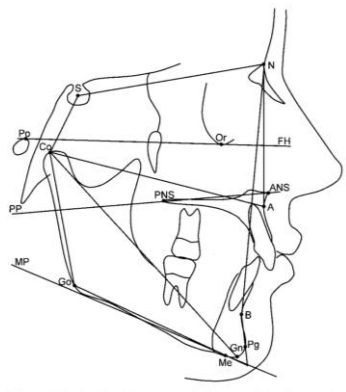
PREDICTION OF MANDIBULAR RESPONSIVENESS INDUCED BY THE HERBST APPLIANCE WITH ANCHORAGE REINFORCEMENT IN THE LOWER ARCH.

AIM

The aim of this comparative investigation was to evaluate the effect of Herbst treatment with anchorage reinforcement in the lower arch in regards of the Co-Go-Me parameter value (125,5°).

MATERIALS AND METHOD

Fortyfour consecutively class II growing patients (24 M, 20 F) were observed before (T0) and after (T1) Herbst therapy. Patients were classified into two groups according to their Co-GoMe baseline value (<125.5° for Group 1, and >125.5° for Group 2). A cephalometric analysis was performed. The primary outcome of the investigation was the difference between groups in mandibular responsiveness to the tratment, intended as the longitudinal relative difference (RD) in Pg_Olp, Co_Gn, Co_Go and SN/GoMe values.
Cephalometric variables were tested by the Student's t-Test P value adjusted by using Bonferronimethod or Mann-Whitney U test P value adjusted by using Bonferroni method.



	N	Pg_Olp RD		Co_Gn RD		Co_Go RD		SN/GoMe RD	
		Mean ± SD	*P* value	Mean ± SD	*P* value	Mean ± SD	*P* value	Mean ± SD	*P* value
CoGoMe									
> 125.5°	16	4.00 (2.73)	0.648	3.79 (2.26)	0.600	2.26 (3.44)	0.651	-0.82 (2.26)	0.799
< 125.5°	28	3.64 (2.40)		4.21 (2.77)		2.70 (2.85)		-1.02 (2.57)	

Table 1. Analysis of the relative differences (RD).
N, number of observations; Mean ± SD, mean and standard deviation. *P* value, Student's t – test *P* value.

CONCLUSION AND RESULTS

No significant differences between groups in cephalometric parameters were detected at baseline, except than for Co_Go, L1/MP, and SN/GoMe (p = 0.004, 0.018 and < 0.001 respectively).
No significant differences were found between longitudinal RD means of patients belonging to Group 1 and Group 2 for the selected mandibular responsiveness parameters.

References: Prediction of Individual Mandibular Changes Induced by Functional JawOrthopedics Followed by Fixed Appliances in Class II Patients.
Lorenzo Franchia, Tiziano Baccetti.