



# A comparison of changes of overjet (OJ) and jaw base relationship (A-Pg) in treatment with removable and fixed Functional Appliance



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## Aim

To compare changes of overjet (OJ) and jaw base relationship (A-Pg) during treatment and follow-up of Class II malocclusion treated with a Removable and a Fixed Functional Appliance, respectively.

## Subjects

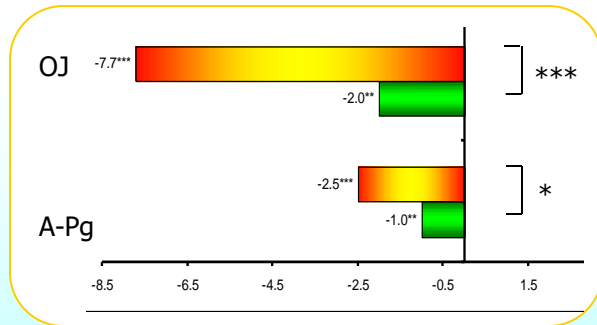
16 consecutive male patients (mean age=11.6) treated with Headgear Activator (T0-T12) were compared to 16 matched male patients (mean age=12.6) treated with Herbst (T0-T6) + Andresen Activator (T6-T12) selected from a large prospective study.

## Methods

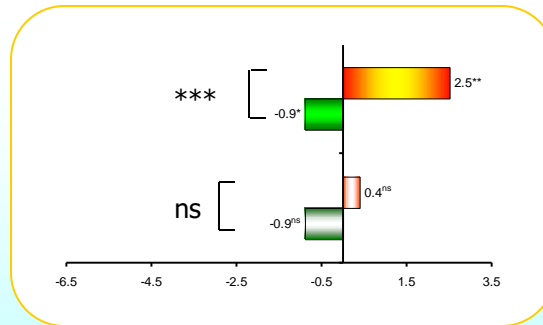
- Lateral cephalograms were obtained at start (T0), after 6 months (T6) and 12 months (T12) of treatment, and after another 24 months (T36).
- All lateral cephalograms were analysed twice, the average of the two sets of data was taken for statistical analysis.
- Interpolations were made to obtain data representing exactly the same length of observation periods.

## Results

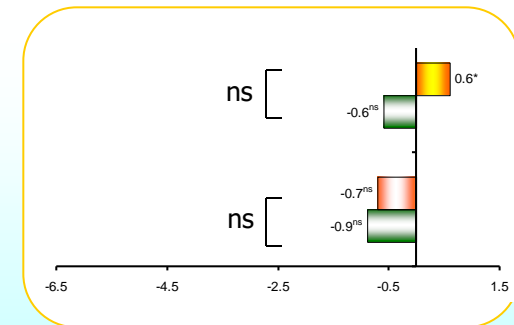
Statistical significant change : ■ ■ , statistical not significant change : ■ ■



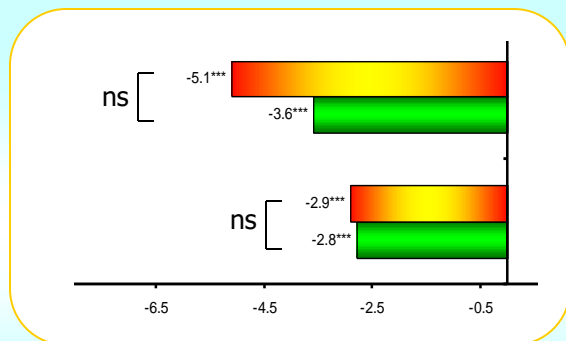
Treatment Changes T0-T6



Treatment Changes T6-T12



Treatment Changes T12-T36



Treatment Changes T0-T36

ns- not significant  
\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

**Conclusion:** The Fixed Functional Appliance seemed to offer only short-term advantages in term of changes in overjet reduction and jaw base relationship compared to Removable Functional Appliance. The observed superiority in the initial phase did not persist in the long term.