

Pediatric Obstructive Sleep Apnea (POSA)

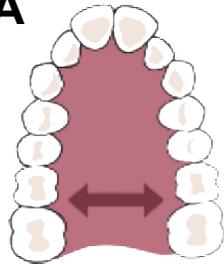
Multiple linear regression model

$$\text{POSA Risk Score (PRS)} = -0.14075 + 0.09823 \times \text{ANB angle} \\ + 0.09467 \times \text{Mandibular crowding} + 0.26468 \times \text{Maxillary constriction} \\ + 1.01392 \times \text{Nighttime and daytime oral breathing}$$

Synergistic interactions of orthodontic factors affecting risk of POSA



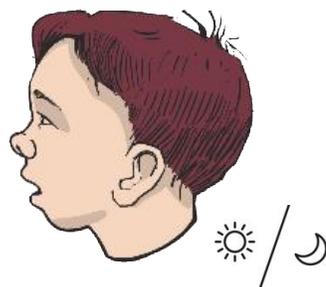
Mandibular crowding



Maxillary arch constriction



Increased ANB angle



Preference of oral breathing

Prevalence of POSA in 100 orthodontic patients based on apnoe-hypopnoe index (AHI) measured by home sleep polygraphy

