

[Am J Orthod Dentofacial Orthop](#). 1993 Jun;103(6):526-9. [Links](#)

Rhinometry and open-mouth posture in young children.

Gross AM, Kellum GD, Morris T, Franz D, Michas C, Foster ML, Walker ME, Bishop FW.

Department of Psychology, University of Mississippi, University 38677.

A biracial sample of 348 elementary school children who were in the first grade were assessed for open-mouth posture (OMP) in the natural environment. In addition, rhinometry was performed on 296 of the children. Means were computed for percent OMP and cross-sectional nasal airway. Results indicated that, in general, these children exhibited relatively high rates of OMP. Boys displayed significantly greater OMP than girls, and black children showed significantly larger cross-sectional nasal areas than white children. A significant correlation between OMP and nasal area only was evident for children exhibiting OMP during more than 80% of the observation intervals. The implications of the findings were discussed.

PMID: 8506814 [PubMed - indexed for MEDLINE]