

Relationship Between Oral Halitosis and Fixed Partial Dentures

**Hebah Al-Juhani, Rawan Daabash, and
Wijdan Al-Khalid**

Resident, Internship Training Program,
College of Dentistry, King Saud University

Riyadh, Saudi Arabia

Hamad A. Alzoman

Associate Professor, Department of
Periodontics and Community Dentistry
College of Dentistry/ King Saud University

Riyadh, Saudi Arabia

ABSTRACT:

OBJECTIVES: to evaluate the association between presence of fixed partial dentures and oral halitosis .

MATERIALS AND METHODS: 88 subjects (50 females, 38 males) attending College of Dentistry, King Saud University, Riyadh, Saudi Arabia from were enrolled. The subjects were divided into two groups: 44 subjects with fixed dentures(group I) and 44 subjects without fixed dentures(group II). Breath sample were taken, and The concentrations of H₂S, CH₃SH And (CH₃)₂S were measured by a portable gas chromatograph (GC) (OralChroma) in ppb.

RESULTS: Halitosis was found affecting 60.2% of the subjects Significant correlations were observed between the presence of fixed partial dentures and oral halitosis. 79.5 % of the subjects were diagnosed with halitosis in group I vs. 40.9% in group II (*P* < 0.001). Halitosis rate was higher among males than females (35.5% vs 25% *P* < 0.001)

CONCLUSION: The percentage of subjects suffering from halitosis among Saudi population is relatively high, and it is higher among males than females. In addition, there was a strong relationship between the presences of fixed partial dentures and halitosis.

Key words: Oral halitosis, Fixed partial dentures
Volatile sulfur compound, Oral chromatography