

THE EFFECT OF CHIOS' MASTIC TOOTHPASTE ON HALITOSIS AND ORAL HYGIENE IN ORTHODONTIC PATIENTS: A RANDOMIZED CLINICAL TRIAL

Antigoni Alexiou¹, Ioulia-Maria Mylonopoulou², William Papaioannou³, Iosif Sifakakis⁴

1. Postgraduate student, Department of Orthodontics, National and Kapodistrian University of Athens, Greece
2. Research Associate, Department of Orthodontics, National and Kapodistrian University of Athens, Greece
3. Professor, Department of Preventive & Community Dentistry, National and Kapodistrian University of Athens, Greece
4. Associate Professor, Department of Orthodontics, National and Kapodistrian University of Athens, Greece

REFERENCES

1. Scully C, Greenman J. Halitosis (breath odor). *Periodontol* 2000 48;66–75.
2. Bicak, D. A. A Current Approach to Halitosis and Oral Malodor - A Mini Review. *J.Dent.* 2018;12:322-330.
3. Kumbargere Nagraj S., Eachempati, P., Uma, E., Singh, V. P., Ismail, N. M., & Varghese, E. Interventions for managing halitosis. *Cochrane Database of Systematic Reviews* 2019;12 Art. No.: CD012213.
4. Aydin M, Harvey-Woodworth CN. Halitosis: a new definition and classification. *BrDent J* 2014;217(1).
5. Abdulraheem S, Paulsson L, Petré S, Sonesson M. Do fixed orthodontic appliances cause halitosis? A systematic review. *BMC Oral Health* 2019;19:72.
6. Pachi VK, Mikropoulou EV, Gkiouvetidis P, Siafakas K, Argyropoulou A, Angelis A, Mitakou S, Halabalaki M. Traditional uses, phytochemistry, and pharmacology of Chios mastic gum (*Pistacia lentiscus* var. *Chia*, *Anacardiaceae*): A review. *J Ethnopharmacol* 2020;254:112485.
7. Koychev S, Dommisch H, Chen H, Pischon N. Antimicrobial Effects of Mastic Extract Against Oral and Periodontal Pathogens. *J Periodontol* 2017;88(5):511-517.
8. Aksoy A, Duran N, Toroglu S, Koksall F. Short-term effect of mastic gum on salivary concentrations of cariogenic bacteria in orthodontic patients. *Angle Orthod* 2007;77(1):124-128.
9. Tsironi K, Mylonopoulou IM, Pandis N, Vassilopoulos S, Sifakakis I, Papaioannou W. The effect of mastic mouthwash on halitosis and oral hygiene in orthodontic patients: A randomized clinical trial. *Eur J Orthod* 2023;45:781-787.
10. Silness J, Loe H. Periodontal disease in pregnancy II. Correlation between oral hygiene and periodontal condition. *Acta Odontol Scand* 1964;22(1):121-135.
11. Aung EE, Ueno M, Zaitse T, Furukawa S, Kawaguchi Y. Effectiveness of three oral hygiene regimens on oral malodor reduction: A randomized clinical trial. *Trials* 2015;16:31.
12. Papadopoulou C, Karamani I, Gkoutsoyianni S, Seremidi K, Kloukos D. A systematic review on the effectiveness of organic unprocessed products in controlling gingivitis in patients undergoing orthodontic treatment with fixed appliances. *Clin Exp Dent Res* 2021;7(4):664-671.