



Turkish Society of  
Restorative Dentistry

**EFCO**  
EUROPEAN FEDERATION  
OF CONSERVATIVE DENTISTRY

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TURKISH ACADEMY OF ESTHETIC DENTISTRY



# CONSEURO

**21-23 April 2022**

Granada Luxury Belek Hotel  
Antalya

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## OP-004

### Assessment of Different Imaging Systems for Dental Plaque Scoring: an in-vivo Study

Simge Meşeli<sup>1</sup>, Sergen Ekenel<sup>2</sup>, Burak Aksu<sup>3</sup>, Dilek Tağtekin<sup>1</sup>, Funda Yanıkoğlu<sup>4</sup>

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**Aim:** The aim of the clinical study was to analyze the correlation between the dental plaque scores measured by different imaging systems.

**Materials and Methods:** Thirty volunteers between the age of 18-30, who visited Marmara University, Faculty of Dentistry whose DMFT scores were under 4, were included in the study. Dental plaque on anterior teeth's buccal surfaces of the volunteers were scored using different imaging systems after staining with a disclosing gel. The patients were divided into three groups. The groups were given two different herbal toothpastes (ginger and hemp) and a conventional toothpaste. Digital photography, intraoral digital scanning (iTero Elements 2) and FluoreCam were used for taking intraoral images. The Turesky Modified Quigley Hein Plaque Index (TMQHPI) was used for the clinical examination and the taken images. The correlations between the clinical examination and imaging scores were analyzed before and after using the toothpastes for 21 days. Shapiro Wilk Test and Pearson's correlation were performed using IBM SPSS Statistics V23 (IBM Co. , Armonk, USA) ( $p < 0.05$ ).

**Results:** The lowest mean value was obtained in the clinical examination without disclosing gel method and the highest mean value was obtained in the FluoreCam method. The mean value of the clinical examination without disclosing gel was found to be lower than the clinical examination with disclosing gel method and intraoral digital scanning method. There was no significant difference between toothpastes before and after toothbrushing for all clinical imaging methods.

**Conclusion:** Staining of the plaque and the use of digital imaging systems have shown a positive effect in the determination of dental plaque. Intraoral imaging systems may be used as an alternative to supplement the shortcomings of conventional clinical indices for educating patients about plaque control and continued patient oral care. Herbal toothpastes are just as effective as conventional toothpastes in removing dental plaque.

**Keywords:** dental plaque, dental photography, intraoral digital scanning, fluorecam, turesky modified quigley hein plaque index