



Comparison

of Three Different Types of Toothbrushes in Patients with Fixed

“Orthodontic Appliances”

Background

Fixed appliances in patients undergoing orthodontic treatment impede patients from adequate tooth brushing and flossing thus facilitate bacterial plaque accumulation and compromised gingival health^{[1],[2]}. This usually results in demineralization of dental

hard tissues and gingivitis^[3]. Tooth brushing is the most common method for removing deposits of oral debris and plaque from tooth surface. There are many types of toothbrushes available in the market. Patients usually ask their orthodontists whether there is a difference among these toothbrushes.

Objective

This study was designed to compare three types of toothbrushes by evaluating plaque accumulation and gingival health clinically.

Ethics

The protocol approved by the Ethics Committee of Rangsit University. Ethical approval number: RSEC 03/2555

Method

Thirty healthy patients undergoing fixed orthodontic therapy were included in the study. Patients were divided into three groups and the patients in each group used different types of toothbrushes; CrossAction® PRO-HEALTH™, Orthodontic Toothbrush and Conventional Toothbrush. Plaque accumulation and gingival inflammation were assessed with Plaque Index (PI) and Papillary Bleeding Index (PBI) after a one-week and three-week interval, respectively, by single blind technique.