

**PENGARUH MENYIKAT GIGI DENGAN PASTA GIGI
SIWAK MENGGUNAKAN TEKNIK BASS TERHADAP
AKUMULASI PLAK PADA MAHASISWA FKG UNAIR
PENGGUNA ORTODONTI CEKAT
(PENELITIAN EKSPERIMENTAL)**

SKRIPSI



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**THE EFFECT OF TOOTHBRUSHING BY MISWAK
TOOTHPASTE USING BASS TECHNIQUE IN INHIBITING
THE PLAQUE ACCUMULATION ON FKG UNAIR
STUDENTS USING FIXED ORTHODONTIC APPLIANCES
(EXPERIMENTAL RESEARCH)**

ABSTRACT

Background. *The people who used fixed orthodontic appliances are required to have more effective oral cavity cleansing than those who are not (users), because there are some parts of fixed orthodontic which attached into the teeth. Miswak toothpaste has a wide range of ingredients, including : polyphenols, flavonoids, fluoride, and essential oils. Certainly, all of this material may work well to reduce the plaque accumulation resulting on the teeth with the aid of a good toothbrush, too. The Bass technique is suggested to the people who used fixed orthodontic appliances, because of it's method.* **Purpose.** *The goal of this study is to find out about the effectivity of miswak toothpaste reducing plaque accumulation in the teeth.* **Method.** *The sample were the dentist student in Airlangga University aged 17-25 years, male and female, wearing fixed orthodontic appliance in maxilla and mandible, one sample was given three kinds of treatment. The sample use Bass technique. At the first day, the samples use the placebo toothpaste, at the second day, they use miswak toothpaste, and the third day, only brushed the teeth without the paste. After that, do the fasting for 4 hours, add the disclosing agent into the teeth, mouthwash once, then, check the plaque accumulation based on OPI score.* **Result.** *There was significant differential between the use of placebo toothpaste and miswak toothpaste ($p=0.000<0.05$).* **Conclusion.** *Miswak toothpaste is effective to reduce the plaque accumulation because of the content of miswak toothpaste.*

Keywords : *fixed orthodontic, dental plaque, miswak toothpaste, Bass technique*