

REBUSAN DAUN SALAM (*Eugenia polyantha*) DALAM MENGHAMBAT
PERTUMBUHAN PLAK PADA RESTORASI GIGI TIRUAN TETAP

(*BOILING OF BAY LEAF (Eugenia polyantha) IN INHIBITING PLAQUE
GROWTH ON FIXED BRIDGE RESTORATION*)

ABSTRACT

Background. *Plaque is known as the primary factor cause of periodontal disease, which usually accumulates on crown surfaces. There are many ways for preventing periodontal disease, one of them is using of antiseptic mouth washes. Now, some people use herbal that has capability for mouth washes, one of that herbal is boiling of bay leaf (*Eugenia polyantha*). Bay leaf was found to contain tanine, flavonoid, essential oil, including citric acid and eugenol, chemical properties that act as antibacterial.* **Purpose.** *The purpose of this study is to know the boiling of bay leaf (*Eugenia polyantha*) in inhibiting plaque growth on fixed bridge restoration.* **Material and method.** *This study was done on 20 patients, who were instructed to brush their teeth using toothpaste and gargle with aquades (1st treatments) and then brush their teeth using toothpaste and gargle with boiling of bay leaf 50% (2nd treatments). The existence of dental plaque on region was evaluated by means of the modification Quigley and Hein Index after 4 hours, 24 hours and 168 hours. The data obtained from the first and second treatments were tabulated and analyzed using the Wilcoxon Signed Rank Test ($p= 0,05$).* **Result.** *Result after 4 hours was 0.61, 24 hours was 0.01 and in 168 hours was 0.00. There was a significant different of plaque scores in 24 hours and 168 hours in patients who gargle with aquades and gargle with boiling of bay leaf 50%.* **Conclusion.** *Gargle with boiling of bay leaf 50% can inhibit plaque growth on fixed bridge restoration.*

Keywords : bay leaf, mouth washes, plaque growth