

EFEKTIVITAS KUMUR EKSTRAK DAUN UNGU (*Graphthophyllum pictum* L. Griff) TERHADAP KOLONI BAKTERI DALAM SALIVA

(THE EFFECTIVITY OF GARGLING 10% PURPLE LEAVES EXTRACT (*Graphthophyllum pictum* L.Griff) TOWARD THE GROWTH OF BACTERIA COLONY IN SALIVA

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Dental caries and periodontal disease are the most problem in oral health. The main etiology of diseases is dominated by bacterial colonization and can be found in saliva. Bacteria control was performed by using antibacterial agent. Purple leaves extract (*Graphthophyllum pictum* L.Griff) contains antibacterial agent namely flavonoid, triterpenoide, alkaloid, glycoside, saponin and tannin. The objective of this study was to examine the effect of gargling with 10% purple leaves extract in bacteria colony growth inhibition in saliva. In this study 15 subjects were divided randomly into 3 groups (treatment, positive and negative control). Each group consisted of 5 respondents. Treatment group gargled with 10% purple leaves extract, while positive control group gargled with 0,2% *Chlorhexidine gluconate* and negative control group gargled with aquades for 5 consecutive days in the morning and at night after they brushed their teeth. Bacteria colonies in saliva were cultivated on Brain-Heart Infusion Agar (BHIA) for 24 hours. The results showed that 10% purple leaves extract inhibited bacteria colonies growth in saliva ($p < 0.05$). There was no significant difference between the number of bacteria colonies in saliva of respondents who gargled with 10% purple leaves extract and 0.2% *Chlorhexidine gluconate* ($p > 0.05$). In conclusion, gargling with 10% purple leaves extract can be as an alternative mouth.

Keywords : purple leaves extract, bacteria colony in saliva