PENGARUH LAMA PERENDAMAN CETAKAN ALGINAT DALAM INFUSA DAUN JINTEN TERHADAP PERTUMBUHAN MIKROORGANISME RONGGA MULUT

(THE INFLUENCE OF TIME BASED IMMERSION ALGINATE IN JINTEN LEAF INFUSION TO ORAL MICROORGANISM GROWTH)

ABSTRACT

Background. Alginate impression that contaminated by saliva and blood is potentially could cause cross contamination. To prevent this, the impression have to be disinfected. Jinten leaf (Coleus amboinicus Lour) has some chemical content such as flavonoid that act as antibacterial and antivirus, saponin as a blood hemolysis action, essential oil as antiseptic, and carvacrol as antifungal. Based of research 22,5% of jinten leaf infusion is the most effective concentration for decreasing the colony of Candida albicans and Streptococcus mutans. Purpose. To find out the most effective time of immersing the alginate impression in jinten leaf infusion 22,5% in decreasing the oral microorganism growth.

Material and method. Twenty four samples been taken from 6 respondens that fullfill the requirement. These alginate impression devided to 4 groups: group 1 no immerse (as control), group 2 immerse in jinten leaf infusion 22,5% for 3 minutes, group 3 immerse in jinten leaf infusion 22,5% for 5 minutes, and group 4 immerse in jinten leaf infusion 22,5% for 7 minutes. Then count the microorganism colony. Repeated Measures ANOVA is used to analyze the data, after that Friedman test is used to further analyze. Result. There is significant differences between each group, p=0,00 (p<0,05). Conclusion. As a disinfectant, this jinten leaf infusion 22,5% effective after 3 minutes immersion.

Keyword: Alginate impression, jinten leaf, oral microorganism.