ABSTRACT

Background. Potentially contaminated alginate impression that contaminated by saliva and blood can caused cross infection. To prevent cross infection, the impresion have to be desinfected by desinfectan liquid such as mango leaves (Mangifera indica Linn.) extract. Mango leaves has some chemical content such as mangiferin, flavanoid, tamin and saponin as antimicroorganism. Purpose. The purpose of this study is to find out the most effective concentration of the mango leaves extract as a disinfectant to decrease microorganism colony on the alginate impression. Material and method. Thirty six samples taken from nine respondens that fullfill the requirement. These alginate impression taken in first molar region and devided into 4 groups : group 1 sprayed by sterile aquades as a control, group 2 sprayed by mango leaves extract 10% for 30 second, group 3 sprayed by mango leaves extract 20% for 30 second, group 4 sprayed by mango leaves extract 30% for 30 second. Then count the microorganism colony on the blood agar. Data analysis using the Kolmogorov Smirnov test, then using Levene Test. The last using ANNOVA test Result. There is significant differencies between each group, \( p = 0.00 \) (\( p<0.05 \)). Conclusion. The mango leaves can be used as desinfectan. Increasing concentration of mango’s leaves can reduce colony of oral microorganisme.

Keyword : Alginate impression, Mango leaves, Oral microorganism