

ABSTRACT

Adisthi, Pretty Yanuar. 2015. **The Effect of Immersion Duration Heat Cured Acrylic Plate in 50% Basil Leaves Infussion (*Ocimum basilicum* Linn) Towards Color Stability**. Final Assignment, Faculty of Medicine Brawijaya University. Supervisors : (1) drg.Kartika Andari Wulan, Sp.Pro., (2) drg. Wahyu Susiloningtyas, Sp.Pro.

Denture cleanser is liquid used to clean the dentures. Denture cleanser effective when contains disinfectant but along with immersion can lead to color changes of the denture base. In Indonesia, denture cleanser are very important by a reason of the high prevalence of denture stomatitis in edentulous patients for about 62% but because hard to find and the high price to buy the denture cleanser so it thus need alternative denture cleanser that more affordable by all levels of society. It can be derived from medical plant namely basil (*Ocimum basilicum* Linn). Basil (*Ocimum basilicum* Linn) proved to be effective decrease the number of *Candida albicans*. This research use experimental laboratories with *post test only control design* that conducted using an heat cured acrylic resin plate that divided into treatment groups that immersed on 8 days, 15 days and 23 days in basil infuse and control groups that immersed in aquades. Color stability testing using *spectrophotometer* type BPY-47. The result of the research that using Oneway ANOVA ($p < 0,05$) showed that long immersion of heat cured acrylic plate on infuse basil (*Ocimum basilicum* Linn) leaves 50% effect on color stability. Based on the result of this research, it is recommended for user that using immersion of infuse basil (*Ocimum basilicum* Linn) leaves to pay attention of the time when immersion the denture with it.

Keywords : denture cleanser, infuse basil leaves, color stability