

**EFEK LAMA PERENDAM INFUSA DAUN SALAM (*Eugenia polyantha* Wight) PADA KEKUATAN TRANSVERSA RESIN AKRILIK HEAT CURED**

**THE EFFECTS OF HEAT CURED ACRYLIC RESIN IMMERSION IN BAY LEAF INFUSION (*Eugenia polyantha* Wight) ON ITS TRANSVERSE STRENGTH**

**ABSTRACT**

**Background:** In oral cavity, denture contacts with saliva that contains a lot of protein. The acrylic porosity and saliva can form pellicle that cause plaque and microorganisms, particularly *Candida albicans*. The growth of *Candida albicans* causing denture stomatitis. As a result, to prevent this problem, the denture can be cleaned using both toothbrush mechanically and denture cleanser chemically. A research conducted by Septian Puji Lestari (2011) showed that bay leaf infusion could inhibit the growth of *Candida albicans*. Similarly, another research also showed that immersion of denture base made of acrylic resins in denture cleansers could affect the properties of acrylic resin. **Objective:** This research is used to know the effect of heat cured acrylic resin immersion in bay leaf infusion on its transverse strength **Method:** Acrylic resin plate samples with size (65 x10 x2.5 mm) containing 42 specimens made through heat-cured acrylic resin polymerization were divided into 6 groups. First, control groups consisted of 21 specimens and immersed in distilled water for 4 days (group A), for 12 days (group B), and for 19 days (group C). Meanwhile, treatment groups consisted of 21 specimens immersed bay leaf infusion for 4 days (group D), for 12 days (group E), and for 19 days (group F). **Result:** There was no significant difference of the transverse strength of heat cured acrylic resin immersed in bay leaf infusion for 4 days, 12 days, and 19 days ( $p < 0,05$ ). **Conclusion:** Immersion process of heat cured acrylic resin in bay leaf infusion has no effect on its transverse strength.

**Keywords:** heat cured acrylic resin, bay leaf infusion, transverse strength