

**PENGARUH PERENDAMAN RESIN AKRILIK *HEAT CURED* DALAM PERASAN
BUAH NANAS (*Ananas Comosus*) TERHADAP KEKUATAN IMPAK
(Eksperimental Laboratoris)**

**THE EFFECT OF *HEAT CURED* RESIN ACRYLIC IMMERSSED
IN PINEAPPLES JUICE (*Ananas Comosus*) TOWARDS ITS IMPACT STRENGTH
(laboratory experimental)**

ADRIAN ALFIANDY

**Pembimbing : (Prof. Dr. Toeti Melanie W.G., drg,
KKA KK 2 KG 233 / 11 Alf p**

ABSTRACT

Background: One of the methods of cleaning denture is by immersing acrylic denture into denture cleanser solutions. Pineapples contain bromelin which can reduce colonies of *Candida albicans* on resin acrylic and polyphenol that can cause damage to resin acrylic.

Purpose: The purpose of this research is to observe the effect of immerse acrylic in pineapple juice to the impact strength of heat cured resin acrylic. **Materials and Method:** The sample's form is a 65x10x2,5 mm slab made out of heat cured resin acrylic. The sample's are then divided into 6 groups of treatment, 3 groups are immersed in the pineapples juice and the other 3 are immersed inside aquadest as the control group 4, 8 and 12 days. The samples used are 7 for each group. The impact strength is measured using mini impact tester KRY 28.5.1959 type. The analysis of the data will be using Kolmogrov-smirnov analytic and One-Way ANOVA. **Results:** The results of the research showed pineapple juice have effect toward its impact strength **Conclusion :** Pineapple juice can be used as a denture cleaning solution resin acrylic heat cured .

Key words : Pineapple juice, resin acrylic, impact strength