

## **ABSTRACT**

### ***Pineapple Peel Extracts (*Ananas comosus* (L) Merr.) Effectivity as Desinfection on Acrylic Resin for inhibits the formation of *Candida albicans****

**Background:** Pineapple peel extracts contains active compound among others, enzym bromelin, flavonoids, saponins, and tanins have anti-fungal. Acrylic resin is the most common material used for removable denture base. However, the character of porous in acrylic resin can possibly become a place for *Candida albicans*. As a result, this condition can increase the number of *C.albicans* in oral cavity, one of which is *Candida albicans*. *C.albicans* even can grow rapidly in dentures with poor oral hygiene. **Objective:** To determine effectiveness of pineapple peel extracts as desinfection on acrylic resin for inhibiting the formation of fungus candida albicans. **Materials and Methods:** First for the treatment groups acrylic plates that had been contaminated with *C.albicans* were soaked in pineapple peel extracts with a concentration 6,25%,12,5%,25%. Meanwhile, for control group the plate was soaked in sterile distilled water. Next, after the acrylic plates were placed over a vibrator to loss fungal colonies, spreading was conducted on Sabboroud Dextrose Agar to count the member of *C.albicans* manually with colony forming unit (cfu/ml). **Result:** Significant difference among those treatment groups. It is known from the value of  $p < 0.05$ . **Conclusion:** The most concentration of pineapple peel extract can inhibits the growth of *C.albicans* is 25%.

**Keyword :** Acrylc resin, *Candida albicans*, Pineapple peel extract