DAYA ANTIJAMUR EKSTRAK BUAH NANAS (Ananas comosus (L) Merr) TERHADAP CANDIDA ALBICANS PADA ANAK

ANTIFUNGAL POTENCY ON PINEAPPLES EXTRACT (Ananas comosus (L) Merr) TO CANDIDA ALBICANS OF CHILDREN

ABSTRACT

Background. Fungal infection is one of health problems occurred in the oral cavity, especially is caused by Candida albicans. Years of children are vulnerable towards the growth of Candida albicans because children have not had flora of oral cavity which is stable and a perfect immune system. Oral Candidiasis is an infection caused by Candida albicans which is often occurs. Based on some researches, pineapples (Ananas comosus (L) Merr) contain bromelin, saponin, flavonoid, and poliphenol which have an ability to obstruct the growth of Candida albicans.

Purpose. This present study was aimed to examine Minimum Inhibitory Concentration (MIC) and Minimum Fungicidal Concentration (MFC) of pineapples extract (Ananas comosus (L) Merr) to Candida albicans towards children.

Methods. This present study uses a pure laboratories experimental research of in vitro. The Candida albicans, as the sample used in this study was taken from the wiping of dorsum of the tongue (swap) of child patients in Dental Hospital, Department of Pediatric Dentistry, Airlangga University. Afterwards a microscopic examination was done and followed by a confectionary test to identifications of Candida albicans. Than, the antifungal test uses dilation method from pineapples extract (Ananas comosus (L) Merr) that contains into several concentration: 100%, 50%, 25%, 12.5%, 6.25%, 3.125%, 1.56%, and 0.78%. Result. The result showed that Minimum Inhibitory Concentration (MIC) was found on 6.25% concentration and Minimum Fungicidal Concentration (MFC) was found on 12.5% concentration. Conclusion. This present research showed that Pineapples extract (Ananas comosus (L) Merr) has antifungal potency to Candida albicans of children.

Keywords: Oral candidiasis, Candida albicans, Pineapples extract (Ananas comosus (L) Merr)