

**DAYA ANTIFUNGAL EKSTRAK KULIT *Garcinia mangostana* Linn  
TERHADAP *Candida albicans* PADA ORAL CANDIDIASIS PASIEN  
HIV/AIDS SECARA IN VITRO**

**ANTIFUNGAL EFFECT OF *Garcinia mangostana* Linn PEEL EXTRACT  
TOWARDS *Candida albicans* ON ORAL CANDIDIASIS PATIENT'S WITH  
HIV / AIDS (IN VITRO STUDY)**

**ABSTRACT**

**Background.** The increased prevalence of oral candidiasis associated with HIV infection must be intrinsically related to host immunological changes. Oral candidiasis caused by *Candida albicans* is recognized as one of the most frequent opportunistic infections in HIV/AIDS patients. Mangosteen as one of medicinal herbs that grows on tropical area, its peel provides many benefits, one of them as an antifungal. **Purpose.** The aim of this study was to account the antifungal effect of mangosteen peel extract towards the growth of oral *Candida albicans* from HIV/AIDS Patient's. **Methods.** This study was done using *Candida albicans* colony from the oral lesions of patient living with HIV/AIDS at 4<sup>th</sup> stage. The inoculums was incubated in Sabouraud Dextrose Agar (SDA) to let the *Candida albicans* grow. Mangosteen peel extract was diluted in different concentration: 100%, 50%, 25%, 12,5%, 6,25%, 3,125%, 1,56%, 0,78%. Inoculums were dipped in Mangosteen peel extract and grow on at agar media with spreading technic. After 24 hours, colony of *Candida albicans* would be counted. **Results.** At concentrations of 100%, 50%, and a negative control showed no growth of *Candida albicans*, whereas at a concentration of 25%, 12.5%, 6.25%, 3.125%, 1.56%, 0.78% showed colony growth of *Candida albicans*. These mean the minimum concentration of mangosteen peel extract which can inhibit the growth of *Candida albicans* colonies is 25%. **Conclusion.** Mangosteen peel extract has an antifungal effect towards *Candida albicans* colony from oral lesions of patient living with HIV/AIDS at 4<sup>th</sup> stage that is minimum concentration to inhibit the growth of *Candida albicans* is 25% and minimum fungicid concentration is 50%.

**Keywords:** *Garcinia mangostana* L, Oral Candidiasis, HIV/AIDS, *Candida albicans*, Colony count