

**DAYA ANTIFUNGAL EKSTRAK KULIT MANGGIS (*Garcinia mangostana* L.) TERHADAP PERTUMBUHAN *Candida glabrata* DARI RONGGA MULUT PASIEN HIV/AIDS SECARA *IN VITRO***

**ANTIFUNGAL EFFECT OF MANGOSTEEN PEEL (*Garcinia mangostana* L.) EXTRACT TOWARD THE GROWTH OF *Candida glabrata* FROM HIV/AIDS PATIENT'S MOUTH (IN VITRO STUDY)**

**ABSTRACT**

**Background.** Most cases of oral candidiasis have been attributed to *C. albicans*, but recently non-*albicans* *Candida* species have been identified as frequent human pathogens, especially *C. glabrata*. In past two decades, *C. glabrata* that was known as non-pathogenic saprophyte, as a consequence of the widespread use of immunosuppressive drugs and the emergence of the AIDS, *C. glabrata* is increasingly implicated in human infection. Moreover, *C. glabrata* is of added concern because of its inherent resistance to certain antifungal agents and need a high doses of antifungal agents. Mangosteen peel is a medicinal herb that grows widespread worldwide. It has many health benefits, one of them is antifungal effect. **Purpose.** The aim of this study was to find the effective concentration (MIC and MFC) of mangosteen peel extract towards the growth of *C. glabrata* from HIV/AIDS Patient's Mouth. **Method.** This research was done with the used of *C. glabrata* colony culture from the pseudomembranous oral candidiasis lesions in patient with 4<sup>th</sup> stage of HIV/AIDS. The inoculums was incubated in Sabouraud broth liquid to let the *C. glabrata* grow. Mangosteen peel extract is diluted in different concentration: 100%, 50%, 25%, 12,5%, 6,25%, 3,125%, 1,56%, 0,78%. Inoculums are dipped in Mangosteen peel extract and put on the Sabouraud dextrose agar media. After 24 hours, colony of *C. glabrata* will be counted. **Result.** The colony count on the concentration 100% and 50% were none. On the concentration 25%, 12,5%, 6,25%, 3,125%, 1,56%, 0,78% showed a growth of *C. glabrata* colonies, but in 25% had the minimum colonies. **Conclusion.** Mangosteen peel extract have antifungal effect toward the growth of *C. glabrata* colonies from HIV/AIDS patient's mouth lesions. The MIC is 25% and the MFC is 50%.

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