

## **Association between Intrauterine Device Usage with Vulvovaginal Candidiasis**

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**Abstract : Introduction:** Candidiasis is an acute / subacute fungal disease caused by *Candida* species, especially *Candida albicans*. It may infect various organs including genitourinary mucosal membranes. Vulvovaginal candidiasis is one of the most common female genital tract infections. Clinical symptoms that may be found include vaginal discharge, pruritic vulva, burning sensation and dysuria or dyspareunia. Intrauterine device (IUD) is one of the predisposing factors of vaginal candidiasis. The infection is primarily caused by IUD insertion under unsterile conditions. Therefore, this study aimed to see whether vulvovaginal candidiasis occurrence can be triggered by IUD insertion.

**Objective:** to analyze the association between IUD insertion and vulvovaginal candidiasis occurrence in Puskesmas Pancurbatu.

**Methods:** This cross-sectional study was done in Puskesmas Pancurbatu, Deli Serdang Regency in June 2017 with consecutive sampling method. Vaginal discharges were taken as samples from the family planning clinic patients. Microbial examinations using Gram staining were done in Clinical Microbiology Department of Faculty of Medicine of University of Sumatera Utara.

**Results:** 72 subjects were included within this study. They were divided into IUD group and non-IUD group. The majorities of subjects were in 41-50 years old group (44%) and worked as housewife (61%). Gram staining results showed positive yeast growth on 20 subjects (56%) of the IUD group and 36 subjects (100%) on the non-IUD group.

**Conclusion:** There was a significant association between IUD usage with vulvovaginal candidiasis ( $p < 0.05$ ).

**Keywords :** vulvovaginal candidiasis, intrauterine device.

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