

**A STUDY ON MICROBIOLOGICAL PROFILE OF VAGINITIS AND ITS  
ASSOCIATION WITH URINARY TRACT INFECTION DURING PREGNANCY IN  
A TERTIARY CARE HOSPITAL**

**ABSTRACT**

**Introduction:**

Infectious vaginitis which includes bacterial vaginosis (BV), vulvovaginal candidiasis (VVC) and trichomoniasis are common disorders seen in women. Both vaginitis and urinary tract infection (UTI) during pregnancy have risk to lives of both the mother and the fetus.

**Aim:**

To identify common causes of infectious vaginitis in pregnancy and to determine the risk of urinary tract infections in pregnant women with bacterial vaginosis.

**Methodology:**

Cross sectional descriptive study was done among 200 pregnant patients attending Institute of obstetrics and gynaecology , Egmore. Study period was from March 2017 to February 2018 .

Duplicate High Vaginal Swab and urine sample were collected from each patient. BV was diagnosed using Amsel's criteria and Nugent's scoring. VVC was determined by culture on Sabouraud Dextrose Agar and Candida species were identified by sugar fermentation and assimilation test. Trichomoniasis was detected by observing motile trophozoites under microscope. Diagnosis of UTI was made when there were at least  $10^5$  colony forming units/ml of urine.

**Results:**

Out of 200 patients, 65 were positive for infectious vaginitis and 32 had UTI. Among 65 infected patients, BV and VVC were found in 42(64.6%) and 23(35.4%) respectively. BV associated with UTI was seen in 35.7% of the patients. The association between BV and UTI was found to be statistically significant ( $p < 0.05$ ).

**Conclusion:**

Hence, BV was the most common vaginitis among pregnant women and women with BV are at increased risk for UTIs. We recommend that all pregnant women during antenatal check up should be screened for the presence of BV and UTI.

**Keywords:**

Bacterial Vaginosis, Urinary Tract Infection, Vulvovaginal candidiasis, Pregnancy.