



Cancer in Women

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Prevalence of *Bacterial Vaginosis* and Sensitivities to Different Antibiotics in Fertile/Infertile Women Referring to Ardabil Health Centers

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ABSTRACT

Background: *Bacterial vaginosis (BV)* is associated with changes in normal vaginal microflora through which risk of pelvic inflammatory diseases and vaginal infections increase in women with BV. This study aims at determining the *frequency of BV* and antibiotic sensitivity in fertile and infertile women referring to Ardabil health centers.

Methods: This was a descriptive-analytical study conducted on 130 patients admitted to health centers in order to determine the prevalence of BV and antibiotic sensitivity and antibiogram test was performed in this regard. Besides, BV diagnostic tests were carried out based on demonstrating three of the *four Amsel's criteria*.

Results: preterm delivery and abortion have a significant relationship with BV ($P < 0.05$). The prevalence of BV was significantly associated with IUD contraceptive ($P < 0.05$). It was found that there is a significant reduction in the number of lactobacilli and an increase in BV ($P < 0.05$). Moreover, having sensitivity to different antibiotics has been correlated with the bacterial vaginosis.

Conclusion: There was a statistically significant difference in the prevalence of BV among fertile and infertile people. The prevalence of BV in fertile and in infertile women was 38% and 59% respectively. The bacterium was sensitive to clindamycin antibiotics and resistant to metronidazole in the conducted antibiogram. Moreover, 66.6% of the fertile women enrolled in the study were using IUD contraceptive.

Keywords: *Bacterial Vaginosis (BV), Resistance to Antibiotics, Pregnancy, Ardabil*