

1. ABSTRACT

Vaginal infection caused by yeasts is very frequent complication of women in fertile age.. One the most important predisposed factor are considered sexual hormones, especially estadiol. The results of clinical observations shows that this infection often occurs in women during the luteal phase of menstrual cycle, when estrogen and progesteron levels are elevated.

We studied antifunal effect of sexual hormones on the growth of *Candida albicans* in combination with antifungal drugs.

We used six clinical strains of *Candida albicans* from the patients with vulvovaginal candidiasis. A combination of one antifungal drug (fluconazole, amphotericin B, flucytosine) with a hormone (testosterone, progesterone, estradiol) was tested in all these strins. The results expressed as MIC of these combinations of hormone and antifungals were determined visually and spectrophotometrically.

The best combination in terms of antifungal activity *in vitro* was amfotericin B with progesterone which showed addition. In contrast, combinations of flukonazol with all hormones were indifferent or antagonistic.