IMPACT OF ESTROGENS ON PERIODONTAL HEALTH OF WOMEN IN THE REPRODUCTIVE PERIOD

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Background: During the reproductive period of the woman's life, the periodontal tissue does not show clinically evident changes during the menstrual cycle, although in the literature data reveal intensification of gingival inflammation, by increasing the level of estrogens during the cycle, against the maintenance of good oral hygiene. Purpose: to evaluate the influence of sex hormone 17β estradiol in the maintenance of periodontal health in women in the reproductive

the maintenance of periodontal health in women in the reproductive period of life, by determining

- serum and salivary levels of 17β estradiol, in patients in reproductive period
- to determine the influence of 17β estradiol on the periodontal tissue complex, followed by the periodontal health indexes

Material and method In a group of 30 patients in the reproductive period, at 25 to 45 years of age was assessed periodontal status through the indexes of: dental plaque, gingival inflammation, gingival enlargement, epithelial apical migration, and luxation of teeth.

Examination of serum and salivary levels of 17β estradiol was performed using DRG Estradiol ELISA (EIA-2693) kit.

The results that we were able to determine by the periodontal parameters, during this period of the menstrual cycle, talk about accentuated inflammation followed by gingival bleeding. Pearson's coefficient of correlation between the values of 17β estradiol in serum and saliva in the patients in reproductive period showed that there is a strong correlative ratio of r=0.86 in both media. Analyzing the estrogenic effect on periodontal health followed by the correlation coefficients, it does refer to its moderate to strongly positive influence (p=0.45 to 0.80)

In conclusion, the pronounced influence of estrogens on gingival and periodontal health suggests the active role of dentists in periodontal treatment, in the reproductive period in women.