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The relationship between vitamin D and pituitary hormones (LH and FSH) in women referred to the Jihad Daneshgahi Infertility Treatment Center (Qom-Iran)

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Background: Recent studies have shown that vitamin D and hormones may have a role in fertility problems. So that, According to this results has been shown that vitamin D may be affected on different cells of the body organs, including the ovaries, uterus and placenta. Also, there is the possibility of a relationship between vitamin D and hormones.

Aim: In this study, the relationship between vitamin D and hormones LH and FSH in infertile women was evaluated.

Materials and Methods: In this study, 132 women referred to the Jihad Daneshgahi Infertility Treatment Center (Qom-Iran) were examined, among them 82 (62.1%) patients have a deficiency of vitamin D, 37 patients (28%) have vitamin D insufficiency and 13 patients (9.8%) have insufficient vitamin D levels. Also, LH and FSH hormones obtained from the blood plasma of the patients were measured.

Results and Disscusion: In this study, significant difference was shown in the levels of LH, FSH hormones and vitamin D. The results of this study shown that there is a significant relationship between the levels of pituitary hormones (LH and FSH) and the amount of vitamin D in infertile women.