

## مقایسه تأثیر وسایل داخل رحمی TCU-380A و TCUsafe-300

### بر حجم خون ریزی قاعدگی

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## Comparison of the Effect of TCU-380A and TCUsafe-300 on Menstrual Blood Loss

### Abstract

**Introduction and Objective:** One of the most common side effects of intrauterine devices is increasing of menstrual blood loss, which may cause discontinuation and iron-deficiency anemia. By considering the effect of IUD type on menstrual blood loss volume and high incidence of iron-deficiency anemia among women, developing countries this research was conducted to compare the effects of TCU-380A and TCUsafe – 300 IUDs on menstrual blood loss among subjects attending health care centers of Iran University of Medical Sciences in 2004.

**Material & Methods:** In this single blind clinical trial 110 healthy subjects enrolled as clients who were eligible for use of IUDs. They were selected by a purposive manner, then they were randomly divided in to two groups of TCU-380A and TCUsafe-300 users. Menstrual blood loss was measured one month before and 1, 2, and 3 months after IUD insertion by use of Higam Chart. Data were analyzed by using statistical tests such as chi-square, Mann-Whitney, Independent t, Pair t, Fisher exact, Fisher, ANCOVA.

**Results:** Mean menstrual blood loss before TCUsafe-300 and TCU-380A usage were  $44 \pm 17.8$  mL respectively, for which there was no significant difference between them. But mean menstrual blood loss during the first 3 months after IUD insertion were  $109.9 \pm 69.2$  mL and  $139 \pm 52.6$  mL respectively ( $P = 0.032$ ). Menstrual cycle length was decreased and menstrual duration was increased after IUD insertion in both groups ( $P < 0.001$ ).

**Conclusion and Comment:** This research showed menstrual blood loss in the first 3 months after IUD insertion in TCUsafe – 300 users were less than TCU 380A users. More studies are suggested on the side effects and effectiveness of TCU-safe 300 IUDs and other ways of decreasing the blood loss in IUD users to increase the client motivation for using IUDs and increasing its continuation rate as well.

**Key Words:** Menstrual blood loss, TCU-380 A, TCUsafe-300.

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