

عنوان مقاله:

Comparison of Estimation of Fetal Weight by Clinical Methods and Ultrasonography with Actual Birth Weight in Term Pregnant Women

محل انتشار:

سومین کنگره بین المللی چالش های بالینی در مامائی، زنان و نازائی (سال: 1398)

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خلاصه مقاله:

Background and Aim : To compare the accuracy of clinical methods and ultrasonography of estimation of fetal weight (EFW) with actual birth weight (ABW) in term pregnant women. **Methods :** This is a diagnostic test evaluation study that was performed on 247 single-term pregnant women who were admitted to the Al-Zahra Hospital in Iran, Rasht for vaginal delivery and cesarean delivery. In this study, Abdominal palpation, Johnson's formula and Insler's formula and Ultrasonography were used to estimation of fetal weight. The study was conducted from 19 May to 1 July in 2018. The results of the comparison of the different EFW methods and ABW (with the difference of ± 100 gram) by chi-square test and the accuracy were based on sensitivity and specificity in categorizing the fetal weight (below 2500 grams, 2500- 4000 grams and above 4000 grams). **Results :** Mean of actual birth weight is 3343.352 ± 432.799 gram, mean birth weight by abdominal palpation is 3371.053 ± 345.561 gram, mean birth weight by Johnson's formula is 3041.206 ± 411 gram, by Insler's formula is 3556.316 ± 531.567 gram, and by ultrasonography is 3294.28 ± 380.09 gram. In the calculation of the difference between estimated methods and birth weight, by one sample test, abdominal palpation had the lowest ($p = 0.261$) and the Insler's formula ($p = 0.001$) had the highest difference with the actual birth weight. In categorizing the fetal weight, by Insler's formula (96.33%) was highly accurate in low birth weight (LBW), abdominal palpation (91.09%) in normal weight and macrosomia (94.72%). In fact, there is a significant difference between clinical methods and ultrasonography with ABW ($p = 0.026$). **Conclusion :** Clinical methods of estimation of fetal weight are effective way for the decision-making of midwifery profession during labor and delivery. These methods are an easy, affordable, and cost-effective method that can be used in developing countries especially in our country.

کلمات کلیدی:

Estimation, Fetal weight, Birth weight, Clinical methods, Ultrasonography

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