

Diagnostic Accuracy of Transvaginal Versus Transabdominal Ultrasonography for Diagnosing Adnexal Masses

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ABSTRACT

Objectives: Our study compares the diagnostic effectiveness of transvaginal and transabdominal ultrasonography for finding adnexal lesions.

Materials and methods: This comparative study was conducted at Tikrit teaching hospital. 130 women participated in this study. We take into account factors like aged, gender, menstrual irregularities (Oligomenorrhea/Menstrual Periods), infertility, repeated multiple miscarriages, series of actions, acne vulgaris, and obesity once written agreement has been acquired. The location, size, boundaries, hypoechoic, and dilatation of ovarian lesions were all included in the ultrasound data. Group I had transabdominal ultrasound with MRI, and group II included 65 patients and underwent transvaginal ultrasound. All patients were compared for the frequency of adnexal mass using the histology data (positive/negative). All data were examined with SPSS 24.0.

Results: Patients mean age in group I was 31.7 ± 15.48 years and had mean BMI 26.11 ± 5.37 kg/m² and in group II mean age was 29.6 ± 21.87 years with mean BMI 24.19 ± 15.58 kg/m². The most prevalent issue across all instances was infertility and cycle irregularity. With a p value < 0.004 , we determined that group II had a lower frequency of adnexal mass than group I. Transvaginal sonography was shown to have poorer specificity, positive predictive value, and negative predictive value than transabdominal sonography.

Conclusion: We concluded that the utilization and effectiveness of abdominal ultrasonography in conjunction with MRI was superior in terms of spotting adnexal masses with real levels of specificity and sensitivity.

Keywords: Accuracy, Adnexal Masses, Complications, Transvaginal ultrasonography, Transabdominal ultrasonography.

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