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INTRODUCTION

Abnormal uterine bleeding (AUB) is a common presentation of uterine abnormalities among perimenopausal women. One of the tools for investigation in patients with (AUB) is Vaginal Ultrasound. Saline Sono-Hysterography is more reliable for focal and generalized endometrial lesions. This study was performed to compare the ability of SIH as initial modality for the diagnosis of endometrial abnormalities in women with abnormal uterine bleeding.

PATIENTS AND METHODS

In a prospective study, a total of 35 perimenopausal women with abnormal uterine bleeding were enrolled in this study. A prior saline infusion sono-hysterography followed by a hysteroscopy was performed in all cases. The presence of focal endometrial lesions and the type of lesion (normal endometrium, thickened endometrium, endometrial hyperplasia, endometrial polyp, submucous myoma or malignancy) were noted. Predictive values were calculated by correlating the results with final diagnosis reached by hysteroscopy and endometrial biopsy.

RESULT:

The sensitivity, specificity, positive predictive value (PPV), negative predictive value (NPV) and accuracy for SIH was compared with hysteroscopy as a gold standard. The SIH and Hysteroscopy were 88% in agreement to each other. The diagnostic efficiency of SIH in three main endometrial abnormalities (endometrial hyperplasia, polyps and submucous fibroids) was specifically high. SIH showed a sensitivity of 70.8%, 78.0% and 90% for polyp, hyperplasia and submucous myoma respectively whereas the specificity was 90% for polyps, 78% for hyperplasia and 96% for submucous myoma.

CONCLUSION:

Saline infusion sono-hysterography is a simple, minimally invasive and cost-effective investigative tool enhancing the diagnostic accuracy of TVS and can be an effective screening test prior to hysteroscopy. It is a satisfactory method of identifying endometrial lesions which is less invasive alternative to hysteroscopy and result in less morbidity in the evaluation of AUB in women.