**Objectives:** diagnostic & staging of deep infiltration endometriosis (DIE) before operation is serious problem. Aim: to study preparation volume ultrasound in patients with suspected DIE.

**Methods:** A retrospective review of 57 patients with suspected deep infiltration endometriosis (DIE). The mean age of was 36 yrs. We used combination of volume transabdominal, transvaginal, transrectal, translabial sonography & sonovaginography, for mapping of DIE lesions, at 18-22 days LMP.

**Results:** of testing correlated with findings at laparoscopic surgery (LS), histological examination. The indications for LS were abnormal uterine bleeding in 27 patients, lower abdominal pain-28, infertility-18, dyspareunia-16, adnexal masses in 14.

**Results:** In uterosacral ligaments- sensitivity (47 cases), specificity, positive predictive value (PPV) and negative predictive value (NPV) were 88%, 92 %, 94. % and 80%, respectively. Vaginal fornix (12) specificity, PPV & NPV - 78%, 94 %, 90 % and 78%. Rectosigmoid (6) specificity, PPV & NPV were 87%, 95 %, 93 % and 81%. Urine bladder (8) specificity, PPV & NPV were 76%, 90 %, 80 % and 87%. Bowel- 1 case-positive.

**Conclusions:** combination of volume transabdominal, transvaginal, transrectal, translabial sonography & sonovaginography have great correlation with surgical findings in patients with suspected deep infiltration endometriosis.