

P259. The value of express laser spectroscopy in the diagnosis of the uterine abnormalities in perimenopausal women

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Objective. Abnormal bleeding or abnormal ultrasound findings – hyperplasia, polyps or carcinoma are not very rare in perimenopausal women. Hysteroscopy is an important and standart method for detection. The routine approach is curettage and morphological investigation. In most cases it needs time and even hospitalization.

The aim of the study was to evaluate and compare laser conversion fluorescent spectroscopy for diagnosing intrauterine pathology as express technique with traditional hysteroscopy and histology.

Design and methods. In the prospective study we included 90 patients who visited clinic of obstetrics and gynecology with the signs of intrauterine abnormalities showed by sonography and 30 patients with normal uterine features aged 48-68 from 2012 to 2017 years. 30 patients were examined in «blinded» version, -laser spectroscopy via traditional methods.

Two groups of patients underwent Laser fluorescent spectroscopy, hysteroscopy, biopsy and morphological investigation. Correlation between hysteroscopy, morphological findings and spectral data was statistically analysed.

Results. Specific spectral data for atrophia, hyperplasia, carcinoma and endometrial polyps were obtained. Correlation between results of laser spectroscopy and hysteroscopy and morphology appeared to be 97,3%.

Conclusion. The duration of the laser spectroscopy non- invasive procedure (less than 1 min.), high specific features of spectra for each abnormality appeared to be used as effective significant method of express detection of uterine abnormalities in menopausal women in outpatient clinic.

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