



## LASER CONVERSE EXPRESS - DIAGNOSTICS AND VOLUMETRIC PHOTODYNAMIC THERAPY OF ENDOMETRIAL HYPERPLASIA IN WOMEN WITH INFERTILITY IN ART PROGRAMS.

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**Objective.** To evaluate the possibility and efficacy of volumetric photodynamic therapy for hyperplasia in women with infertility and ART programs.

**Methods.** Clinical, laboratory, hysteroscopy, sonography, morphological test, immunohistochemical investigation.

**Intervention.** A new non-invasive technique for express diagnostics and non-surgical treatment has been developed - laser fluorescent spectroscopy, volumetric laser photodynamic therapy. Chlorine E-6 natural containing drug as photosensibilisator was used. Extra- and intra corporal activation of chlorine containing medicine by laser radiation has been worked out and performed.

**Patients.** 68 patients aged 36-45 (41,154+2,18 years) with determined simple and complex endometrial hyperplasia without and with atypia associated with chronic endometritis (CE) and hormonal disorders (HD) were included into a comprehensive clinical and laboratory study.

**Results.** 56 (82,35%) patients showed no evidence of any form of hyperplasia after initial course of treatment, 5(7,35%) underwent recurrent course, 7(10,29%) patients appeared to be unsuccessful.

**Conclusion.** The study results suggest the developed medical technique for treatment endometrial hyperplasia in women with chronic endometritis and hormonal disorders in ART programs being effective non-surgical treatment and research-based.

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