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### Sentinel lymph node mapping with indocyanine green injection in our practice

Taranov VV, Gavrilov MV, Lapina IA, Dobrokhotova YE and Koltinova TG  
Russian National Research Medical University, Russia

**Objective:** Sentinel lymph node (SLN) mapping with indocyanine green injection has recently been introduced into the surgical staging of endometrial cancer with the goal to reduce morbidity associated with comprehensive lymphadenectomy. The aim of this study was to measure the predictive value of sentinel-lymph-node mapping in small cohorts of patients.

**Methods:** In this prospective study we analyzed the results of surgery treatment of 8 patients with the first clinical stage of endometrial cancer (T1a Nx Mx). Morphological examination was a highly differentiated endometrial adenocarcinoma G1 in all cases. We carried out an injection of the indocyanine green into the cervix uteri, mapping of the SLN with a infrared video endoscopic device, selective lymphadenectomy of the SLN (with a note about the accumulation of contrast), total

laparoscopic hysterectomy and total pelvic lymphadenectomy (reference standard) all patients.

**Results:** In all 8 cases the SLN was intraoperative successfully mapped. In 5 cases we found Positive sentinel lymph nodes, in 3 cases - metastases were not detected. After the examination of all nodes removed after total lymphadenectomy in 5 women with positive SLN, metastases were also detected in other lymph nodes. In other group (3 patients with negative SLN) metastases were also not found.

**Conclusions:** This method application makes easier and more accurate to find regional nodes. The current data favors the use of cervical injection techniques with indocyanine green. Sentinel lymph mapping may be considered an alternative standard of care in the staging of women with endometrial cancer.

#### Biography

Taranov VV has graduated from Russian National Research Medical University named by N.I. Pirogov with honors in 2018, and successfully entered the residency of Obstetrician and Gynecology, clinical researches, finding new approaches of treatment. He and his co-worker together try to follow principles of fast-track and hype-surgery in order to diagnose diseases and treat patients according to international standards of medical care. Their approach is strictly personalized and we try to develop our knowledge and change our experience with physicians from other countries.

vlastaranov@mail.ru

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