

Uterine fibroid surgery – impact on reproduction

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Introduction: Pregnancy rate in patients with fibroid related infertility with uterine cavity deformation is 14%, and rate of miscarriages is 46.7%. At the age of 35 years the incidence of uterine fibroids increasing up to 52%, but only 20% of all fibroids became symptomatic.

Materials and methods: we study results of 721 myomectomies from 2010 till 2014. Observation period was 14-88 months. Average diameter of maximal size fibroid was 43,25mm. Average uterine size was 8,46 weeks. Subserosal location (type 7 FIGO) was detected in 295 cases (40,7%), submucosal location was identified in 7,76% cases, type 1 in 11,2%, type 2 in 15,1% of patients. Intramural location of fibroids (type 5-6 FIGO) was detected in 43,5% cases. In 51,8% cases fibroids were located on anterior uterine wall, in 55,3% cases on posterior wall, in 28,7% cases fibroids were located in uterine fundus.

Results: laparoscopic myomectomy was done in 502 patients (69,6%), laparotomic access was required in 13% cases. Hysteroscopic myomectomy was performed in 141 (19,9%) patients. In 26 (3,6%) cases combined access was required. Conversion was detected in 7 (0,97%) cases, 3 of them from laparoscopy to laparotomy. In 468 (64,9%) procedures fibroids removal was possible from one myotomic incision, from 2 incisions in 16,6% cases, from 3 incisions fibroids were removed in 8,6% cases. Surgical results show one major complication. It is uterine rupture at 36 week gestation in patient who underwent transcervical myomectomy and prior to hysteroscopy uterus perforation.

We collect data from 352 (48,8% of all cases) patients after myomectomy. Only 212 (60%) of patients wish to be concept. 74 (34,9%) spontaneously and 27 (12,7%) pregnancies by IVF were detected. 99 childbirth (46,7%) and 35 (16,5%) first trimester miscarriages were observed.

Conclusion: myomectomy in symptomatic myoma is a safety procedure with low rate of complications. Rate of conception in patients with infertility after myomectomy is 47,6%

Keywords : myomectomy, laparoscopy, conception

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