

ADVANTAGES OF BILATERAL OCCLUSION OF UTERINE ARTERIES DURING LAPAROSCOPIC MYOMECTOMY

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Introduction Uterine myomas are the most common benign tumors of the female genital tract. Surgical myomectomy is currently regarded as the standard conservative treatment for patients who wish to preserve their fertility. When compared to laparotomy, the laparoscopic approach is associated with less postoperative pain, lower rate of postoperative fever and shorter hospital stay. However, the most frequent complications is the severe intraoperative bleeding and the high risk of recurrence. Bilateral occlusion of uterine arteries during myomectomy as been described as a valid technique to reduce intra and postoperative risk of bleeding and the risk of recurrence of myomas.

In our observational study we evaluated the effect of laparoscopic myomectomy with uterine artery occlusion in decreasing operative morbidities such as intra operative bleeding, perioperative complication, operation time and postoperative pain.

Materials/Patients and methods An observational study on women undergone laparoscopic myomectomy with uterine artery occlusion between January 2015 and June 2016, in the Department of Women's and Children's Health, Center of Mini-Invasive Pelvic Surgery in Padua University was performed. Number and diameter of removed myomas, operative time, blood loss, pre- and postoperative hemoglobin levels, post operative pain 24 hours after surgery (VAS score), and peri operative complications were recorded.

Results – The study included 38 women. The mean number of removed myomas was 2.26 ± 2.3 , with a mean diameter of 8.3 ± 3.1 cm. The average operating time was 97.2 ± 27.2 minutes . Mean weight of removed myomas was 279.1 ± 202.3 gr. The intraoperative blood loss was 146.6 ± 73.6 mL, with a hemoglobin drop of 10.1 ± 9.3 g/L. None laparoscopy was converted in laparotomy and no complication were recorded. Mean postoperative pain, 24 hours after surgery, was 2.8 ± 1.7 . Mean hospital stay was 2.4 ± 0.7 days.

Conclusion Uterine artery occlusion during laparoscopic myomectomy is a safe surgical technique with low risk of complications, low intraoperative blood loss, reduced risk of blood transfusion and low post operative pain with a reduced needed of analgesic therapy.

Keywords : Uterine artery occlusion, laparoscopic myomectomy, blood loss, post-operative pain

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