



**Title:**

**Umbilical complications that require surgical intervention after gynecologic laparoscopic surgery**

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**Abstract:**

**Background:** In laparoscopic surgery, the trocar is often inserted through the umbilicus. However, complications requiring plastic surgical intervention may occur at the umbilicus following laparoscopic surgery.

**Methods:** We reviewed 20 patients who underwent plastic surgery for umbilical issues following gynecologic laparoscopic surgery in our department from January 2015 to December 2023.

**Results:** Most complications requiring umbilical surgery post gynecologic laparoscopic surgery include local infections, scar contractures, ectopic endometriosis, umbilical necrosis, and abdominal wall scar hernias. Tumor resection, hernia repair, and umbilical formation surgeries were performed under general or local anesthesia. During the 6-month follow-up period after surgery, there were no incidences of tumor development, infection recurrence, or hernia reappearance. In cases of tumors, hypertrophic scars observed preoperatively healed following complete excision and proper suturing. Pathologically, 90% of cases with keloid-like collagen disorders were accompanied by inflammatory conditions such as epidermal cysts and abscesses.

Conclusions: The majority of umbilical complications associated with laparoscopic surgery are presumed to be due to the implantation of epithelial and tumor components during surgery and delayed postoperative inflammation. Therefore, it is necessary to promote awareness among surgeons about gentle handling and general measures for preventing local infections and postoperative management to prevent umbilical complications from laparoscopic surgery.

**Biography:**

I serve as the Chief of the Department of Plastic Surgery and Director of the Breast Reconstruction Center at the National Hospital Organization Tokyo Medical Center. My specialties include post-malignant tumor resection reconstruction and ptosis surgery, in collaboration with other departments. I am dedicated to educating young physicians and nurses. Additionally, I lead research on wound healing as the Director of the Regenerative Medicine Research Laboratory. As a certified forest medicine specialist, I advocate for the health benefits of forests.