

# SALPINGECTOMY

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## SALPINGECTOMY

**Primary Disciplinary Field(s):** Gynecology, Reproductive Medicine, Oncology

### 1. Core Definition and Nomenclature

The term **Salpingectomy** refers to the surgical excision and complete removal of one or both **fallopian tubes** (oviducts). This procedure is a fundamental component of gynecological surgery, typically necessitated by underlying pathology, such as severe infection, tumor development, or as a definitive method of permanent contraception. When the procedure involves the removal of only one tube, it is termed a unilateral salpingectomy; the removal of both tubes is known as a bilateral salpingectomy. Salpingectomy is often inaccurately used interchangeably with, yet distinctly differs from, tubal ligation, which is a procedure that merely blocks, cuts, or seals the fallopian tubes while leaving the majority of the tube intact, thereby sterilizing the patient without full excision. The comprehensive removal inherent in salpingectomy ensures that the entire affected organ is eliminated, a critical factor when dealing with malignant or high-risk pre-malignant conditions.

The surgical terminology related to this procedure is precise and descriptive. Removal of the tube alone is the salpingectomy; however, it is frequently combined with other procedures. For instance, the concurrent removal of the ovary and the fallopian tube is termed a **salpingo-oophorectomy**. Furthermore, the procedure is sometimes referenced historically or colloquially as a **tubectomy**, although salpingectomy remains the standard medical nomenclature. The distinction between salpingectomy and sterilization methods like tubal ligation is crucial, particularly in the context of counseling patients regarding the permanence of fertility loss and potential ancillary health benefits, such as ovarian cancer risk reduction, which are strongly associated with complete tubal removal.

Given its profound impact on reproductive capacity, salpingectomy is categorized as a major surgical intervention. The decision to perform this procedure is always weighed against the patient's desire for future fertility, the severity of the indication, and the potential risks of leaving the diseased or damaged tube in place. Modern surgical approaches overwhelmingly favor minimally invasive techniques, such as laparoscopic surgery, which have significantly reduced recovery times, morbidity, and hospital stays compared to traditional open abdominal surgery (laparotomy).

### 2. Etymology and Historical Development

The term **Salpingectomy** is derived from the Greek language, combining the root words "salpinx," meaning trumpet or tube (referring to the fallopian tube), and "ectomy," meaning the cutting out or surgical removal of an organ. This etymological foundation accurately reflects the nature of the procedure as the excision of the oviduct. The historical development of surgical intervention on the

fallopian tubes is closely linked to advances in abdominal surgery during the late nineteenth century. Early operations were often necessitated by life-threatening conditions such as ruptured ectopic pregnancies or overwhelming pelvic inflammatory disease (PID), which required emergency laparotomy due to the high mortality associated with untreated intra-abdominal hemorrhage or sepsis.

Before the advent of antibiotics and modern sterile techniques, pelvic infections often led to chronic pain, abscess formation, and irreversible damage to the reproductive organs, necessitating aggressive surgical management, including salpingectomy or salpingo-oophorectomy, to save the patient's life. Pioneering gynecologists recognized the importance of isolating and removing the source of infection or bleeding. However, these early procedures carried high risks of morbidity and mortality due to poor visualization, extensive blood loss, and postoperative infection. The rise of aseptic techniques championed by figures such as Lister fundamentally improved the safety profile of these abdominal surgeries.

The twentieth century saw a paradigm shift with the refinement of surgical instruments and the introduction of advanced imaging techniques. The transition from mandatory open surgery (laparotomy) to minimally invasive surgery (MIS), particularly laparoscopy, starting in the latter half of the century, revolutionized salpingectomy. Laparoscopy allowed surgeons to perform the procedure through small incisions, offering superior magnification and reduced trauma to surrounding tissues. This development not only increased the safety and efficacy of salpingectomy but also broadened its application, making it a viable option for elective procedures such as sterilization and, more recently, for prophylactic cancer risk reduction.

### 3. Indications for Surgical Intervention

Salpingectomy is performed for several critical medical and elective reasons, ranging from acute, life-threatening emergencies to preventive measures. One of the most common and urgent indications is the management of a **tubal ectopic pregnancy**, where a fertilized egg implants outside the uterus, typically within the fallopian tube. If the tube ruptures, immediate salpingectomy is necessary to control severe internal bleeding and prevent hemorrhagic shock, often being the definitive treatment when medical management fails or is deemed unsuitable.

Chronic or acute infectious processes, particularly severe cases of **Pelvic Inflammatory Disease (PID)** that lead to the formation of a pus-filled, distended tube known as a **hydrosalpinx** or **pyosalpinx**, frequently necessitate salpingectomy. A hydrosalpinx is not only a source of chronic pain and inflammation but also significantly impairs fertility. Removal of a hydrosalpinx is sometimes required prior to undergoing In Vitro Fertilization (IVF), as the toxic fluid within the damaged tube can reflux into the uterus, compromising embryo implantation and success rates.

Furthermore, salpingectomy is utilized in the management of gynecological malignancy. Although

traditionally the ovaries were considered the primary site of origin for epithelial ovarian cancer, extensive research has established that many high-grade serous cancers actually originate in the fimbriated (distal) end of the fallopian tube, specifically in precursor lesions known as serous tubal intraepithelial carcinoma (STIC). Consequently, removal of the fallopian tubes is standard practice in surgical staging and treatment for uterine or ovarian cancers. Finally, elective sterilization is a significant indication, where bilateral salpingectomy is performed specifically for **permanent birth control**, offering a method highly cited for its reliability, often superior to traditional tubal ligation methods, as the complete removal eliminates the risk of tubal recanalization.

## 4. Procedures and Techniques

**Laparoscopic Salpingectomy:** This is the gold standard approach today for most elective and non-emergent salpingectomies. Utilizing small abdominal incisions (typically 5 mm to 12 mm), a camera (laparoscope) and specialized instruments are inserted. The surgeon visualizes the pelvic structures on a monitor, dissects the tube from its surrounding attachments (the mesosalpinx), secures the blood vessels, usually using advanced energy devices (such as bipolar electrosurgery or harmonic scalpels) or ligating loops, and removes the tube through one of the ports. Advantages include minimal scarring, reduced postoperative pain, and rapid recovery.

**Laparotomy (Open) Salpingectomy:** Reserved primarily for emergent cases requiring immediate, wide access (e.g., massive hemorrhage from a ruptured ectopic pregnancy), or when the anatomy is severely distorted by extensive adhesions, endometriosis, or large masses, making laparoscopic access unsafe. This involves a larger abdominal incision, allowing direct visualization and manual access to the pelvic organs. While more invasive, it is sometimes necessary to ensure rapid control of bleeding or complex dissection.

**Robotic-Assisted Salpingectomy:** A variation of the laparoscopic technique that uses a robotic platform to provide enhanced 3D visualization, greater dexterity, and tremor filtration for the surgeon. This approach is often utilized in complex cases or as part of a larger procedure, such as a hysterectomy or cancer staging.

The choice of technique profoundly influences recovery. Laparoscopic salpingectomy typically allows the patient to be discharged within 24 hours, with a recovery period measured in days or a few weeks. Conversely, laparotomy necessitates a longer hospital stay and a recovery period that can span four to six weeks. Regardless of the method, meticulous surgical technique is essential to avoid injury to adjacent structures, such as the ureters or major pelvic blood vessels.

## 5. Role in Cancer Risk Reduction

One of the most significant modern applications of salpingectomy is its role in the **prevention of ovarian cancer**, particularly high-grade serous carcinoma (HGSC). Mounting pathological evidence suggests that a majority of HGSC--the most common and lethal form of epithelial ovarian

cancer--originates in the distal end of the fallopian tube fimbriae, not the ovarian cortex itself. This groundbreaking discovery has led to the widespread adoption of **opportunistic salpingectomy**.

Opportunistic salpingectomy involves performing a bilateral salpingectomy on patients undergoing pelvic surgery for benign indications, such as hysterectomy, or when seeking permanent sterilization. Since the ovaries are preserved, the patient avoids premature menopause, while simultaneously achieving a substantial reduction in the lifetime risk of developing ovarian cancer. Major gynecological organizations, including the Society of Gynecologic Oncology (SGO) and the American College of Obstetricians and Gynecologists (ACOG), now endorse offering opportunistic salpingectomy as the preferred method of sterilization or during concomitant hysterectomy, provided the patient is fully counseled regarding the permanence of the procedure.

This preventive strategy represents a major shift in public health efforts aimed at combating ovarian cancer, a disease notoriously difficult to detect early due to vague symptoms. By removing the primary anatomical site of origin for the most aggressive subtype of the disease, surgeons are offering a highly effective preventative measure without the morbidity associated with removing the ovaries (oophorectomy) in pre-menopausal women. Studies have shown this approach to be both safe and cost-effective, integrating seamlessly into existing surgical pathways.

## 6. Reproductive and Psychological Implications

Bilateral salpingectomy results in **permanent and irreversible infertility**, as the physical connection between the ovaries and the uterus is severed, preventing natural fertilization and transport of the embryo. For individuals who have completed their families, this permanence is a desired outcome, positioning the procedure as one of the most reliable forms of birth control, assuming proper execution. The source content explicitly notes that salpingectomy "is one of the most reliable forms of birth control, when completed properly."

However, the permanent loss of natural fertility requires thorough preoperative counseling. Patients must understand that subsequent pregnancy can only be achieved through assisted reproductive technologies, specifically IVF, which bypasses the fallopian tubes entirely. Critically, unilateral salpingectomy--the removal of only one tube--does not eliminate fertility, provided the remaining tube and corresponding ovary are healthy and functional. In such cases, the woman's fertility is reduced but not eliminated, as ovulation can occur from either ovary, and the remaining tube can capture the egg.

Psychologically, patients undergoing salpingectomy, especially for elective sterilization or cancer prevention, generally report high levels of satisfaction, particularly when the procedure is performed concurrently with a hysterectomy or other necessary surgery. However, for younger patients or those dealing with complex pathology like endometriosis, the emotional impact of losing a reproductive organ, even a damaged one, must be addressed. Comprehensive psychological

support and counseling regarding body image and the finality of the decision are essential components of informed consent, ensuring the procedure aligns with the patient's long-term goals and values.

## 7. Debates and Ethical Considerations

The primary ethical consideration surrounding salpingectomy revolves around **informed consent**, particularly when the procedure is elected for sterilization or opportunistic cancer prevention. Given the irreversible nature of bilateral salpingectomy, patients must be fully aware that their ability to conceive naturally is permanently terminated. Thorough documentation is required to ensure that coercion is absent and that alternative, reversible contraceptive methods were discussed prior to the irreversible choice.

A significant debate exists regarding the appropriateness of offering salpingectomy for sterilization to women of all ages, especially those who may be undecided about future family plans. While professional guidelines support a woman's autonomy in choosing permanent birth control, surgeons must adhere to specific institutional or regional protocols--often involving mandatory waiting periods or age restrictions--to minimize the likelihood of future regret. This is particularly relevant when comparing bilateral salpingectomy to tubal ligation, where some forms of tubal ligation theoretically offer a difficult, though possible, route to reversal via microsurgery, a path entirely closed off by complete salpingectomy.

Furthermore, in the context of opportunistic salpingectomy for cancer prevention, there is ongoing discussion about the long-term impact on ovarian function. Although the fallopian tubes are not hormone-producing organs, vascular connections shared between the tubes and the ovaries exist. While current evidence generally suggests that bilateral salpingectomy does not significantly compromise ovarian blood supply or hasten menopause, continued surveillance and research are necessary to definitively quantify any subtle, long-term endocrinological effects, ensuring that the substantial cancer prevention benefit is not offset by unintended risks to endocrine health.

### Further Reading

[Salpingectomy \(Wikipedia\)](#)

[ACOG Committee Opinion: Opportunistic Salpingectomy for Ovarian Cancer Prevention](#)

[SGO Guidance: Risk-Reducing Salpingectomy](#)