

# C-SECTION

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## C-SECTION (Cesarean Section)

**Primary Disciplinary Field(s):** Medicine (Obstetrics), Public Health, Maternal Psychology

### 1. Core Definition

The **Cesarean Section**, commonly abbreviated as C-section, is a major surgical procedure used to deliver a baby through incisions made in the mother's abdomen and uterus. This procedure is performed when a vaginal delivery would pose a risk to the health of the mother, the fetus, or both, or when labor fails to progress safely. It is considered a life-saving intervention and has dramatically reduced maternal and infant mortality rates associated with complicated deliveries since its refinement in the modern era.

A C-section involves a sequence of detailed surgical steps. First, an incision, usually a low horizontal cut known as a Pfannenstiel incision (or 'bikini cut'), is made across the lower abdomen. Subsequent incisions are carefully made through layers of tissue until the abdominal cavity is accessed. The final, critical incision is the hysterotomy, a cut made into the wall of the uterus, through which the infant is safely delivered, followed by the placenta and surrounding membranes. The procedure concludes with the precise suturing and closing of the uterus and the abdominal layers.

C-sections are broadly categorized based on urgency. An **elective C-section** is planned in advance, typically due to known medical conditions (e.g., certain maternal diseases, specific fetal malpresentations, or maternal request). In contrast, an **emergency C-section** is necessitated by unexpected complications that arise during labor, such as sudden fetal distress, maternal hemorrhage, or acute failure of labor to progress, requiring rapid surgical intervention to prevent adverse outcomes.

### 2. Etymology and Historical Development

The term "Cesarean Section" is shrouded in historical legend, often incorrectly linked to the birth of Julius Caesar. While historical Roman law, known as the *Lex Regia* or *Lex Caesarea* (Law of the King), mandated the procedure for pregnant women who died before delivery in an attempt to save the child, there is no credible evidence suggesting that Julius Caesar himself was delivered this way, as his mother, Aurelia, survived childbirth.

For centuries, the procedure was exceedingly rare and almost universally fatal for the mother due to massive hemorrhage and subsequent infection. Prior to the 19th century, survival rates for the mother following a live C-section were negligible, leading to its designation as a last resort procedure primarily performed when the mother was deceased or clearly moribund. The primary goal was the delivery of the living child, not the survival of the mother.

The transformation of the C-section from a desperate measure into a safe, viable surgical option occurred in the late 19th century. Crucial breakthroughs included the introduction of effective antiseptic practices, championed by figures like Joseph Lister, which drastically reduced post-operative sepsis. Equally significant was the refinement of uterine suturing techniques, notably by Max Sanger in Germany, who advocated for meticulous suturing of the uterine wall to prevent fatal bleeding and infection, thereby making maternal survival the expected outcome of the operation.

### 3. Key Characteristics and Indications

The decision to proceed with a C-section is based on clear medical indications classified across maternal, fetal, and placental domains. Among the most frequent indications for an emergency C-section is **dystocia**, or failure to progress, meaning that the cervix is not dilating or the fetus is not descending despite adequate uterine contractions. Fetal indications often revolve around threats to the baby's oxygen supply, known as **fetal distress**, often identified via abnormal heart rate monitoring during labor.

A variety of established indications require a planned, elective C-section. These often relate to structural or physiological barriers to safe vaginal birth. Key indications include:

**Fetal Malpresentation:** Such as a transverse lie or certain breech presentations where external cephalic version (turning the baby) is unsuccessful or contraindicated.

**Placenta Previa:** A condition where the placenta covers the cervix, making vaginal delivery impossible without causing catastrophic hemorrhage.

**Previous Uterine Surgery:** Most commonly, a prior C-section. While a trial of labor after cesarean (TOLAC) resulting in a vaginal birth after cesarean (VBAC) is often possible, certain uterine incision types or multiple previous C-sections necessitate repetition of the surgery due to increased risk of uterine rupture.

**Maternal Health Conditions:** Conditions like severe, uncontrolled pre-eclampsia, active genital herpes lesions, or certain cardiac conditions that prohibit the physical strain of pushing.

While historically strictly medically mandated, modern practice must also account for Cesarean delivery on maternal request (CDMR). This involves a non-medically indicated surgery requested by the mother, often driven by a desire for certainty, scheduling convenience, or the wish to avoid the perceived or actual risks associated with vaginal delivery. The increasing prevalence of CDMR contributes significantly to the rising overall rates of C-sections in high-income countries, prompting ongoing ethical and clinical debate.

### 4. Psychological and Emotional Impact

The psychological impact of undergoing a C-section is complex and highly variable, reflecting whether the procedure was anticipated, chosen, or forced upon the mother during a labor crisis.

For some mothers, electing or agreeing to a C-section provides a profound sense of relief, particularly when avoiding a painful or potentially dangerous prolonged labor, granting a perception of control over the birth outcome.

However, the experience of an unplanned or emergency C-section often carries significant emotional weight, aligning with the observation that some mothers feel they are being **robbed of their laboring experience**. This sentiment stems from the sudden loss of control, the medical urgency, and the violation of expectations regarding natural childbirth. Psychological outcomes can include feelings of failure, guilt, inadequacy, disappointment, and in severe cases, symptoms associated with post-traumatic stress disorder (PTSD) related to birth trauma.

Furthermore, the physical recovery from a C-section is considerably more extensive and painful than a typical vaginal delivery, which can delay or complicate the early mother-infant bonding process. While modern obstetrical units prioritize immediate post-operative procedures like skin-to-skin contact, pain management and the restrictions imposed by major abdominal surgery can inhibit the mother's ability to move, care for the infant, or initiate breastfeeding, sometimes necessitating greater reliance on partners or hospital staff, which can contribute to transient feelings of helplessness or inadequacy.

## 5. Trends and Public Health Significance

Globally, the rate of C-sections has escalated dramatically since the mid-20th century, becoming one of the most common major surgeries performed worldwide. While the World Health Organization (WHO) historically suggested an ideal population C-section rate of 10% to 15% to ensure access for all women needing life-saving intervention, contemporary rates in many developed nations routinely exceed 30%, and in some regions, surpass 50%.

This rise presents a significant public health challenge. On one hand, increased access to C-sections saves lives where medical complications exist; on the other, overuse in low-risk populations subjects women to unnecessary surgical risks. These risks include increased rates of infection, hemorrhage, potential injury to surrounding organs, and complications arising from anesthesia. Furthermore, high C-section rates place substantial strain on healthcare resources, particularly in areas with limited surgical capacity.

Perhaps the most critical public health concern associated with escalating C-section rates is the risk posed to subsequent pregnancies. Each C-section increases the risk of serious placental disorders, such as **Placenta Accreta Spectrum (PAS)** disorders, in future gestations. PAS disorders involve abnormal adherence of the placenta to the uterine wall, leading to severe hemorrhage and often requiring hysterectomy at the time of delivery, representing a major cause of maternal morbidity and mortality.

## 6. Debates and Criticisms

The high rate of C-sections fuels ongoing debate regarding the medicalization of birth. Critics argue that the procedure is often performed due to institutional convenience (allowing predictable scheduling), defensive medicine (avoiding potential malpractice suits related to difficult vaginal births), and insufficient training in complicated vaginal delivery techniques (like operative vaginal delivery using forceps or vacuum). This shift is sometimes viewed as eroding the natural, physiological process of childbirth.

The specific debate surrounding Cesarean Delivery on Maternal Request (CDMR) is ethically contentious. Proponents emphasize the principle of maternal autonomy, arguing that a fully informed woman should have the right to choose her mode of delivery, even without a clear medical indication. Conversely, critics highlight the ethical dilemma of exposing a healthy mother and fetus to the risks of major surgery when a safer alternative (vaginal birth) is available, especially given the long-term cumulative risks inherent in abdominal surgery and subsequent pregnancies.

Finally, there are increasing research efforts focused on the infant health implications of C-sections. Studies suggest that infants delivered via C-section, particularly those without labor onset, may have altered gut microbiota compared to vaginally born infants. This difference in early microbial colonization has been theoretically linked to increased risks of certain immune-related disorders, such as asthma and allergies, though the clinical significance of these findings remains a subject of intensive study and debate.

### Further Reading

[Cesarean section \(Wikipedia\)](#)

[History of Cesarean Section \(NCBI\)](#)

[Placenta Accreta Spectrum Disorders \(ACOG\)](#)

[Fetal Distress \(Wikipedia\)](#)