

# Breech Birth

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## Breech Birth

**Primary Disciplinary Field(s):** Obstetrics, Perinatology, Reproductive Health

### 1. Core Definition

Breech birth defines a significant fetal malpresentation wherein the fetus is positioned within the uterus such that the buttocks or the feet are oriented downward, ready to enter the birth canal first, rather than the optimal head-first (cephalic) presentation. This anatomical variation means the lower extremities or the sacral region of the fetus will be the presenting part during labor and delivery. Because the head, the largest and least compressible part of the fetus, delivers last, breech presentation introduces specific mechanical challenges and significantly increases the risks associated with vaginal birth.

While the vast majority of fetuses spontaneously rotate into a cephalic presentation by the time of birth, breech presentation persists in approximately 3% to 4% of full-term singleton pregnancies; this rate is markedly higher in premature births. Identifying a breech presentation through prenatal screening, typically via ultrasound examination, is a critical component of antenatal care. This diagnosis initiates a series of strategic decisions regarding labor management and delivery method, often necessitating intervention to safeguard the well-being of both the infant and the mother. Modern obstetrics has shifted the management paradigm for breech presentation from predominantly routine vaginal delivery to a much more cautious, often surgical, approach.

### 2. Etymology and Historical Development

The term "breech" is derived from an Old English word originally referring to the buttocks or the lower posterior part of the human body, specifically the area covered by breeches or trousers. In its obstetric context, the term accurately describes the presenting fetal anatomy. Historically, before the advent of modern surgical techniques, breech presentation represented one of the most dangerous complications of labor, frequently resulting in high rates of maternal and infant mortality and morbidity due to the difficulty of extraction and the risks of fetal distress.

Medical understanding of breech delivery spans millennia. Texts from ancient practitioners, notably the Greek physician Hippocrates and the Roman obstetrician Soranus of Ephesus, detailed the difficulties inherent in these deliveries and outlined early, often drastic, maneuvers designed to assist the birth or, failing that, to save the mother's life. Throughout the Medieval and early Modern periods, vaginal breech delivery remained the only viable option, relying heavily on the skill of midwives and physicians who developed specialized techniques to facilitate the passage of the arms and head.

The 18th and 19th centuries formalized obstetric practice, leading to a clearer mechanical

understanding of how the fetus navigates the pelvis in a breech position. However, it was the 20th century that truly revolutionized management. The development and widespread adoption of the Caesarean section (C-section) as a relatively safe surgical procedure provided the first reliable alternative to high-risk vaginal delivery for breech babies, drastically improving outcomes for infants and fundamentally reshaping global obstetric guidelines concerning this malpresentation.

### 3. Classification and Key Characteristics

Breech presentations are categorized into three primary types based on the positioning of the baby's hips and legs. This classification is vital for risk assessment and dictates the appropriateness of attempting a vaginal delivery, as each type carries a distinct set of potential complications, such as the risk of cord prolapse or the effectiveness of cervical dilation.

**Frank Breech (Extended Breech):** This is the most prevalent type, typically seen in 65% to 70% of breech cases. In a frank breech, the baby's buttocks are positioned downward for delivery, but both legs are extended straight up towards the head, with the feet often positioned near the face. The hips are flexed, but the knees are extended. This position generally presents the firmest, largest presenting part (the buttocks) which can effectively dilate the cervix. However, the extended legs can sometimes impede the delivery process.

**Complete Breech (Flexed Breech):** Characterized by the baby appearing to be in a squatting or "cannonball" position, the complete breech involves the flexion of both the hips and the knees, resulting in the feet being positioned near the buttocks. This presentation is less common than the frank breech. While the overall size of the presenting part is adequate, the simultaneous presence of the feet and buttocks near the opening can sometimes complicate the mechanical stages of labor, particularly if the cervix is not fully dilated when the feet begin to emerge.

**Footling Breech:** Considered the highest-risk category for vaginal delivery, the footling breech occurs when one or both of the baby's feet are positioned to deliver first. If only one foot is presenting, it is a single footling breech; if both are presenting, it is a double footling breech. The primary danger associated with this presentation is the severe risk of umbilical cord prolapse, which can occur when the small presenting part fails to block the exit, allowing the cord to slip down and become compressed. Furthermore, the small foot may not adequately stimulate full cervical dilation, leading to the life-threatening risk of head entrapment.

Various underlying maternal and fetal factors predispose a fetus to a breech presentation. These include **prematurity** (where the fetus has not yet completed the cephalic rotation), structural uterine abnormalities (like a septate or bicornuate uterus), **multiple gestations** (twins or triplets), abnormal volumes of amniotic fluid (either **polyhydramnios**, excessive fluid, or **oligohydramnios**, insufficient fluid), placenta previa (where the placenta partially or completely covers the cervix), and certain congenital fetal anomalies.

## 4. Significance and Impact on Delivery

The diagnosis of breech presentation fundamentally alters the risk assessment for delivery planning, significantly increasing the risk profile compared to a standard cephalic presentation. While skilled practitioners historically managed vaginal breech births, the outcomes were statistically inferior to cephalic births, often involving high risks of fetal injury, asphyxia, and eventual mortality. The modern shift in obstetric practice reflects a cautious prioritization of infant safety through surgical intervention.

The most profound impact of a confirmed breech presentation is the dramatically increased likelihood of a planned **Caesarean section (C-section)**. This practice gained substantial traction and became the global standard of care following the publication of the Term Breech Trial in 2000. This landmark study indicated that planned C-section for term breech infants was associated with significantly lower rates of perinatal mortality and serious neonatal morbidity when compared to planned vaginal delivery. Although the trial's methodology and applicability have been subject to subsequent academic scrutiny, its influence remains pervasive, leading most obstetric societies to recommend planned surgical delivery for the majority of term breech cases.

The specific dangers inherent in vaginal breech delivery stem from the sequence of delivery, where the largest part--the head--is the last to exit. Primary risks include **head entrapment**, where the fully delivered body is followed by a head that cannot pass through a partially dilated or spasming cervix; **umbilical cord prolapse**, especially dangerous in footling presentations; severe birth trauma (including fractures, nerve damage, or intracranial hemorrhage); and fetal hypoxia (oxygen deprivation) due to cord compression or prolonged delivery of the head. Consequently, determining the safest mode of delivery requires a meticulous evaluation of factors such as the exact type of breech, the estimated fetal weight, the mother's pelvic capacity, and the immediate availability of an experienced obstetric team capable of performing an emergency C-section if necessary.

## 5. Management Strategies and Ongoing Debates

The optimal management for breech presentation remains a subject of continued professional debate within the obstetric community. While C-sections minimize immediate risks to the infant, concerns persist regarding the increased maternal morbidity associated with major abdominal surgery, including risks of infection, hemorrhage, longer recovery times, and complications in future pregnancies (such as a higher incidence of placenta previa or accreta). This tension drives efforts to identify safe alternatives to routine surgical delivery.

A central strategy employed before the onset of labor is the **External Cephalic Version (ECV)**. This procedure involves a trained obstetrician using manual manipulation and pressure on the mother's abdomen to attempt to physically turn the fetus from a breech to a cephalic presentation. ECV is typically performed around 36 to 37 weeks gestation, offering a success rate ranging from

40% to 60%. If successful, ECV allows the mother to proceed with a standard, lower-risk vaginal delivery. However, ECV is contraindicated in cases involving placental abnormalities, fetal distress, or specific uterine complications.

If ECV fails or is contraindicated, the definitive choice between a planned C-section and a planned vaginal breech delivery must be made on a highly individualized basis, contingent on stringent criteria. Conditions that might permit a planned vaginal delivery include the presence of a frank or complete breech (not footling), a favorable estimated fetal weight (neither excessively large nor small), adequate maternal pelvic dimensions confirmed by imaging, the absence of other obstetric complications, and, critically, the immediate access to an operating theater and a highly experienced healthcare provider trained in complex breech maneuvers. Despite these exceptions, global guidelines, such as those issued by the American College of Obstetricians and Gynecologists (ACOG), largely favor a planned C-section for most term breech presentations due to the established evidence of superior neonatal outcomes, while simultaneously acknowledging the highly selective and controlled role of vaginal delivery in specific clinical circumstances.

## Further Reading

American College of Obstetricians and Gynecologists (ACOG). (2020). Practice Bulletin No. 222: Breech Presentation.

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