

## Placental Implantation Abnormalities

Placental implantation abnormalities can be described by the terms accreta, increta and percreta, which correlate to the depth of penetration into the placental myometrium. These abnormalities begin with a defective decidual layer in the placenta, leading to possible life threatening hemorrhage in the mother postpartum.



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### Mechanism

#### Placenta Adheres Directly to Myometrium

[Placenta-present sticks to Muscle-layer of uterus](#)

Due to a defective decidual layer in the placenta, there is abnormal attachment and separation of the placenta to the myometrium.

#### Placenta Accreta

[Placenta-present on A-crater](#)

Placenta accreta is a term used to describe the placenta attaching to the myometrium without penetrating it. This is the most common form of placental implantation abnormality.

#### Placenta Increta

[Placenta-present In-crater](#)

Placenta increta is a term describing when the placenta penetrates *into* the myometrium, without passing through it.

#### Placenta Percreta

[Placenta-present Pick-through-crater](#)

Placenta percreta is a term used to describe placental attachment that *perforates* through the myometrium and into the uterine serosa. Serious complications of this can lead to the placenta invading the bladder wall or the rectum.

#### Caused by Scar Tissue

[Caused by Scarface](#)

These implantation abnormalities arise because of a defective or absent decidua, which is the epithelial lining in the endometrium. Scar tissue from a previous C-section or uterine procedure can lead to this absence of the decidua.

#### Hemorrhage

[Hemorrhage-hammer](#)

Due to abnormally deep penetration into the uterus (myometrium), there is massive post-partum hemorrhage which can be life-threatening to the mother.

### Diagnosis

## Ultrasound is First-line, then MRI

[First-place Ultrasound soundwaves and M-R-eyes](#)

Ultrasound is usually how abnormal placental implantation is first diagnosed. Once this is discovered, MRI is used to describe the depth of invasion.

## Treatment

### C-section Delivery

[C-section](#)

If a placental implantation disorder is discovered, patients are typically scheduled for C-section. This is done to circumvent post-partum hemorrhage which occurs through vaginal birth.

### Artery Ligation or Embolization

[Artery-artery Line-gate and Elmo-embolizing](#)

Another treatment option is to ligate or embolize uterine arteries supplying hemorrhage from abnormal placental implantation. It is common to control bleed via embolizing or ligating a uterine artery.