

NCLEX 2026

CLINICAL JUDGMENT

OB EMERGENCY

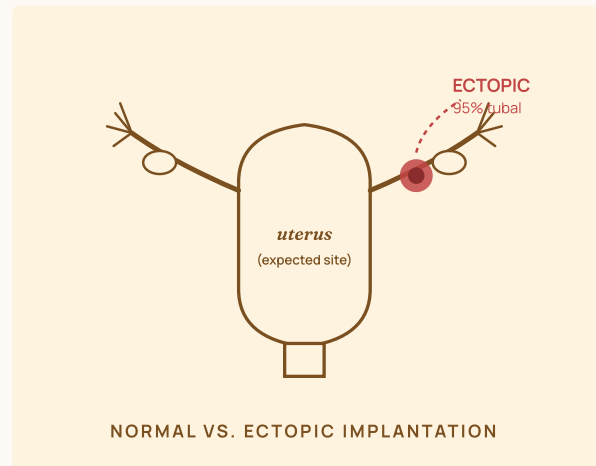
REPRODUCTIVE / OB

Ectopic Pregnancy.

A life-threatening implantation of a fertilized ovum **outside** the uterine cavity — most often in the fallopian tube. Early recognition prevents rupture, hemorrhage, and maternal death.

01 DEFINITION · OVERVIEW What It Is & Why It Matters

- ▲ **Ectopic = "out of place"** — fertilized egg implants outside the uterine cavity.
- ▲ **95% occur in the fallopian tube** (ampulla most common). Other sites: ovary, cervix, abdomen, C-section scar.
- ▲ **Pregnancy is NOT viable.** Untreated → tubal rupture → hemorrhagic shock → maternal death. #1 cause of maternal death in the 1st trimester.



02 PATHOPHYSIOLOGY · SIMPLIFIED

How the Damage Happens



1

Fertilization

Sperm meets egg in the fallopian tube — normal start.



2

Blocked Transit

Scarred/damaged tube prevents zygote from reaching the uterus.



3

Tubal Implantation

Zygote embeds in the tube wall — cannot support pregnancy.



4

Tube Stretches

Embryo grows; fallopian tube cannot expand like uterus.



5

Rupture

Tube tears → massive **internal hemorrhage** into pelvis.



6

Hypovolemic Shock

Blood loss → ↓BP, ↑HR, ↓LOC → maternal death if untreated.

⚠ RISK FACTORS — "ANYTHING THAT DAMAGES THE TUBE"

- Prior ectopic
- PID / STIs (chlamydia, gonorrhea)
- Tubal surgery / ligation
- IUD in place
- Endometriosis
- Smoking
- Assisted reproduction (IVF)
- Maternal age > 35

03 CLINICAL FINDINGS

Signs & Symptoms



EARLY · UNRUPTURED

- **Missed period** (amenorrhea) + positive pregnancy test
- **Low or slow-rising β-hCG** (fails to double q48h)
- **Unilateral** dull lower abdominal/pelvic pain
- Light vaginal **spotting** — dark red / brown
- Nausea, breast tenderness (normal early pregnancy signs)
- Tender adnexal mass on pelvic exam

LATE · RUPTURED

- **SUDDEN, SHARP, SEVERE** unilateral abdominal pain
- **Referred shoulder pain (Kehr's sign)** — from diaphragmatic irritation by blood
- **Cullen's sign** — bluish discoloration around umbilicus
- Rigid, board-like abdomen
- **↓BP, ↑HR**, cool clammy skin, pallor
- Dizziness, syncope, ↓LOC — **hypovolemic shock**



The Classic Triad (AAA): Amenorrhea + Abdominal pain + Abnormal vaginal bleeding → suspect ectopic until proven otherwise.

04 PRIORITY NURSING ACTIONS

What the Nurse Does First



ABC

Airway · Breathing · Circulation always come first. If rupture is suspected → treat as a **hemorrhagic emergency**. Maslow & ABCs outrank emotional support in the acute phase.

01 Assess ABCs, LOC, and complete vital signs q5–15 min

PRIORITY

02 Establish 2 large-bore IV lines (16–18 g) for fluid resuscitation

03 Monitor for hemorrhage — H&H, abdominal girth, pad count

04 Type & crossmatch blood; prepare for transfusion

05 Administer IV fluids (LR, NS) and oxygen as ordered

06 Obtain serial quantitative β -hCG, CBC, and prepare for transvaginal US

07 Prepare the patient for surgery — *salpingostomy* or *salpingectomy*

08 Administer Rh(D) immune globulin (RhoGAM) if mother is Rh-negative

09 Control pain with ordered analgesics; position for comfort

10 Strict I&O — urine output < 30 mL/hr = poor perfusion Δ

11 Provide emotional/grief support; offer chaplain or counseling

12 Educate on follow-up β -hCG trending *down* to zero

05 PHARMACOLOGY · HIGH YIELD

Key Medications

Methotrexate (MTX)

FOLIC ACID ANTAGONIST · ANTINEOPLASTIC

MECHANISM & INDICATION

- › Inhibits DNA synthesis → dissolves rapidly dividing trophoblast tissue
- › ONLY for **early, unruptured, hemodynamically stable** ectopic (β -hCG < 5,000, mass < 3.5 cm, no fetal heartbeat)
- › Given IM; avoids surgery & preserves tube

SIDE EFFECTS

- › N/V, stomatitis, diarrhea
- › Photosensitivity
- › Hepatotoxicity · $\uparrow$ LFTs
- › Bone marrow suppression ($\downarrow$ WBC, $\downarrow$ Pit)
- › Alopecia

NURSING CONSIDERATIONS & TEACHING

- › **NO** folic acid or prenatal vitamins (reverses the drug)
- › **NO** NSAIDs ($\uparrow$ toxicity)
- › **NO** alcohol (hepatotoxicity)
- › **NO** sun exposure — use sunscreen
- › **NO** pregnancy for ≥ 3 months after
- › Monitor β -hCG weekly until zero
- › Monitor CBC, LFTs, BUN/Cr
- › Avoid intercourse until cleared

Rh(D) Immune Globulin (RhoGAM)

Given to Rh-negative patients within 72 h to prevent maternal Rh sensitization & protect future pregnancies.

IV Fluids / Blood Products

LR or NS for volume; PRBCs/FFP for hemorrhage. Treat shock → maintain MAP ≥ 65 and UO ≥ 30 mL/hr.

06 NCLEX TEST TRAPS What Students Get Wrong



Trap 1 • The "Gas Pain"



Shoulder pain in a pregnant patient is *NOT* muscle strain or gas — it's **Kehr's sign = ruptured ectopic**.

Trap 2 • Bleeding Confusion



Ectopic bleeding is often *light* externally but massive *internally*. Don't use pad count alone to judge severity.

Trap 3 • The hCG Illusion



Low or slow-rising β -hCG (doesn't double q48h) is NOT a normal pregnancy — suspect ectopic.

Trap 4 • Methotrexate Misuse



MTX is *contraindicated* if ruptured, unstable, fetal heart tones, or β -hCG > 5,000. Surgery is the answer.

Trap 5 • The Folic Acid Mistake



NEVER give folic acid or prenatal vitamins with MTX — it reverses the drug's action.

Trap 6 • Priority Misjudgment



On NCLEX,
ABCs always outrank emotional support.
Stabilize vitals **FIRST**; grief counseling comes after the patient is safe.

Trap 7 • Miscarriage Mix-up



Miscarriage = uterine cramping + heavy vaginal bleeding.
Ectopic = *unilateral* pain $\pm$ hidden internal bleed.

Trap 8 • The Delay Trap



In a hypotensive pregnant patient with abdominal pain, don't wait for "more data" —
notify the provider STAT
and prepare for emergency intervention.

07 PATIENT EDUCATION What to Teach Before Discharge



Report immediately: severe one-sided abdominal pain, shoulder pain, dizziness, or heavy bleeding.



Keep all follow-ups for weekly β -hCG draws until the level reaches zero.



On MTX: avoid folic acid, prenatal vitamins, NSAIDs, alcohol, and sun exposure.



No pregnancy for at least 3 months after methotrexate; use reliable contraception.



Future pregnancy: get an *early* ultrasound to confirm intrauterine implantation.



Grief is valid. Seek counseling or support groups; pregnancy loss deserves bereavement care.



Higher risk of another ectopic exists — prompt prenatal care is essential.



Prevent PID/STIs: practice safe sex; early treatment of infections protects fertility.

08 MEMORY BOOSTERS

Mnemonics & Pattern Recognition



A.A.A. triad



Amenorrhea + Abdominal pain + Abnormal bleeding → think *ectopic*.

TUBAL Trouble



95% of ectopics land in the Tubes. "If the Tube's in Trouble — think Tubal pregnancy."

Kehr's Key



Shoulder pain in a woman of childbearing age = **ruptured ectopic** until proven otherwise.

Slow-Grow hCG



Normal pregnancy: hCG **doubles q48h**. Ectopic: slow, plateaued, or falling hCG.

MTX = "No, No, No, No"



No folic acid · **No** NSAIDs · **No** alcohol · **No** sun · **No** pregnancy × 3 months.

Cullen's Blue Belly



Bluish periumbilical bruising = **intra-abdominal bleeding** — a rupture red flag.

Elite NGN NCLEX Study Series

Aligned to the NCLEX 2026 Test Plan · Clinical Judgment Measurement Model

For educational review only. Always follow institutional protocols and provider orders. This infographic does not replace clinical training.