

NCLEX • MATERNAL NEWBORN • 2026 TEST PLAN

Postpartum Hemorrhage

The leading cause of maternal mortality worldwide — a true obstetric emergency where seconds matter and clinical judgment saves lives.

SYSTEM	CATEGORY	PRIORITY	THRESHOLD
Obstetrics	Emergency	ABC · Safety	≥ 1,000 mL

01 OVERVIEW What is postpartum hemorrhage?



01 / DEFINITION

Cumulative blood loss of **≥ 1,000 mL** OR blood loss with signs/symptoms of hypovolemia within **24 hours of birth**, regardless of route.

02 / TIMING

Early (primary): within 24 hrs — most common. **Late (secondary):** 24 hrs to 12 weeks postpartum.

03 / WHY IT MATTERS

PPH is the **#1 cause of maternal mortality worldwide**. Fast recognition + rapid intervention = survival. Every postpartum assessment is a hemorrhage screen.

02 MECHANISM The pathophysiology, step by step.



After delivery → placenta detaches → leaves **open spiral arteries** at placental site



Normally → uterus contracts → **compresses vessels** → bleeding stops



In PPH → **one of the "4 Ts" fails** → vessels stay open → hemorrhage



Rapid blood loss → **hypovolemic shock** → organ failure → death if untreated

T

70-80% • #1 CAUSE

Tone

Uterine atony. The uterus fails to contract after delivery. Boggy, soft, relaxed. Risk: prolonged labor, overdistension (twins, macrosomia, polyhydramnios), grand multiparity, Pitocin augmentation.

T

~20%

Trauma

Lacerations (vaginal, cervical, perineal), hematoma, uterine rupture or inversion. Suspect when uterus is **firm** but bleeding is heavy and bright red.

T

~10%

Tissue

Retained placental fragments. Prevents the uterus from contracting fully. Common cause of **late PPH**. Inspect placenta at delivery — must be intact.

T

<1%

Thrombin

Coagulation disorders — DIC, ITP, von Willebrand disease, HELLP syndrome, abruption, amniotic fluid embolism. Bleeding from IV sites, gums = think coag issue.

03 ASSESSMENT Signs & symptoms — catch it early.



STAGE ONE

Early • Compensated

- **Boggy uterus** — soft, won't stay contracted
- Fundus **above** the umbilicus
- Fundus displaced from midline (often right → full bladder)
- Saturating a peri-pad in < 1 hour
- Passage of large clots (> golf ball)
- Heavy bright-red lochia
- Mild anxiety, slight tachycardia

STAGE TWO • RED FLAGS

Late • Decompensated

- 🚨 **Tachycardia** > 110 — first sign of shock
- 🚨 **Hypotension** — late, ominous sign
- 🚨 Tachypnea, air hunger
- 🚨 Cool, clammy, pale skin
- 🚨 Oliguria (< 30 mL/hr)
- 🚨 Altered mental status, restlessness
- 🚨 Delayed capillary refill (> 3 sec)

REMEMBER

Blood pressure drops last. A young, healthy postpartum patient compensates for a long time — by the time BP falls, she is critically ill.

04 CLINICAL JUDGMENT

Priority nursing interventions.



*Prioritize **ABCs** and **safety**. For suspected atony, **fundal massage is the first action** — then empty bladder, give uterotonics, call for help.*

01 **MASSAGE** the fundus firmly with cupped hand — support lower uterine segment. First action for atony.

02 **ASSESS** fundus — tone (firm vs boggy), height (U/umbilicus), position (midline vs displaced).

03 **EMPTY the bladder** — full bladder displaces uterus and mimics atony. Straight cath if unable to void.

04 **QUANTIFY** blood loss — weigh pads and chux (**1 g = 1 mL**). Visual estimates are inaccurate.

05 **VITAL SIGNS** q5–15 min — watch for tachycardia, tachypnea, ↓ SpO₂.

06 **OXYGEN** 10 L/min via non-rebreather to maximize tissue perfusion.

07 **IV ACCESS** — two large-bore (16–18 g); infuse isotonic fluids (NS, LR) per order.

08 **ADMINISTER** uterotonics per protocol — Oxytocin → Methergine → Hemabate → Misoprostol → TXA.

09 **LABS** — type & crossmatch, CBC, coags, fibrinogen. Prepare for possible transfusion.

10 **FOLEY** catheter with urometer — strict I&O; goal ≥ 30 mL/hr.

11 **POSITION** — flat with legs elevated (modified Trendelenburg) to promote venous return.

12 **NOTIFY** provider / rapid response immediately; document everything; offer emotional support.

ABCs Airway, Breathing, Circulation — always. Massage and O₂ come *before* charting. Call for help early. Never leave the patient alone.

05 MEDICATIONS

Uterotonics & antifibrinolytics.



Oxytocin (Pitocin)

FIRST LINE

CLASS

Synthetic posterior pituitary hormone · Uterotonic

MECHANISM

Stimulates uterine smooth-muscle contraction → compresses placental-site vessels.

SIDE EFFECTS

Water intoxication (antidiuretic effect), hypotension with rapid IV push, N/V.

NURSING

Never IV push undiluted. Dilute in IV fluids. Monitor BP, fundus, urine output.

Methylergonovine (Methergine)

⚠ CHECK BP FIRST

CLASS

Ergot alkaloid · Uterotonic

MECHANISM

Direct smooth-muscle stimulation → sustained uterine contraction.

CONTRAINDICATION

HYPERTENSION, pre-eclampsia, cardiac disease. Causes severe vasoconstriction.

NURSING

Check BP before every dose. Hold if SBP > 140 or DBP > 90. Usually given IM.

Carboprost (Hemabate)

⚠ NOT FOR ASTHMA

CLASS

Prostaglandin F2α · Uterotonic

MECHANISM

Stimulates myometrial contractions via prostaglandin receptors.

CONTRAINDICATION

ASTHMA — causes bronchospasm. Also caution in cardiac/renal/hepatic disease.

NURSING

Given deep IM. Side effects: **diarrhea, N/V, fever, chills.** Anti-emetics / anti-diarrheals often pre-given.

Misoprostol (*Cytotec*)

RECTAL / SL

CLASS

Prostaglandin E1 analog · Uterotonic

MECHANISM

Promotes uterine contraction; also ripens cervix in other contexts.

SIDE EFFECTS

Fever, chills, shivering, diarrhea, headache.

NURSING

For PPH, given **rectally or sublingually**. Useful when other uterotonics are contraindicated.

Tranexamic Acid (*TXA*)

WITHIN 3 HRS

CLASS

Antifibrinolytic

MECHANISM

Inhibits plasminogen activation → stabilizes existing clots (does *not* cause uterine contraction).

SIDE EFFECTS

Thromboembolic risk, visual changes, dizziness.

NURSING

Most effective when given **within 3 hours** of bleeding onset. IV infusion — monitor for clots.

06 NCLEX TEST TRAPS Where students lose the point.



i

COMMON MISTAKE · SHOCK

Hypotension is **not** the first sign of shock. **Tachycardia is** — and tachypnea often comes next. Waiting for a blood-pressure drop is waiting too long.

ii

COMMON MISTAKE · FUNDUS

If the fundus is **displaced to the right**, the problem is usually a **full bladder** — not atony. Empty the bladder first before assuming uterotonics are needed.

iii

COMMON MISTAKE · ATONY

For suspected atony, **fundal massage comes before medications**. Mechanical stimulation is the first-line intervention — meds follow if it doesn't work.

iv

COMMON MISTAKE • METHERGINE

Never give Methergine to a patient with hypertension or pre-eclampsia. Always check BP before administration — hold for SBP > 140.

v

COMMON MISTAKE • HEMABATE

Never give Hemabate to an asthmatic patient — it causes bronchospasm. Review med history before administration.

vi

COMMON MISTAKE • FIRM FUNDUS

A **firm fundus with continued heavy bleeding** points to trauma or a laceration — not atony. Notify the provider for inspection/repair.

vii

COMMON MISTAKE • BLOOD LOSS

Visual estimates underestimate blood loss by up to 50%. **Weigh pads and chux**: 1 gram = 1 mL. This is the correct NCLEX answer.

viii

COMMON MISTAKE • LATE PPH

Bleeding that starts **days to weeks after discharge** is often **retained placental tissue** — not normal lochia. Teach patients when to call.

07 DISCHARGE TEACHING What the patient needs to know.



✓ Self-care at home

- ✓ Empty bladder every 2–3 hours to prevent uterine displacement.
- ✓ Eat iron-rich foods (lean red meat, spinach, beans, fortified cereals).
- ✓ Take prescribed iron supplements with vitamin C for absorption.
- ✓ Rest; gradually increase activity. No heavy lifting for 6 weeks.
- ✓ Expect lochia color change: rubra → serosa → alba (see below).
- ✓ Keep all postpartum follow-up appointments.

⚠ Call 911 / provider if

- ! Soaking a peri-pad in less than 1 hour.
- ! Passing clots larger than a golf ball.
- ! Dizziness, lightheadedness, fainting.
- ! Rapid heartbeat, weakness, pale or clammy skin.
- ! Foul-smelling lochia or return to bright-red bleeding after it had lightened.
- ! Fever > 100.4°F (38°C) or chills.
- ! Pelvic or abdominal pain not relieved by medication.

- ✓ Stay hydrated; continue prenatal vitamins.

DAYS 1 - 3

Rubra

Dark red · small clots ok

DAYS 4 - 10

Serosa

Pink-brown · watery

DAYS 11 - 6 WEEKS

Alba

Yellow-white · minimal

08 MEMORY BOOSTERS Mnemonics to lock it in.



THE BIG ONE

The 4 *T's* of PPH — Tone, Trauma, Tissue, Thrombin.

Every case fits one of these. Start with Tone (most common), move down the list if the uterus is firm.

FUNDUS CHECK

Boggy = Bleeding.

Firm fundus → good. Boggy fundus → massage now.
Simple and fast.

DRUG ORDER

Oh My, How Much ***TXA?***

Oxytocin → Methergine → Hemabate → Misoprostol →
TXA

CONTRAINDICATIONS

Methergine + HTN = NO.
Hemabate + Asthma = NO.

M for *MAP too high*. H for *Huff-and-whoeeze*. The two
most-tested med traps in OB pharmacology.

SHOCK TIMELINE

Tachy → Tachypnea →
Oliguria → ***Hypotension last.***

BP drops last — don't wait for it. Young, healthy
postpartum patients compensate well until they crash.

QUICK ASSESSMENT

Check ***U · P · T***

Uterus (tone), Pad (saturation), Toilet (bladder). Your
three-point scan for every postpartum round.

BLOOD LOSS MATH

1 gram = 1 mL.

Weigh the pad. Subtract the dry weight. That number in
grams equals milliliters of blood lost. Quantify — never
estimate.

Study smart. Pass the NCLEX.

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