



Rh₀(D) Immune Globulin

RhoGAM • WinRho • HyperRHO • Rhophylac — NCLEX High-Yield Review

MATERNAL • PHARM

1 DEFINITION / OVERVIEW

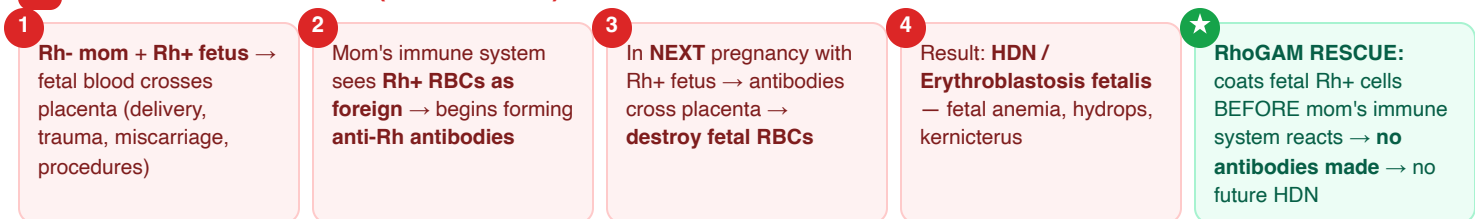
- ▶ Purified human **IgG with anti-Rh(D) antibodies** — a blood product providing **passive immunity**.
- ▶ Given to **Rh-NEGATIVE** mothers to **prevent Rh sensitization** during/after exposure to Rh-positive blood.
- ▶ Prevents **hemolytic disease of the newborn (HDN / erythroblastosis fetalis)** in **future pregnancies**.

300 mcg
Standard IM dose
(28 wks & postpartum)

≤ 72 hr
Critical window
post-exposure

50 mcg
Microdose
(<13 wks loss)

2 PATHOPHYSIOLOGY (SIMPLIFIED)



3 SIGNS & SYMPTOMS — WHEN IT'S INDICATED

✓ GIVE RhoGAM (Rh- mom events)

- ▶ **28 weeks** gestation (routine antepartum)
- ▶ Within **72 hours** of delivery if baby is **Rh+**
- ▶ After **miscarriage, abortion, ectopic** pregnancy
- ▶ After **amniocentesis, CVS, external version**
- ▶ After **abdominal trauma** (MVA, fall)
- ▶ After **Rh+ blood transfusion** mismatch
- ▶ Antepartum **bleeding** (placenta previa, abruption)

🚩 RED FLAGS — Sensitization Signs

- ▶ **Positive indirect Coombs** = mom **already sensitized** (RhoGAM will NOT help)
- ▶ Positive **direct Coombs** in newborn
- ▶ Fetal **hydrops** on ultrasound
- ▶ Newborn **jaundice within 24 hr**
- ▶ Severe fetal/neonatal **anemia**
- ▶ ↑ **Bilirubin** in newborn

4 PRIORITY NURSING INTERVENTIONS (ABCS • SAFETY)

VERIFY — Mother is **Rh-NEGATIVE** & baby is **Rh-POSITIVE** (postpartum dose).

CHECK — **Indirect Coombs NEGATIVE** before giving (confirms not sensitized).

OBTAIN — **Informed consent** — it is a **human blood product**.

ADMINISTER — **IM in deltoid** (or ventrogluteal); WinRho/Rhophylac can be IV.

GIVE — Within **72 hours** of delivery/exposure — time-critical!

MONITOR — Injection site, vitals, for allergic / anaphylactic reaction.

DOCUMENT — Lot #, dose, site, time — provide patient ID card.

EDUCATE — Needed with **every at-risk pregnancy/event** (not one-and-done).

🚨 **SAFETY ALERT:** Never give to an **Rh-POSITIVE** patient or a mother with a **positive indirect Coombs** (already sensitized). Never give to the newborn.

5 PHARMACOLOGY

Rh₀(D) Immune Globulin (RhoGAM, WinRho, HyperRHO, Rhophylac)

CLASS

Immune globulin / Immunosuppressant (blood product)

ROUTE

IM (RhoGAM, HyperRHO) — deltoid. IV option: WinRho, Rhophylac.

ONSET / DURATION

Peak ~5–10 days; protective ~12 wks → must be repeated for each pregnancy.

CONTRAINDICATIONS

Rh-positive patient; already sensitized (positive indirect Coombs); IgA deficiency with antibodies; prior severe reaction.

MECHANISM

Passive immunization — pre-formed anti-Rh(D) antibodies bind & clear Rh+ fetal RBCs before maternal B-cells can recognize them, preventing active maternal antibody formation.

DOSE

300 mcg (1500 IU) standard at 28 wks & within 72 hr postpartum. 50 mcg microdose for loss < 13 wks.

SIDE EFFECTS

Injection site pain/redness, low-grade fever, myalgia, HA; rare allergic reaction / anaphylaxis; rare hemolysis (IV form).

NURSING CARE

Verify Rh-, indirect Coombs negative, baby Rh+ (postpartum); consent for blood product; give within 72 hr; document lot #; monitor 20 min post-dose.

6 NCLEX TEST TRAPS ⚠

Trap 1: Thinking it's given to Rh-POSITIVE moms. → **Only Rh-NEGATIVE** mothers receive RhoGAM.

Trap 2: Forgetting the postpartum dose requires the baby to be **Rh-POSITIVE**. If baby is Rh-negative, no postpartum dose needed.

Trap 3: Giving it to an **already sensitized** mom (positive indirect Coombs). → RhoGAM will NOT reverse sensitization; it only prevents it.

Trap 4: Confusing **indirect Coombs (mother)** with **direct Coombs (newborn)**. Remember: "iD" → Indirect = momma's Immune status; Direct = Daby (baby).

Trap 5: Calling it a vaccine. → It is **passive immunity** (pre-made antibodies), NOT a vaccine. Protection is short-lived.

Trap 6: Thinking one dose is lifelong. → Must be **repeated with every at-risk pregnancy/event**.

Trap 7: Missing the **72-hour window**. Still give if late — partial protection > none — but earlier is better.

Trap 8: Giving it **to the newborn**. → RhoGAM is for the **MOTHER ONLY**.

7 PATIENT EDUCATION

✓ Because you are **Rh-negative**, you need RhoGAM with **every pregnancy** — routine shot at **28 weeks**.

✓ Also required after: **miscarriage, abortion, ectopic, amniocentesis, or abdominal trauma**.

✓ It is **NOT a vaccine** — protection is temporary; dose must be repeated for each event.

✓ 🚨 **Call provider immediately** for rash, shortness of breath, swelling, or chest tightness.

✓ You'll need another dose **within 72 hours after delivery** if your baby is Rh-positive.

✓ It is a **blood product** from screened human plasma — extremely safe; consent required.

✓ Expect **mild soreness, redness, or low fever** at the injection site — normal.

✓ Keep your **RhoGAM card/record** — show it at every prenatal visit & ER visit.

8 MEMORY BOOSTERS 🧠

🔑 MASTER MNEMONIC

"Rh-NEGATIVE MOMS NEED RhoGAM"

Only **Rh-NEG** mothers get RhoGAM. **Rh-POS** moms never need it.

🔑 "28 & 72" RULE

28 weeks gestation • 72 hours postpartum

Two landmark times to remember — classic NCLEX select-all-that-apply answer combo.

🔑 COOMBS MEMORY TRICK — "ID"

Indirect = Immune mom • Direct = Daby (baby)

Indirect Coombs tests **mom** for antibodies; Direct Coombs tests **baby's** RBCs for attached antibodies.

🔑 "RHOGAM RESCUES" — THE 7 TRIGGERS

R.E.S.C.U.E.S.

Rh-negative mom • Exposure event (trauma/bleed) • Sensitization prevention • Coombs (indirect) negative • Under 72 hours • Every pregnancy • Shot in deltoid (IM)

🔑 PATTERN RECOGNITION

If you see "Rh-negative mother" + **ANY mixing of blood** (delivery, bleed, trauma, miscarriage, procedure) → **think RhoGAM**. If the question says "already has antibodies" or "positive indirect Coombs" → **too late, RhoGAM won't help**.