

Rh_o(D) Immune Globulin (Human)

RhoGAM[®] Ultra-Filtered PLUS (300 µg) (1500 IU)

MICRhoGAM[®] Ultra-Filtered PLUS (50 µg) (250 IU)

Rx Only

For Intramuscular Injection Only

Prefilled syringes, preservative-free (thimerosal free), latex-free delivery system

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use RhoGAM Ultra-Filtered PLUS (RhoGAM) and MICRhoGAM Ultra-Filtered PLUS (MICRhoGAM) safely and effectively. See full prescribing information for RhoGAM and MICRhoGAM.

- Rh_o(D) Immune Globulin (Human) RhoGAM[®] Ultra-Filtered PLUS (300 µg) (1500 IU) Initial U.S. Approval: 1968**
- Rh_o(D) Immune Globulin (Human) MICRhoGAM[®] Ultra-Filtered PLUS (50 µg) (250 IU) Initial U.S. Approval: 1998**

-----INDICATIONS AND USAGE-----

For use in preventing Rh immunization.

- Pregnancy and other obstetrical conditions in Rh-negative women unless the father or baby are conclusively Rh-negative, e.g. delivery of an Rh-positive baby irrespective of the ABO groups of the mother and baby, any antepartum fetal-maternal hemorrhage (suspected or proven), actual or threatened pregnancy loss at any stage of gestation and ectopic pregnancy. (1.1)
- Prevention of Rh immunization in any Rh-negative person after incompatible transfusion of Rh-positive blood or blood products (1.2)

-----DOSAGE AND ADMINISTRATION-----

For intramuscular use only, do not administer intravenously.

Pregnancy and other obstetrical conditions (2.1)

RhoGAM (300 µg) (1500 IU)

- Postpartum – if the newborn is Rh-positive. Administer within 72 hours of delivery.
- Antepartum –
 - Prophylaxis at 26 – 28 weeks gestation.
 - At or beyond thirteen weeks gestation: administer within 72 hours when suspected or proven exposure to Rh-positive red blood cells occurs resulting from invasive procedures, abdominal trauma or obstetrical manipulation, ectopic pregnancy, pregnancy termination or threatened termination.

Administer every 12 weeks starting from first injection to maintain a level of passively acquired anti-D. If delivery occurs within three weeks after the last antepartum dose, the postpartum dose may be withheld, but a test for fetal-maternal hemorrhage should be performed to determine if exposure to > 15 mL of red blood cells has occurred.

MICRhoGAM (50 µg) (250 IU)

- Administer within 72 hours of actual or threatened termination of pregnancy (spontaneous or induced) up to and including 12 weeks gestation.

Transfusion of Rh-incompatible blood or blood products (2.1)

Administer within 72 hours.

RhoGAM (300 µg) (1500 IU)

- 2.5 - 15.0 mL Rh-positive red blood cells
- > 15.0 mL Rh-positive red blood cells (multiple syringes)

MICRhoGAM (50 µg) (250 IU)

- < 2.5 mL Rh-positive red blood cells

-----DOSAGE FORMS AND STRENGTHS-----

Rh_o(D) Immune Globulin (Human)

- RhoGAM[®] Ultra-Filtered PLUS - 300 µg (1500 IU) – Prefilled Syringes (3)
- MICRhoGAM[®] Ultra-Filtered PLUS - 50 µg (250 IU) – Prefilled Syringes (3)

-----CONTRAINDICATIONS-----

- Rh-positive individuals. (4)

-----WARNINGS AND PRECAUTIONS-----

- Do not inject intravenously.** (5.1)
- In the case of postpartum use, the product is intended for maternal use only. (5.1)
- Do not inject the newborn infant. (5.1)
- May carry a risk of transmitting infectious agents because it is made from human plasma. (5.2)

- Administer with caution to patients who have had prior severe systemic allergic reactions to human immune globulin. (5.1)
- Contains a small quantity of immunoglobulin A (IgA), there is a potential risk of hypersensitivity in IgA deficient individuals. (5.1)

- Patients treated for Rh-incompatible transfusion should be monitored by clinical and laboratory means for signs and symptoms of a hemolytic reaction. (5.1)

-----ADVERSE REACTIONS-----

Most common are:

- Injection site reactions that include swelling, induration, redness and mild pain or warmth. (6)
- Systemic reactions that include skin rash, body aches or a slight elevation in temperature. Patients should be observed for at least 20 minutes after administration. Severe systemic allergic reactions are extremely rare. (6)
- Anti-D formation is rarely reported after proper administration of RhoGAM. (6).

To report SUSPECTED ADVERSE REACTIONS, contact:

- Kedrion Biopharma Inc. at 1-855-3KDRION (1-855-353-7466) in the United States.**
- Outside of the United States, the company distributing these products should be contacted.**
- Voluntary reporting of adverse reactions may also be made to the FDA through MedWatch at 1-800-FDA-1088 or on the Internet at www.fda.gov/medwatch.**

-----DRUG INTERACTIONS-----

- May impair the efficacy of live vaccines such as measles, mumps and varicella. Administration of live vaccines should generally be delayed until 12 weeks after the final dose of immune globulin. If administered within 14 days after administration of a live vaccine, the efficacy of the vaccination may be impaired. (7)
- The postpartum vaccination of rubella-susceptible women with rubella or MMR vaccine should not be delayed because of the receipt of Rh_o(D) Immune Globulin (Human). (7)

-----USE IN SPECIFIC POPULATIONS-----

- Administer only to Rh-negative patients exposed or potentially exposed to Rh-positive red blood cells to prevent Rh immunization. (8)

See 17 for PATIENT COUNSELING INFORMATION

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Pregnancy and other obstetrical conditions

For administration to Rh-negative women not previously sensitized to the Rh_o(D) factor, unless the father or baby are conclusively Rh-negative.

- Delivery of an Rh-positive baby irrespective of the ABO groups of the mother and baby
- Antepartum prophylaxis at 26 to 28 weeks gestation

- Antepartum fetal-maternal hemorrhage (suspected or proven) as a result of placenta previa, amniocentesis, chorionic villus sampling, percutaneous umbilical blood sampling, other obstetrical manipulative procedure (e.g., version) or abdominal trauma
- Actual or threatened pregnancy loss at any stage of gestation
- Ectopic pregnancy

1.2 Transfusion of Rh-incompatible blood or blood products

- Prevention of Rh immunization in any Rh-negative person after incompatible transfusion of Rh-positive blood or blood products (e.g., red blood cells, platelet concentrates, granulocyte concentrates)

2 DOSAGE AND ADMINISTRATION

For intramuscular use only. Do not inject RhoGAM Ultra-Filtered PLUS (RhoGAM) or MICRhoGAM Ultra-Filtered PLUS (MICRhoGAM) intravenously. In the case of postpartum use, the product is intended for maternal administration. Do not inject the newborn infant. Inject the entire contents of the syringe(s). For single use only. (See WARNINGS AND PRECAUTIONS)

RhoGAM or MICRhoGAM should be administered within 72 hours of delivery or known or suspected exposure to Rh-positive red blood cells. There is little information concerning the effectiveness of Rh_o(D) Immune Globulin (Human) when given beyond this 72 hour period. In one study, Rh_o(D) Immune Globulin (Human) provided protection against Rh immunization in about 50% of subjects when given 13 days after exposure to Rh-positive red blood cells.¹ Administer every 12 weeks starting from first injection to maintain a level of passively acquired anti-D. If delivery occurs within three weeks after the last antepartum dose, the postpartum dose may be withheld, but a test for fetal-maternal hemorrhage should be performed to determine if exposure to > 15 mL of red blood cells has occurred.²

Parenteral drug products should be inspected visually for particulate matter, discoloration and syringe damage prior to administration. Do not use if particulate matter and / or discoloration are observed. The solution should appear clear or slightly opalescent.

2.1 Indications and Recommended Dosage

Indication	Dose	Notes
Pregnancy and other obstetrical conditions.		
Postpartum (if the newborn is Rh-positive) <p>Administer within 72 hours of delivery.</p>	RhoGAM (300 µg) (1500 IU)	Additional doses of RhoGAM are indicated when the patient has been exposed to > 15 mL of Rh-positive red blood cells. This may be determined by use of qualitative or quantitative tests for fetal-maternal hemorrhage.
Antepartum: <ul style="list-style-type: none">Prophylaxis at 26 to 28 weeks gestation Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells resulting from: <ul style="list-style-type: none">Amniocentesis, chorionic villus sampling (CVS) and percutaneous umbilical blood sampling (PUBS) Abdominal trauma or obstetrical manipulation Ectopic pregnancy Threatened pregnancy loss after 12 weeks gestation with continuation of pregnancy Pregnancy termination (spontaneous or induced) beyond 12 weeks gestation		If antepartum prophylaxis is indicated, it is essential that the mother receive a postpartum dose if the infant is Rh-positive.
<ul style="list-style-type: none">Actual or threatened termination of pregnancy (spontaneous or induced) up to and including 12 weeks gestation Administer within 72 hours	MICRhoGAM (50 µg) (250 IU)	RhoGAM may be administered if MICRhoGAM is not available.
Transfusion of Rh-incompatible blood or blood products		
<ul style="list-style-type: none">< 2.5 mL Rh-positive red blood cells	MICRhoGAM (50 µg) (250 IU)	RhoGAM may be administered if MICRhoGAM is not available.
<ul style="list-style-type: none">2.5 - 15.0 mL Rh-positive red blood cells	RhoGAM (300 µg) (1500 IU)	
<ul style="list-style-type: none">> 15.0 mL Rh-positive red blood cells	RhoGAM (300 µg) (1500 IU) (multiple syringes)	Additional doses of RhoGAM are indicated when the patient has been exposed to > 15 mL of Rh-positive red blood cells. Administer 20 µg of RhoGAM per mL of Rh-positive red blood cell exposure. Multiple doses may be administered at the same time or at spaced intervals, as long as the total dose is administered within three days of exposure.

2.2 RhoGAM Administration

Each single dose prefilled syringe of RhoGAM contains 300 µg (1500 IU) of Rh_o(D) Immune Globulin (Human). This is the dose for the indications associated with pregnancy at or beyond 13 weeks unless there is clinical or laboratory evidence of a fetal-maternal hemorrhage (FMH) in excess of 15 mL of Rh-positive red blood cells.

2.3 MICRhoGAM Administration

Each single dose prefilled syringe of MICRhoGAM contains 50 µg (250 IU) of Rh_o(D) Immune Globulin (Human). This dose will suppress the immune response to up to 2.5 mL of Rh-positive red blood cells. MICRhoGAM is indicated within 72 hours after termination of pregnancy up to and including 12 weeks gestation. At or beyond 13 weeks gestation, RhoGAM should be administered instead of MICRhoGAM.

2.4 Multiple Dosage

Multiple doses of RhoGAM are required if a FMH exceeds 15 mL, an event that is possible but unlikely prior to the third trimester of pregnancy and is most likely at delivery. Patients known or suspected to be at increased risk of FMH should be tested for FMH by qualitative or quantitative methods.³ In efficacy studies, RhoGAM was shown to suppress Rh immunization in all subjects when given at a dose of > 20 µg per mL of Rh-positive red blood cells.⁴ Thus, a single dose of RhoGAM will suppress the immune response after exposure to ≤ 15 mL of Rh-positive red blood cells. However, in clinical practice, laboratory methods used to determine the amount of exposure (volume of transfusion or FMH) to Rh-positive red blood cells are imprecise.^{5,6} Therefore, administration of more than 20 µg of RhoGAM per mL of Rh-positive red blood cells should be considered whenever a large FMH or red blood cell exposure is suspected or documented.⁶ Multiple doses may be administered at the same time or at spaced intervals, as long as the total dose is administered within three days of exposure.⁷

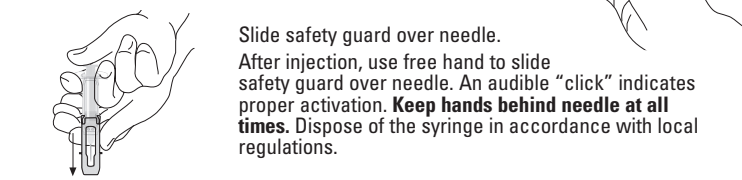
2.5 Dosage Frequency

To maintain an adequate level of anti-D, RhoGAM should be administered every 12 weeks. The exact timing for the injection is based on 12 week intervals starting from the administration of the first injection. If delivery of the baby does not occur 12 weeks after the administration of the standard antepartum dose (at 26 to 28 weeks), a second dose is recommended to maximize protection antepartum. If delivery occurs within three weeks after the last antepartum dose, the postpartum dose may be withheld, but a test for FMH should be performed to determine if exposure to > 15 mL of red blood cells has occurred.²

2.6 Administration

Administer injection per standard protocol.

Note: When administering an intramuscular injection, place fingers in contact with syringe barrel through windows in shield to prevent possible premature activation of safety guard.



3 DOSAGE FORMS AND STRENGTHS

- RhoGAM[®] Ultra-Filtered PLUS - 300 µg (1500 IU)* – Prefilled Syringes
- MICRhoGAM[®] Ultra-Filtered PLUS - 50 µg (250 IU)* – Prefilled Syringes

*The anti-D content of RhoGAM / MICRhoGAM is expressed as µg per dose or as International Units (IU) per dose. The conversion factor is 1 µg = 5 IU.⁸

4 CONTRAINDICATIONS

The use of RhoGAM and MICRhoGAM is contraindicated in Rh-positive individuals.

5 WARNINGS AND PRECAUTIONS

5.1 Warnings

- For intramuscular use only, do not inject intravenously.
- In the case of postpartum use, the product is intended for maternal administration.
- Do not inject the newborn infant.
- Patients should be observed for at least 20 minutes after administration.
- Administer with caution to patients who have had prior severe systemic allergic reactions to human immune globulin.
- RhoGAM / MICRhoGAM contain a small quantity of IgA. There is a potential risk of hypersensitivity in IgA deficient individuals.
- Patients treated for Rh-incompatible transfusion should be monitored by clinical and laboratory means for signs and symptoms of a hemolytic reaction.
- Store at 2 to 8°C. Do not store frozen.
- Do not use after the expiration date printed on the syringe.

5.2 Use of Plasma Derived Products

RhoGAM and MICRhoGAM are made from human plasma and may carry a risk of transmitting infectious agents, e.g., viruses, and theoretically the Creutzfeldt-Jakob disease (CJD) agent. The risk that such products will transmit an infectious agent has been reduced by screening plasma donors for prior exposure to certain viruses, by testing plasma for the presence of certain current virus infections and by using pathogen removal and inactivation techniques during the manufacturing process. All of the above steps are designed to increase product safety by reducing the risk of pathogen transmission. Despite these measures, such products can still potentially transmit disease. There is also the possibility that unknown infectious agents may be present in such products. All infections thought by a physician possibly to have been transmitted by these products should be reported by the physician or other healthcare provider in the United States to Kedrion Biopharma Inc. at 1-855-3KDRION (1-855-353-7466). Outside the United States, the company distributing these products should be contacted. The physician should discuss the risks and benefits of these products with the patient.

