



# You're pregnant and you're Rh-negative

Talk to your doctor to learn how RhoGAM® may help protect you and your baby.



**RhoGAM®**  
*Ultra-Filtered PLUS*

[Rh<sub>0</sub>(D) Immune Globulin (Human)] (300 µg)

## What is RhoGAM?

RhoGAM® Ultra-Filtered PLUS [Rh<sub>0</sub>(D) Immune Globulin (Human)] (300 µg), is a prescription medicine given by intramuscular injection that is used to prevent Rh immunization, a condition in which an individual with Rh-negative blood develops antibodies after exposure to Rh-positive blood.

## RhoGAM administration

If the father or baby is not conclusively shown to be Rh-negative, RhoGAM should be given to a Rh-negative mother in the following clinical situations to prevent Rh immunization:

- After delivery of a Rh-positive baby.
- Routine prevention of Rh immunization at 26 to 28 weeks of pregnancy.
- Maternal or fetal bleeding during pregnancy from certain conditions.
- Actual or threatened pregnancy loss at any stage.
- Ectopic pregnancy (pregnancy in which the fertilized egg implants outside the uterus).

## Learning that you are Rh-negative

Pregnancy is a very exciting time. This is also the first time most women learn their blood type. You just learned that you are Rh-negative and you probably have a lot of questions like, “What does this mean for me and my baby?”

The goal of this brochure is to help you learn how RhoGAM may help protect you and your baby and to answer any questions you may have.

## Understanding your blood type

Rh is the abbreviation for rhesus, which is the name of one of many different blood group systems in the body.

- **Rh-positive** people have the Rh antigen (also called rhesus factor or D antigen) on the surface of their red blood cells
- **Rh-negative** people do not have the Rh antigen on the surface of their red blood cells



## What does it mean for you and your baby?

During pregnancy, it is normal for a small amount of the baby’s blood to enter the mother’s bloodstream.

When an Rh-negative mother carries an Rh-positive baby, and some of the baby’s blood enters the mother’s bloodstream, the mother’s immune system sees the baby’s red blood cells as “foreign” and will try to eliminate them as invaders. This is called Rh-incompatibility.

Rh-incompatibility usually does not affect the mother’s first baby, but once she has produced an immune response (called “Rh-sensitization”), all future Rh-positive babies are at risk for developing hemolytic disease of the fetus and newborn (HDFN). For the newborn, HDFN is a serious condition that may cause anemia (low red blood cell count), jaundice, and in severe cases, heart failure and possible brain damage.



## Important Safety Information about RhoGAM

RhoGAM should NOT be used if you are Rh-positive.

Be sure to tell your healthcare provider about all your medical conditions, including:

- If you have known severe allergic reactions or a severe response to human immune globulin.
- If you have experienced a serious reaction to other medicines that contain immune globulin.
- If you have an immunoglobulin A (IgA) deficiency. RhoGAM contains a small quantity of IgA and there is a potential risk of an allergic reaction in IgA-deficient individuals. Ask your healthcare provider if you are not sure.
- Your recent history of vaccinations. Certain types of vaccines (ones containing a live virus) may not work as well for you if you are also receiving immune globulin products, like RhoGAM. The antibodies in RhoGAM may prevent the vaccine from working. Before you get a vaccine, tell your healthcare provider that you have received RhoGAM.

## HDFN before RhoGAM

Before RhoGAM, thousands of babies each year were affected by HDFN. In 1968, RhoGAM was introduced as the first anti-D Rho(D) Immune Globulin (Human), and within a short time, helped to virtually eliminate HDFN.<sup>1</sup>

Since RhoGAM's introduction in 1968, the incidence of Rh sensitization has decreased dramatically<sup>2</sup>



## When you'll receive RhoGAM

RhoGAM is an injection that will be given by your healthcare provider.

- > In most cases you will receive a dose of RhoGAM between 26-28 weeks of pregnancy
- > If your baby is found to be Rh-positive at birth, you will receive an appropriate second dose within 72 hours after delivery
- > If your baby is determined to be Rh-negative at birth, you do not need an additional dose of RhoGAM

At any time during your pregnancy, be sure to notify your physician immediately if you have vaginal bleeding or experience any abdominal trauma. You may need an additional dose of RhoGAM.

RhoGAM is available by prescription only and can only be administered by a healthcare provider.

RhoGAM is intended for maternal administration only and should not be injected into the newborn infant.

Only your doctor can determine if RhoGAM is right for you.

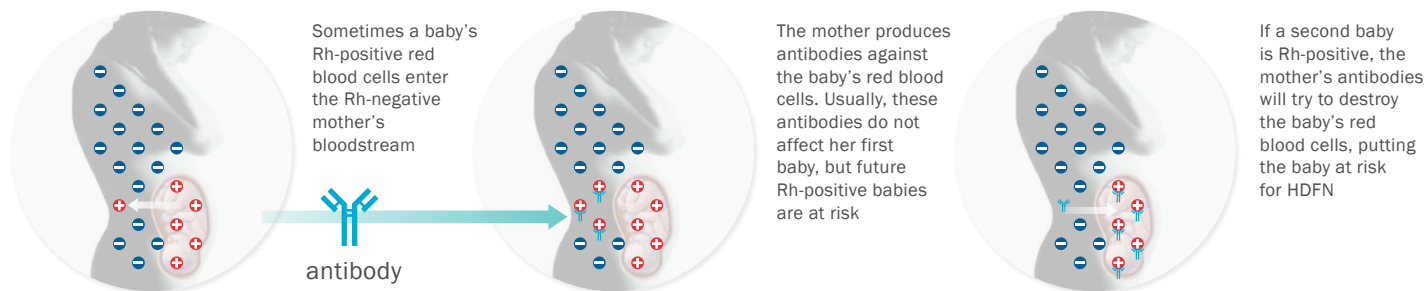
Dedicated to helping moms and babies

 **RhoGAM®**  
**Ultra-Filtered PLUS**  
[Rh<sub>0</sub>(D) Immune Globulin (Human)] (300 µg)

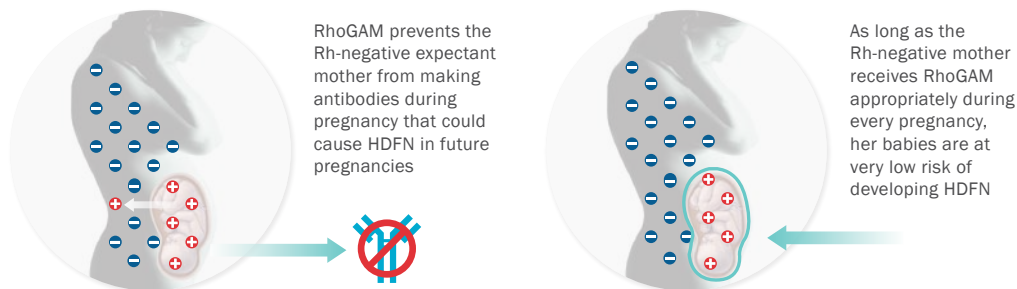
## How does RhoGAM work?

- > RhoGAM is an intramuscular injection that helps prevent Rh-sensitization, which can lead to HDFN in future pregnancies.

How HDFN develops:



How RhoGAM works:



## Important Safety Information (continued)

RhoGAM is made from human blood and therefore, carries a risk of transmitting infectious agents, such as viruses, the agent of the variant Creutzfeldt-Jakob disease (vCJD), or unknown infectious agents. You should consult with your healthcare provider if you have any questions or concerns.

Reactions to RhoGAM that affect the entire body are extremely rare. However allergic responses to RhoGAM may occur. You should be observed for at least 20 minutes after administration for early signs of an allergic reaction. Signs and symptoms of an allergic reaction include itchy rash (hives), tightness of the chest,

wheezing, low blood pressure and anaphylaxis (which may also include throat or tongue swelling, shortness of breath, vomiting, hives and/or lightheadedness).

The most common side effects of RhoGAM are swelling, hardening, redness, and mild pain at the site of the injection. A small number of patients have noted a slight fever.

**Please see accompanying Full Prescribing Information for RhoGAM.**

 **RhoGAM<sup>®</sup>**  
**Ultra-Filtered PLUS**  
 [Rh<sub>0</sub>(D) Immune Globulin (Human)] (300 µg)





## Approved Uses

RhoGAM® Ultra-Filtered PLUS [Rho(D) Immune Globulin (Human)] (300 µg), is a prescription medicine given by intramuscular injection that is used to prevent Rh immunization, a condition in which an individual with Rh-negative blood develops antibodies after exposure to Rh-positive blood.

If the father or baby is not conclusively shown to be Rh-negative, RhoGAM should be given to a Rh-negative mother in the following clinical situations to prevent Rh immunization:

- After delivery of a Rh-positive baby.
- Routine prevention of Rh immunization at 26 to 28 weeks of pregnancy.
- Maternal or fetal bleeding during pregnancy from certain conditions.
- Actual or threatened pregnancy loss at any stage.
- Ectopic pregnancy (pregnancy in which the fertilized egg implants outside the uterus).

RhoGAM may also be used to prevent Rh immunization in Rh-negative patients after the incompatible transfusion of Rh-positive blood or blood products.

## Important Safety Information

RhoGAM should NOT be used if you are Rh-positive.

Be sure to tell your healthcare provider about all your medical conditions, including:

- If you have known severe allergic reactions or a severe response to human immune globulin.
- If you have experienced a serious reaction to other medicines that contain immune globulin.
- If you have an immunoglobulin A (IgA) deficiency. RhoGAM contains a small quantity of IgA and there is a potential risk of an allergic reaction in IgA-deficient individuals. Ask your healthcare provider if you are not sure.
- Your recent history of vaccinations. Certain types of vaccines (ones containing a live virus) may not work as well for you if you are also receiving immune globulin products, like RhoGAM. The antibodies in RhoGAM may prevent the vaccine from working. Before you get a vaccine, tell your healthcare provider that you have received RhoGAM.

RhoGAM is made from human blood and therefore, carries a risk of transmitting infectious agents, such as viruses, or unknown infectious agents. You should consult with your healthcare provider if you have any questions or concerns.

Reactions to RhoGAM that affect the entire body are extremely rare. However allergic responses to RhoGAM may occur. You should be observed for at least 20 minutes after administration for early signs of an allergic reaction. Signs and symptoms of an allergic reaction include itchy rash (hives), tightness of the chest, wheezing, low blood pressure and anaphylaxis (which may also include throat or tongue swelling, shortness of breath, vomiting, hives and/or lightheadedness).

The most common side effects of RhoGAM are swelling, hardening, redness, and mild pain at the site of the injection. A small number of patients have noted a slight fever.

Your healthcare provider should provide you with a completed Patient Identification Card for you to retain and present to other healthcare providers.

**Please see accompanying Full Prescribing Information for RhoGAM.**

You are encouraged to report adverse events of prescription drugs to the FDA.  
Visit [www.fda.gov/Safety/MedWatch/](http://www.fda.gov/Safety/MedWatch/) or call 1-800-FDA-1088.

## You can trust the safety of RhoGAM

RhoGAM has an excellent safety record. It is US manufactured and sourced from a known and trusted donor pool in Williamsville, NY.

- > Since it was introduced in 1968, millions of women around the world have received RhoGAM and there have been no confirmed cases of viral transmission<sup>3</sup>
- > The manufacturing process is designed to remove viruses including hepatitis A virus and West Nile virus
- > Nevertheless, RhoGAM is made from human blood and therefore, carries a risk of transmitting infectious agents, such as viruses, the agent of the variant Creutzfeldt-Jakob disease (vCJD), or unknown infectious agents

You should consult with your healthcare provider if you have any questions or concerns.

**See additional Important Safety Information about RhoGAM inside this brochure.**

For more information about RhoGAM

visit [www.RhoGAM.com](http://www.RhoGAM.com)

**References:** **1.** Bowman JM, Chown B, Lewis M, Pollock JM. Rh isoimmunization during pregnancy: antenatal prophylaxis. *Can Med Assoc J.* 1978;118:623-7. **2.** Hartwell EA. Use of Rh immune globulin. ASCP practice parameter. *Am J Clin Pathol.* 1998;110:281-92. **3.** Data on File. Kedrion Biopharma Inc.

 **RhoGAM®**  
**Ultra-Filtered PLUS**  
[Rh<sub>0</sub>(D) Immune Globulin (Human)] (300 µg)

**KEDRION**  
B I O P H A R M A



## Rh<sub>o</sub>(D) Immune Globulin (Human)

### *RhoGAM*<sup>®</sup> Ultra-Filtered PLUS (300 µg) (1500 IU)

### *MICRhoGAM*<sup>®</sup> 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<sub>o</sub>(D) Immune Globulin (Human) RhoGAM<sup>®</sup> Ultra-Filtered PLUS (300 µg) (1500 IU) Initial U.S. Approval: 1968**
- Rh<sub>o</sub>(D) Immune Globulin (Human) MICRhoGAM<sup>®</sup> 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<sub>o</sub>(D) Immune Globulin (Human)

- RhoGAM<sup>®</sup> Ultra-Filtered PLUS - 300 µg (1500 IU) – Prefilled Syringes (3)
- MICRhoGAM<sup>®</sup> 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](http://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<sub>o</sub>(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

Revised July 2015

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\*Sections or subsections omitted from Full Prescribing Information are not listed.

#### 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<sub>o</sub>(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<sub>o</sub>(D) Immune Globulin (Human) when given beyond this 72 hour period. In one study, Rh<sub>o</sub>(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.<sup>1</sup> 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.<sup>2</sup>

**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
<b>Pregnancy and other obstetrical conditions.</b>		
Postpartum (if the newborn is Rh-positive)	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.
Administer within 72 hours of delivery.		
Antepartum: <ul style="list-style-type: none"><li>Prophylaxis at 26 to 28 weeks gestation</li> <li>Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells resulting from:</li> <li>Amniocentesis, chorionic villus sampling (CVS) and percutaneous umbilical blood sampling (PUBS)</li> <li>Abdominal trauma or obstetrical manipulation</li> <li>Ectopic pregnancy</li> <li>Threatened pregnancy loss after 12 weeks gestation with continuation of pregnancy</li> <li>Pregnancy termination (spontaneous or induced) beyond 12 weeks gestation</li></ul>		If antepartum prophylaxis is indicated, it is essential that the mother receive a postpartum dose if the infant is Rh-positive.
• Actual or threatened termination of pregnancy (spontaneous or induced) up to and including 12 weeks gestation	MICRhoGAM (50 µg) (250 IU)	RhoGAM may be administered if MICRhoGAM is not available.
<b>Transfusion of Rh-incompatible blood or blood products</b>		Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells.
• < 2.5 mL Rh-positive red blood cells	MICRhoGAM (50 µg) (250 IU)	RhoGAM may be administered if MICRhoGAM is not available.
• 2.5 - 15.0 mL Rh-positive red blood cells	RhoGAM (300 µg) (1500 IU)	
• > 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<sub>o</sub>(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<sub>o</sub>(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.<sup>3</sup> 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.<sup>4</sup> 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.<sup>5,6</sup> 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.<sup>6</sup> 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.<sup>7</sup>

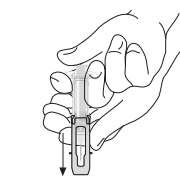
##### 2.5 Dosage Frequency

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.<sup>2</sup>

##### 2.6 Administration

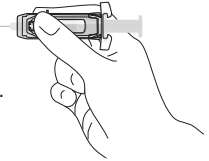
Administer injection per standard protocol.

**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.



Slide safety guard over needle.

After injection, use free hand to slide safety guard over needle. An audible “click” indicates proper activation. **Keep hands behind needle at all times.** Dispose of the syringe in accordance with local regulations.



#### 3 DOSAGE FORMS AND STRENGTHS

- RhoGAM<sup>®</sup> Ultra-Filtered PLUS - 300 µg (1500 IU)\* – Prefilled Syringes
- MICRhoGAM<sup>®</sup> 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.<sup>8</sup>

#### 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.



### 5.3 Laboratory Tests

Recovery of anti-D in plasma or serum after injection of RhoGAM or other Rh<sub>o</sub>(D) Immune Globulin (Human) products is highly variable among individuals. Anti-D detection in a patient’s plasma is dependent on assay sensitivity and time of sample collection post-injection. Currently there are no requirements or practice standards to test for the presence of anti-D in order to determine adequacy or efficacy of dose following an injection of RhoGAM.

The presence of passively acquired anti-D in the maternal serum may cause a positive antibody screening test. This does not preclude further antepartum or postpartum prophylaxis.

Some babies born to women given Rh<sub>o</sub>(D) Immune Globulin (Human) antepartum have weakly positive direct antiglobulin (Coombs) tests at birth.

Fetal-maternal hemorrhage may cause false blood typing results in the mother. Late in pregnancy or following delivery, there may be sufficient fetal Rh-positive red blood cells in the circulation of the Rh-negative mother to cause a positive antiglobulin test for weak D (Du). In this instance if there is any doubt as to the patient’s Rh type, RhoGAM or MICRhoGAM should be administered.<sup>9</sup>

#### 6 ADVERSE REACTIONS

Adverse events (AE) after administration of RhoGAM and MICRhoGAM are rare.

The most frequently reported AEs are anti-D formation and injection site reactions, such as swelling, induration, redness and mild pain or warmth. Possible systemic reactions are skin rash, body aches or a slight elevation in temperature. Severe systemic allergic reactions are extremely rare. Patients should be observed for at least 20 minutes after administration. There have been no reported fatalities due to anaphylaxis or any other cause related to RhoGAM or MICRhoGAM administration.

As with any Rh<sub>o</sub>(D) Immune Globulin (Human), administration to patients who are Rh-positive or have received Rh-positive red blood cells may result in signs and symptoms of a hemolytic reaction, including fever, back pain, nausea and vomiting, hypo- or hypertension, hemoglobinuria/emia, elevated bilirubin and creatinine and decreased haptoglobin.

RhoGAM and MICRhoGAM contain a small quantity of IgA (less than 15 µg per dose).<sup>10</sup> Although high doses of intravenous immune globulin containing IgA at levels of 270-720 µg/mL have been given without incident during treatment of patients with high-titered antibodies to IgA,<sup>11</sup> the attending physician must weigh the benefit against the potential risks of hypersensitivity reactions.

#### 7 DRUG INTERACTIONS

Immune globulin preparations including Rh<sub>o</sub>(D) Immune Globulin (Human) 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 an immune globulin is administered within 14 days after administration of a live vaccine, the immune response to the vaccination may be inhibited.<sup>12</sup>

Because of the importance of rubella immunity among women of childbearing age, the postpartum vaccination of rubella-susceptible women with rubella or MMR vaccine should not be delayed because of the receipt of Rh<sub>o</sub>(D) Immune Globulin (Human) during the last trimester of pregnancy or at delivery. Vaccination should occur immediately after delivery and if possible, testing should be performed after 3 or more months to ensure immunity to rubella and if necessary, to measles.<sup>12</sup>

#### 8 USE IN SPECIFIC POPULATIONS

##### 8.1 Pregnancy

*Pregnancy Category C*

Animal reproduction studies have not been conducted with RhoGAM or MICRhoGAM. The available evidence suggests that Rh<sub>o</sub>(D) Immune Globulin (Human) does not harm the fetus or affect future pregnancies or the reproduction capacity of the maternal recipient.<sup>13,14</sup>

##### 8.2 Rh Blood Type

RhoGAM or MICRhoGAM Rh<sub>o</sub>(D) Immune Globulin (Human) should only be administered to Rh-negative patients exposed or potentially exposed to Rh-positive red blood cells to prevent Rh immunization.

#### 10 OVERDOSAGE

Repeated administration or increased dosage in Rh-negative individuals should not cause more severe or more frequent adverse reactions than the normal dose. Patients who receive RhoGAM or MICRhoGAM for Rh-incompatible transfusion should be monitored by clinical and laboratory means due to the risk of a hemolytic reaction.

#### 11 DESCRIPTION

RhoGAM and MICRhoGAM Rh<sub>o</sub>(D) Immune Globulin (Human) are sterile solutions containing immunoglobulin G (IgG) anti-D (anti-Rh) for use in preventing Rh immunization. They are manufactured from human plasma containing anti-D. A single dose of RhoGAM contains sufficient anti-D (300 µg or 1500 IU) to suppress the immune response to up to 15 mL of Rh-positive red blood cells.<sup>4,15</sup> A single dose of MICRhoGAM contains sufficient anti-D (50 µg or 250 IU) to suppress the immune response to up to 2.5 mL of Rh-positive red blood cells. The anti-D dose is measured by comparison to the RhoGAM in-house reference standard, the potency of which is established relative to the U.S./World Health Organization/European Pharmacopoeia Standard Anti-D Immunoglobulin Rh<sub>o</sub>(D) Immune Globulin (Human) CBER Lot 4: NIBSC Lot 01/572 (285 IU/ampoule).<sup>16</sup>

Plasma for RhoGAM is typically sourced from a donor center owned and operated by KEDPlasma, LLC. US Lic. No. 1876. All donors are carefully screened by history and laboratory testing to reduce the risk of transmitting blood-borne pathogens from infected donors. Each plasma donation is tested and found to be non-reactive for the presence of hepatitis B surface antigen (HBsAg) and antibodies to hepatitis C (HCV) and human immunodeficiency viruses (HIV) 1 and 2. Additionally, plasma is tested by FDA licensed Nucleic Acid Testing (NAT) for HCV and HIV-1 and the results must be negative. Plasma is also tested by investigational NAT for hepatitis B (HBV) and must be non-reactive. However, the significance of a negative result has not been established. Plasma is tested by in-process NAT procedures for hepatitis A virus

(HAV) and parvovirus B19 (B19) in a minipool format. Only plasma that has passed virus screening is used for production. The procedure for B19 detects all three genotypes based upon sequence alignment of known virus isolates. The limit of B19 DNA in the manufacturing pool is set not to exceed 10<sup>4</sup> IU per mL.

Fractionation of the plasma is performed by a modification of the cold alcohol procedure that has been shown to significantly lower viral titers.<sup>10</sup> Following plasma fractionation, a patented viral clearance filtration step and a patented viral inactivation step are performed. The viral filtration step removes viruses via a size-exclusion mechanism utilizing a patented Viresolve 180 ultrafiltration membrane with defined pore-size distribution of 12-18 nanometers to remove enveloped and non-enveloped viruses. Following viral filtration, quality control tests (CorrTest and diffusion test) are performed on the Viresolve 180 ultrafiltration membrane to insure filter integrity.<sup>17</sup> The viral inactivation step utilizes Triton X-100 and tri-n-butyl phosphate (TNBP) to inactivate enveloped viruses such as HCV, HIV and West Nile Virus (WNV).<sup>10,18</sup>

The donor selection process, the fractionation process, the viral filtration step and the viral inactivation process increase product safety by reducing the risk of transmission of enveloped and non-enveloped viruses. Rh<sub>o</sub>(D) Immune Globulin (Human) intended for intramuscular use and prepared by cold alcohol fractionation has not been shown to transmit hepatitis or other infectious diseases.<sup>19</sup> There have been no documented cases of infectious disease transmission by RhoGAM or MICRhoGAM.

Laboratory spiking studies<sup>10,20</sup> have shown that the cumulative viral removal and inactivation capability of the RhoGAM / MICRhoGAM manufacturing process is as follows:

<b>Virus</b>	<b>HIV</b>	<b>BVDV</b>	<b>PRV</b>	<b>PPV</b>	<b>EMC</b>	<b>WNV</b>	<b>HAV</b>
Lipid Enveloped	Yes	Yes	Yes	No	No	Yes	No
Size (nm)	80-120	40-70	120-200	18-24	25-30	40-60	27-32
Genome	SS-RNA	SS-RNA	DS-DNA	SS-DNA	SS-RNA	SS-RNA	SS-RNA
Fractionation	≥ 7.98	7.29	≥ 11.74	8.30	ND	ND	ND
Viral Filtration	≥ 5.60	5.40	≥ 6.20	3.30	4.16	ND	≥ 5.07
Viral Inactivation	≥ 4.28	≥ 4.90	≥ 5.58	N/A	N/A	≥ 7.05	N/A
Total Viral Reduction	≥ 17.86	≥ 17.59	≥ 23.52	11.60	4.16	≥ 7.05	≥ 5.07

Units = log<sub>10</sub> reduction

HIV Human Immunodeficiency Virus, Model for HIV-1 and 2 and Human T-cell Lymphotropic Virus (HTLV) 1 and 2

BVDV Bovine Viral Diarrhea Virus, Model for Hepatitis C Virus

PRV Pseudorabies Virus, Model for Herpes Viruses

PPV Porcine Parvovirus, Model for Parvovirus B19

EMC Encephalomyocarditis Virus, Model for Hepatitis A Virus

WNV West Nile Virus

HAV Hepatitis A Virus

ND Not Determined

N/A Not Applicable

The safety of Rh<sub>o</sub>(D) Immune Globulin (Human) has been further shown in an empirical study of viral marker rates in female blood donors in the United States.<sup>21</sup> This study revealed that Rh-negative donors, of whom an estimated 55-60% had received Rh<sub>o</sub>(D) Immune Globulin (Human) for pregnancy-related indications, had prevalence and incidence viral marker rates similar to those of Rh-positive female donors who had not received Rh<sub>o</sub>(D) Immune Globulin (Human).

The final product contains 5 ± 1% IgG, 2.9 mg/mL sodium chloride, 0.01% Polysorbate 80 (non-animal derived) and 15 mg/mL glycine. Small amounts of IgA, typically less than 15 µg per dose, are present.<sup>10</sup> The pH range is 6.20 - 7.00 and IgG purity is ≥ 98%. The product contains no added human serum albumin (HSA), no thimerosal or other preservatives and utilizes a latex-free delivery system.

RhoGAM Ultra-Filtered PLUS and MICRhoGAM Ultra-Filtered PLUS are manufactured for Kedrion Biopharma Inc., 155 Duryea Road, Melville, NY 11747 USA, by Ortho-Clinical Diagnostics, Inc.

#### 12 CLINICAL PHARMACOLOGY

##### 12.1 Mechanism of Action

RhoGAM and MICRhoGAM act by suppressing the immune response of Rh-negative individuals to Rh-positive red blood cells. The mechanism of action is unknown. RhoGAM, MICRhoGAM and other Rh<sub>o</sub>(D) Immune Globulin (Human) products are not effective in altering the course or consequences of Rh immunization once it has occurred.

##### 12.2 Obstetrical Use

The Rh-negative obstetrical patient may be exposed to red blood cells from her Rh-positive fetus during the normal course of pregnancy or after obstetrical procedures or abdominal trauma.

##### 12.3 Use after Rh-Incompatible Transfusion

An Rh-negative individual transfused with one unit of Rh-positive red blood cells has about an 80% likelihood of producing anti-D.<sup>4</sup> However, Rh immunization can occur after exposure to < 1 mL of Rh-positive red blood cells. Protection from Rh immunization is accomplished by administering ≥ 20 µg of RhoGAM or MICRhoGAM per mL of Rh-positive red blood cells within 72 hours of transfusion of incompatible red blood cells.<sup>13,22</sup>

##### 12.4 Pharmacokinetic Properties

Pharmacokinetic studies after intramuscular injection were performed on sixteen Rh-negative subjects receiving a single dose of (368 µg or 1840 IU) RhoGAM.<sup>10</sup>

Plasma anti-D levels were monitored for thirteen weeks using a validated Automated Quantitative Hemagglutination method with sensitivity of approximately 1 ng/mL. The following mean pharmacokinetic parameters were obtained from data collected over the first ten weeks of a thirteen-week study:

<b>Parameter</b>	<b>Mean</b>	<b>SD</b>	<b>Units</b>
Maximum plasma concentration obtained (Cmax)	54.0	13.0	ng/mL
Time to attain Cmax (Tmax)	4		days
Elimination half-life (T1/2)	30.9	13.8	days
Volume of distribution (Vd)	7.3	1.5	liters
Clearance (CL)	150.4	53.3	mL/day

#### 14 CLINICAL STUDIES

Rh<sub>o</sub>(D) Immune Globulin (Human) administered at 28 weeks, as well as within 72 hours of delivery, has been shown to reduce the Rh immunization rate to about 0.1-0.2%.<sup>23,24</sup> Clinical studies demonstrated that administration of MICRhoGAM within three hours following pregnancy termination was 100% effective in preventing Rh immunization.<sup>25</sup>

Multiple studies have been performed that prove the safety and efficacy of RhoGAM in both the obstetrical and post transfusion settings.

Freda, Gorman and colleagues<sup>26, 27</sup> studied the efficacy of RhoGAM in the postpartum setting in a randomized, controlled study completed in 1967. The control group received no immunoglobulin therapy after delivery, while the test group received 300 µg of RhoGAM intramuscularly within 72 hours of delivery of an Rh-positive infant. Six months after delivery, the incidence of Rh immunization in the control group was 6.4% (32/499) versus 0.13% (1/781) in the RhoGAM group (p < 0.001).

Pollack et al. performed two randomized, placebo-controlled studies in the post transfusion setting that were designed to establish the dose response relationship of RhoGAM. In the first study,<sup>15</sup> 178 (176 males, 2 females) Rh-negative volunteers received varying volumes of Rh- positive red cells; 92 subjects then received RhoGAM. A single dose of RhoGAM (1.1 mL @ 267 µg/mL) was shown to suppress anti-D formation after injection of up to 15.1 mL of Rh-positive red cells. In a companion study,<sup>4</sup> Pollack administered 500 mL of Rh-positive whole blood to 44 Rh-negative male volunteers. Twenty-two (22) subjects received 20 µg RhoGAM per mL of Rh-positive red cells and 22 received no RhoGAM. None of the RhoGAM-treated subjects developed anti-D; 18/22 control arm subjects developed anti-D (p < 0.0001). Human clinical studies<sup>10</sup> were subsequently performed to prove the efficacy of MICRhoGAM and the low protein (5%) formulations. In the MICRhoGAM study, 81 Rh-negative male volunteers received an initial injection of 2.5 mL Rh-positive red cells, followed by a booster injection (0.1 mL) of red cells at 26 weeks; 40 subjects received an injection of MICRhoGAM after the initial red cell injection. None of the subjects who received MICRhoGAM developed anti-D, both before and after the booster red cell injection. A similar study was performed in 1985 using the low protein formulation of RhoGAM. None of the 30 Rh-negative male volunteers who received RhoGAM after injection of 15 mL of Rh-positive red cells developed anti-D.

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#### 16 HOW SUPPLIED / STORAGE AND HANDLING

##### 16.1 RhoGAM Ultra-Filtered PLUS:

- 1 Injection, Solution (Syringe) in 1 Pouch NDC 0562-7805-00

##### 16.2 RhoGAM Ultra-Filtered PLUS package sizes:

- 1 prefilled single-dose syringe of RhoGAM (Product Code 780501) NDC 0562-7805-01
  - 1 package insert, 1 control form, 1 patient identification card
- 5 prefilled single-dose syringes of RhoGAM (Product Code 780505) NDC 0562-7805-05
  - 5 package inserts, 5 control forms, 5 patient identification cards
- 25 prefilled single-dose syringes of RhoGAM (Product Code 780525) NDC 0562-7805-25
  - 25 package inserts, 25 control forms, 25 patient identification cards

##### 16.3 MICRhoGAM Ultra-Filtered PLUS:

- 1 Injection, Solution (Syringe) in 1 Pouch NDC 0562-7806-00

##### 16.4 MICRhoGAM Ultra-Filtered PLUS package sizes:

- 1 prefilled single-dose syringe of MICRhoGAM (Product Code 780601) NDC 0562-7806-01
  - 1 package insert, 1 control form, 1 patient identification card
- 5 prefilled single-dose syringes of MICRhoGAM (Product Code 780605) NDC 0562-7806-05
  - 5 package inserts, 5 control forms, 5 patient identification cards
- 25 prefilled single-dose syringes of MICRhoGAM (Product Code 780625) NDC 0562-7806-25
  - 25 package inserts, 25 control forms, 25 patient identification cards

Store at 2 to 8°C. Do not store frozen. Do not use after the expiration date printed on the syringe.

#### 17 PATIENT COUNSELING INFORMATION

As with all immune globulin preparations, the physician should discuss the risks and benefits with the patient. The most common adverse reactions are local reactions including swelling, induration, redness and mild pain at the site of injection, and a small number of patients have noted a slight elevation in temperature.

Systemic reactions to RhoGAM or MICRhoGAM are extremely rare, however allergic responses to RhoGAM or MICRhoGAM may occur. Patients should be observed for at least 20 minutes after administration. Patients should be informed of the early signs of hypersensitivity reactions including hives, generalized urticaria, tightness of the chest, wheezing, hypotension and anaphylaxis.

The physician should provide the patient with a completed RhoGAM Patient Identification Card and advise the patient to retain the card and present it to other health care providers when appropriate.

<p><b>SUMMARY OF REVISIONS</b></p> <p>Replaced all instances of Kedrion Melville Inc. with Kedrion Biopharma Inc.</p>
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**Kedrion Biopharma Inc.**, 155 Duryea Road, Melville, NY 11747 USA

Manufactured for: Kedrion Biopharma Inc. by Ortho-Clinical Diagnostics, Inc.

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