

Rhophylac®
Rh₀(D) Immune Globulin
Intravenous (Human)
For intravenous or intramuscular injection.

PROTECTING

you and your baby

Information for
mothers-to-be who
have Rh-negative blood

CSL Behring

The Rh factor and your baby

Your doctor has identified your blood's Rh factor as Rh *negative*. This means your red blood cells don't have what is known as the Rh antigen. People who have this antigen are Rh *positive*. If your baby's father has Rh-positive blood, you might have an Rh-incompatible pregnancy. When your blood is Rh negative and it's exposed to Rh-positive blood, your body can produce antibodies that attack the Rh-positive blood. This is called "sensitization." Sensitization is irreversible and can cause serious—but preventable—consequences for your fetus with Rh-positive blood.

Protecting your newborn from HDN

A key concern is that your baby could develop hemolytic disease of the newborn (HDN). This condition can cause liver, spleen, or heart problems. To prevent this risk to your child, and any future children you may have, your doctor may recommend treating you with Rhophylac, an anti-D Rh immune globulin (RhIg). Rhophylac is made by CSL Behring, a company with more than 40 years of experience manufacturing these therapies to prevent serious complications from Rh-incompatible pregnancies.

Important Safety Information

You should not receive Rhophylac if you have had a previous serious allergic reaction to Rhophylac or other human blood products. It should not be given if your blood has an insufficient quantity of a protein called IgA, has produced antibodies to IgA, or you have known hypersensitivity to IgA. Your physician will do a blood test to assess your situation regarding IgA.

Please see full Important Safety Information on back cover and enclosed full prescribing information for Rhophylac, which includes a boxed warning that does not apply to use of Rhophylac in pregnancy or in cases of incompatible transfusions.

How Rh sensitization can affect your pregnancy

Having Rh-negative blood poses no health risk to you. There is also little risk of it causing complications for your baby during a first pregnancy if you have not been previously Rh sensitized. However, it is possible for a first-time mother who has Rh-negative blood to become sensitized if her blood mixes with Rh-positive blood cells from her baby. This often happens during childbirth, though it can happen earlier in the pregnancy as well. After becoming sensitized, future pregnancies may also be affected.



Rhophylac helps protect your baby

Treatment with Rhophylac can prevent your baby from getting HDN with its risks for liver, spleen, or heart problems. Rhophylac is a sterile human plasma product that helps clear Rh-positive blood from your bloodstream before your body can develop antibodies that could harm your unborn baby.

Your doctor will decide if Rhophylac is right for you

You should not be given Rhophylac if:

- You have had a previous serious allergic reaction to Rhophylac or other human blood products
- You lack a specific protein in your blood, known as IgA, and have had allergic reactions

Important Safety Information

Rhophylac is made from donated human blood. The risk of transmission of infections agents, including viruses, cannot be completely eliminated.

Please see full Important Safety Information on back cover and enclosed full prescribing information for Rhophylac, which includes a boxed warning that does not apply to use of Rhophylac in pregnancy or in cases of incompatible transfusions.



How Rhophylac is given

Your doctor will determine how many doses of Rhophylac you will need, as well as when you will receive them, whether during pregnancy or after you deliver. Rhophylac can be given as an injection into a muscle or via an intravenous line into a vein. Your doctor will decide what's best for you.

Rhophylac following an incomplete pregnancy

Rhophylac may be recommended if you've had a miscarriage or abortion. This is because the fetus will likely have started producing red blood cells at about 8 weeks, so sensitization is already possible.

Safety of Rhophylac

Rhophylac is made from human plasma, so the risk that viruses might be transmitted cannot be completely eliminated. However, CSL Behring, the maker of Rhophylac, goes to great lengths to reduce this risk. Rhophylac is produced using plasma exclusively from donors who are screened and healthy. Additionally, the unique manufacturing process for Rhophylac includes several steps that kill and remove viruses that may have been present.

Possible allergic reactions

Many medications, including Rhophylac, can cause allergic reactions in some people. If you experience symptoms such as hives, itchy welts, tightness of the chest, and/or wheezing, tell your doctor immediately. These may be symptoms of hypersensitivity and therefore, Rhophylac should be discontinued. Your doctor will recommend appropriate treatment.

Regarding other medications you might be taking

Tell your doctor about any recent vaccinations you have had, as Rhophylac can lessen their effectiveness. Depending on the type of vaccine, you may need to repeat it later. Your doctor will advise you if this is necessary.



Other side effects that might occur

If you're given Rhophylac as an injection, you may notice some temporary pain or tenderness at the injection site. Regardless of how you are given Rhophylac, you may experience some mild and temporary side effects, such as fever, overall discomfort or uneasiness, headache, hives, welts, and/or chills.

These are just some of the possible side effects, so please tell your doctor about any symptoms you notice, especially ones that don't improve. Be sure to see the full prescribing information for Rhophylac and the Important Safety Information on the back.



Important Safety Information

Immunoglobulin administration can transiently interfere with your response to live vaccines, such as measles, mumps and rubella. (Note that most influenza vaccines are not "live" vaccines.) Tell your doctor if you plan to receive a vaccine after receiving Rhophylac.

Please see full Important Safety Information on back cover and enclosed full prescribing information for Rhophylac, which includes a boxed warning that does not apply to use of Rhophylac in pregnancy or in cases of incompatible transfusions.

Important Safety Information

Rhophylac®, Rh₀(D) Immune Globulin Intravenous (Human), is a blood-derived injection given to women with an Rh-negative who might have an incompatible pregnancy—that is, who may be carrying an unborn child with Rh-positive blood. If a woman in such a pregnancy is not treated, the result could be “isoimmunization,” a condition in which the mother’s Rh-negative blood produces antibodies that could attack the unborn child’s Rh-positive blood cells, potentially creating serious health problems for the unborn child and any future children of the mother.

Rhophylac is given by physicians as routine protection against immunization, typically as administration during pregnancy, often with readministration within 72 hours following childbirth. It is also given in cases of obstetric complications, invasive procedures during pregnancies, incomplete pregnancies, and obstetric manipulative procedures in certain non-pregnant women. Rhophylac is also used in Rh-negative individuals who have received blood components containing Rh(D)-positive red blood cells. For suppression of Rh isoimmunization, Rhophylac can be administered intravenously or intramuscularly, but must not be given to newborn infant.

You should not receive Rhophylac if you have had a previous serious allergic reaction to Rhophylac or other human blood products. It should not be given if your blood has an insufficient quantity of a protein called IgA, has produced antibodies to IgA, or you have known hypersensitivity to IgA. Your physician will do a blood test to assess your situation regarding IgA.

Some women have experienced mild and temporary actions after receiving Rhophylac, such as fever; overall discomfort or uneasiness; headache; skin reactions (like hives or welts); and chills. If you received Rhophylac as a shot (intramuscularly), you could experience pain or tenderness at the injection site. Adverse reactions to Rhophylac typically do not last long. Discuss with your doctor any reaction or symptom you experience after administration of Rhophylac that concerns you.

Rhophylac is made from donated human blood. The risk of transmission of infectious agents, including viruses, cannot be completely eliminated.

Immunoglobulin administration can transiently interfere with your response to live vaccines, such as measles, mumps and rubella. (Note that most influenza vaccines are not “live” vaccines.) Tell your doctor if you plan to receive a vaccine after receiving Rhophylac.

Please see enclosed full prescribing information for Rhophylac, which includes a boxed warning that does not apply to use of Rhophylac in pregnancy or in cases of incompatible transfusions.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.

You can also report side effects to CSL Behring’s Pharmacovigilance Department at 1-866-915-6958.

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CSL Behring

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use RHOPHYLAC safely and effectively. See full prescribing information for RHOPHYLAC.

RHOPHYLAC®
Rh₀(D) Immune Globulin Intravenous (Human) 1500 IU (300 mcg)
Solution for Intravenous (IV) or Intramuscular (IM) Injection
Initial U.S. Approval: 2004

WARNING: INTRAVASCULAR HEMOLYSIS IN ITP

See full prescribing information for complete boxed warning. This warning does not apply to Rh(D)-negative patients treated for the suppression of Rh isoimmunization.

- Intravascular hemolysis leading to death has been reported in Rh(D)-positive patients treated for immune thrombocytopenic purpura (ITP) with Rh(D) Immune Globulin Intravenous (Human) products.
- Intravascular hemolysis can lead to clinically compromising anemia and multisystem organ failure including acute respiratory distress syndrome (ARDS), acute renal insufficiency, renal failure, and disseminated intravascular coagulation (DIC).
- Monitor patients for signs and symptoms of intravascular hemolysis in a healthcare setting for at least 8 hours after administration.

-----**RECENT MAJOR CHANGES**-----
Dosage and Administration (2.2) 12/2020

-----**INDICATIONS AND USAGE**-----
RHOPHYLAC is an Rh(D) Immune Globulin Intravenous (Human) indicated for:
Suppression of Rhesus (Rh) Isoimmunization (1.1) in:
• Pregnancy and obstetric conditions in non-sensitized, Rh(D)-negative women with an Rh-incompatible pregnancy, including:
o Routine antepartum and postpartum Rh prophylaxis
o Rh prophylaxis in obstetric complications or invasive procedures
• Incompatible transfusions in Rh(D)-negative individuals transfused with blood components containing Rh(D)-positive red blood cells (RBCs)
Immune Thrombocytopenic Purpura (ITP) (1.2)
• Raising platelet counts in Rh(D)-positive, non-splenectomized adults with chronic ITP.

-----**DOSAGE AND ADMINISTRATION**-----
DO NOT confuse micrograms (mcg) with International Units (IU) when calculating the dose. Miscalculations could result in overdose or underdose.
Suppression of Rh Isoimmunization (2.2) (IV or IM administration only)

Indication	Timing	Dose* (1 mcg = 5 IU)	
Rh-incompatible Pregnancy:		mcg	IU
Routine antepartum prophylaxis	Week 28-30 of pregnancy	300 mcg	1500 IU
Postpartum prophylaxis (required only if the newborn is Rh(D)-positive, or of unknown status)	Within 72 hours of birth	300 mcg†	1500 IU
Obstetric complications/ invasive procedures	Within 72 hours of complication / procedure	300 mcg†	1500 IU

Excessive fetomaternal hemorrhage (>15 mL fetal RBCs)	Within 72 hours of complication	300 mcg plus: 20 mcg per mL RhD-positive fetal RBCs in excess of 15 mL if excess transplacental bleeding is quantified, or An additional 300 mcg if excess transplacental bleeding cannot be quantified	1500 IU plus: 100 IU per mL RhD-positive fetal RBCs in excess of 15 mL if excess transplacental bleeding is quantified, or An additional 1500 IU if excess transplacental bleeding cannot be quantified
Incompatible transfusions	Within 72 hours of exposure	20 mcg per 2 mL transfused Rh(D)-positive whole blood or per 1 mL Rh(D)-positive RBCs	100 IU per 2 mL Rh(D)-positive whole blood or blood or per 1 mL Rh(D)-positive RBCs

* A 1500 IU (300 mcg) dose will suppress the immunizing potential of ≤15 mL of Rh(D)-positive RBCs.¹
† The dose of must be increased if the patient is exposed to >15 mL of Rh(D)-positive RBCs; in this case, follow the dosing guidelines for excessive fetomaternal hemorrhage.

Treatment of ITP (2.2) (IV administration only)

Dose (mcg)	Rate of administration
50 mcg per kg body weight	2 mL per 15 to 60 seconds

-----**DOSAGE FORMS AND STRENGTHS**-----
1500 IU (300 mcg) per 2 mL single-dose, prefilled ready-to-use glass syringe (3)
-----**CONTRAINDICATIONS**-----
• History of anaphylactic or severe systemic reaction to human immune globulin products (4)
• IgA deficient patients with antibodies against IgA and a history of hypersensitivity to RHOPHYLAC or any of its components (4)
• Do not administer to the newborn infant of the mother that received RHOPHYLAC postpartum (4).
-----**WARNINGS AND PRECAUTIONS**-----
• Hypersensitivity: Severe hypersensitivity and anaphylactic reactions may occur (5.1).
• Transmissible Infectious Agents: Potential of viruses and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent (5.3).
• Intravascular Hemolysis in ITP Treatment: Monitor patients for signs and symptoms and perform confirmatory laboratory tests (5.4).
• Pre-existing Anemia in ITP Treatment: RHOPHYLAC may increase the severity of anemia (5.5).

-----**ADVERSE REACTIONS**-----
Suppression of Rh Isoimmunization: Most common adverse reactions in ≥0.5% of subjects are nausea, dizziness, headache, injection-site pain, and malaise (6.1).
ITP: Most common adverse reactions reported in >14% of subjects are chills, pyrexia/ increased body temperature, headache, and hemolysis (increased bilirubin, decreased hemoglobin, or decreased haptoglobin) (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact CSL Behring Pharmacovigilance at 1-866-915-6958 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----**DRUG INTERACTIONS**-----
Immunoglobulin administration may transiently interfere with the immune response to live virus vaccines, such as measles, mumps and rubella (7.1).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: December 2020

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FULL PRESCRIBING INFORMATION

RHOPHYLAC®

Rh₀(D) Immune Globulin Intravenous (Human)

WARNING: INTRAVASCULAR HEMOLYSIS IN ITP

This warning does not apply to Rh(D)-negative patients treated for the suppression of Rh isoimmunization.

- Intravascular hemolysis leading to death has been reported in Rh(D)-positive patients treated for immune thrombocytopenic purpura (ITP) with Rh(D) Immune Globulin Intravenous (Human) products.
- Intravascular hemolysis can lead to clinically compromising anemia and multi-system organ failure including acute respiratory distress syndrome (ARDS), acute renal insufficiency, renal failure, and disseminated intravascular coagulation (DIC).
- Monitor patients treated for signs and symptoms of hemolysis in a healthcare setting for at least 8 hours after administration. Perform a dipstick urinalysis at baseline, 2 hours and 4 hours after administration, and prior to the end of the monitoring period. Alert patients to, and monitor them for back pain, shaking chills, fever, and discolored urine or hematuria. Absence of these signs and/or symptoms within 8 hours does not indicate IVH cannot occur subsequently. If signs and/or symptoms of intravascular hemolysis are present or suspected after RHOPHYLAC administration, perform post-treatment laboratory tests, including plasma hemoglobin, haptoglobin, LDH, and plasma bilirubin (direct and indirect).

1 INDICATIONS AND USAGE

RHOPHYLAC is a Rh(D) Immune Globulin Intravenous (Human) (anti-D) product that is indicated for the suppression of Rh isoimmunization in non-sensitized Rh(D)-negative patients and for the treatment of immune thrombocytopenic purpura (ITP) in Rh(D)-positive patients.

1.1 Suppression of Rh Isoimmunization

Pregnancy and Obstetric Conditions

RHOPHYLAC is indicated for suppression of rhesus (Rh) isoimmunization in non-sensitized Rh(D)-negative women with an Rh-incompatible pregnancy, including:

- Routine antepartum and postpartum Rh prophylaxis
- Rh prophylaxis in cases of:
 - Obstetric complications (e.g., miscarriage, abortion, threatened abortion, ectopic pregnancy or hydatidiform mole, transplacental hemorrhage resulting from antepartum hemorrhage)
 - Invasive procedures during pregnancy (e.g., amniocentesis, chorionic biopsy) or obstetric manipulative procedures (e.g., external version, abdominal trauma)

An Rh-incompatible pregnancy is assumed if the fetus/baby is either Rh(D)-positive or Rh(D)-unknown or if the father is either Rh(D)-positive or Rh(D)-unknown.

Incompatible Transfusions

RHOPHYLAC is indicated for the suppression of Rh isoimmunization in Rh(D)-negative individuals transfused with Rh(D)-positive red blood cells (RBCs) or blood components containing Rh(D)-positive RBCs.

Treatment can be given without a preceding exchange transfusion when the transfused blood represents less than 20% of the total circulating RBCs. If the volume exceeds 20%, an exchange transfusion should be considered prior to administering RHOPHYLAC.

1.2 ITP

RHOPHYLAC is indicated in Rh(D)-positive, non-splenectomized adult patients with chronic ITP to raise platelet counts.

2 DOSAGE AND ADMINISTRATION

Observe patients for at least 20 minutes following administration of RHOPHYLAC.

2.1 Preparation and Handling

- RHOPHYLAC is a clear or slightly opalescent, colorless to pale yellow solution. Inspect RHOPHYLAC visually for particulate matter and discoloration prior to administration. Do not use if the solution is cloudy or contains particulates.
- Prior to intravenous use, ensure that the needle-free intravenous administration system is compatible with the tip of the RHOPHYLAC glass syringe.
- Do not freeze.
- Bring RHOPHYLAC to room temperature before use.
- RHOPHYLAC is for single dose only. Dispose of any unused product or waste material in accordance with local requirements.

2.2 Administration

DO NOT confuse micrograms (mcg) with International Units (IU) when calculating the dose of RHOPHYLAC. Miscalculations could result in a significant overdose or underdose of the product. Note that 1 mcg = 5 IU of RHOPHYLAC.

Suppression of Rh Isoimmunization

RHOPHYLAC should be administered by intravenous or intramuscular injection. If large doses (greater than 5 mL) are required and intramuscular injection is chosen, it is advisable to administer RHOPHYLAC in divided doses at different sites.

Ensure the site of administration will allow the injection to reach the muscle if RHOPHYLAC is administered intramuscularly. Consider intravenous administration if reaching the muscle is of concern [see *Adverse Reactions* (6.2)]. Do not administer RHOPHYLAC subcutaneously into the fatty tissue.

Refer to Table 1 (for dosing instructions in micrograms) and Table 2 (for dosing instructions in International Units) by indication.

Table 1. Dosing Guidelines based on Micrograms (mcg) for Suppression of Rh Isoimmunization

MICROGRAMS (mcg)		
Indication	Timing of Administration	Dose* (Administer by intravenous (IV) or intramuscular (IM) injection)
Rh-incompatible pregnancy		
Routine antepartum prophylaxis	Week 28-30 of pregnancy	300 mcg
Postpartum prophylaxis (required only if the newborn is Rh(D)-positive or of unknown status)	Within 72 hours of birth	300 mcg [†]
Obstetric complications (e.g., miscarriage, abortion, threatened abortion, ectopic pregnancy or hydatidiform mole, transplacental hemorrhage resulting from antepartum hemorrhage)	Within 72 hours of complication	300 mcg [†]
Invasive procedures during pregnancy (e.g., amniocentesis, chorionic biopsy) or obstetric manipulative procedures (e.g., external version, abdominal trauma)	Within 72 hours of procedure	300 mcg [†]
Excessive fetomaternal hemorrhage (>15 mL fetal RBCs)	Within 72 hours of complication	300 mcg <i>plus</i> : • 20 mcg per mL Rh(D)-positive fetal RBCs in excess of 15 mL if excess transplacental bleeding is quantified or • An additional 300 mcg dose if excess transplacental bleeding cannot be quantified
Incompatible transfusions	Within 72 hours of exposure	20 mcg per 2 mL transfused Rh(D)-positive whole blood or per 1 mL Rh(D)-positive RBCs

* A 300 mcg dose of RHOPHYLAC will suppress the immunizing potential of ≤15 mL of fetal Rh(D)-positive RBCs.[†]

[†] The dose of RHOPHYLAC must be increased if the patient is exposed to >15 mL of fetal Rh(D) positive RBCs; in this case, follow the dosing guidelines for excessive fetomaternal hemorrhage.

Table 2. Dosing Guidelines based on International Units (IU) for Suppression of Rh Isoimmunization

INTERNATIONAL UNITS (IU)		
Indication	Timing of Administration	Dose* (Administer by intravenous (IV) or intramuscular (IM) injection)
Rh-incompatible pregnancy		
Routine antepartum prophylaxis	At Week 28-30 of pregnancy	1500 IU
Postpartum prophylaxis (required only if the newborn is Rh(D)-positive or of unknown status)	Within 72 hours of birth	1500 IU [†]
Obstetric complications (e.g., miscarriage, abortion, threatened abortion, ectopic pregnancy or hydatidiform mole, transplacental hemorrhage resulting from antepartum hemorrhage)	Within 72 hours of complication	1500 IU [†]
Invasive procedures during pregnancy (e.g., amniocentesis, chorionic biopsy) or obstetric manipulative procedures (e.g., external version, abdominal trauma)	Within 72 hours of procedure	1500 IU [†]
Excessive fetomaternal hemorrhage (>15 mL fetal RBCs)	Within 72 hours of complication	1500 IU <i>plus</i> : • 100 IU per mL fetal RBCs in excess of 15 mL if excess transplacental bleeding is quantified or • An additional 1500 IU dose if excess transplacental bleeding cannot be quantified
Incompatible transfusions	Within 72 hours of exposure	100 IU per 2 mL transfused Rh(D)-positive whole blood or per 1 mL RBCs

* A 1500 IU dose of RHOPHYLAC will suppress the immunizing potential of ≤15 mL of fetal Rh(D)-positive RBCs.[†]

[†] The dose of RHOPHYLAC must be increased if the patient is exposed to >15 mL of Rh(D)-positive fetal Rh(D)-positive RBCs; in this case, follow the dosing guidelines for excessive fetomaternal hemorrhage.

Treatment of ITP

For treatment of ITP, **ADMINISTER RHOPHYLAC BY THE INTRAVENOUS ROUTE ONLY** [see *Dosage and Administration* (2.1)]. **Do not administer intramuscularly.** Calculate the dose of RHOPHYLAC for ITP on the basis of the patient's weight in kilograms (kg). Inappropriate use of pounds (lbs) will result in an overdose.

Table 3. Dosing Guidelines for ITP

Dose (mcg)	Rate of administration
50 mcg per kg body weight	2 mL per 15 to 60 seconds

mcg = microgram

The following formula can be used to calculate the number of syringes of RHOPHYLAC to administer:
Dose (50 mcg) x body weight (kg) = Total mcg / 300 mcg per syringe = Number of syringes

3 DOSAGE FORMS AND STRENGTHS

1500 IU (300 mcg) per 2 mL single-dose, prefilled, ready-to-use, glass syringe for IV or IM use

4 CONTRAINDICATIONS

RHOPHYLAC is contraindicated in:

- patients who have had an anaphylactic or severe systemic reaction to the administration of human immune globulin,
- IgA-deficient patients with antibodies to IgA and a history of hypersensitivity to RHOPHYLAC or any of its components.
- the newborn infant of a mother that received RHOPHYLAC postpartum.

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity

Severe hypersensitivity reactions may occur even in patients who have tolerated previous administrations. If symptoms of allergic or early signs of hypersensitivity reactions (including generalized urticaria, tightness of the chest, wheezing, hypotension, and anaphylaxis) occur, discontinue RHOPHYLAC administration immediately and institute appropriate treatment. Medications such as epinephrine should be available for immediate treatment of acute hypersensitivity reactions.

RHOPHYLAC contains trace amounts of IgA (less than 5 mcg/mL) [see *Description* (1.1)]. Patients with known antibodies to IgA have a risk of developing potentially severe hypersensitivity and anaphylactic reactions. RHOPHYLAC is contraindicated in patients with antibodies against IgA and a history of hypersensitivity reactions to RHOPHYLAC or any of its components [see *Contraindications* (4)].

5.2 Interference with Laboratory Tests

The administration of Rh(D) immune globulin may affect the results of blood typing, the antibody screening test, and the direct antiglobulin (Coombs') test. Antepartum administration of Rh(D) immune globulin to the mother can also affect these tests in the newborn infant. RHOPHYLAC can contain antibodies to other Rh antigens (e.g., anti-C antibodies), which might be detected by sensitive serological tests following administration.

5.3 Transmissible Infectious Agents

Because RHOPHYLAC is made from human blood, it may carry a risk of transmitting infectious agents, e.g., viruses and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. The risk of infectious agent transmission has been reduced by screening plasma donors for prior exposure to certain viruses, testing for the presence of certain current virus infections, and including virus inactivation/removal steps in the manufacturing process for RHOPHYLAC. Report any infections thought to be possibly transmitted by RHOPHYLAC to CSL Behring Pharmacovigilance at 1-866-915-6958.

5.4 Intravascular Hemolysis in ITP Treatment

Serious intravascular hemolysis has occurred in a clinical study with RHOPHYLAC. All cases resolved completely. However, as reported in the literature, some Rh(D)-positive patients treated with Rh(D) Immune Globulin Intravenous (Human) for ITP developed clinically compromising anemia, acute renal insufficiency, and, very rarely, disseminated intravascular coagulation (DIC) and death.² **Note:** This warning does not apply to Rh(D)-negative patients treated for the suppression of Rh isoimmunization.

Monitor patients in a healthcare setting for at least 8 hours after administration of RHOPHYLAC. Perform a dipstick urinalysis at baseline, 2 hours and 4 hours after administration, and prior to the end of the monitoring period.

Alert patients to, and monitor them for, the signs and symptoms of intravascular hemolysis, including back pain, shaking chills, fever, and discolored urine or hematuria. Absence of these signs and/or symptoms of intravascular hemolysis within 8 hours do not indicate intravascular hemolysis cannot occur subsequently.

If signs and/or symptoms of intravascular hemolysis are present or suspected after RHOPHYLAC administration, perform post-treatment laboratory tests, including plasma hemoglobin, haptoglobin, LDH, and plasma bilirubin (direct and indirect). DIC may be difficult to detect in the ITP population; the diagnosis is dependent mainly on laboratory testing.

If patients who develop hemolysis with clinically compromising anemia after receiving RHOPHYLAC are to be transfused, Rh(D)-negative packed RBCs should be used to avoid exacerbating ongoing hemolysis.

5.5 Pre-existing Anemia in ITP Treatment

The safety of RHOPHYLAC in the treatment of ITP has not been established in patients with pre-existing anemia. RHOPHYLAC may increase the severity of anemia.

6 ADVERSE REACTIONS

The most serious adverse reactions in patients receiving Rh(D) Immune Globulin Intravenous (Human) have been observed in the treatment of ITP and include intravascular hemolysis, clinically compromising anemia, acute renal insufficiency, and, very rarely, DIC and death [see *Boxed Warning*, and *Warnings and Precautions* (5.4)].²

The most common adverse reactions observed in the use of RHOPHYLAC for suppression of Rh isoimmunization (≥0.5% of subjects) are nausea, dizziness, headache, injection-site pain, and malaise.

The most common adverse reactions observed in the treatment of ITP (>14% of subjects) are chills, pyrexia/increased body temperature, and headache. Hemolysis (manifested by an increase in bilirubin, a decrease in hemoglobin, or a decrease in haptoglobin) was also observed.

6.1 Clinical Trials Experience

Because clinical studies are conducted under different protocols and widely varying conditions, adverse reaction rates observed cannot be directly compared to rates in other clinical trials and may not reflect the rates observed in practice.

Suppression of Rh Isoimmunization

In two clinical studies, 447 Rh(D)-negative pregnant women received either an intravenous or intramuscular injection of RHOPHYLAC 1500 IU (300 mcg) at Week 28 of gestation. A second 1500 IU (300 mcg) dose was administered to 267 (9 in Study 1 and 258 in Study 2) of these women within 72 hours of the birth of an Rh(D)-positive baby. In addition, 30 women in Study 2 received at least one extra antepartum 1500 IU (300 mcg) dose due to obstetric complications [see *Clinical Studies* (14.1)].

The most common adverse reactions in study subjects were nausea (0.7%), dizziness (0.5%), headache (0.5%), injection-site pain (0.5%), and malaise (0.5%). A laboratory finding of a transient positive anti-C antibody test was observed in 0.9% of subjects.

ITP

In a clinical study, 98 Rh(D)-positive adult subjects with chronic ITP received an intravenous dose of RHOPHYLAC 250 IU (50 mcg) per kg body weight [see *Clinical Studies* (14.2)]. Premedication to alleviate infusion-related side effects was not used except in a single subject who received acetaminophen and diphenhydramine.

Sixty-nine (70.4%) subjects had 186 adverse events. Within 24 hours of dosing, 73 (74.5%) subjects experienced 183 Treatment Emergent Adverse Events, and 66 (67%) subjects experienced 156 adverse reactions.

Hemolysis (manifested as an increase in bilirubin, a decrease in hemoglobin, or a decrease in haptoglobin) was observed. An increase in blood bilirubin was seen in 21% of subjects. The median decrease in hemoglobin was greatest (0.8 g/dL) at Day 6 and Day 8 following administration of RHOPHYLAC.

Table 4 shows the most common adverse reactions observed in the clinical study.

Table 4. Most Common Treatment-Emergent Adverse Reactions in Subjects with ITP (Occurring in ≥10% of Subjects)

TEAR	Number of Subjects (%) With a TEAR n=98
Chills	34 (34.7%)
Pyrexia/ Increased body temperature	30 (30.6%)
Increased blood bilirubin	21 (21.4%)
Headache	11 (11.2%)

Serious adverse reactions (SARs) were reported in 4 (4.1%) subjects. SARs were intravascular hemolytic reaction (hypotension, nausea, chills and headache, and a decrease in haptoglobin and hemoglobin) in two subjects; headache, dizziness, nausea, pallor, shivering, and weakness requiring hospitalization in one subject; and an increase in blood pressure and severe headache in one subject. All four subjects recovered completely.

6.2 Postmarketing Experience

Because postmarketing adverse reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to product exposure. The following adverse reactions have been identified during post-approval use of RHOPHYLAC:

Suppression of Rh Isoimmunization

Hypersensitivity reactions, including rare cases of anaphylactic shock or anaphylactoid reactions, headache, dizziness, vertigo, hypotension, tachycardia, dyspnea, nausea, vomiting, rash, erythema, pruritus, chills, pyrexia, malaise, diarrhea and back pain have been reported. Transient injection-site irritation and pain have been observed following intramuscular administration.

There have been reports of lack of effect in patients with a body mass index ≥30 when administration via the intramuscular route was attempted [see *Dosing and Administration* (2.2)].

ITP

Transient hemoglobinuria has been reported in a patient being treated with RHOPHYLAC for ITP.

7 DRUG INTERACTIONS

7.1 Live Virus Vaccines

Passive transfer of antibodies may transiently impair the immune response to live attenuated

virus vaccines such as measles, mumps, rubella, and varicella [see Patient Counseling Information (17)]. Do not immunize with live vaccines within 3 months after the final dose of RHOPHYLAC. If RHOPHYLAC is administered within 14 days after administration of a live vaccine, the immune response to the vaccination may be inhibited.³

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Animal reproduction studies have not been conducted with RHOPHYLAC.

Suppression of Rh Isoimmunization

RHOPHYLAC is used in pregnant women for the suppression of Rh isoimmunization. When administered to pregnant women in a clinical trial to evaluate RHOPHYLAC for suppression of Rh isoimmunization [see Clinical Studies (14.1)] following dosing regimens similar to Table 1 or 2 [see Dosage and Administration (2.2)], RHOPHYLAC was not shown to harm the fetus or newborn.¹¹ In general, anti-D immunoglobulins have been shown to not harm the fetus or affect future pregnancies or reproduction capacity when given to pregnant Rh(D)-negative women for suppression of Rh isoimmunization.⁴

ITP

RHOPHYLAC has not been evaluated in pregnant women with ITP. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

8.2 Lactation

Risk Summary

There is no information regarding the presence of RHOPHYLAC in human milk, the effect on the breastfed infant, and the effects on milk production. The development and health benefits of breastfeeding should be considered along with the mother's clinical need for RHOPHYLAC and any potential adverse effects on the breastfed child from RHOPHYLAC or from the underlying maternal condition.

Suppression of Rh Isoimmunization

RHOPHYLAC is used in nursing mothers for the suppression of Rh isoimmunization.

ITP

RHOPHYLAC has not been evaluated in nursing mothers with ITP.

8.4 Pediatric Use

Suppression of Rh Isoimmunization in Incompatible Transfusions

The safety and effectiveness of RHOPHYLAC have not been established in pediatric subjects being treated for an incompatible transfusion. The physician should weigh the potential risks against the benefits of RHOPHYLAC, particularly in girls whose later pregnancies may be affected if Rh isoimmunization occurs.

Chronic ITP

The safety and effectiveness of RHOPHYLAC have not been established in pediatric subjects with chronic ITP. Dosing in the treatment of children with chronic ITP is expected to be similar to adults.

8.5 Geriatric Use

Suppression of Rh Isoimmunization in Incompatible Transfusions

RHOPHYLAC has not been evaluated for treating incompatible transfusions in subjects 65 years of age and older.

ITP

Of the 98 subjects evaluated in the clinical study of RHOPHYLAC for treatment of ITP [see Clinical Studies (14.2)], 19% were 65 years of age and older. No overall differences in effectiveness or safety were observed between these subjects and younger subjects.

10 OVERDOSAGE

During clinical trials, there were no reports of known overdoses in patients being treated for suppression of Rh isoimmunization or ITP. In postmarketing reporting, there have been a limited number of overdose reports including medication error reports related to dosage calculations in which higher doses than that recommended for RHOPHYLAC were administered potentially due to confusion between mcg and international units (IU). In these reports there were no adverse reactions identified due to overdose. Patients with incompatible transfusion or ITP who receive an overdose of Rh(D) immune globulin should be monitored because of the potential risk for hemolysis.

11 DESCRIPTION

RHOPHYLAC is a sterile Rh(D) Immune Globulin Intravenous (Human) (anti-D) solution in a ready-to-use prefilled glass syringe for intravenous or intramuscular injection. One syringe contains at least 1500 IU (300 mcg) of IgG antibodies to Rh(D) in a 2 mL solution, sufficient to suppress the immune response to at least 15 mL of Rh(D)-positive RBCs.¹ The product potency is expressed in IUs by comparison to the World Health Organization (WHO) standard, which is also the US and the European Pharmacopoeia standard. Plasma is obtained from healthy Rh(D)-negative donors who have been immunized with Rh(D)-positive RBCs. The donors are screened carefully to reduce the risk of receiving donations containing blood-borne pathogens. Each plasma donation used in the manufacture of RHOPHYLAC is tested for the presence of HBV surface antigen (HBsAg), HIV-1/2, and HCV antibodies. In addition, plasma used in the manufacture of RHOPHYLAC is tested by FDA-licensed Nucleic Acid Testing (NAT) for HBV, HCV, and HIV-1 and found to be negative. The source plasma is also tested by NAT for hepatitis A virus (HAV) and B19 virus (B19V).

RHOPHYLAC is produced by an ion-exchange chromatography isolation procedure⁵, using pooled plasma obtained by plasmapheresis of immunized Rh(D)-negative US donors. The manufacturing process includes a solvent/detergent treatment step (using tri-n-butyl phosphate and Triton™ X-100) that is effective in inactivating enveloped viruses such as HIV, HCV, and HBV.^{6,7} RHOPHYLAC is filtered using a Planova® 15 nanometer (nm) virus filter that has been validated to be effective in removing both enveloped and non-enveloped viruses. Table 5 presents viral clearance and inactivation data from validation studies, expressed as the mean log₁₀ reduction factor (LRF).

Table 5. Virus Inactivation and Removal in RHOPHYLAC

	HIV	PRV	BVDV	MVM
Virus property				
Genome	RNA	DNA	RNA	DNA
Envelope	Yes	Yes	Yes	No
Size (nm)	80-100	120-200	40-70	18-24
Manufacturing step	Mean LRF			
Solvent/detergent treatment	≥6.0	≥5.6	≥5.4	Not tested
Chromatographic process steps	4.5	≥3.9	1.6	≥2.6
Virus filtration	≥6.3	≥5.6	≥5.5	3.4
Overall reduction (log₁₀ units)	≥16.8	≥15.1	≥12.5	≥6.0

HIV, a model for HIV-1 and HIV-2; PRV, pseudorabies virus, a model for large, enveloped DNA viruses (e.g., herpes virus); BVDV, bovine viral diarrhea virus, a model for HCV and West Nile virus; MVM, minute virus of mice, a model for B19V and other small, non-enveloped DNA viruses.

RHOPHYLAC contains a maximum of 30 mg/mL of human plasma proteins, 10 mg/mL of which is human albumin added as a stabilizer. Prior to the addition of the stabilizer, RHOPHYLAC has a purity greater than 95% IgG. RHOPHYLAC contains less than 5 mcg/mL of IgA, which is the limit of detection. Additional excipients are approximately 20 mg/mL of glycine and up to 0.25 M of sodium chloride. RHOPHYLAC contains no preservative. Human albumin is manufactured from pooled plasma of US donors by cold ethanol fractionation, followed by pasteurization.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Suppression of Rh Isoimmunization

The mechanism by which Rh(D) immune globulin suppresses immunization to Rh(D)-positive RBCs is not completely known.

In a clinical study of Rh(D)-negative healthy male volunteers, both the intravenous and intramuscular administration of a 1500 IU (300 mcg) dose of RHOPHYLAC 24 hours after injection of 15 mL of Rh(D)-positive RBCs resulted in an effective clearance of Rh(D)-positive RBCs. On average, 99% of injected RBCs were cleared within 12 hours following intravenous administration and within 144 hours following intramuscular administration.

ITP

ITP RHOPHYLAC has been shown to increase platelet counts and to reduce bleeding in non-splenectomized Rh(D)-positive subjects with chronic ITP. The mechanism of action is thought to involve the formation of Rh(D) immune globulin RBC complexes, which are preferentially removed by the reticuloendothelial system, particularly the spleen. This results in Fc receptor blockade, thus sparing antibody-coated platelets.⁸

12.3 Pharmacokinetics

Suppression of Rh Isoimmunization

In a clinical study comparing the pharmacokinetics of intravenous versus intramuscular administration, 15 Rh(D)-negative pregnant women received a single 1500 IU (300 mcg) dose of RHOPHYLAC at Week 28 of gestation.⁹

Following intravenous administration, peak serum levels of Rh(D)-immune globulin ranged from 62 to 84 ng/mL after 1 day (i.e., the time the first blood sample was taken following the antepartum dose). Mean systemic clearance was 0.20 ± 0.03 mL/min, and half-life was 16 ± 4 days.

Following intramuscular administration, peak serum levels ranged from 7 to 46 ng/mL and were achieved between 2 and 7 days. Mean apparent clearance was 0.29 ± 0.12 mL/min, and half-life was 18 ± 5 days. The absolute bioavailability of RHOPHYLAC was 69%.

Regardless of the route of administration, Rh(D) immune globulin titers were detected in all women up to at least 9 weeks following administration of RHOPHYLAC.

ITP

Pharmacokinetic studies with RHOPHYLAC were not performed in Rh(D)-positive subjects with ITP. Rh(D) immune globulin binds rapidly to Rh(D)-positive erythrocytes.¹⁰

14 CLINICAL STUDIES

14.1 Suppression of Rh Isoimmunization

In two clinical studies, 447 Rh(D)-negative pregnant women received a 1500 IU (300 mcg) dose of RHOPHYLAC during Week 28 of gestation. The women who gave birth to an Rh(D)-positive baby received a second 1500 IU (300 mcg) dose within 72 hours of birth.

- Study 1 (Pharmacokinetic Study) – Eight of the women who participated in the pharmacokinetic study [see Clinical Pharmacology (12.3)] gave birth to an Rh(D)-positive baby and received the postpartum dose of 1500 IU (300 mcg) of RHOPHYLAC.⁹ Antibody tests performed 6 to 8 months later were negative for all women. This suggests that no Rh(D) immunization occurred.

- Study 2 (Pivotal Study) – In an open-label, single-arm clinical study at 22 centers in the US and United Kingdom, 432 pregnant women received the antepartum dose of 1500 IU (300 mcg) of RHOPHYLAC either as an intravenous or intramuscular injection (two randomized groups of 216 women each).¹¹ Subjects received an additional 1500 IU (300 mcg) dose if an obstetric complication occurred between the routine antepartum dose and birth or if extensive fetomaternal hemorrhage was measured after birth. Of the 270 women who gave birth to an Rh(D)-positive baby, 248 women were evaluated for Rh(D) immunization 6 to 11.5 months postpartum. None of these women developed antibodies against the Rh(D) antigen.

14.2 ITP

In an open-label, single-arm, multicenter study, 98 Rh(D)-positive adult subjects with chronic ITP and a platelet count of $30 \times 10^9/L$ or less were treated with RHOPHYLAC. Subjects received a single intravenous dose of 250 IU (50 mcg) per kg body weight. The primary efficacy endpoint was the response rate defined as achieving a platelet count of $\geq 30 \times 10^9/L$ as well as an increase of $>20 \times 10^9/L$ within 15 days after treatment with RHOPHYLAC. Secondary efficacy endpoints included the response rate defined as an increase in platelet counts to $\geq 50 \times 10^9/L$ within 15 days after treatment and, in subjects who had bleeding at baseline, the regression of hemorrhage defined as any decrease from baseline in the severity of overall bleeding status.

Table 6 presents the primary response rates for the intent-to-treat (ITT) and per-protocol (PP) populations.

Table 6. Primary Response Rates (ITT and PP Populations)

Analysis Population	No. Subjects	No. Responders	Primary Response Rate at Day 15	
			% Responders	95% Confidence Interval (CI)
ITT	98	65	66.3%	56.5%, 74.9%
PP	92	62	67.4%	57.3%, 76.1%

The primary efficacy response rate (ITT population) demonstrated a clinically relevant response to treatment, i.e., the lower bound of the 95% confidence interval (CI) was greater than the predefined response rate of 50%. The median time to platelet response was 3 days, and the median duration of platelet response was 22 days.

Table 7 presents the response rates by baseline platelet count for subjects in the ITT population.

Table 7. Response Rates by Baseline Platelet Count (ITT Population)

		Response Rates at Day 15	
Baseline Platelet count ($\times 10^9/L$)	Total No. Subjects	No. (%) Subjects Achieving a Platelet Count of $\geq 30 \times 10^9/L$ and an Increase of $>20 \times 10^9/L$	No. (%) Subjects With an Increase in Platelet Counts to $\geq 50 \times 10^9/L$
≤ 10	38	15 (39.5)	10 (26.3)
>10 to 20	28	22 (78.6)	17 (60.7)
>20 to 30	27	24 (88.9)	22 (81.5)
$>30^*$	5	4 (80.0)	5 (100.0)
Overall (all subjects)	98	65 (66.3)	54 (55.1)

* Reflects subjects with a platelet count of $\leq 30 \times 10^9/L$ at screening but $>30 \times 10^9/L$ immediately before treatment.

During the study, an overall regression of hemorrhage was seen in 44 (88%, 95% CI: 76% to 94%) of the 50 subjects with bleeding at baseline. The percentage of subjects showing a regression of hemorrhage increased from 20% at Day 2 to 64% at Day 15. There was no evidence of an association between the overall hemorrhage regression rate and baseline platelet count.

Approximately half of the 98 subjects in the ITT population had evidence of bleeding at baseline. Post-baseline, the percentage of subjects without bleeding increased to a maximum of 70.4% at Day 8.

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16 HOW SUPPLIED/STORAGE AND HANDLING

RHOPHYLAC 1500 IU (300 mcg) is supplied in packages of one or ten (10) single-dose, prefilled, ready-to-use, glass syringe(s), each containing 2 mL liquid for injection. Each syringe is accompanied by a SafetyGlide™ needle for intravenous or intramuscular use. Each product presentation includes a package insert and the following components:

Table 8. How Supplied

Presentation	Carton NDC Number	Components
1500 IU (300 mcg)	44206-300-01	<ul style="list-style-type: none"> Single-dose, prefilled 2 mL syringe [NDC 44206-300-90] SafetyGlide needle
1500 IU (300 mcg) Multipack	44206-300-10	<ul style="list-style-type: none"> Ten single-dose, prefilled 2 mL syringes [NDC 44206-300-90] Ten SafetyGlide needles

Storage and Handling

- DO NOT FREEZE.
- RHOPHYLAC contains no preservatives; do not store at room temperature.
- Store at 2 to 8°C (36 to 46°F) for a shelf life of 36 months from the date of manufacture, as indicated by the expiration date printed on the outer carton and syringe label.
- Keep RHOPHYLAC in its original carton to protect it from light.
- The RHOPHYLAC prefilled syringe is not made with natural rubber latex.**
- Discard any unused product and all used disposable supplies.

17 PATIENT COUNSELING INFORMATION

Please inform patients of the following:

- Immediately report the following signs and symptoms to their physician: hives, chest tightness, wheezing, hypotension, and anaphylaxis [see *Warnings and Precautions* (5.1)].
- RHOPHYLAC is made from human blood and may contain infectious agents that can cause disease (e.g., viruses and, theoretically, the CJD agent). Explain that the risk RHOPHYLAC may transmit an infectious agent has been reduced by screening all plasma donors, by testing the donated plasma for certain viruses, and by inactivating and/or removing certain viruses during manufacturing. Advise patients to report any symptoms that concern them and that may be related to viral infections [see *Warnings and Precautions* (5.3)].
- RHOPHYLAC may interfere with the response to live virus vaccines (e.g., measles, mumps, rubella, and varicella), and instruct them to notify their healthcare professional of this potential interaction when they are receiving vaccinations.
- Patients receiving the antepartum dose of RHOPHYLAC for suppression of Rh isoimmunization will need a second dose within 72 hours of birth if the baby's blood type is Rh-positive.
- Instruct patients being treated with RHOPHYLAC for ITP to immediately report symptoms of intravascular hemolysis, including back pain, shaking chills, fever, discolored urine, decreased urine output, sudden weight gain, edema, and/or shortness of breath [see *Warnings and Precautions* (5.4)].

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