

## **Remdesivir-Evapharma 100mg**

**Company Name:** Eva Pharma for Pharmaceuticals & Medical Appliances

**Trade Name:** Remdesivir –Evapharma

**Generic Name:** Remdesivir 100mg

**Composition:-** Each vial of 20 ml concentrated solution contains :

**Active ingredient:**

Remdesivir 100mg

**Inactive ingredients** : Betadex sulfobutyl ether sodium , sodium hydroxide ,hydrochloric acid and water for injection .

**Pharmaceutical Form:** Concentrate for solution for IV infusion.

### **This EUA is for the use of remdesivir to treat COVID-19 Remdesivir must be administered by intravenous (IV) infusion**

The optimal duration of treatment for COVID-19 is unknown. Under this EUA for remdesivir to treat COVID-19:

- The suggested dose for adults and pediatric patients weighing  $\geq 40$  kg requiring invasive mechanical ventilation and/or ECMO is a single loading dose of 200 mg infused intravenously over 30 to 120 minutes on Day 1 followed by once-daily maintenance doses of 100 mg infused intravenously over 30 to 120 minutes for 9 days (days 2 through 10).
  - The suggested dose for adults and pediatric patients weighing  $\geq 40$  kg not requiring invasive mechanical ventilation and/or ECMO is a single dose of 200 mg infused intravenously over 30 to 120 minutes on Day 1 followed by once-daily maintenance doses of 100 mg infused intravenously over 30 to 120 minutes for 4 days (days 2 through 5). If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).
- The suggested dose for pediatric patients with body weight between 3.5 kg and  $<40$  kg requiring invasive mechanical ventilation and/or ECMO is a single loading dose of remdesivir 5 mg/kg IV (infused over 30 to 120 min) on Day 1 followed by remdesivir 2.5 mg/kg IV (infused over 30 to 120 min) once daily for 9 days (days 2 through 10).
- The suggested dose for pediatric patients with body weight between 3.5 kg and  $<40$  kg not requiring invasive mechanical ventilation and/or ECMO is a single loading dose of remdesivir 5 mg/kg IV (infused over 30 to 120 min) on Day 1 followed by remdesivir 2.5 mg/kg IV (infused over 30 to 120 min) once daily for 4 days (days 2 through 5). If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).

Emergency Use Authorization (EUA) to permit the emergency use of the unapproved product remdesivir for treatment of suspected or laboratory confirmed coronavirus disease 2019 (COVID-19) in adults and children hospitalized with severe disease. Severe disease is defined as patients with an oxygen saturation (SpO<sub>2</sub>) ≤ 94% on room air or requiring supplemental oxygen or requiring mechanical ventilation or requiring extracorporeal membrane oxygenation (ECMO).

## **INSTRUCTIONS FOR ADMINISTRATION**

This section provides essential information on the unapproved use of remdesivir, an unapproved drug, to treat suspected or laboratory confirmed COVID-19 in adults and children hospitalized with severe disease under this EUA.

### **Contraindications**

Remdesivir is contraindicated in patients with known hypersensitivity to any ingredient of remdesivir.

### **Dosing**

#### Treatment Initiation and Dosing Regimens

- Empiric treatment of hospitalized patients with suspected COVID-19 can be considered pending laboratory confirmation of SARS-CoV-2 infection.
- A treatment course of 10 days is recommended for adults and pediatric patients requiring invasive mechanical ventilation and/or extracorporeal membrane oxygenation.
- A treatment course of 5 days is recommended for adults and pediatric patients not requiring invasive mechanical ventilation and/or ECMO. If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).
- Remdesivir can be used at any time after onset of symptoms in hospitalized patients.
- All patients must have an estimated glomerular filtration rate (eGFR) determined before dosing.
- Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

#### Adult Patients

- For adults requiring invasive mechanical ventilation and/or ECMO, the dosage of remdesivir is a single loading dose of 200 mg infused intravenously over 30 to 120 minutes on Day 1 followed by once-daily maintenance doses of 100 mg infused intravenously over 30 to 120 minutes for 9 days (days 2 through 10).
- For adults not requiring invasive mechanical ventilation and/or ECMO, the dosage of remdesivir is a single loading dose of 200 mg infused intravenously over 30 to 120 minutes on Day 1 followed by once-daily maintenance doses of 100 mg infused intravenously over 30 to 120

minutes for 4 days (days 2 through 5). If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).

#### Pediatric Patients

- For pediatric patients with body weight  $\geq 40$  kg requiring invasive mechanical ventilation and/or ECMO, the adult dosage regimen of one loading dose of remdesivir 200 mg IV (infused over 30 to 120 minutes) on Day 1 followed by remdesivir 100 mg IV (infused over 30 to 120 minutes) once daily for 9 days (days 2 through 10) will be administered.
- For pediatric patients with body weight  $\geq 40$  kg not requiring invasive mechanical ventilation and/or ECMO, the adult dosage regimen of one loading dose of remdesivir 200 mg IV (infused over 30 to 120 minutes) on Day 1 followed by remdesivir 100 mg IV (infused over 30 to 120 minutes) once daily for 4 days (days 2 through 5) will be administered. If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).
- Use of the adult dose in these pediatric patients is expected to maintain exposures of both remdesivir and the nucleoside analog GS-441524 generally within the expected adult steady-state exposure range following administration of the adult therapeutic dosage regimen in healthy volunteers.
- For pediatric patients with body weight between 3.5 kg and  $<40$  kg, use remdesivir for injection, 100 mg, lyophilized powder only. Administer a body weight-based dosing regimen of one loading dose of remdesivir 5 mg/kg IV (infused over 30 to 120 min) on Day 1 followed by remdesivir 2.5 mg/kg IV (infused over 30 to 120 min) once daily for 9 days (for pediatric patients requiring invasive mechanical ventilation and/or ECMO, days 2 through 10) or for 4 days (for pediatric patients not requiring invasive mechanical ventilation and/or ECMO, days 2 through 5). If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days). Use of this weight-based dosing regimen is expected to maintain remdesivir exposure that is comparable to that observed in adults while limiting the exposure of the nucleoside analog GS-441524 in very young children.

#### Pregnancy

Remdesivir should be used during pregnancy only if the potential benefit justifies the potential risk for the mother and the fetus.

#### Renal Impairment

The pharmacokinetics of remdesivir have not been evaluated in patients with renal impairment. Use in patients with renal impairment are based on potential risk and potential benefit considerations. Patients with eGFR greater than or equal to 30 mL/min have received remdesivir for treatment of COVID-19 with no dose adjustment of remdesivir.

All patients must have an eGFR determined before dosing. Remdesivir is not recommended in adult and pediatric patients (>28 days old) with eGFR less than 30 mL/min or in full-term neonates ( $\geq 7$  days to  $\leq 28$  days old) with serum creatinine greater than or equal to 1 mg/dL unless the potential benefit outweighs the potential risk.

#### Hepatic Impairment

The pharmacokinetics of remdesivir have not been evaluated in patients with hepatic impairment. It is not known if dosage adjustment is needed in patients with hepatic impairment and remdesivir should only be used in patients with hepatic impairment if the potential benefit outweighs the potential risk.

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

#### Dose Preparation

**Care should be taken during admixture to prevent inadvertent microbial contamination.** As there is no preservative or bacteriostatic agent present in this product, aseptic technique must be used in preparation of the final parenteral solution. It is always recommended to administer IV medication immediately after preparation when possible.

Store diluted remdesivir solution for infusion up to 4 hours at room temperature (20°C to 25°C [68°F to 77°F]) or 24 hours at refrigerated temperature (2°C to 8°C [36°F to 46°F]).

#### **Important Preparation and Administration Instructions**

- **Remdesivir Injection, 5 mg/mL:** Dilute remdesivir injection concentrated solution in 0.9% saline prior to administration.
- Prepare solution for infusion on same day as administration.
- Administer remdesivir as an intravenous infusion over 30 to 120 minutes.
- After infusion is complete, flush with at least 30 mL of 0.9% saline.
- Discard any remaining reconstituted remdesivir lyophilized powder, reconcentrated solution, and diluted solution.

#### Storage and Handling of Prepared Dosages

##### **IMPORTANT:**

This product contains no preservative. Any unused portion of a single-dose remdesivir vial should be discarded after a diluted solution is prepared.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Should either be observed, the solution should be discarded and fresh solution prepared.

The prepared diluted solution should not be administered simultaneously with any other medication. The compatibility of remdesivir injection with IV solutions and medications other than 0.9% saline is not known.

**Warnings**

There are limited clinical data available for remdesivir. Serious and unexpected adverse events may occur that have not been previously reported with remdesivir use.

**Infusion-Related Reactions**

Infusion-related reactions have been observed during, and/or have been temporally associated with, administration of remdesivir. Signs and symptoms may include hypotension, nausea, vomiting, diaphoresis, and shivering. If signs and symptoms of a clinically significant infusion reaction occur, immediately discontinue administration of remdesivir and initiate appropriate treatment. The use of remdesivir is contraindicated in patients with known hypersensitivity to remdesivir.

**Increased Risk of Transaminase Elevations**

Transaminase elevations have been observed in the remdesivir clinical development program, including in healthy volunteers and patients with COVID-19. In healthy volunteers who received up to 150 mg daily for 14 days, alanine aminotransferase (ALT) elevations were observed in the majority of patients, including elevations up to 10 times baseline values in one subject without evidence of clinical hepatitis; no  $\geq$  Grade 3 adverse events were observed. Transaminase elevations have also been reported in patients with COVID-19 who received remdesivir, including one patient with ALT elevation up to 20 times the upper limit of normal. As transaminase elevations have been reported as a component of COVID-19 in some patients, discerning the contribution of remdesivir to transaminase elevations in this patient population is challenging.

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

- Remdesivir should not be initiated in patients with ALT  $\geq 5$  times the upper limit of normal at baseline
- Remdesivir should be discontinued in patients who develop:
  - o ALT  $\geq 5$  times the upper limit of normal during treatment with remdesivir.  
Remdesivir may be restarted when ALT is  $< 5$  times the upper limit of normal.  
OR
  - o ALT elevation accompanied by signs or symptoms of liver inflammation or increasing conjugated bilirubin, alkaline phosphatase, or INR

### **Serious Side Effects**

An adverse reaction associated with remdesivir in clinical trials in healthy adult subjects was increased liver transaminases. Additional adverse reactions associated with the drug, some of which may be serious, may become apparent with more widespread use.

### **INSTRUCTIONS FOR HEALTH CARE PROVIDERS**

As the health care provider, you must communicate to your patient or parent/caregiver information consistent with the “Fact Sheet for Patients and Parents/Caregivers” (and provide a copy of the Fact Sheet) prior to the patient receiving remdesivir, including:

- FDA has authorized the emergency use of remdesivir, which is not an FDA approved drug.
- The patient or parent/caregiver has the option to accept or refuse remdesivir.
- The significant known and potential risks and benefits of remdesivir, and the extent to which such risks and benefits are unknown.
- Information on available alternative treatments and the risks and benefits of those alternatives.

If providing this information will delay the administration of remdesivir to a degree that would endanger the lives of patients, the information must be provided to the patients as soon as practicable after remdesivir is administered.

## **MANDATORY REQUIREMENTS FOR REMDESIVIR ADMINISTRATION UNDER EMERGENCY USE AUTHORIZATION:**

In order to mitigate the risks of using this unapproved product under EUA and to optimize the potential benefit of remdesivir, the following items are required. Use of unapproved remdesivir under this EUA is limited to the following (all requirements **must** be met):

1. Treatment of suspected or laboratory confirmed coronavirus disease 2019 (COVID-19) in adults and children hospitalized with severe disease. Severe disease is defined as patients with an oxygen saturation (SpO<sub>2</sub>)  
≤ 94% on room air or requiring supplemental oxygen or requiring invasive mechanical ventilation or requiring ECMO. Specifically, remdesivir is authorized only for the following patients who are admitted to a hospital and under the care or consultation of a licensed clinician (skilled in the diagnosis and management of patients with potentially life-threatening illness and the ability to recognize and manage medication-related adverse events):
  - a. Adult patients for whom use of an IV agent is clinically appropriate.
  - b. Pediatric patients for whom use of an IV agent is clinically appropriate.
2. As the health care provider, communicate to your patient or parent/caregiver information consistent with the “Fact Sheet for Patients and Parents/Caregivers” prior to the patient receiving remdesivir. Health care providers (to the extent practicable given the circumstances of the emergency) must document in the patient’s medical record that the patient/caregiver has been:
  - a. Given the Fact Sheet for Patients and Parents/Caregivers,
  - b. Informed of alternatives to receiving remdesivir, and
  - c. Informed that remdesivir is an unapproved drug that is authorized for use under EUA.
3. Adult and pediatric patients (>28 days old) must have an eGFR determined and full-term neonates (≥7 days to ≤28 days old) must have serum creatinine determined prior to remdesivir first administration.
4. Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.
5. Patients with known hypersensitivity to any ingredient of remdesivir must not receive remdesivir.

The prescribing health care provider and/or the provider’s designee are/is responsible for mandatory responses to requests from FDA for information about adverse events and medication errors following receipt of remdesivir.
6. The prescribing health care provider and/or the provider’s designee are/is responsible for mandatory reporting of all medication errors and adverse events (death, serious adverse events\*) considered to be potentially related to remdesivir occurring during remdesivir treatment within 7

calendar days from the onset of the event. The reports should include unique identifiers and the words “Remdesivir under Emergency Use Authorization (EUA)” in the description section of the report.

\*Serious Adverse Events are defined as:

- death;
- a life-threatening adverse event;
- inpatient hospitalization or prolongation of existing hospitalization;
- a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions;
- a congenital anomaly/birth defect;
- a medical or surgical intervention to prevent death, a life-threatening event, hospitalization, disability, or congenital anomaly.

## **AUTHORITY FOR ISSUANCE OF THE EUA**

The Secretary of HHS has declared a public health emergency that justifies the emergency use of remdesivir to treat COVID-19 caused by SARs-CoV-2. In response, the FDA has issued an EUA for the unapproved product, remdesivir, for the treatment of COVID-19.<sup>1</sup> As a health care provider, you must comply with the mandatory requirements of the EUA (see below).

Although limited scientific information is available, based on the totality of the scientific evidence available to date, it is reasonable to believe that remdesivir may be effective for the treatment of COVID-19 in patients as specified in this Fact Sheet. You may be contacted and asked to provide information to help with the assessment of the use of the product during this emergency.

This EUA for remdesivir will end when the Secretary determines that the circumstances justifying the EUA no longer exist or when there is a change in the approval status of the product such that an EUA is no longer needed.

## **Full EUA Prescribing Information:**

### **Authorized use:**

Remdesivir is authorized for use under an EUA for treatment of patients hospitalized with suspected or laboratory confirmed SARS-CoV-2 infection and severe disease. Severe disease is defined as patients with an oxygen saturation (SpO<sub>2</sub>)  $\leq$ 94% on room air or requiring supplemental oxygen or requiring mechanical ventilation or requiring extracorporeal membrane oxygenation (ECMO). Specifically, remdesivir is only authorized for hospitalized adult and pediatric patients for whom use of an intravenous agent is clinically appropriate.

## **DOSAGE AND ADMINISTRATION**

### **General Information**

- The optimal dosing and duration of treatment is unknown. The suggested dose and duration may be updated as data from clinical trials becomes available.
- Adult and pediatric patients (>28 days old) must have an eGFR determined and full-term neonates ( $\geq$ 7 days to  $\leq$ 28 days old) must have serum creatinine determined before dosing of remdesivir.



- Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.
- Remdesivir should be administered via intravenous (IV) infusion only. Do not administer as an intramuscular (IM) injection.

#### Adult Patients

- The recommended dosage in adults requiring invasive mechanical ventilation and/or ECMO is a single loading dose of remdesivir 200 mg on Day 1 followed by once-daily maintenance doses of remdesivir 100 mg for 9 days.
- The recommended dosage in adults not requiring invasive mechanical ventilation and/or ECMO is a single dose of remdesivir 200 mg on Day 1 followed by once-daily maintenance doses of remdesivir 100 mg for 4 days. If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days).
- Remdesivir is to be administered via intravenous infusion in a total volume of up to 250 mL 0.9% saline over 30 to 120 minutes .

All adult patients must have creatinine clearance determined before dosing .

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir dosing .

#### Pediatric Patients

***Dosing in pediatric patients is based upon physiologically based (PBPK) modeling and simulation of pharmacokinetic data from healthy adult subjects.***

The recommended pediatric dose for pediatric patients weighing between 3.5 kg and <40 kg should be calculated using the mg/kg dose according to the patient's weight :

- For pediatric patients with body weight  $\geq 40$  kg requiring invasive mechanical ventilation and/or ECMO, the adult dosage regimen of one loading dose of remdesivir 200 mg IV (infused over 30 to 120 minutes) on Day 1 followed by remdesivir 100 mg IV (infused over 30 to 120 minutes) once daily for 9 days will be administered.
- For pediatric patients with body weight  $\geq 40$  kg not requiring invasive mechanical ventilation and/or ECMO, the adult dosage regimen of one loading dose of remdesivir 200 mg IV (infused over 30 to 120 minutes) on Day 1 followed by remdesivir 100 mg IV (infused over 30 to 120 minutes) once daily for 4 days (days 2 through 5) will be administered. If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days). Use of the adult dose in these pediatric patients is expected to maintain exposures of both remdesivir and the nucleoside analog GS-441524 generally within the expected adult steady-state exposure range following administration of the adult therapeutic dosage regimen in healthy volunteers (N=20 Study GS- US-399-5505).
- For pediatric patients with body weight between 3.5 kg and <40 kg, use remdesivir for injection, 100 mg, lyophilized powder only. Administer a body weight-based dosing regimen of one loading dose of remdesivir 5 mg/kg IV (infused over 30 to 120 min) on Day 1 followed by remdesivir 2.5 mg/kg IV (infused over 30 to 120 min) once daily for 9 days (for pediatric patients requiring invasive mechanical ventilation and/or ECMO, days 2 through 10) or for 4 days (for pediatric patients not requiring invasive mechanical

ventilation and/or ECMO, days 2 through 5). If a patient does not demonstrate clinical improvement, treatment may be extended for up to 5 additional days (i.e., up to a total of 10 days). Use of this weight- based dosing regimen is expected to maintain remdesivir exposure that is comparable to that observed in adults while limiting the exposure of the nucleoside analog GS-441524 in very young children.

Pediatric patients (>28 days old) must have an eGFR determined and full-term neonates ( $\geq 7$  days to  $\leq 28$  days old) must have serum creatinine determined before dosing.

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir dosing.

#### Pregnancy

Remdesivir should be used during pregnancy only if the potential benefit justifies the potential risk for the mother and the fetus.

#### Renal Impairment

The pharmacokinetics of remdesivir have not been evaluated in patients with renal impairment. Adult and pediatric patients (>28 days old) must have an eGFR determined and full-term neonates ( $\geq 7$  days to  $\leq 28$  days old) must have serum creatinine determined before dosing.

Because the excipient sulfobutylether- $\beta$ -cyclodextrin sodium salt (SBECD) is renally cleared and accumulates in patients with decreased renal function, administration of drugs formulated with SBECD (such as remdesivir) is not recommended in adults and pediatric patients (>28 days old) with eGFR less than 30 mL per minute or in full-term neonates ( $\geq 7$  days and  $\leq 28$  days old) with serum creatinine clearance  $\geq 1$  mg/dL unless the potential benefit outweighs the potential risk.

#### Hepatic Impairment

The pharmacokinetics of remdesivir have not been evaluated in patients with hepatic impairment. It is not known if dosage adjustment is needed in patients with hepatic impairment and remdesivir should only be used in patients with hepatic impairment if the potential benefit outweighs the potential risk

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

#### Adult Dose Preparation and Administration

##### **Remdesivir Injection, 5 mg/mL, Solution**

#### Dilution Instructions

**Care should be taken during admixture to prevent inadvertent microbial contamination.** As there is no preservative or bacteriostatic agent present in this product, aseptic technique must be used in preparation of the final parenteral solution. It is always recommended to administer IV medication immediately after preparation when possible.

- Remove the required number of single-dose vial(s) from storage. For each vial:
  - Equilibrate to room temperature (20°C to 25°C [68°F to 77°F]).

Sealed vials can be stored up to 12 hours at room temperature prior to dilution.

- Inspect the vial to ensure the container closure is free from defects and the solution is free of particulate matter.

**Recommended Remdesivir Solution Dilution Instructions in Adults and Pediatric Patients Weighing  $\geq 40$  kg**

Remdesivir dose	0.9% saline infusion bag volume to be used	Volume of saline to be withdrawn and discarded from 0.9% saline infusion bag	Required volume of remdesivir injection solution
200 mg (2 vials)	250 mL	40 mL	$2 \times 20$ mL
100 mg (1 vial)		20 mL	20 mL

- Withdraw the required volume of saline from the bag using an appropriately sized syringe and needle. Discard the saline that was withdrawn from the bag.
- Withdraw the required volume of remdesivir injection solution from the remdesivir vial using an appropriately sized syringe per Table 3.
  - Pull the syringe plunger rod back to fill the syringe with approximately 10 mL of air.
  - Inject the air into the remdesivir injection vial above the level of the solution.
  - Invert the vial and withdraw the required volume of remdesivir injection solution into the syringe. The last 5 mL of solution requires more force to withdraw.
- Discard any unused solution remaining in the remdesivir vial.
- Transfer the required volume of remdesivir injection solution to the infusion bag.
- Gently invert the bag 20 times to mix the solution in the bag. Do not shake.
- The prepared diluted solution is stable for 4 hours at room temperature (20°C to 25°C [68°F to 77°F]) or 24 hours in the refrigerator at 2°C to 8°C (36°F to 46°F).

Administration Instructions

The prepared diluted solution should not be administered simultaneously with any other medication. The compatibility of remdesivir injection with IV solutions and medications other than saline is not known.

**Recommended Rate of Infusion for Diluted Remdesivir Solution in Adults and Pediatric Patients Weighing  $\geq 40$  kg**

Infusion bag volume	Infusion time	Rate of infusion
250 mL	30 min	8.33 mL/min
	60 min	4.17 mL/min

	120 min	2.08 mL/min
--	---------	-------------

Remove For lyophilized ?????

## 2.8 Pediatric Dose Preparation and Administration

### **Remdesivir for Injection, 100 mg, Lyophilized Powder**

For pediatric patients with body weight between 3.5 kg and <40 kg, use remdesivir for injection, 100 mg, lyophilized powder only.

### **Storage of Prepared Dosages**

#### Injection Solution

Prior to dilution, equilibrate remdesivir injection to room temperature (20°C to 25°C [68°F to 77°F]). Sealed vials can be stored up to 12 hours at room temperature prior to dilution.

#### Diluted Infusion Solution

Store diluted remdesivir solution for infusion up to 4 hours at room temperature (20°C to 25°C [68°F to 77°F]) or 24 hours at refrigerated temperature (2°C to 8°C [36°F to 46°F]).

**IMPORTANT:**

This product contains no preservative. Any unused portion of a single-dose remdesivir vial should be discarded after a diluted solution is prepared. Maintain adequate records showing receipt, use, and disposition of remdesivir. For unused intact vials, maintain adequate records showing disposition of remdesivir; do not discard unused intact vials.

**DOSAGE FORMS AND STRENGTHS**

- Remdesivir injection, 5 mg/mL: Each single-dose vial of remdesivir injection contains 5 mg/mL of remdesivir as a clear, colorless to yellow, aqueous-based concentrated solution. Each vial contains sufficient volume to allow withdrawal of 20 mL of 5 mg/mL solution containing 100 mg of remdesivir.

**CONTRAINDICATIONS**

Remdesivir is contraindicated in patients with known hypersensitivity to any ingredient of remdesivir.

**WARNINGS AND PRECAUTIONS**

There are limited clinical data available for remdesivir. Serious and unexpected adverse events may occur that have not been previously reported with remdesivir use.

**Used in diabetic patients:**

Diabetics may experience improved glucose control, potentially resulting in symptomatic hypoglycemia, after initiating HCV direct-acting antiviral treatment.

Glucose levels of diabetic patients initiating direct-acting antiviral therapy should be closely monitored, particularly within the first 3 months, and their diabetic medication modified when necessary. The physician in charge of the diabetic care of the patient should be informed when direct-acting antiviral therapy is initiated.

**Infusion-Related Reactions**

Infusion-related reactions have been observed during, and/or been temporally associated with, administration of remdesivir. Signs and symptoms may include hypotension, nausea, vomiting, diaphoresis, and shivering. If signs and symptoms of a clinically significant infusion reaction occur, immediately discontinue administration of remdesivir and initiate appropriate treatment. The use of remdesivir is contraindicated in patients with known hypersensitivity to remdesivir.

## Increased Risk of Transaminase Elevations

Transaminase elevations have been observed in the remdesivir clinical development program, including in healthy volunteers and patients with COVID-

19. In healthy volunteers who received up to 150 mg daily for 14 days, alanine aminotransferase (ALT) elevations were observed in the majority of patients, including elevations to up to 10 times baseline values in one subject without evidence of clinical hepatitis; no  $\geq$  Grade 3 adverse events were observed. Transaminase elevations have also been reported in patients with COVID-19 who received remdesivir, including one patient with ALT elevation up to 20 times the upper limit of normal. As transaminase elevations have been reported as a component of COVID-19 in some patients, discerning the contribution of remdesivir to transaminase elevations in this patient population is challenging.

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

- Remdesivir should not be initiated in patients with ALT  $\geq$  5 times the upper limit of normal at baseline
- Remdesivir should be discontinued in patients who develop:
  - o ALT  $\geq$  5 times the upper limit of normal during treatment with remdesivir.  
Remdesivir may be restarted when ALT is  $<$  5 times the upper limit of normal.  
OR
  - o ALT elevation accompanied by signs or symptoms of liver inflammation or increasing conjugated bilirubin, alkaline phosphatase, or INR

## OVERALL SAFETY SUMMARY

In healthy subjects and hospitalized patients with PCR-confirmed SARS-CoV-2 infection, graded elevations in ALT and AST have been observed with a loading dose of remdesivir 200 mg administered intravenously on Day 1 followed by 100 mg administered intravenously once daily for up to 9 days. The mechanism of these elevations is unknown.

Patients should have appropriate clinical and laboratory monitoring to aid in early detection of any potential adverse events. The decision to continue or discontinue remdesivir after development of an adverse event should be made based on the clinical risk benefit assessment for the individual.

### Clinical Trials Experience

In a randomized, open-label clinical trial (Study GS-US-540-5773) of remdesivir in 397 subjects with severe COVID-19 treated with remdesivir for 5 (n=200) or 10 days (n=197), adverse events were reported in 71% and 74% of subjects, respectively, serious adverse events were reported in 21% and 35% of subjects, respectively, and Grade  $\geq 3$  adverse events were reported in 31% and 43% of subjects, respectively. Nine (5%) subjects in the 5-day group and 20 (10%) subjects in the 10-day group discontinued treatment due to an adverse event. All-cause mortality at Day 28 was 10% vs 13% in the 5- and 10-day treatment groups, respectively.

### Hepatic Adverse Reactions

#### Clinical Trials Experience

##### *Experience in Healthy Volunteers*

Grade 1 and 2 transaminase elevations were observed in healthy volunteers in Study GS-US-399-5505 (200 mg followed by 100 mg dosing for 5–10 days) and Study GS-US-399-1954 (150 mg daily for 7 or 14 days), which resolved after discontinuation of remdesivir.

##### *Experience in Patients with COVID-19*

Grade  $\geq 3$  hepatic laboratory abnormalities reported in Study GS-US-540-5773 of remdesivir in 397 subjects with severe COVID-19 treated with remdesivir for 5 (n=200) or 10 days (n=197).

#### **Hepatic Laboratory Abnormalities—Study GS-US-540-5773**

n/N (%)		Remdesivir for 5 Days	Remdesivir for 10 Days	Total
ALT	Grade 3	8/194 (4)	11/191 (6)	19/385 (5)
	Grade 4	4/194 (2)	5/191 (3)	9/385 (2)
AST	Grade 3	11/194 (6)	7/190 (4)	18/384 (5)
	Grade 4	3/194 (2)	4/190 (2)	7/384 (2)
Total Bilirubin	Grade 3	1/193 (1)	3/190 (2)	4/383 (1)
	Grade 4	0	1/190 (1)	1/383 (<1)

##### *Experience in Patients with Ebola Virus Disease*

In the PALM study, 175 subjects with Ebola virus disease were randomized to receive remdesivir. No SAEs of transaminase elevations or hepatic events were reported.

Twenty subjects received remdesivir in a double-blinded, randomized, viral persistence study in the semen of Ebola survivors. Preliminary results indicated there were no SAEs for transaminase elevations.

### Compassionate Use Experience

#### *Experience in Patients with COVID-19*

In the compassionate use program in patients with severe or critical illness with COVID-19, liver function test abnormalities were reported in 11.7% (19/163) of patients. Time to onset from first dose ranged from 1-16 days. Four of these patients discontinued remdesivir treatment with elevated transaminases occurring on Day 5 of remdesivir treatment as per protocol.

Seven cases of serious liver-related laboratory abnormality were identified. There was 1 serious adverse event (SAE) of blood bilirubin increased in a critically ill patient with septic shock and multiorgan failure. None of the other cases had reported adverse events suggestive of hyperbilirubinemia or symptoms of hepatitis.

#### PATIENT MONITORING RECOMMENDATIONS

Given the limited experience with remdesivir at the recommended dose and duration, patients should have appropriate clinical and laboratory monitoring to aid in early detection of any potential adverse events while receiving remdesivir. The following laboratory tests should be performed daily while receiving remdesivir: serum chemistries, hematology, ALT, AST, bilirubin, and alkaline phosphatase; renal function tests (creatinine and creatinine clearance).

### **ADVERSE REACTIONS AND MEDICATION ERRORS REPORTING REQUIREMENTS AND INSTRUCTIONS**

These adverse events must be reported within 7 calendar days from the onset of the event:

Serious Adverse Events are defined as:

- Death;
- A life-threatening adverse event;
- Inpatient hospitalization or prolongation of existing hospitalization;
- A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions;
- a congenital anomaly/birth defect;
- a medical or surgical intervention to prevent death, a life-threatening event, hospitalization, disability, or congenital anomaly.



## **DRUG INTERACTIONS**

Drug-drug interaction trials of remdesivir and other concomitant medications have not been conducted in humans. In vitro, remdesivir is a substrate for drug metabolizing enzymes CYP2C8, CYP2D6, and CYP3A4, and is a substrate for Organic Anion Transporting Polypeptides 1B1 (OATP1B1) and P-glycoprotein (P-gp) transporters. In vitro, remdesivir is an inhibitor of CYP3A4, OATP1B1, OATP1B3, BSEP, MRP4, and NTCP. The clinical relevance of these in vitro assessments has not been established.

## **USE IN SPECIFIC POPULATIONS**

### **Pregnancy**

#### Risk Summary

No adequate and well-controlled studies of remdesivir use in pregnant women have been conducted. Remdesivir should be used during pregnancy only if the potential benefit justifies the potential risk for the mother and the fetus.

In nonclinical reproductive toxicity studies, remdesivir demonstrated no adverse effect on embryofetal development when administered to pregnant animals at systemic exposures (AUC) of the predominant circulating metabolite of remdesivir (GS-441524) that were 4 times (rats and rabbits) the exposure in humans at the recommended human dose (RHD).

#### Animal Data

Remdesivir was administered via intravenous injection to pregnant rats and rabbits (up to 20 mg/kg/day) on Gestation Days 6 through 17, and 7 through 20, respectively, and also to rats from Gestation Day 6 to Lactation/Post-partum Day 20. No adverse effects on embryo-fetal (rats and rabbits) or pre/postnatal (rats) development were observed in rats and rabbits at nontoxic doses in pregnant animals. During organogenesis, exposures to the predominant circulating metabolite (GS-441524) were 4 (rats and rabbits) times higher than the exposure in humans at the RHD. In a pre/postnatal development study, exposures to the predominant circulating metabolite of remdesivir (GS-441524) were similar to the human exposures at the RHD.

### **Nursing Mothers**

#### Risk Summary

There is no information regarding the presence of remdesivir in human milk, the effects on the breastfed infant, or the effects on milk production. In animal studies, remdesivir and metabolites have been detected in the nursing pups of mothers given remdesivir, likely due to the presence of remdesivir in milk. Because of the potential for viral transmission to SARS-CoV-2-negative infants and adverse reactions from the drug in breastfeeding infants, the developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for remdesivir and any potential adverse effects on the breastfed child from remdesivir or from the underlying maternal condition.

#### Animal Data

Remdesivir and its metabolites were detected in the plasma of nursing rat pups, likely due to the presence of remdesivir and/or its metabolites in milk, following daily intravenous administration of remdesivir to pregnant mothers from Gestation Day 6 to Lactation Day 20. Exposures in nursing pups were approximately 1% that of maternal exposure on lactation day 10.

### **Pediatric Use**

The safety and effectiveness of remdesivir for treatment of COVID-19 have not been assessed in pediatric patients. Dosing instructions for pediatric patients were derived based on pharmacokinetic data from adult healthy volunteers and *in vitro* data for remdesivir and other similar compounds, as part of the PBPK modeling and simulation approach which accounts for age-dependent changes in metabolism, distribution, and elimination of remdesivir.

For pediatric patients with body weight between 3.5 kg to <40 kg, use remdesivir for injection, 100 mg, lyophilized powder only.

Pediatric patients (>28 days) must have creatinine clearance determined and full-term neonates ( $\geq 7$  days to  $\leq 28$  days) must have serum creatinine determined before dosing. Pediatric patients should be monitored for renal function and consideration given for stopping therapy in the setting of substantial decline. The use of remdesivir is not recommended in pediatric patients (>28 days old) with eGFR <30 mL/min and in full-term neonates ( $\geq 7$  days and  $\leq 28$  days old) with serum creatinine clearance  $\geq 1$  mg/dL unless the potential benefit outweighs the potential risk.

Because the excipient sulfobutylether- $\beta$ -cyclodextrin sodium salt (SBECD) is renally cleared and accumulates in patients with decreased renal function, administration of drugs formulated with SBECD (such as remdesivir) is not recommended in adults and pediatric patients (>28 days old) with eGFR less than 30 mL per minute or in full-term neonates ( $\geq 7$  days and  $\leq 28$  days old) with serum creatinine clearance  $\geq 1$  mg/dL unless the potential benefit outweighs the potential risk.

#### **Geriatric Use**

The pharmacokinetics of remdesivir have not been evaluated in patients >65 years of age. In general, appropriate caution should be exercised in the administration of remdesivir and monitoring of elderly patients, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

#### **Renal Impairment**

The pharmacokinetics of remdesivir have not been evaluated in patients with renal impairment. Adult and pediatric patients (>28 days old) must have creatinine clearance determined and full-term neonates ( $\geq 7$  days to  $\leq 28$  days old) must have serum creatinine determined before dosing. Remdesivir is not recommended in adults and pediatric patients (>28 days old) with eGFR less than 30 mL per minute or in full-term neonates ( $\geq 7$  days and  $\leq 28$  days old) with serum creatinine clearance  $\geq 1$  mg/dL unless the potential benefit outweighs the potential risk.

#### **Hepatic Impairment**

The pharmacokinetics of remdesivir have not been evaluated in patients with hepatic impairment. It is not known if dosage adjustment is needed in patients with hepatic impairment and remdesivir should only be used in patients with hepatic impairment if the potential benefit outweighs the potential risk.

Hepatic laboratory testing should be performed in all patients prior to starting remdesivir and daily while receiving remdesivir.

#### **OVERDOSAGE**

There is no human experience of acute overdosage with remdesivir. Treatment of overdose with remdesivir should consist of general supportive measures including monitoring of vital signs and observation of the clinical status of the patient. There is no specific antidote for overdose with remdesivir.

## CLINICAL PHARMACOLOGY

### Mechanism of Action

Remdesivir is an adenosine nucleotide prodrug that distributes into cells where it is metabolized to form the pharmacologically active nucleoside triphosphate metabolite. Metabolism of remdesivir to remdesivir triphosphate has been demonstrated in multiple cell types. Remdesivir triphosphate acts as an analog of adenosine triphosphate (ATP) and competes with the natural ATP substrate for incorporation into nascent RNA chains by the SARS-CoV-2 RNA-dependent RNA polymerase, which results in delayed chain termination during replication of the viral RNA. Remdesivir triphosphate is a weak inhibitor of mammalian DNA and RNA polymerases with low potential for mitochondrial toxicity.

### Pharmacokinetics

The pharmacokinetics (PK) of remdesivir have been evaluated in adults in several Phase 1 trials.

- Following single-dose, 2-hour IV administration of remdesivir solution formulation at doses ranging from 3 to 225 mg, remdesivir exhibited a linear PK profile.
- Following single-dose, 2-hour IV administration of remdesivir at doses of 75 and 150 mg, both the lyophilized and solution formulations provided comparable PK parameters (AUC<sub>inf</sub>, AUC<sub>last</sub>, and C<sub>max</sub>), indicating similar formulation performance.
- Remdesivir 75 mg lyophilized formulation administered IV over 30 minutes provided similar peripheral blood mononuclear cell (PBMC) exposure of the active triphosphate metabolite GS-443902 as remdesivir 150 mg lyophilized formulation administered IV over 2 hours.
- Following a single 150 mg intravenous dose of [<sup>14</sup>C]-remdesivir, mean total recovery of the dose was greater than 92%, consisting of approximately 74% and 18% recovered in urine and feces, respectively. The majority of remdesivir dose recovered in urine was metabolite GS-441524 (49%), while 10% was recovered as remdesivir.

### Specific Populations

#### *Sex, Race and Age*

Pharmacokinetic differences based on sex, race, and age have not been evaluated.

#### *Pediatric Patients*

The pharmacokinetics of remdesivir in pediatric patients has not been evaluated.

Physiologically-based pharmacokinetic models were developed to estimate remdesivir and GS-441524 exposure and predict pediatric patient exposure based on age-dependent physiologic changes (e.g., organ volume/function, blood flow). These simulations do not account for the impact of infection on the pharmacokinetics of remdesivir and GS-441524, which is currently unknown.

#### *Renal Impairment*

Because the excipient SBECD is renally cleared and accumulates in patients with decreased renal function, administration of drugs formulated with SBECD (such as remdesivir) is not recommended in adult and pediatric patients (>28 days old) with eGFR less than 30 mL per minute or in full-term neonates (≥7 days and ≤28 days old) with serum creatinine clearance ≥1 mg/dL unless the potential benefit outweighs the potential risk.

## **MICROBIOLOGY/RESISTANCE INFORMATION**

### *Antiviral Activity*

Remdesivir exhibited cell culture antiviral activity against a clinical isolate of SARS-CoV-2 in primary human airway epithelial (HAE) cells with a 50% effective concentration (EC<sub>50</sub>) of 9.9 nM after 48 hours of treatment. The EC<sub>50</sub> values of remdesivir against SARS-CoV-2 in Vero cells was 137 nM at 24 hours and 750 nM at 48 hours post-treatment.

### *Resistance*

No clinical data are available on the development of SARS-CoV-2 resistance to remdesivir. The cell culture development of SARS-CoV-2 resistance to remdesivir has not been assessed to date.

Cell culture resistance profiling of remdesivir using the rodent CoV murine hepatitis virus identified 2 substitutions (F476L and V553L) in the viral RNA- dependent RNA polymerase at residues conserved across CoVs that conferred a 5.6 fold reduced susceptibility to remdesivir. The mutant viruses showed reduced viral fitness in cell culture and introduction of the corresponding substitutions (F480L and V557L) into SARS-CoV resulted in 6-fold reduced susceptibility to remdesivir in cell culture and attenuated SARS-CoV pathogenesis in a mouse model.

## **NONCLINICAL TOXICOLOGY**

The nonclinical toxicology profile of remdesivir has been characterized through the conduct of repeat-dose studies in rats and cynomolgus monkeys with once- daily dosing up to 4 weeks in duration, studies to evaluate the genotoxic potential of the compound, a battery of reproduction and developmental studies (fertility in rats, embryofetal development in rats and rabbits, and a pre- and post- developmental study in rats), and a hemolysis/blood compatibility study. Following repeated dosing in rats and monkeys, the kidney was identified as the target organ. In both species, clinical chemistry, urinalysis, and/or urinary biomarkers were early predictors of the observed kidney changes.

### Carcinogenesis

Given the short-term administration of remdesivir for the treatment of COVID-19, long-term animal studies to evaluate the carcinogenic potential of remdesivir are not required.

### Mutagenesis

Remdesivir was not genotoxic in a battery of assays, including bacterial mutagenicity, chromosome aberration using human peripheral blood lymphocytes, and *in vivo* rat micronucleus assays.

### Impairment of Fertility

Nonclinical toxicity studies in rats demonstrated no adverse effect on male fertility at exposures of the predominant circulating metabolite (GS-441524) approximately 2 times the exposure in humans at the RHD.

Reproductive toxicity, including decreases in corpora lutea, numbers of implantation sites, and viable embryos, was seen when remdesivir was administered intravenous daily at a systemically toxic dose (10 mg/kg) in female rats 14 days prior to mating and during conception; exposures

of the predominant circulating metabolite (GS-441524) were 1.3 times the exposure in humans at the RHD.

#### Animal Toxicology and/or Pharmacology

Intravenous administration (slow bolus) of remdesivir to male rhesus monkeys at dosage levels of 5, 10, and 20 mg/kg/day for 7 days resulted, at all dose levels, in increased mean urea nitrogen and increased mean creatinine, renal tubular atrophy, and basophilia and casts.

Intravenous administration (slow bolus) of remdesivir to rats at dosage levels of  $\geq 3$  mg/kg/day for up to 4 weeks resulted in findings indicative of kidney injury and/or dysfunction.

#### **ANIMAL PHARMACOLOGIC AND EFFICACY DATA**

It is unknown, at present, how the observed antiviral activity of remdesivir in animal models of SARS-CoV-2 infection will translate into clinical efficacy in patients with symptomatic disease. Key attributes of the remdesivir nonclinical profile supporting its development for the treatment of COVID-19 are provided below:

- Remdesivir showed cell culture antiviral activity against a clinical isolate of SARS-CoV-2 in primary HAE cells (EC50 value= 9.9 nM). The EC50 values of remdesivir against SARS-CoV-2 in Vero cells has been reported to be 137 nM at 24 hours and 750 nM at 48 hours post-treatment.
- Remdesivir showed antiviral activity in SARS-CoV-2-infected rhesus monkeys. Administration of remdesivir at 10/5 mg/kg (10 mg/kg first dose, followed by 5 mg/kg once daily thereafter) using IV bolus injection initiated 12 hours post-inoculation with SARS-CoV-2 resulted in a reduction in clinical signs of respiratory disease, lung pathology and gross lung lesions, and lung viral RNA levels compared with vehicle-treated animals.

**CLINICAL TRIAL RESULTS AND SUPPORTING DATA FOR EUA** Remdesivir is an unapproved antiviral drug with available data from two randomized clinical trials and a compassionate use program in patients with COVID-19, and from clinical trials in healthy volunteers and subjects with Ebola virus disease.

#### Clinical Trials in Subjects with COVID-19

##### NIAID ACTT-1 Study

A randomized, double-blind, placebo-control clinical trial evaluated remdesivir 200 mg once daily for 1 day followed by remdesivir 100 mg once daily for 9 days (for a total of up to 10 days of intravenously administered therapy) in hospitalized adult patients with COVID-19. The trial enrolled 1063 hospitalized patients in a 1:1 manner to receive remdesivir or placebo. The primary clinical endpoint was time to recovery within 28 days after randomization. In a preliminary analysis of the primary endpoint performed after 606 recoveries were attained, the median time to recovery was 11 days in the remdesivir group compared to 15 days in the placebo group (hazard ratio 1.31; 95% CI 1.12 to 1.54,  $p < 0.001$ ). Mortality was 8.0% for the remdesivir group versus 11.6% for the placebo group ( $p = 0.059$ ).

### Study GS-US-540-5773

A randomized, open-label multi-center clinical trial (Study GS-US-540-5773) of patients with severe COVID-19 compared 197 adult patients who received remdesivir 200 mg once daily followed by remdesivir 100 mg once daily for 9 days (for a total of 10 days of intravenously administered therapy) with 200 adult patients who received remdesivir 200 mg once daily followed by remdesivir 100 mg for 4 days (for a total of 5 days of intravenously administered therapy), plus standard of care. The primary clinical endpoint was clinical status assessed by a 7-point ordinal scale at Day 14 after randomization. The study suggested that patients receiving a 10-day treatment course of remdesivir had similar improvement in clinical status compared with those receiving a 5-day treatment course (10-to-5 day odds ratio: 0.76; 95% confidence interval [CI] 0.51 to 1.13] on Day 14).

Clinical improvement was defined as an improvement of two or more points from baseline on a predefined 7-point scale, ranging from hospital discharge to increasing levels of oxygen support to death. Patients achieved clinical recovery if they no longer required oxygen support or were discharged from the hospital.

The time to clinical improvement for 50% of patients was 10 days in the 5-day treatment group and 11 days in the 10-day treatment group. At Day 14, observed rates between the 5- and 10-day treatment groups were 65% vs 54% for clinical improvement, 70% vs 59% for clinical recovery, and 8% vs 11% for mortality.

### Compassionate Use Program in Patients with COVID-19

Remdesivir has been provided through a compassionate use multi-center, open-label program to over 1,200 adult patients with confirmed SARS-CoV-2 infection by polymerase chain reaction (PCR) and manifestations of severe disease. In addition, remdesivir has been provided to 76 pediatric patients <18 years of age and 96 pregnant women through the compassionate use program.

Patients were treated with remdesivir 200 mg once daily followed by remdesivir 100 mg for 9 days intravenously, plus standard of care, for a total of up to 10 days of therapy.

### Clinical Studies in Healthy Adults

Remdesivir was evaluated in four Phase 1 studies in 138 healthy adult volunteers (Studies GS-US-399-1812, GS-US-399-1954, GS-US-399-4231, and GS-US-399-5505). In these studies, transient graded elevations in ALT and AST were observed at repeated once-daily doses of remdesivir.

### Clinical Study in Subjects with Ebola Virus Disease

Supportive safety data are provided from the PALM study, a Phase 2/3, open-label, randomized, parallel group study to assess the safety and efficacy of investigational treatments, including remdesivir, in patients with Ebola virus disease. 175 patients were randomized to receive remdesivir. A total of 9 SAEs judged by the site investigator as not related to underlying Ebola virus disease were reported for participants receiving remdesivir. Of these, an event of hypotension, which occurred during administration of the loading dose and led to fatal cardiac arrest, was considered related to remdesivir. The independent pharmacovigilance committee noted that the death could not be readily distinguished from underlying fulminant Ebola virus disease.

**Description:***Injection Solution*

Remdesivir injection is supplied as a single dose vial containing 5 mg/mL of remdesivir per vial for dilution into 0.9% saline.

Discard unused portion.

The container closure is not made with natural rubber latex.

**Storage and Handling:***Injection Solution*

Store remdesivir injection, 5 mg/mL, vials at refrigerated temperature (2°C to 8°C [36°F to 46°F]) until required for use. Do not use after expiration date. Dilute within the same day as administration.

Prior to dilution, equilibrate remdesivir injection to room temperature (20°C to 25°C [68°F to 77°F]). Sealed vials can be stored up to 12 hours at room temperature prior to dilution.

*Diluted Solution for Infusion*

Store diluted remdesivir solution for infusion up to 4 hours at room temperature (20°C to 25°C [68°F to 77°F]) or 24 hours at refrigerated temperature (2°C to 8°C [36°F to 46°F]).