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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Pulmonary Arterial Hypertension

Treprostinil Injection is indicated for the treatment of pulmonary arterial hypertension (PAH; WHO Group 1) to diminish symptoms associated with exercise. Studies establishing effectiveness included patients with NYHA Functional Class II-IV symptoms and etiologies of idiopathic or heritable PAH (58%), PAH associated with congenital systemic-to-pulmonary shunts (23%), or PAH associated with connective tissue diseases (19%) [see Clinical Studies (14.1)].

1.2 Pulmonary Arterial Hypertension in Patients Requiring Transition from Epoprostenol

In patients with PAH requiring transition from epoprostenol, Treprostinil Injection is indicated to diminish the rate of clinical deterioration. Consider the risks and benefits of each drug prior to transition.

2 DOSAGE AND ADMINISTRATION

2.1 General

Treprostinil Injection can be administered with or without further dilution with Sterile Diluent for Remodulin® or similar approved high-pH glycine diluent (e.g. Sterile Diluent for Flolan® or Sterile Diluent for Epoprostenol), Sterile Water for Injection, or 0.9% Sodium Chloride Injection prior to administration. See Table 1 below for storage and administration time limits for the different diluents.

Diluted Treprostinil Injection has been shown to be stable at ambient temperature when stored for up to 14 days using high-pH glycine diluent at concentrations as low as 0.004 mg/mL (4,000 ng/mL).

Administration **Diluent** Storage Limits Limits 16 weeks at See Section 16 None 40°C 14 days at room 48 hours at Sterile Diluents for Remodulin[®], Flolan[®], or Epoprostenol 40°C temperature 4 hours at room Sterile Water for Injection 48 hours at temperature or 24 0.9% Sodium Chloride for Injection 40°C hours refrigerated

Table 1: Selection of Diluent

2.2 Initial Dose for Patients New to Prostacyclin Infusion Therapy

Treprostinil Injection is indicated for subcutaneous or intravenous use only as a continuous infusion. Treprostinil Injection is preferably infused subcutaneously, but can be administered by a central intravenous line if the subcutaneous route is not tolerated, because of severe site pain or reaction. The infusion rate is initiated at 1.25 ng/kg/min. If this initial dose cannot be tolerated because of systemic effects, reduce the infusion rate to 0.625 ng/kg/min.

2.3 Initial Dose for Patients Transitioning to an Implantable Intravenous

Infusion Pump

The initial dose of Treprostinil Injection should be the same as the current dose the patient is receiving using the external infusion pump at the time of transition.

2.4 Dosage Adjustments

The goal of chronic dosage adjustments is to establish a dose at which PAH symptoms are improved, while minimizing excessive pharmacologic effects of Treprostinil Injection (headache, nausea, emesis, restlessness, anxiety and infusion site pain or reaction).

The infusion rate should be increased in increments of 1.25 ng/kg/min per week for the first four weeks of treatment and then 2.5 ng/kg/min per week for the remaining duration of infusion, depending on clinical response. Dosage adjustments may be undertaken more often if tolerated. Avoid abrupt cessation of infusion [see Warnings and Precautions (5.2)]. Restarting a Treprostinil Injection infusion within a few hours after an interruption can be done using the same dose rate. Interruptions for longer periods may require the dose of Treprostinil Injection to be re-titrated.

2.5 Patients with Hepatic Insufficiency

In patients with mild or moderate hepatic insufficiency, decrease the initial dose of Treprostinil Injection to 0.625 ng/kg/min ideal body weight. Treprostinil Injection has not been studied in patients with severe hepatic insufficiency [see Warnings and Precautions (5.3), Use in Specific Populations (8.6), and Clinical Pharmacology (12.3)].

2.6 Administration

Inspect parenteral drug products for particulate matter and discoloration prior to administration whenever solution and container permit. If either particulate matter or discoloration is noted, do not use.

Preparation

Treprostinil Injection is administered by subcutaneous or intravenous infusion at a calculated rate based on a patient's dose (ng/kg/min), weight (kg) and the Treprostinil Injection concentration (mg/mL).

For administration of **Undiluted** Treprostinil Injection the rate is calculated using the following formula:

| Undiluted | Dose | | Weight | ~ | 0.00006* | | | |
|--|-------------------------------------|---|--------|---|----------|--|--|--|
| Infusion | _(ng/kg/min) | X | (kg) | X | 0.0000 | | | |
| Rate | I reprostini Vial Strength (mg/ml) | | | | | | | |
| (mL/hour) | | | | | | | | |
| *Conversion factor of $0.00006 = 60 \text{ min/hour } x$ | | | | | | | | |
| 0.000001 mg/ | 0.000001 mg/ng | | | | | | | |

For administration of **Diluted** Treprostinil Injection, the concentration is calculated using the following formula:

Step 1

| Diluted | Dose | ~ | Weight | > | 0.00006 |
|-----------------|--------------------|----|--------|---|---------|
| Treprostinil _ | (ng/kg/min) | ^ | (kg) | ^ | 0.00000 |
| Concentration - | Infusion Ra | te | | | |

| / / I \ | / I /I |
|---------|-----------|
| (mg/mL) | (mL/hour) |

The volume of Treprostinil Injection needed to make the required diluted Treprostinil concentration for the given reservoir size can then be calculated using the following formula:

Step 2

Volume of Treprostinil Injection (mL) | Diluted Treprostinil | Concentration (mg/mL) | Treprostinil Vial | Strength (mg/mL) | Treprostinil Vial | Strength (mg/mL) | Total Volume of Diluted | Treprostinil Solution in Reservoir (mL)

The calculated volume of Treprostinil Injection is then added to the reservoir along with the sufficient volume of diluent to achieve the desired total volume in the reservoir.

Subcutaneous Infusion

Treprostinil Injection is administered subcutaneously by continuous infusion, via a subcutaneous catheter, using an infusion pump designed for subcutaneous drug delivery. The infusion pump should: (1) be adjustable to approximately $0.002 \, \text{mL/hour}$, (2) have occlusion/no delivery, low battery, programming error and motor malfunction alarms, (3) have delivery accuracy of $\pm 6\%$ or better, (4) be positive pressure-driven, and (5) have a reservoir made of polyvinyl chloride, polypropylene or glass. Alternatively, use an infusion pump cleared for use with Treprostinil Injection. To avoid potential interruptions in drug delivery, the patient must have immediate access to a backup infusion pump and subcutaneous infusion sets.

Intravenous Infusion

External Intravenous Infusion Pump:

Treprostinil Injection is administered intravenously by continuous infusion via a surgically placed indwelling central venous catheter using an external infusion pump designed for intravenous drug delivery. If clinically necessary, a temporary peripheral intravenous cannula, preferably placed in a large vein, may be used for short term administration of Treprostinil Injection. Use of a peripheral intravenous infusion for more than a few hours increases the risk of thrombophlebitis. The infusion pump used to administer Treprostinil Injection should: (1) have occlusion/no delivery, low battery, programming error and motor malfunction alarms, (2) have delivery accuracy of $\pm 6\%$ or better, (3) be positive pressure driven, and (4) have a reservoir made of polyvinyl chloride, polypropylene or glass. Alternatively, use an infusion pump cleared for use with Treprostinil Injection. To avoid potential interruptions in drug delivery, the patient must have immediate access to a backup infusion pump and infusion sets.

Infusion sets with an in-line 0.22 or 0.2 micron pore size filter should be used.

Implantable Intravenous Infusion Pump:

Use an implantable intravenous infusion pump approved for use with Treprostinil Injection. Refer to the pump manufacturer's manual for specific instructions regarding preparation, programing, implantation, and refilling.

2.7 Patients Requiring Transition from Epoprostenol

Transition from epoprostenol to Treprostinil Injection is accomplished by initiating the infusion of Treprostinil Injection and increasing it, while simultaneously reducing the dose of intravenous epoprostenol. The transition to Treprostinil Injection should take place in a hospital with constant observation of response (e.g., walk distance and signs and symptoms of disease progression). Initiate Treprostinil Injection at a recommended dose of 10% of the current epoprostenol dose, and then escalate as the epoprostenol dose is decreased (see Table 2 for recommended dose titrations).

Patients are individually titrated to a dose that allows transition from epoprostenol therapy to Treprostinil Injection while balancing prostacyclin-limiting adverse events. Treat increases in the patient's symptoms of PAH first with increases in the dose of Treprostinil Injection. Treat side effects normally associated with prostacyclin and prostacyclin analogs first by decreasing the dose of epoprostenol.

Table 2: Recommended Transition Dose Changes

| Step | Epoprostenol Dose | Treprostinil Injection Dose |
|------|-----------------------------------|---|
| 1 | Unchanged | 10% Starting Epoprostenol Dose |
| 2 | 80% Starting Epoprostenol Dose | 30% Starting Epoprostenol Dose |
| 3 | 60% Starting Epoprostenol Dose | 50% Starting Epoprostenol Dose |
| 4 | 40% Starting Epoprostenol Dose | 70% Starting Epoprostenol Dose |
| 5 | 20% Starting Epoprostenol Dose | 90% Starting Epoprostenol Dose |
| 6 | 5% Starting Epoprostenol Dose | 110% Starting Epoprostenol Dose |
| 7 | 0 | 110% Starting Epoprostenol Dose + additional 5% to 10% increments as needed |

3 DOSAGE FORMS AND STRENGTHS

20 mL vial containing 20 mg treprostinil (1 mg per mL).

20 mL vial containing 50 mg treprostinil (2.5 mg per mL).

20 mL vial containing 100 mg treprostinil (5 mg per mL).

20 mL vial containing 200 mg treprostinil (10 mg per mL).

4 CONTRAINDICATIONS

None

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Catheter-Related Bloodstream Infection

Chronic intravenous infusions of Treprostinil Injection delivered using an external infusion pump with an indwelling central venous catheter are associated with the risk of blood stream infections (BSIs) and sepsis, which may be fatal. Therefore, continuous subcutaneous infusion is the preferred mode of administration.

In an open-label study of intravenous treprostinil (n=47) using an external infusion pump, there were seven catheter-related line infections during approximately 35 patient years, or about 1 BSI event per 5 years of use. A CDC survey of seven sites that used intravenous treprostinil for the treatment of PAH found approximately 1 BSI (defined as any positive blood culture) event per 3 years of use.

Administration of intravenous Treprostinil Injection with a high pH glycine diluent has been associated with a lower incidence of BSIs when compared to neutral diluents (sterile water, 0.9% sodium chloride) when used along with catheter care guidelines.

In an open-label study of an implantable pump (n=60), there were two blood stream infections (BSIs) related to the implant procedure during approximately 265 patient years.

5.2 Worsening PAH upon Abrupt Withdrawal or Sudden Large Dose Reduction

Avoid abrupt withdrawal or sudden large reductions in dosage of treprostinil, which may result in worsening of PAH symptoms.

5.3 Patients with Hepatic Insufficiency

Titrate treprostinil slowly in patients with hepatic insufficiency, because such patients will likely be exposed to greater systemic concentrations relative to patients with normal hepatic function [see Dosage and Administration (2.5), Use in Specific Populations (8.6), and Clinical Pharmacology (12.3)].

5.4 Risk of Symptomatic Hypotension

Treprostinil is a pulmonary and systemic vasodilator. In patients with low systemic arterial pressure, treatment with treprostinil may produce symptomatic hypotension.

5.5 Risk of Bleeding

Treprostinil inhibits platelet aggregation and increases the risk of bleeding.

6 ADVERSE REACTIONS

The following adverse reactions are discussed elsewhere in labeling: Infections associated with intravenous administration [see Warnings and Precautions (5.1)].

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adverse Events with Subcutaneously Administered Treprostinil

Patients receiving treprostinil as a subcutaneous infusion reported a wide range of adverse events, many potentially related to the underlying disease (dyspnea, fatigue, chest pain, right ventricular heart failure, and pallor). During clinical trials with subcutaneous infusion of treprostinil, infusion site pain and reaction were the most common adverse events among those treated with treprostinil. Infusion site reaction was defined as any local adverse event other than pain or bleeding/bruising at the infusion site and included symptoms such as erythema, induration or rash. Infusion site

reactions were sometimes severe and could lead to discontinuation of treatment.

Table 3: Percentages of Subjects Reporting Subcutaneous Infusion Site Adverse Events

| | Reaction Placebo Treprostinil P | | | Pain | |
|----------------------------------|---------------------------------|-----------------|---------|--------------|--|
| | | | Placebo | Treprostinil | |
| Severe | 1 | 38 | 2 | 39 | |
| Requiring narcotics ^a | NAb | NA ^b | 1 | 32 | |
| Leading to discontinuation | 0 | 3 | 0 | 7 | |

^a based on prescriptions for narcotics, not actual use

Other adverse events included diarrhea, jaw pain, edema, vasodilatation and nausea, and these are generally considered to be related to the pharmacologic effects of treprostinil, whether administered subcutaneously or intravenously.

Adverse Reactions during Chronic Dosing

Table 4 lists adverse reactions that occurred at a rate of at least 3% more frequent in patients treated with subcutaneous treprostinil than with placebo in controlled trials in PAH.

Table 4: Adverse Reactions in Controlled 12-Week Studies of Subcutaneous Treprostinil and at least 3% more frequent than on Placebo

| | Treprostinil | Placebo |
|------------------------|---------------------|----------------------------|
| | (N=236) | (N=233) |
| Adverse Reaction | Percent of Patients | Percent of Patients |
| Infusion Site Pain | 85 | 27 |
| Infusion Site Reaction | 83 | 27 |
| Headache | 27 | 23 |
| Diarrhea | 25 | 16 |
| Nausea | 22 | 18 |
| Rash | 14 | 11 |
| Jaw Pain | 13 | 5 |
| Vasodilatation | 11 | 5 |
| Edema | 9 | 3 |

Reported adverse reactions (at least 3% more frequent on drug than on placebo) are included with the exception of those too general to be informative, and those not plausibly attributable to the use of the drug, because they were associated with the condition being treated or are very common in the treated population.

While hypotension occurred in both groups, the event was experienced twice as frequently in the treprostinil group as compared to the placebo group (4% in treprostinil treatment group versus 2% in placebo-controlled group). As a potent vasodilator, hypotension is possible with the administration of treprostinil.

^b medications used to treat infusion site pain were not distinguished from those used to treat site reactions

The safety of treprostinil was also studied in a long-term, open-label extension study in which 860 patients were dosed for a mean duration of 1.6 years, with a maximum exposure of 4.6 years. Twenty-nine (29%) percent achieved a dose of at least 40 ng/kg/min (max: 290 ng/kg/min). The safety profile during this chronic dosing study was similar to that observed in the 12-week placebo-controlled study except for the following suspected adverse drug reactions (occurring in at least 3% of patients): anorexia, vomiting, infusion site infection, asthenia, and abdominal pain.

Adverse Events Attributable to the Drug Delivery System

In controlled studies of treprostinil administered subcutaneously, there were no reports of infection related to the drug delivery system. There were 187 infusion system complications reported in 28% of patients (23% treprostinil, 33% placebo); 173 (93%) were pump related and 14 (7%) related to the infusion set. Eight of these patients (4 treprostinil, 4 placebo) reported non- serious adverse events resulting from infusion system complications. Adverse events resulting from problems with the delivery systems were typically related to either symptoms of excess treprostinil (e.g., nausea) or return of PAH symptoms (e.g., dyspnea). These events were generally resolved by correcting the delivery system pump or infusion set problem, such as replacing the syringe or battery, reprogramming the pump, or straightening a crimped infusion line. Adverse events resulting from problems with the delivery system did not lead to clinical instability or rapid deterioration. In addition to these adverse events due to the drug delivery system during subcutaneous administration, the following adverse events may be attributable to the intravenous mode of infusion including arm swelling, paresthesias, hematoma and pain [see Warnings and Precautions (5.1)].

6.2 Postmarketing Experience

In addition to adverse reactions reported from clinical trials, the following events have been identified during post-approval use of treprostinil. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. The following events have been chosen for inclusion because of a combination of their seriousness, frequency of reporting, and potential connection to treprostinil. These events are thrombophlebitis associated with peripheral intravenous infusion, thrombocytopenia, bone pain, pruritus, dizziness, arthralgia, myalgia/muscle spasm, and pain in extremity. In addition, generalized rashes, sometimes macular or papular in nature, and cellulitis have been infrequently reported.

7 DRUG INTERACTIONS

7.1 Effect of CYP2C8 Inhibitors and Inducers on Treprostinil

Dose adjustment of treprostinil may be necessary when coadministered with CYP2C8 inducers or inhibitors. Human pharmacokinetic studies with an oral formulation of treprostinil (treprostinil diolamine) indicated that coadministration of the cytochrome P450 (CYP) 2C8 enzyme inhibitor gemfibrozil increases exposure (both C_{max} and AUC) to treprostinil. Coadministration of the CYP2C8 enzyme inducer rifampin decreases exposure to treprostinil. It has not been determined if the changes in exposure of treprostinil with inhibitors or inducers of CYP2C8 observed for the oral administration of treprostinil would be similar for treprostinil administered via the parenteral route [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Limited case reports of treprostinil use in pregnant women are insufficient to inform a drug-associated risk of adverse developmental outcomes. However, there are risks to the mother and the fetus associated with pulmonary arterial hypertension (see Clinical Considerations). In animal studies, no adverse reproductive and developmental effects were seen in rats at about 123 and 48 times the human exposure based on C_{max} and AUC, respectively. In rabbits, external fetal and soft tissue malformations and skeletal malformations were observed at about 7 and 5 times the human exposure based on C_{max} and AUC, respectively (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Disease-associated maternal and embryo-fetal risk

Pulmonary arterial hypertension is associated with an increased risk of maternal and fetal mortality.

Data

Animal reproduction studies have been conducted with treprostinil via continuous subcutaneous administration and with treprostinil diolamine administered orally. In pregnant rats, continuous subcutaneous infusions of treprostinil during organogenesis and late gestational development, at doses as high as 900 ng treprostinil/kg/min (about 117 times the starting human subcutaneous infusion rate, on a ng/m² basis and about 16 times the average rate achieved in clinical trials), resulted in no evidence of harm to the fetus. In pregnant rabbits, effects of continuous subcutaneous infusions of treprostinil during organogenesis were limited to an increased incidence of fetal skeletal variations (bilateral full rib or right rudimentary rib on lumbar 1) associated with maternal toxicity (reduction in body weight and food consumption) at a dose of 150 ng treprostinil/kg/min (about 41 times the starting human subcutaneous infusion rate, on a ng/m² basis, and 5 times the average rate used in clinical trials). In rats, continuous subcutaneous infusion of treprostinil from implantation to the end of lactation, at doses of up to 450 ng treprostinil/kg/min, did not affect the growth and development of offspring. In studies with orally administered treprostinil diolamine, no adverse effect doses for fetal viability/growth, fetal development (teratogenicity), and postnatal development were determined in rats. In pregnant rats, no evidence of harm to the fetus was observed following oral administration of treprostinil diolamine at the highest dose tested (20 mg/kg/day), which represents about 123 and 48 times the human exposure, when based on C_{max} and AUC of the average subcutaneous infusion rate achieved in clinical trials, respectively. In pregnant rabbits, external fetal and soft tissue malformations and fetal skeletal malformation occurred. The dose at which no adverse effects were seen (0.5 mg/kg/day) represents about 7 and 5 times the human exposure, when based on C_{max} and AUC of the average subcutaneous infusion rate achieved in clinical trials, respectively. No treprostinil treatment-related effects on labor and delivery were seen in animal studies. Animal reproduction studies are not always predictive of human response.

8.2 Lactation

Risk Summary

There are no data on the presence of treprostinil in human milk, the effects on the breastfed infant, or the effects on milk production.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established. Clinical studies of treprostinil did not include sufficient numbers of patients aged ≤16 years to determine whether they respond differently from older patients.

8.5 Geriatric Use

Clinical studies of treprostinil did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

8.6 Patients with Hepatic Insufficiency

Treprostinil clearance is reduced in patients with hepatic insufficiency. In patients with mild or moderate hepatic insufficiency, decrease the initial dose of treprostinil to 0.625 ng/kg/min ideal body weight, and monitor closely. Treprostinil has not been studied in patients with severe hepatic insufficiency [see Dosage and Administration (2.5), Warnings and Precautions (5.3), and Clinical Pharmacology (12.3)].

8.7 Patients with Renal Impairment

No dose adjustments are required in patients with renal impairment. Treprostinil is not cleared by dialysis [see Clinical Pharmacology (12.3)].

10 OVERDOSAGE

Signs and symptoms of overdose with treprostinil during clinical trials are extensions of its dose-limiting pharmacologic effects and include flushing, headache, hypotension, nausea, vomiting, and diarrhea. Most events were self-limiting and resolved with reduction or withholding of treprostinil.

In controlled clinical trials using an external infusion pump, seven patients received some level of overdose and in open-label follow-on treatment seven additional patients received an overdose; these occurrences resulted from accidental bolus administration of treprostinil, errors in pump programmed rate of administration, and prescription of an incorrect dose. In only two cases did excess delivery of treprostinil produce an event of substantial hemodynamic concern (hypotension, near-syncope).

One pediatric patient was accidentally administered 7.5 mg of treprostinil via a central venous catheter. Symptoms included flushing, headache, nausea, vomiting, hypotension and seizure-like activity with loss of consciousness lasting several minutes. The patient subsequently recovered.

11 DESCRIPTION

Treprostinil Injection is a sterile solution of treprostinil, a prostacyclin mimetic, formulated for subcutaneous or intravenous administration. Treprostinil Injection is supplied in 20 mL multidose vials in four strengths, containing 20 mg, 50 mg, 100 mg, or 200 mg (1 mg/mL, 2.5 mg/mL, 5 mg/mL, or 10 mg/mL) of treprostinil. Each mL also contains 5.3 mg sodium chloride (except for the 10 mg/mL strength which contains 4.0 mg sodium chloride), 3 mg metacresol, 6.3 mg sodium citrate, and Water for Injection. Sodium hydroxide and hydrochloric acid may be added to adjust pH between 6.0 and 7.2.

Treprostinil is chemically stable at room temperature and neutral pH.

Treprostinil is (1R,2R,3aS,9aS)-[[2,3,3a,4,9,9a-hexahydro-2-hydroxy-1-[(3S)-3-hydroxyoctyl]-

1*H*-benz[f]inden-5-yl]oxy]acetic acid. Treprostinil has a molecular weight of 390.52 and a molecular formula of $C_{23}H_{34}O_5$.

The structural formula of treprostinil is:

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The major pharmacologic actions of treprostinil are direct vasodilation of pulmonary and systemic arterial vascular beds, and inhibition of platelet aggregation.

12.2 Pharmacodynamics

In animals, the vasodilatory effects reduce right and left ventricular afterload and increase cardiac output and stroke volume. Other studies have shown that treprostinil causes a dose-related negative inotropic and lusitropic effect. No major effects on cardiac conduction have been observed.

Treprostinil produces vasodilation and tachycardia. Single doses of treprostinil up to 84 mcg by inhalation produce modest and short-lasting effects on QTc, but this is apt to be an artifact of the rapidly changing heart rate. Treprostinil administered by the subcutaneous or intravenous routes has the potential to generate concentrations manyfold greater than those generated via the inhaled route; the effect on the QTc interval when treprostinil is administered parenterally has not been established.

12.3 Pharmacokinetics

The pharmacokinetics of continuous subcutaneous treprostinil are linear over the dose range of 2.5 to 125 ng/kg/min (corresponding to plasma concentrations of about 260 pg/mL to 18,250 pg/mL) and can be described by a two-compartment model. Dose proportionality at infusion rates greater than 125 ng/kg/min has not been studied.

Subcutaneous and intravenous administration of treprostinil demonstrated bioequivalence at steady state at a dose of 10 ng/kg/min.

Absorption

Treprostinil is relatively rapidly and completely absorbed after subcutaneous infusion, with an absolute bioavailability approximating 100%. Steady-state concentrations occurred in approximately 10 hours. Concentrations in patients treated with an average dose of 9.3 ng/kg/min were approximately 2,000 ng/L.

Distribution

The volume of distribution of the drug in the central compartment is approximately 14 L/70 kg ideal body weight. Treprostinil at *in vitro* concentrations well above what is clinically relevant was 91% bound to human plasma protein.

Metabolism and Excretion

Treprostinil is substantially metabolized by the liver, primarily by CYP2C8. In a study conducted in healthy volunteers using $[^{14}C]$ treprostinil, 79% and 13% of the subcutaneous dose was recovered in the urine and feces, respectively, over 10 days. Only 4% was excreted as unchanged treprostinil in the urine. Five metabolites were detected in the urine, ranging from 10% to 16% and representing 64% of the dose administered. Four of the metabolites are products of oxidation of the 3-hydroxyloctyl side chain and one is a glucuroconjugated derivative (treprostinil glucuronide). The identified metabolites do not appear to have activity.

The elimination of treprostinil (following subcutaneous administration) is biphasic, with a terminal elimination half-life of approximately 4 hours using a two-compartment model. Systemic clearance is approximately 30 L/hour for a 70 kg person.

Based on in vitro studies treprostinil does not inhibit or induce major CYP enzymes.

Specific Populations

Hepatic Insufficiency

In patients with portopulmonary hypertension and mild (n=4) or moderate (n=5) hepatic insufficiency, treprostinil at a subcutaneous dose of 10 ng/kg/min for 150 minutes had a C_{max} that was 2-fold and 4-fold, respectively, and an $AUC_{0-\infty}$ that was 3-fold and 5-fold, respectively, values observed in healthy subjects. Clearance in patients with hepatic insufficiency was reduced by up to 80% compared to healthy adults.

Renal Impairment

In patients with severe renal impairment requiring dialysis (n=8), administration of a single 1 mg dose of orally administered treprostinil pre- and post-dialysis resulted in an AUC_{0-inf} that was not significantly altered compared to healthy subjects.

Drug Interaction Studies

Effect of CYP2C8 Inhibitors and Inducers on Treprostinil

Coadministration of an oral formulation of treprostinil (treprostinil diolamine) with gemfibrozil (600 mg twice a day), a CYP2C8 enzyme inhibitor, doubles the AUC and C_{max} of treprostinil in healthy adults. Coadministration of an oral formulation of treprostinil (treprostinil diolamine) with rifampin (600 mg/day), a CYP2C8 enzyme inducer, decreases AUC of treprostinil by 22%.

Effect of Treprostinil on Cytochrome P450 Enzymes

In vitro studies of human hepatic microsomes showed that treprostinil does not inhibit cytochrome P450 (CYP) isoenzymes CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 and CYP3A. Additionally, treprostinil does not induce CYP1A2, CYP2B6, CYP2C9, CYP2C19, and CYP3A isoenzymes.

Effect of Other Drugs on Treprostinil

Human pharmacokinetic studies with an oral formulation of treprostinil (treprostinil diolamine) indicated that coadministration of the cytochrome P450 (CYP) 2C8 enzyme inhibitor gemfibrozil increases exposure (both C_{max} and AUC) to treprostinil. Coadministration of the CYP2C8 enzyme inducer rifampin decreases exposure to treprostinil.

Drug interaction studies have been carried out with treprostinil (oral or subcutaneous)

coadministered with acetaminophen (4 g/day), esomeprazole (40 mg/day), bosentan (250 mg/day), sildenafil (60 mg/day), warfarin (25 mg/day), and fluconazole (200 mg/day), respectively, in healthy volunteers. These studies did not show a clinically significant effect on the pharmacokinetics of treprostinil. Treprostinil does not affect the pharmacokinetics or pharmacodynamics of warfarin. The pharmacokinetics of R- and S-warfarin and the INR in healthy subjects given a single 25 mg dose of warfarin were unaffected by continuous subcutaneous infusion of treprostinil at an infusion rate of 10 ng/kg/min.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A two-year rat carcinogenicity study was performed with treprostinil inhalation at target doses of 5.26 mcg/kg/day, 10.6 mcg/kg/day, and 34.1 mcg/kg/day. There was no evidence for carcinogenic potential associated with treprostinil inhalation in rats at systemic exposure levels up to about 34 and 1 times the human exposure, when based on C_{max} and AUC of the average subcutaneous infusion rate achieved in clinical trials, respectively. *In vitro* and *in vivo* genetic toxicology studies did not demonstrate any mutagenic or clastogenic effects of treprostinil. Treprostinil sodium did not affect fertility or mating performance of male or female rats given continuous subcutaneous infusions at rates of up to 450 ng treprostinil/kg/min [about 59 times the recommended starting human subcutaneous infusion rate (1.25 ng/kg/min) and 8 times the average rate (9.3 ng/kg/min) achieved in clinical trials, on a ng/m² basis]. In this study, males were dosed from 10 weeks prior to mating and through the 2-week mating period. Females were dosed from 2 weeks prior to mating until gestational day 6.

Treprostinil diolamine did not demonstrate any carcinogenic effects in mouse or rat carcinogenicity studies. Oral administration of treprostinil diolamine to Tg.rasH2 mice at 0 mg/kg/day, 5 mg/kg/day, 10 mg/kg/day and 20 mg/kg/day in males and 0 mg/kg/day, 3 mg/kg/day, 7.5 mg/kg/day and 15 mg/kg/day in females daily for 26 weeks did not significantly increase the incidence of tumors. The exposures, when based on AUC, obtained at the highest dose levels used in males and females are about 7- and 15-fold, respectively, the human exposure of the average subcutaneous infusion rate achieved in clinical trials. Oral administration of treprostinil diolamine to Sprague Dawley rats at 0 mg/kg/day, 1 mg/kg/day, 3 mg/kg/day and 10 mg/kg/day daily for 104 weeks did not significantly increase the incidence of tumors. The exposures obtained at the highest dose levels used in males and females are about 18- and 26-fold, respectively, the human exposure of the average subcutaneous infusion rate achieved in clinical trials.

Treprostinil diolamine was tested *in vivo* in a rat micronucleus assay and did not induce an increased incidence of micronucleated polychromatic erythrocytes.

14 CLINICAL STUDIES

14.1 Clinical Trials in Pulmonary Arterial Hypertension (PAH)

Two 12-week, multicenter, randomized, double-blind studies compared continuous subcutaneous infusion of treprostinil to placebo in a total of 470 patients with NYHA Class II (11%), III (81%), or IV (7%) PAH. PAH was idiopathic/heritable in 58% of patients, associated with connective tissue diseases in 19%, and the result of congenital systemic-to-pulmonary shunts in 23%. The mean age was 45 (range 9 to 75 years). About 81% were female and 84% were Caucasian. Pulmonary hypertension had been diagnosed for a mean of 3.8 years. The primary endpoint of the studies was change in 6-minute walking distance, a standard measure of exercise capacity. There were many assessments of symptoms related to heart failure, but local discomfort and pain associated with treprostinil may have substantially unblinded those assessments. The 6-

minute walking distance and an associated subjective measurement of shortness of breath during the walk (Borg dyspnea score) were administered by a person not participating in other aspects of the study. Treprostinil was administered as a subcutaneous infusion, described in Section 2, DOSAGE AND ADMINISTRATION, and the dose averaged 9.3 ng/kg/min at Week 12. Few subjects received doses greater than 40 ng/kg/min. Background therapy, determined by the investigators, could include anticoagulants, oral vasodilators, diuretics, digoxin, and oxygen but not an endothelin receptor antagonist or epoprostenol. The two studies were identical in design and conducted simultaneously, and the results were analyzed both pooled and individually.

Hemodynamic Effects

As shown in Table 5, chronic therapy with treprostinil resulted in small hemodynamic changes consistent with pulmonary and systemic vasodilation.

Table 5: Hemodynamics during Chronic Administration of Treprostinil in Patients with PAH in 12-Week Studies

| Hemodynamic | Baseline | | Mean change at Week 12 | Mean change from baseline at Week 12 | |
|--------------------------------------|--------------------------|------------------------|---------------------------|--------------------------------------|--|
| Parameter | Treprostinil (N=204-231) | Placebo (N=215-235) | Treprostinil (N=163-199) | Placebo (N=182-215) | |
| CI (L/min/m ²) | 2.4 ± 0.88 | 2.2 ± 0.74 | $+0.12 \pm 0.58^*$ | -0.06 ± 0.55 | |
| PAPm (mmHg) | 62 ± 17.6 | 60 ± 14.8 | -2.3 ± 7.3* | +0.7 ± 8.5 | |
| RAPm (mmHg) | 10 ± 5.7 | 10 ± 5.9 | $-0.5 \pm 5.0^*$ | +1.4 ± 4.8 | |
| PVRI (mmHg/L/min/m ²) | 26 ± 13 | 25 ± 13 | -3.5 ± 8.2* | +1.2 ± 7.9 | |
| SVRI (mmHg/L/min/m ²) | 38 ± 15 | 39 ± 15 | -3.5 ± 12* | -0.80 ± 12 | |
| SvO ₂ (%) | 62 ± 100 | 60 ± 11 | $+2.0 \pm 10^*$ | -1.4 ± 8.8 | |
| SAPm (mmHg) | 90 ± 14 | 91 ± 14 | -1.7 ± 12 | -1.0 ± 13 | |
| HR (bpm) | 82 ± 13 | 82 ± 15 | -0.5 ± 11 | -0.8 ± 11 | |

^{*}Denotes statistically significant difference between treprostinil and placebo, p<0.05.

CI = cardiac index; PAPm = mean pulmonary arterial pressure; PVRI = pulmonary vascular resistance indexed; RAPm = mean right atrial pressure; SAPm = mean systemic arterial pressure; SVRI = systemic vascular resistance indexed; SvO_2 = mixed venous oxygen saturation; HR = heart rate.

Clinical Effects

The effect of treprostinil on 6-minute walk, the primary endpoint of the 12-week studies, was small and did not achieve conventional levels of statistical significance. For the combined populations, the median change from baseline on treprostinil was 10 meters and the median change from baseline on placebo was 0 meters from a baseline of approximately 345 meters.

Although it was not the primary endpoint of the study, the Borg dyspnea score was significantly improved by treprostinil during the 6-minute walk, and treprostinil also had a significant effect, compared with placebo, on an assessment that combined walking distance with the Borg dyspnea score. Treprostinil also consistently improved indices of dyspnea, fatigue and signs and symptoms of pulmonary hypertension, but these indices were difficult to interpret in the context of incomplete blinding to treatment assignment

resulting from infusion site symptoms.

14.2 Flolan®-To-Treprostinil Transition Study

In an 8-week, multicenter, randomized, double-blind, placebo-controlled study, patients on stable doses of Flolan® were randomly withdrawn from Flolan® to placebo or treprostinil. Fourteen treprostinil and 8 placebo patients completed the study. The primary endpoint of the study was the time to clinical deterioration, defined as either an increase in Flolan® dose, hospitalization due to PAH, or death. No patients died during the study.

During the study period, treprostinil effectively prevented clinical deterioration in patients transitioning from $Flolan^{@}$ therapy compared to placebo (Figure 1). Thirteen of 14 patients in the treprostinil arm were able to transition from $Flolan^{@}$ successfully, compared to only 1 of 8 patients in the placebo arm (p=0.0002).

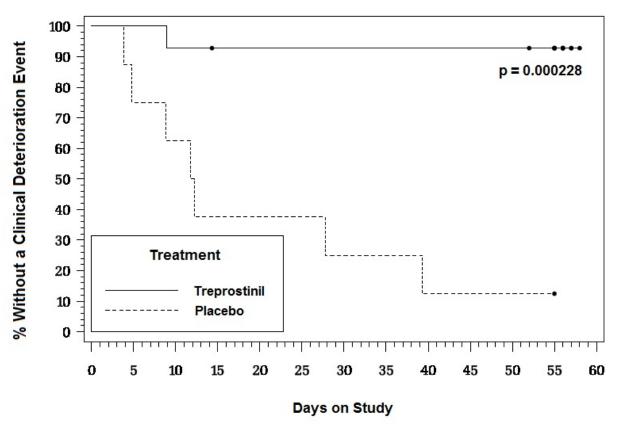


Figure 1: Time to Clinical Deterioration for PAH Patients Transitioned from Flolan \$ to Treprostinil or Placebo in an 8-Week Study

16 HOW SUPPLIED/STORAGE AND HANDLING

Treprostinil Injection is supplied in 20 mL multidose vials as sterile, clear, colorless to pale yellow solutions in Water for Injection, individually packaged in cartons. Unopened vials of Treprostinil Injection are stable until the date indicated when stored at 25°C (77°F), with excursions permitted to 2° to 30°C (36° to 86°F). A single vial of Treprostinil Injection should be used for no more than 30 days after the initial introduction into the vial.

Treprostinil Injection is supplied as:

20-mL vial containing 20 mg treprostinil (1 mg treprostinil per mL), carton of 1 (NDC 0703-0666-01).

20-mL vial containing 50 mg treprostinil (2.5 mg treprostinil per mL), carton of 1 (NDC 0703-0676-01).

20-mL vial containing 100 mg treprostinil (5 mg treprostinil per mL), carton of 1 (NDC 0703-0686-01).

20-mL vial containing 200 mg treprostinil (10 mg treprostinil per mL), carton of 1 (NDC 0703-0696-01).

KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.

17 PATIENT COUNSELING INFORMATION

Interruption of Therapy

Advise patients and caregivers to seek medical attention if they experience signs or symptoms of abrupt withdrawal of therapy or suspect a pump malfunction [see Warnings and Precautions (5.2)].

Overdose

Inform patients and their caregivers to seek medical attention if they experience signs or symptoms of Treprostinil Injection overdose [see Overdosage (10)].

All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA.

Manufactured In Croatia By:

Pliva Hrvatska d.o.o.

Zagreb, Croatia

Manufactured For:

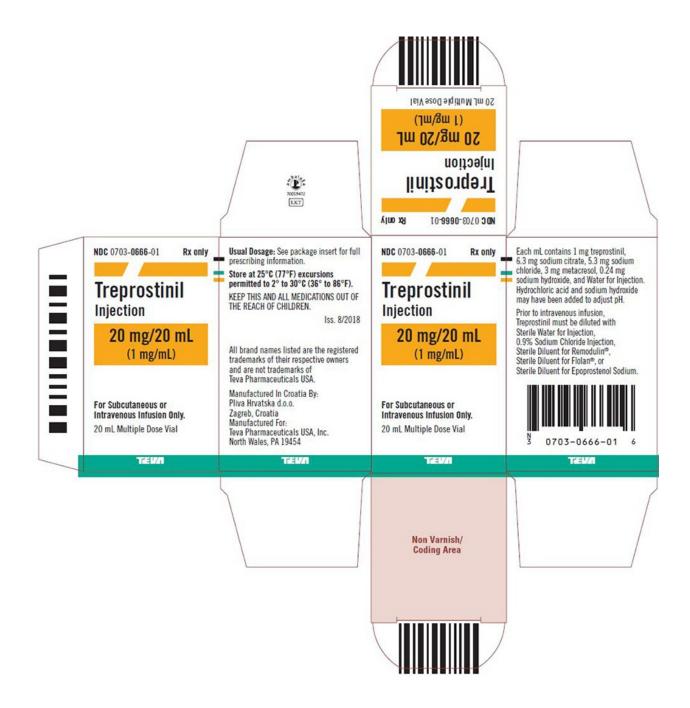
Teva Pharmaceuticals USA, Inc.

North Wales, PA 19454

Rev. A 5/2022

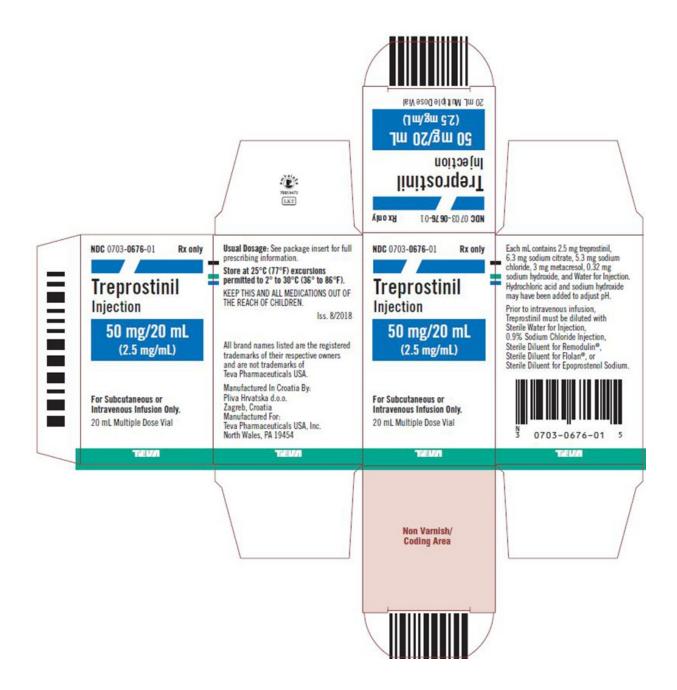
PRINCIPAL DISPLAY PANEL

NDC 0703-0666-01 Rx only Treprostinil Injection 20 mg/20 mL (1 mg/mL) For Subcutaneous or Intravenous Infusion Only. 20 mL Multiple Dose Vial TEVA



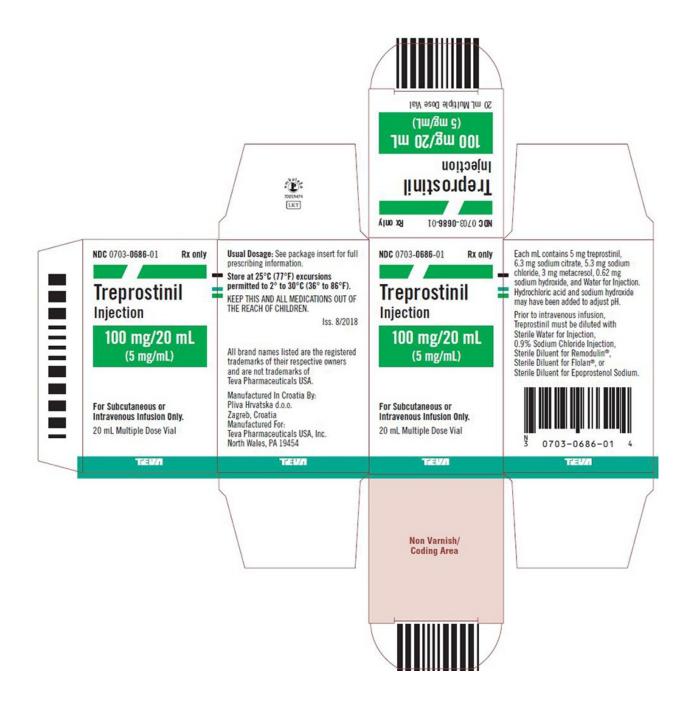
PRINCIPAL DISPLAY PANEL

NDC 0703-0676-01 Rx only Treprostinil Injection 50 mg/20 mL (2.5 mg/mL) For Subcutaneous or Intravenous Infusion Only. 20 mL Multiple Dose Vial TEVA



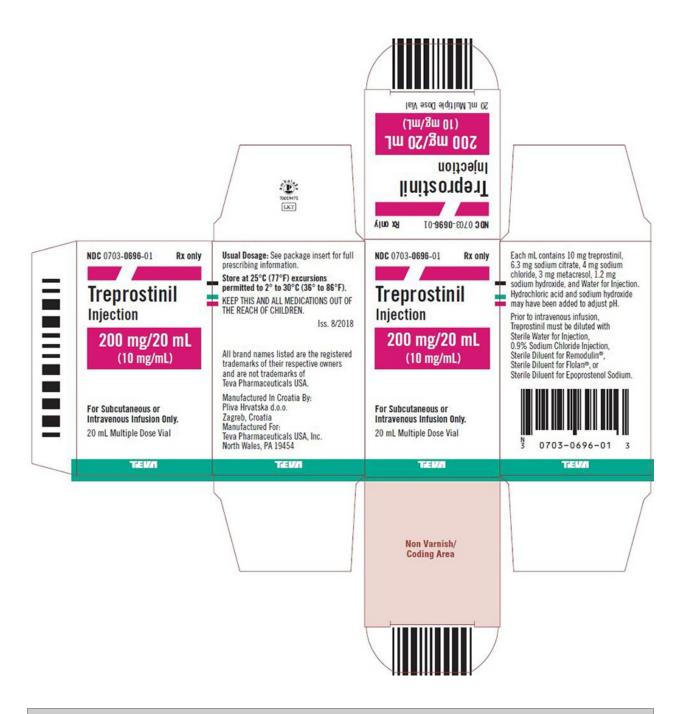
PRINCIPAL DISPLAY PANEL

NDC 0703-0686-01 Rx only Treprostinil Injection 100 mg/20 mL (5 mg/mL) For Subcutaneous or Intravenous Infusion Only. 20 mL Multiple Dose Vial TEVA



PRINCIPAL DISPLAY PANEL

NDC 0703-0696-01 Rx only Treprostinil Injection 200 mg/20 mL (10 mg/mL) For Subcutaneous or Intravenous Infusion Only. 20 mL Multiple Dose Vial TEVA



TREPROSTINIL

treprostinil injection, solution

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Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:0703-0666

Route of Administration INTRAVENOUS, SUBCUTANEOUS

Active Ingredient/Active Moiety

| ı | Ingredient Name | Basis of Strength | Strength |
|---|--|-------------------|----------------|
| | TREPROSTINIL (UNII: RUM6K67ESG) (TREPROSTINIL - UNII:RUM6K67ESG) | TREPROSTINIL | 20 mg in 20 mL |

Inactive Ingredients

Ingredient Name Strength

| METACRESOL (UNII: GGO4Y809LO) SODIUM CITRATE (UNII: 1Q73Q2JULR) WATER (UNII: 059QF0KO0R) SODIUM HYDROXIDE (UNII: 55X04QC32I) HYDROCHLORIC ACID (UNII: QTT17582CB) | SODIUM CHLORIDE (UNII: 451W47IQ8X) | |
|---|--------------------------------------|--|
| WATER (UNII: 059QF0KO0R) SODIUM HYDROXIDE (UNII: 55X04QC32I) | METACRESOL (UNII: GGO4Y809LO) | |
| SODIUM HYDROXIDE (UNII: 55X04QC32I) | SODIUM CITRATE (UNII: 1Q73Q2JULR) | |
| | WATER (UNII: 059QF0KO0R) | |
| HYDROCHLORIC ACID (UNII: QTT17582CB) | SODIUM HYDROXIDE (UNII: 55X04QC32I) | |
| | HYDROCHLORIC ACID (UNII: QTT17582CB) | |

| P | Packaging | | | | | | | |
|---|----------------------|--|-------------------------|-----------------------|--|--|--|--|
| # | Item Code | Package Description | Marketing Start Date | Marketing End Date | | | | |
| 1 | NDC:0703- 0666-01 | 1 in 1 CARTON | 09/30/2019 | | | | | |
| 1 | | 20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product | | | | | | |

| Marketing Information | | | | | | |
|-----------------------|---|-------------------------|-----------------------|--|--|--|
| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date | | | |
| ANDA | ANDA206648 | 09/30/2019 | | | | |
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TREPROSTINIL

treprostinil injection, solution

| Product Information | | | | | | |
|-------------------------|---------------------------|--------------------|---------------|--|--|--|
| Product Type | HUMAN PRESCRIPTION DRUG | Item Code (Source) | NDC:0703-0676 | | | |
| Route of Administration | INTRAVENOUS, SUBCUTANEOUS | | | | | |

| Active Ingredient/Active Moiety | | | | | |
|--|--------------|----------------|--|--|--|
| Ingredient Name Basis of Strength Strengt | | | | | |
| TREPROSTINIL (UNII: RUM6K67ESG) (TREPROSTINIL - UNII:RUM6K67ESG) | TREPROSTINIL | 50 mg in 20 mL | | | |

| Inactive Ingredients | | | | | | |
|--------------------------------------|--|--|--|--|--|--|
| Ingredient Name Strength | | | | | | |
| SODIUM CHLORIDE (UNII: 451W47IQ8X) | | | | | | |
| METACRESOL (UNII: GGO4Y809LO) | | | | | | |
| SODIUM CITRATE (UNII: 1Q73Q2JULR) | | | | | | |
| WATER (UNII: 059QF0KOOR) | | | | | | |
| SODIUM HYDROXIDE (UNII: 55X04QC32I) | | | | | | |
| HYDROCHLORIC ACID (UNII: QTT17582CB) | | | | | | |

| P | Packaging | | | | | | | | |
|---|----------------------|--|------------|--|--|--|--|--|--|
| # | Item Code | Item Code Package Description Marketing Start Date | | | | | | | |
| 1 | NDC:0703- 0676-01 | 1 in 1 CARTON | 09/30/2019 | | | | | | |
| 1 | | 20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product | | | | | | | |
| | | | | | | | | | |

| Marketing Information | | | | | | |
|---|------------|------------|--|--|--|--|
| Marketing Application Number or Monograph Marketing Start Marketing Category Citation Date Date | | | | | | |
| ANDA | ANDA206648 | 09/30/2019 | | | | |
| | | | | | | |

TREPROSTINIL

treprostinil injection, solution

Product Information

 Product Type
 HUMAN PRESCRIPTION DRUG
 Item Code (Source)
 NDC:0703-0686

Route of Administration INTRAVENOUS, SUBCUTANEOUS

Active Ingredient/Active Moiety

Ingredient Name
Basis of Strength
TREPROSTINIL (UNII: RUM6K67ESG) (TREPROSTINIL - UNII:RUM6K67ESG)
TREPROSTINIL (UNII: RUM6K67ESG) TREPROSTINIL
100 mg in 20 mL

Inactive Ingredients

Ingredient Name

Strength

SODIUM CHLORIDE (UNII: 451W47IQ8X)

METACRESOL (UNII: GGO4Y809LO)

SODIUM CITRATE (UNII: 1Q73Q2JULR)

WATER (UNII: 059QF0KO0R)

SODIUM HYDROXIDE (UNII: 55X04QC32I)

HYDROCHLORIC ACID (UNII: QTT17582CB)

Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|----------------------|--|-------------------------|-----------------------|
| 1 | NDC:0703- 0686-01 | 1 in 1 CARTON | 09/30/2019 | |
| 1 | | 20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product | | |

Marketing Information

| Marketing | Application Number or Monograph | Marketing Start | Marketing End |
|-----------|---------------------------------|-----------------|---------------|
| Category | Citation | Date | Date |
| ANDA | ANDA206648 | 09/30/2019 | |

TREPROSTINIL

treprostinil injection, solution

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| Product Type | HUMAN PRESCRIPTION DRUG | Item Code (Source) | NDC:0703-0696 |
|--------------|-------------------------|--------------------|---------------|
| | | | |

Route of Administration INTRAVENOUS, SUBCUTANEOUS

| Active Ingredient/Active Moiety | | | | | |
|--|--------------------------|-----------------|--|--|--|
| Ingredient Name | Basis of Strength | Strength | | | |
| TREPROSTINIL (UNII: RUM6K67ESG) (TREPROSTINIL - UNII:RUM6K67ESG) | TREPROSTINIL | 200 mg in 20 mL | | | |

| Inactive Ingredients | | | | | | |
|--------------------------------------|--|--|--|--|--|--|
| Ingredient Name Strengtl | | | | | | |
| SODIUM CHLORIDE (UNII: 451W47IQ8X) | | | | | | |
| METACRESOL (UNII: GGO4Y809LO) | | | | | | |
| SODIUM CITRATE (UNII: 1Q73Q2JULR) | | | | | | |
| WATER (UNII: 059QF0KO0R) | | | | | | |
| SODIUM HYDROXIDE (UNII: 55X04QC32I) | | | | | | |
| HYDROCHLORIC ACID (UNII: QTT17582CB) | | | | | | |

| P | Packaging | | | | | | | | |
|---|----------------------|--|-------------------------|-----------------------|--|--|--|--|--|
| # | Item Code | Package Description | Marketing Start Date | Marketing End Date | | | | | |
| | NDC:0703- 0696-01 | 1 in 1 CARTON | 09/30/2019 | | | | | | |
| 1 | | 20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product | | | | | | | |

| Marketing Information | | | |
|-----------------------|---|-------------------------|-----------------------|
| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
| ANDA | ANDA206648 | 09/30/2019 | |
| | | | |

Labeler - Teva Parenteral Medicines, Inc. (794362533)

Revised: 5/2022 Teva Parenteral Medicines, Inc.