

IMCIVREE- setmelanotide solution

Rhythm Pharmaceuticals, Inc

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use IMCIVREE safely and effectively. See full prescribing information for IMCIVREE.

IMCIVREE® (setmelanotide) injection, for subcutaneous use
Initial U.S. Approval: 2020

RECENT MAJOR CHANGES

Contraindications (4)	11/2023
Warnings and Precautions (5.3)	11/2023

INDICATIONS AND USAGE

IMCIVREE is a melanocortin 4 (MC4) receptor agonist indicated for chronic weight management in adult and pediatric patients 6 years of age and older with monogenic or syndromic obesity due to:

- Pro-opiomelanocortin (POMC), proprotein convertase subtilisin/kexin type 1 (PCSK1), or leptin receptor (LEPR) deficiency as determined by an FDA-approved test demonstrating variants in *POMC*, *PCSK1*, or *LEPR* genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (VUS). (1)
- Bardet-Biedl syndrome (BBS). (1)

Limitations of Use:

IMCIVREE is not indicated for the treatment of patients with the following conditions as IMCIVREE would not be expected to be effective:

- Obesity due to suspected POMC, PCSK1, or LEPR-deficiency with *POMC*, *PCSK1*, or *LEPR* variants classified as benign or likely benign. (1)
- Other types of obesity not related to POMC, PCSK1 or LEPR deficiency, or BBS, including obesity associated with other genetic syndromes and general (polygenic) obesity. (1)

DOSAGE AND ADMINISTRATION

- Select patients for treatment who have genetically determined or suspected deficiency of POMC, PCSK1, or LEPR, or who have a clinical diagnosis of BBS. (2.1, 2.2)
- Treat patients with variants in *POMC*, *PCSK1*, or *LEPR* genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (VUS) in the clinical context of the patient. (2.1)
- Recommended starting dosage injected subcutaneously for:
 - Adults and pediatric patients aged 12 years and older is 2 mg (0.2 mL) once daily for two weeks. (2.3)
 - Pediatric patients aged 6 to less than 12 years is 1 mg (0.1 mL) once daily for two weeks. (2.4)
- Recommended target dosage for adults and pediatric patients aged 6 years and older is 3 mg (0.3 mL) injected subcutaneously once daily. (2.3, 2.4)
- For recommended dosage in patients with renal impairment, see Full Prescribing Information. (2.5)
- For titration and administration recommendations, see Full Prescribing Information. (2.3, 2.4, 2.5, 2.7)
- Evaluate weight loss after 12-16 weeks of treatment in patients with POMC-, PCSK1-, or LEPR-deficiency or after 1 year in patients with BBS. See Full Prescribing Information for monitoring and discontinuation recommendations based on weight loss. (2.6)

DOSAGE FORMS AND STRENGTHS

Injection: 10 mg/mL solution in a 1 mL multiple-dose vial (3)

CONTRAINDICATIONS

Prior serious hypersensitivity to setmelanotide or any of the excipients in IMCIVREE (4)

WARNINGS AND PRECAUTIONS

- *Disturbance in sexual arousal*: Spontaneous penile erections in males and sexual adverse reactions in females have occurred. Inform patients that these events may occur and instruct patients who have an erection lasting longer than 4 hours to seek emergency medical attention. (5.1)
- *Depression and suicidal ideation*: Depression and suicidal ideation have occurred. Monitor patients for new onset or worsening depression or suicidal thoughts or behaviors. Consider discontinuing IMCIVREE if patients experience suicidal thoughts or behaviors, or clinically significant or persistent depression symptoms occur. (5.2)

- *Hypersensitivity Reactions*: Serious hypersensitivity reactions (e.g., anaphylaxis) have been reported. If suspected, advise patients to promptly seek medical attention and discontinue IMCIVREE. (5.3).
- *Skin Pigmentation and Darkening of Pre-Existing Nevi*: Generalized increased skin pigmentation and darkening of pre-existing nevi have occurred. Perform a full body skin examination prior to initiation and periodically during treatment to monitor pre-existing and new pigmentary lesions. (5.4)
- *Risk of Serious Adverse Reactions Due to Benzyl Alcohol Preservative in neonates and low birth weight infants*: IMCIVREE is not approved for use in neonates or infants. Serious and fatal adverse reactions including “gasping syndrome” can occur in neonates and low birth weight infants treated with benzyl alcohol-preserved drugs. (5.5)

-----**ADVERSE REACTIONS**-----

The most common adverse reactions (incidence ≥20%) included skin hyperpigmentation, injection site reactions, nausea, headache, diarrhea, abdominal pain, vomiting, depression, and spontaneous penile erection. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Rhythm Pharmaceuticals at 1-833-789-6337 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

- *Lactation*: not recommended when breastfeeding (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 11/2023

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

IMCIVREE is indicated for chronic weight management in adult and pediatric patients 6 years of age and older with monogenic or syndromic obesity due to:

- Pro-opiomelanocortin (POMC), proprotein convertase subtilisin/kexin type 1 (PCSK1), or leptin receptor (LEPR) deficiency as determined by an FDA-approved test demonstrating variants in *POMC*, *PCSK1*, or *LEPR* genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (VUS) [see *Dosage and Administration (2.1)*]
- Bardet-Biedl syndrome (BBS) [see *Dosage and Administration (2.2)*].

Limitations of Use:

IMCIVREE is not indicated for the treatment of patients with the following conditions as IMCIVREE would not be expected to be effective:

- Obesity due to suspected POMC, PCSK1, or LEPR deficiency with *POMC*, *PCSK1*, or *LEPR* variants classified as benign or likely benign
- Other types of obesity not related to POMC, PCSK1 or LEPR deficiency or BBS, including obesity associated with other genetic syndromes and general (polygenic) obesity

2 DOSAGE AND ADMINISTRATION

2.1 Patient Selection - POMC, PCSK1, or LEPR Deficiency

- Select patients for treatment with IMCIVREE who have genetically determined or suspected deficiency of POMC, PCSK1, or LEPR [see *Clinical Studies (14)*].
- Treat patients with variants in *POMC*, *PCSK1*, or *LEPR* genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (VUS) in the clinical context of the patient [see *Clinical Studies (14)*].
- Information on an FDA-approved test for the detection of variants in the POMC, PCSK1, or LEPR is available at <http://www.fda.gov/CompanionDiagnostics>.

2.2 Patient Selection - BBS

Select patients for treatment with IMCIVREE who have a clinical diagnosis of BBS [see *Clinical Studies (14)*].

2.3 Recommended dosage in Adults and Pediatric Patients 12 Years of Age and Older

In adult and pediatric patients 12 years of age and older, the recommended starting dosage is 2 mg (0.2 mL) injected subcutaneously once daily for 2 weeks, and the recommended target dosage is 3 mg (0.3 mL) injected subcutaneously once daily. Monitor patients for gastrointestinal (GI) adverse reactions [see *Adverse Reactions (6.1)*].

If the starting dosage is:

- Not tolerated, reduce the dosage to 1 mg (0.1 mL) once daily. If the 1 mg once daily dosage is tolerated for at least 1 week, increase the dosage to 2 mg (0.2 mL) once daily.
- Tolerated for 2 weeks, increase the dosage to 3 mg (0.3 mL) once daily. If the 3 mg once daily dosage is not tolerated, decrease the dosage to 2 mg (0.2 mL) once daily.

2.4 Recommended Dosage in Pediatric Patients 6 to Less Than 12 Years of Age

In pediatric patients aged 6 to less than 12 years, the recommended starting dosage is 1 mg (0.1 mL) injected subcutaneously once daily for 2 weeks, and the recommended target dosage is 3 mg (0.3 mL) injected subcutaneously once daily. Monitor patients for GI adverse reactions [see *Adverse Reactions (6.1)*].

If the starting dosage is:

- Not tolerated, reduce the dosage to 0.5 mg (0.05 mL) once daily. If the 0.5 mg once daily dosage is tolerated for at least 1 week, increase the dosage to 1 mg (0.1 mL) once daily.
- Tolerated for 2 weeks, increase the dosage to 2 mg (0.2 mL) once daily. If the 2 mg daily dosage is:
 - a. Not tolerated, reduce the dosage to 1 mg (0.1 mL) once daily.
 - b. Tolerated, increase the dosage to 3 mg (0.3 mL) once daily.

2.5 Recommended Dosage in Patients with Renal Impairment

Recommended Dosage in Patients with End Stage Renal Disease

IMCIVREE is not recommended for use in patients with end stage renal disease (eGFR less than 15 mL/min/1.73 m²).

Recommended Dosage in Patients with Severe Renal Impairment

For adults and pediatric patients 12 years of age and older with severe renal impairment (estimated glomerular filtration rate [eGFR] of 15 to 29 mL/min/1.73 m²), the recommended starting dosage is 0.5 mg (0.05 mL) injected subcutaneously once daily for 2 weeks, and the recommended target dosage is 1.5 mg (0.15 mL) injected subcutaneously once daily [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*]. Monitor patients for GI adverse reactions [see *Adverse Reactions (6.1)*].

If the recommended starting dosage is [see *Use in Specific Populations (8.6)*]:

- Tolerated for 2 weeks, increase the dosage to 1 mg (0.1 mL) once daily. If the 1 mg daily dosage is tolerated for at least 1 week, increase the dosage to 1.5 mg (0.15 mL) once daily.
- Not tolerated, discontinue IMCIVREE.

The use of IMCIVREE in pediatric patients 6 to less than 12 years of age with severe renal impairment is not recommended [see *Use in Specific Populations (8.6)*].

Recommended Dosage in Patients with Mild or Moderate Renal Impairment

The recommended dosage in patients with mild renal impairment (eGFR of 60 to 89 mL/min/1.73 m²) or moderate renal impairment (eGFR of 30 to 59 mL/min/1.73 m²) is the same as in those with normal kidney function [see *Dosage and Administration (2.3, 2.4)*].

2.6 Recommended Monitoring

Obesity Due to POMC, PCSK1, or LEPR Deficiency

- Periodically assess response to IMCIVREE therapy. In pediatric patients, evaluate the impact of weight loss on growth and maturation.
- Evaluate weight loss after 12-16 weeks of treatment. If a patient has not lost at least 5% of baseline body weight or 5% of baseline BMI for patients with continued growth potential, discontinue IMCIVREE as it is unlikely that the patient will achieve and sustain clinically meaningful weight loss with continued treatment.

Obesity and a Clinical Diagnosis of BBS

- Periodically assess response to IMCIVREE therapy. In pediatric patients, evaluate the impact of weight loss on growth and maturation.
- Evaluate weight loss after 1 year of treatment. If a patient has not lost at least 5% of baseline body weight or 5% of baseline BMI for patients aged less than 18 years, discontinue IMCIVREE as it is unlikely that the patient will achieve and sustain clinically meaningful weight loss with continued treatment.

2.7 Administration Instructions

- Prior to initiation of IMCIVREE, train patients or their caregivers on proper injection technique. Instruct patients to use a 1-mL syringe with a 28- or 29-gauge needle appropriate for subcutaneous injection.
- Remove IMCIVREE from the refrigerator approximately 15 minutes prior to administration. Alternatively, warm IMCIVREE prior to administration by rolling the vial gently between the palms of the hands for 60 seconds.
- Inspect IMCIVREE visually before use. It should appear clear to slightly opalescent, colorless to slightly yellow. Do not use if particulate matter or discoloration is seen.
- Administer IMCIVREE once daily, at the beginning of the day, without regard to meals.
- Inject IMCIVREE subcutaneously in the abdomen, thigh, or arm, rotating to a different site each day. Do not administer IMCIVREE intravenously or intramuscularly.
- If a dose is missed, resume the once daily regimen as prescribed with the next scheduled dose.

3 DOSAGE FORMS AND STRENGTHS

Injection: 10 mg/mL, clear to slightly opalescent, colorless to slightly yellow solution in a 1-mL multiple-dose vial.

4 CONTRAINDICATIONS

IMCIVREE is contraindicated in patients with a prior serious hypersensitivity reaction to setmelanotide or any of the excipients in IMCIVREE. Serious hypersensitivity reactions have included anaphylaxis [see *Warnings and Precautions (5.3)*].

5 WARNINGS AND PRECAUTIONS

5.1 Disturbance in Sexual Arousal

Sexual adverse reactions may occur in patients treated with IMCIVREE. Spontaneous penile erections in males (24%) and sexual adverse reactions in females (7% in IMCIVREE-treated patients and 0% in placebo-treated patients from an unapproved population) occurred in clinical studies with IMCIVREE [see *Adverse Reactions (6.1)*].

Inform patients that these events may occur and instruct patients who have an erection lasting longer than 4 hours to seek emergency medical attention.

5.2 Depression and Suicidal Ideation

Some drugs that target the central nervous system, such as IMCIVREE, may cause depression or suicidal ideation. Depression (26%) and suicidal ideation (11%) occurred in adults and pediatric patients in IMCIVREE clinical studies [see *Adverse Reactions (6.1)*]. Patients with a history of depression or suicidal ideation may be at increased risk for recurrent episodes while taking IMCIVREE.

Monitor patients for new onset or worsening of depression, suicidal thoughts or behavior, or any unusual changes in mood or behavior. Consider discontinuing IMCIVREE if patients experience suicidal thoughts or behaviors or if clinically significant or persistent depression symptoms occur.

5.3 Hypersensitivity Reactions

Serious hypersensitivity reactions, including anaphylaxis, have been reported with IMCIVREE. These reactions generally occurred within minutes to hours after injecting IMCIVREE [see *Adverse Reactions (6.2)*]. If hypersensitivity reactions occur, advise patients to promptly seek medical attention and discontinue use of IMCIVREE. IMCIVREE is contraindicated in patients with a prior serious hypersensitivity reaction to setmelanotide or any of the excipients in IMCIVREE.

5.4 Skin Pigmentation and Darkening of Pre-Existing Nevi

Generalized increased skin pigmentation occurred in the majority of patients (69%) treated with IMCIVREE in clinical trials [see *Adverse Reactions (6.1)* and *Clinical Pharmacology (12.1)*]. IMCIVREE may also cause darkening of pre-existing nevi due to its pharmacologic effect. This effect is reversible upon discontinuation of the drug.

Perform a full body skin examination prior to initiation and periodically during treatment with IMCIVREE to monitor pre-existing and new skin pigmentary lesions.

5.5 Risk of Serious Adverse Reactions Due to Benzyl Alcohol Preservative in Neonates and Low Birth Weight Infants

IMCIVREE is not approved for use in neonates or infants. Serious and fatal adverse reactions including “gasping syndrome” can occur in neonates and low birth weight infants treated with benzyl alcohol-preserved drugs, including IMCIVREE. The “gasping syndrome” is characterized by central nervous system depression, metabolic acidosis, and gasping respirations. The minimum amount of benzyl alcohol at which serious adverse reactions may occur is not known (IMCIVREE contains 10 mg of benzyl alcohol per mL) [see *Use in Specific Populations (8.4)*].

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Disturbance in Sexual Arousal [see *Warnings and Precautions (5.1)*]

- Depression and Suicidal Ideation [see Warnings and Precautions (5.2)]
- Hypersensitivity Reactions [see Warnings and Precautions (5.3)]
- Skin Pigmentation and Darkening of Pre-Existing Nevi [see Warnings and Precautions (5.4)]

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.

POMC, PCSK1, and LEPR Deficiency

The safety of IMCIVREE was evaluated in two 52-week, open-label clinical studies of 27 patients with obesity due to POMC, PCSK1, or LEPR deficiency with *POMC*, *PCSK1*, or *LEPR* genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (Study 1 and Study 2) [see Clinical Studies (14)].

Table 1 summarizes the adverse reactions that occurred in the open-label studies during the first 52 weeks of treatment in 3 or more patients treated with IMCIVREE.

Table 1: Adverse Reactions Occurring in 3 or More IMCIVREE-Treated Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency in Open-Label Clinical Studies of 52-Week Duration (Study 1 and Study 2)

	IMCIVREE-treated Patients N = 27 %
Injection site reaction ¹	96
Skin hyperpigmentation ²	78
Nausea	56
Headache	41
Diarrhea	37
Abdominal pain ³	33
Back pain	33
Fatigue	30
Vomiting	30
Depression ⁴	26
Upper respiratory tract infection	26
Spontaneous penile erection ⁵	23
Arthralgia	19
Asthenia	19
Dizziness	15
Dry mouth	15
Dry skin	15
Insomnia	15
Vertigo	15
Alopecia	11
Chills	11
Constipation	11
Influenza-like illness	11
Muscle spasm	11
Pain in extremity	11
Rash	11

¹ Includes injection site erythema, pruritus, edema, pain, induration, bruising, hypersensitivity, hematoma, nodule, and discoloration

² Includes skin hyperpigmentation, pigmentation disorders, skin discoloration

³ Includes abdominal pain and upper abdominal pain

⁴ Includes depressed mood

⁵ n = 13 male patients

Bardet-Biedl Syndrome

The safety of IMCIVREE was evaluated in a clinical study, which included a 14 week, randomized, double-blind, placebo-controlled period followed by a 52-week open-label, treatment period, in 44 patients with obesity and a clinical diagnosis of BBS (Study 3) [see *Clinical Studies (14)*]. The study duration was 66 weeks.

During the 14-week placebo-controlled period in Study 3, the most common reported adverse reactions in IMCIVREE-treated patients when compared to placebo-treated patients were hyperpigmentation disorders (67% vs 0%, respectively) and vomiting (11% vs 0%, respectively).

Adverse reactions were also evaluated during the 52-week active-treatment period, defined as the period from randomization to Week 52 in patients initially randomized to IMCIVREE, and from Week 14 to Week 66 in patients initially randomized to placebo. Table 2 summarizes the adverse reactions that occurred in 2 or more IMCIVREE-treated patients in Study 3 during the 52-week active treatment period.

Table 2: Adverse Reactions Occurring in 2 or More IMCIVREE-Treated Patients with Obesity and a Clinical Diagnosis of BBS During the 52-week Active-Treatment Period from the Start of IMCIVREE Treatment (Study 3)

Preferred Term	IMCIVREE-treated Patients N = 43¹ %
Hyperpigmentation Disorders ²	63
Injection Site Reactions ³	51
Nausea	26
Spontaneous penile erection ⁴	25
Vomiting	19
Diarrhea	14
Headache	7
Skin striae	7
Aggression	5
Fatigue	5

¹ 43 patients were treated with at least 1 dose of IMCIVREE; 1 patient initially randomized to placebo withdrew from the study prior to receiving IMCIVREE and is not included

² Includes skin hyperpigmentation, hair color changes, melanoderma, melanocytic nevus

³ Includes injection site erythema, pruritus, induration, pain, bruising, edema, reaction, hemorrhage, irritation, mass

⁴ n = 20 male patients

6.2 Postmarketing Experience

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

- Hypersensitivity, including anaphylaxis

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Discontinue IMCIVREE when pregnancy is recognized unless the benefits of therapy outweigh the potential risks to the fetus.

IMCIVREE contains the preservative benzyl alcohol. Because benzyl alcohol is rapidly metabolized by a pregnant woman, benzyl alcohol exposure in the fetus is unlikely. However, adverse reactions have occurred in premature neonates and low birth weight infants who received intravenously administered benzyl alcohol-containing drugs [see *Warnings and Precautions (5.5)* and see *Use in Specific Populations (8.4)*].

There are no available data with IMCIVREE in pregnant women to inform a drug-associated risk for major birth defects and miscarriage, or adverse maternal or fetal outcomes. For the general US population, weight loss offers no potential benefit to a pregnant woman and may result in fetal harm (see *Clinical Considerations*). In animal reproduction studies, setmelanotide subcutaneously administered to pregnant rats from before mating to the end of organogenesis was not teratogenic at doses 11 times the maximum recommended human dose (MRHD) of 3 mg. Setmelanotide subcutaneously administered to pregnant rabbits during the period of organogenesis was not teratogenic at clinical doses. Setmelanotide administered subcutaneously to pregnant rats during organogenesis through lactation did not result in adverse developmental effects at doses 7 times the MRHD (see *Data*).

The estimated background risk of birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risks

Maternal obesity increases the risk for congenital malformations, including neural tube defects, cardiac malformations, oral clefts, and limb reduction defects. In addition, weight loss during pregnancy may result in fetal harm including increased risk of small for gestational age. Appropriate weight gain based on pre-pregnancy weight is currently recommended for all pregnant women, including those who are already overweight or have obesity, due to the obligatory weight gain that occurs in maternal tissues during pregnancy.

Data

Animal Data

Embryo-fetal development was evaluated in female rats administered setmelanotide subcutaneously during mating to end of major organogenesis (14 days prior to mating to gestation day 17) at doses of 0.5, 3, and 5 mg/kg/day, resulting in exposures up to 11 times the human exposure at MRHD of 3 mg, based on AUC. Dose-related decreases in maternal food intake and body weight gain were observed during the pre-mating period but not during gestation. No evidence of embryo-fetal toxicity was observed.

Embryo-fetal development was evaluated in pregnant rabbits subcutaneously administered setmelanotide during organogenesis (gestation days 7 to 19) at doses of 0.05, 0.1, and 0.2 mg/kg/day, resulting in clinically relevant exposures at the MRHD,

based on AUC. Decreases in maternal food consumption and body weight were observed at all doses. Increases in embryo-fetal resorptions and post-implantation losses were observed at ≥ 0.1 mg/kg/day in the presence of significant maternal toxicity, and fetal body weights were 7% lower than controls at 0.2 mg/kg/day.

Pre- and post-natal development was evaluated in rats subcutaneously administered setmelanotide during organogenesis and continuing to weaning (gestation day 6 to lactation day 21) at doses of 0.5, 3.0, and 5.0 mg/kg/day, which resulted in exposures up to 7 times the human exposure at the MRHD, based on AUC. Pup body weights at birth were 9% lower than controls at 3.0 and 5.0 mg/kg/day, which was consistent with reduced maternal body weight gain and food consumption during gestation. No adverse setmelanotide-related effects on pup survival, growth, maturation, visual function, neurobehavioral performance, or reproductive performance were observed up to the highest dose.

8.2 Lactation

Risk Summary

Treatment with IMCIVREE is not recommended for use while breastfeeding.

IMCIVREE from multiple-dose vials contains the preservative benzyl alcohol. Because benzyl alcohol is rapidly metabolized by a lactating woman, benzyl alcohol exposure in the breastfed infant is unlikely. However, adverse reactions have occurred in premature neonates and low birth weight infants who received intravenously administered benzyl alcohol-containing drugs [see *Warnings and Precautions (5.5)* and see *Use in Specific Populations (8.4)*].

There is no information on the presence of setmelanotide or its metabolites in human milk, the effects on the breastfed infant, or the effects on milk production. However, setmelanotide is present in the milk of rats (see *Data*). When a drug is present in rat milk, it is likely that the drug will be present in human milk.

Data

Dose-related setmelanotide concentrations were observed in milk 2 hours after subcutaneous injection in the preweaning phase of a pre- and post-natal development study in rats. No quantifiable setmelanotide concentrations were detected in plasma from nursing pups on post-natal Day 11.

8.4 Pediatric Use

The safety and effectiveness of IMCIVREE have been established for chronic weight management in pediatric patients aged 6 years and older with obesity due to:

- POMC, PCSK1, or LEPR deficiency with variants in POMC, PCSK1, or LEPR genes that are interpreted as pathogenic, likely pathogenic, or of uncertain significance (VUS) [see *Clinical Studies (14.1)*]
- BBS [see *Clinical Studies (14.2)*]

Use of IMCIVREE for these indications is supported by evidence from 2 one-year, open-label studies that included 9 pediatric patients with POMC, PCSK1, or LEPR deficiency, and from one 66-week study, which included a 14-week, randomized, double-blind, placebo-controlled period followed by a 52-week open-label period, and included 22 pediatric patients with BBS [see *Clinical Studies (14.1, 14.2)*].

The safety and effectiveness of IMCIVREE have not been established in pediatric patients younger than 6 years old.

IMCIVREE is not approved for use in neonates or infants. Serious adverse reactions including fatal reactions and the “gasping syndrome” occurred in premature neonates

and low birth weight infants in the neonatal intensive care unit who received drugs containing benzyl alcohol as a preservative. In these cases, benzyl alcohol dosages of 99 to 234 mg/kg/day produced high levels of benzyl alcohol and its metabolites in the blood and urine (blood levels of benzyl alcohol were 0.61 to 1.378 mmol/L). Additional adverse reactions included gradual neurological deterioration, seizures, intracranial hemorrhage, hematologic abnormalities, skin breakdown, hepatic and renal failure, hypotension, bradycardia, and cardiovascular collapse. Preterm, low-birth weight infants may be more likely to develop these reactions because they may be less able to metabolize benzyl alcohol. The minimum amount of benzyl alcohol at which serious adverse reactions may occur is not known (IMCIVREE contains 10 mg of benzyl alcohol) [see *Warnings and Precautions* (5.5)].

8.5 Geriatric Use

Clinical studies of IMCIVREE did not include patients aged 65 and over. It is not known whether geriatric patients would respond differently than younger adult patients.

8.6 Renal Impairment

Patients with severe renal impairment have a higher exposure of setmelanotide relative to patients with normal kidney function. Reduce the recommended starting and target dosage of IMCIVREE in adults and pediatric patients 12 years of age and older with severe renal impairment (eGFR 15-29 mL/min/1.73 m²). The use of IMCIVREE in pediatric patients 6 to less than 12 years of age with severe renal impairment is not recommended [see *Dosage and Administration* (2.5), *Clinical Pharmacology* (12.3)].

The recommended dosage in patients with mild (eGFR of 60-89 mL/min/1.73 m²) or moderate renal impairment (eGFR of 30-59 mL/min/1.73 m²) is the same as those with normal kidney function [see *Clinical Pharmacology* (12.3)].

IMCIVREE is not recommended for use in patients with end stage renal disease (eGFR less than 15 mL/min/1.73 m²).

10 OVERDOSAGE

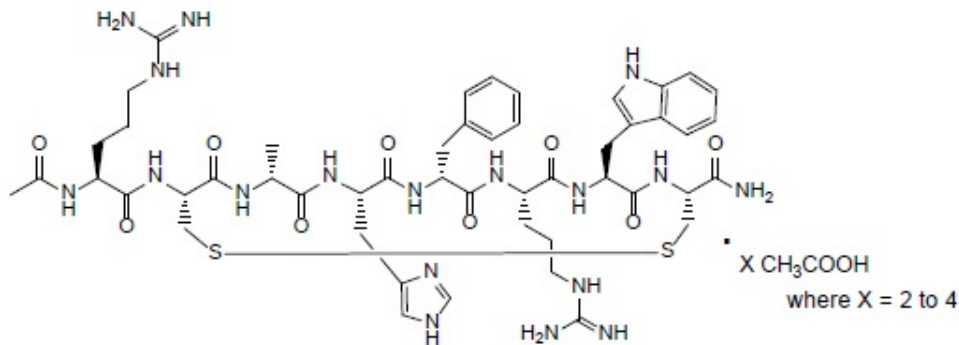
In the event of an overdose initiate appropriate supportive treatment according to the patient's clinical signs and symptoms.

11 DESCRIPTION

IMCIVREE contains setmelanotide acetate, a melanocortin 4 (MC4) receptor agonist. Setmelanotide is an 8 amino acid cyclic peptide analog of endogenous melanocortin peptide α -MSH (alpha-melanocyte stimulating hormone).

The chemical name for setmelanotide acetate is acetyl-L-arginyl-L-cysteinyl-D-alanyl-L-histidinyl-D-phenylalanyl-L-arginyl-L-tryptophanyl-L-cysteinamide cyclic (2→8)-disulfide acetate. Its molecular formula is C₄₉H₆₈N₁₈O₉S₂ (anhydrous, free-base), and molecular mass is 1117.3 Daltons (anhydrous, free-base).

The chemical structure of setmelanotide acetate is:



IMCIVREE (setmelanotide) injection is a sterile clear to slightly opalescent, colorless to slightly yellow solution for subcutaneous use. Each 1 mL of IMCIVREE contains 10 mg of setmelanotide provided as setmelanotide acetate, which is a salt with 2 to 4 molar equivalents of acetate, and the following inactive ingredients: 10 mg benzyl alcohol, 8 mg carboxymethylcellulose sodium (average MWt 90,500), 1 mg edetate disodium dihydrate, 100 mg N-(carbonyl-methoxypolyethylene glycol 2000)-1,2-distearoyl-glycero-3- phosphoethanolamine sodium salt, 11 mg mannitol, 5 mg phenol, and Water for Injection. The pH of IMCIVREE is 5 to 6.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Setmelanotide is an MC4 receptor agonist with 20-fold less activity at the melanocortin 3 (MC3) and melanocortin 1 (MC1) receptors. MC4 receptors in the brain are involved in regulation of hunger, satiety, and energy expenditure. Based on nonclinical evidence, setmelanotide may re-establish MC4 receptor pathway activity to reduce food intake and promote weight loss through decreased caloric intake and increased energy expenditure in patients with obesity due to POMC, PCSK1, or LEPR deficiency, or BBS associated with insufficient activation of the MC4 receptor. The MC1 receptor is expressed on melanocytes, and activation of this receptor leads to accumulation of melanin and increased skin pigmentation independently of ultraviolet light [see *Warnings and Precautions (5.4) and Adverse Reactions (6.1)*].

12.2 Pharmacodynamics

At a dose 2.3 times the maximum recommended dose, IMCIVREE does not prolong the QT interval to any clinically relevant extent.

Energy Expenditure

Short-term administration of IMCIVREE in 12 otherwise healthy patients with obesity increased resting energy expenditure and shifted substrate oxidation to fat. The safety and effectiveness of IMCIVREE have not been established in such patients and IMCIVREE is not approved to treat such patients [see *Indications and Usage (1)*].

12.3 Pharmacokinetics

The mean steady state setmelanotide $C_{max,ss}$, AUC_{tau} , and trough concentration for a 3-mg dose administered subcutaneously once daily was 37.9 ng/mL, 495 h*ng/mL, and 6.77 ng/mL, respectively. Steady-state plasma concentrations of setmelanotide were achieved within 2 days with daily dosing of 1-3 mg setmelanotide. The accumulation of setmelanotide in the systemic circulation during once-daily dosing over 12 weeks was approximately 30%. Setmelanotide AUC and C_{max} increased proportionally following multiple-dose subcutaneous administration in the proposed dose range (1-3 mg).

Absorption

After subcutaneous injection of IMCIVREE, plasma concentrations of setmelanotide reached maximum concentrations at a median t_{max} of 8 h after dosing.

Distribution

The mean apparent volume of distribution of setmelanotide after subcutaneous administration of IMCIVREE 3 mg once daily was estimated from the population pharmacokinetics model to be 48.7 L. Protein binding of setmelanotide is 79.1%.

Elimination

The effective elimination half-life ($t_{1/2}$) of setmelanotide was approximately 11 hours. The total apparent steady state clearance of setmelanotide following subcutaneous administration of IMCIVREE 3 mg once daily was estimated from the population PK model to be 4.86 L/h.

Metabolism

Setmelanotide is expected to be metabolized into small peptides by catabolic pathways.

Excretion

Approximately 39% of the administered setmelanotide dose was excreted unchanged in urine during the 24-hour dosing interval following subcutaneous administration of 3 mg once daily.

Specific Populations

No clinically significant differences in the pharmacokinetics of setmelanotide were observed based on sex or disease. The effect of age 65 years or older, pregnancy, or hepatic impairment on the pharmacokinetics of setmelanotide is unknown.

Pediatric Patients

IMCIVREE has been evaluated in pediatric patients aged 6 to less than 12 years and aged 12 to 17 years. Simulations from the population pharmacokinetic analyses suggest that AUC and C_{max} are 100% and 92% higher in pediatric patients 6 to less than 12 years as compared to patients greater than or equal to 17 years. For patients aged 12 to 17 years, the setmelanotide AUC and C_{max} were 44% and 37% higher, respectively as compared to patients greater than or equal to 17 years [see *Dosage and Administration* (2.3, 2.4)].

Patients with Renal Impairment

Exposure parameters, AUC_{0-t} and AUC_{0-inf} , were approximately 13%-15%, 34%-35%, and 86%-96% higher for patients with mild, moderate, and severe renal impairment, respectively, as compared to patients with normal renal function [see *Dosage and Administration* (2.5)].

Renal impairment did not appear to affect plasma protein binding. The average fraction unbound (f_u) was approximately 0.2 and was independent of renal function.

Drug Interaction Studies

In vitro assessment of drug-drug interactions

Setmelanotide has low potential for pharmacokinetic drug-drug interactions related to cytochrome P450 (CYP), transporters and plasma protein binding.

In vivo assessment of drug-drug interactions

No clinical studies evaluating the drug-drug interaction potential of setmelanotide have been conducted.

12.6 Immunogenicity

The observed incidence of anti-drug antibodies (ADA) is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of ADA in the studies described below with the incidence of ADA in other studies, including those of setmelanotide or of other setmelanotide products.

In patients with POMC, PCSK1, or LEPR deficiency or in patients with BBS, there is insufficient information to characterize the ADA response to setmelanotide and the effects of ADA on pharmacokinetics, pharmacodynamics, safety, or effectiveness of setmelanotide products.

During the 1-year treatment period in Study 2 in patients with obesity due to LEPR deficiency [see *Clinical Studies (14.1)*], 3/7 (43%) of IMCIVREE-treated patients developed antibodies to endogenous alpha-melanocyte stimulating hormone (MSH). Of these 3 patients, 2 tested positive post-IMCIVREE treatment and 1 was positive pre-treatment. Because of the limited sample size, the effect of these antibodies on the pharmacokinetics, pharmacodynamics, safety, and/or effectiveness of setmelanotide products or consequences from these antibodies against endogenous alpha-MSH could not be determined. None of the IMCIVREE-treated patients with POMC-deficiency developed antibodies to alpha-MSH.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Setmelanotide was not carcinogenic in Tg.rasH2 mice at doses up to 10 mg/kg/day when given subcutaneously for 26 weeks.

Setmelanotide was not mutagenic or clastogenic in a bacterial reverse mutation test, an *in vitro* chromosome aberration test in human lymphocyte cultures, or an *in vivo* bone marrow micronucleus study in rats.

There were no effects on the fertility of male rats subcutaneously administered up to 3.0 mg/kg/day setmelanotide, which represents 9 times the MRHD of 3 mg, based on AUC. No effects on the fertility of female rats were observed with subcutaneous administration up to 5 mg/kg/day setmelanotide, which represents 11 times the MRHD of 3 mg, based on AUC.

14 CLINICAL STUDIES

14.1 POMC, PCSK1, and LEPR Deficiency

The safety and efficacy of IMCIVREE for chronic weight management in adult and pediatric patients 6 years of age and older with obesity due to POMC, PCSK1, or LEPR deficiency were assessed in 2 identically designed, 1-year, open-label studies, each with an 8-week, double-blind withdrawal period.

- Study 1 (NCT02896192) enrolled patients aged 6 years and above with obesity and genetically confirmed or suspected POMC or PCSK1 deficiency.
- Study 2 (NCT03287960) enrolled patients aged 6 years and above with obesity and genetically confirmed or suspected LEPR deficiency.

The studies enrolled patients with homozygous or presumed compound heterozygous pathogenic, likely pathogenic variants, or VUS for either the POMC or PCSK1 genes

(Study 1) or the LEPR gene (Study 2). In both studies, the local genetic testing results were centrally confirmed using Sanger sequencing. Patients with double heterozygous variants in 2 different genes were not eligible for treatment with IMCIVREE. In both studies, adult patients had a body mass index (BMI) of ≥ 30 kg/m². Weight in pediatric patients was $\geq 95^{\text{th}}$ percentile using growth chart assessments.

IMCIVREE dose titration occurred over a 2- to 12-week period, followed by a 10-week, open-label treatment period with IMCIVREE. Patients who achieved at least a 5-kilogram weight loss (or at least 5% weight loss if baseline body weight was <100 kg) at the end of the open-label treatment period continued into a double-blind withdrawal period lasting 8 weeks, including 4 weeks of IMCIVREE followed by 4 weeks of placebo (investigators and patients were blinded to this sequence). Following the withdrawal sequence, patients re-initiated treatment with IMCIVREE at their therapeutic dose for up to 32 weeks.

Efficacy analyses were conducted in 21 patients (10 in Study 1 and 11 in Study 2) who had completed at least 1 year of treatment at the time of a prespecified data cutoff. Six additional patients enrolled in the studies (4 in Study 1 and 2 in Study 2) who had not yet completed 1 year of treatment at the time of the cutoff were not included in the efficacy analyses.

Of the 21 patients included in the efficacy analysis in Studies 1 and 2, 62% were adults and 38% were pediatric patients aged 16 years or younger.

- In Study 1, 50% of patients were female, 70% were White, and the median BMI was 40 kg/m² (range: 26.6-53.3) at baseline.
- In Study 2, 73% of patients were female, 91% were White, and the median BMI was 46.6 kg/m² (range: 35.8-64.6) at baseline.

Effect of IMCIVREE on Body Weight in Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency

In Study 1, 80% of patients with obesity due to POMC or PCSK1 deficiency met the primary endpoint, achieving a $\geq 10\%$ weight loss after 1 year of treatment with IMCIVREE.

In Study 2, 46% of patients with obesity due to LEPR deficiency achieved a $\geq 10\%$ weight loss after 1 year of treatment with IMCIVREE (Table 3).

Table 3: Body Weight (kg) - Proportion of IMCIVREE-Treated Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency Who Achieved at Least 10% Weight Loss from Baseline at 1 Year in Studies 1 and 2

Parameter	Statistic	Study 1 (POMC or PCSK1) (N=10)	Study 2 (LEPR) (N=11)
Patients Achieving at Least 10% Weight Loss at Year 1	n (%)	8 (80%)	5 (46%)
	95% CI ¹	(44.4%, 97.5%)	(16.8%, 76.6%)
	P-value ²	<0.0001	0.0002

Abbreviations: CI = confidence interval

Note: The analysis set includes patients who received at least 1 dose of study drug and had at least 1 baseline assessment.

¹ From the Clopper-Pearson (exact) method

² Testing the null hypothesis: Proportion =5%

When treatment with IMCIVREE was withdrawn in the 16 patients who had lost at least 5 kg (or 5% of body weight if baseline body weight was <100 kg) during the 10-week open-label period in Studies 1 and 2, these patients gained an average of 5.5 kg in Study

1 and 5.0 kg in Study 2 over 4 weeks. Re-initiation of treatment with IMCIVREE resulted in subsequent weight loss (see Figure 1).

Table 4: Percent Change from Baseline in Weight in IMCIVREE-Treated Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency at 1 Year in Studies 1 and 2 (Full Analysis Set)

Parameter	Statistic	Study 1 (POMC or PCSK1) (N=10)	Study 2 (LEPR) (N=11)
Baseline Body Weight (kg)	Mean (SD)	118.7 (37.5)	133.3 (26.0)
	Median	115.0	132.3
	Min, Max	55.9, 186.7	89.4, 170.4
1-Year Body Weight (kg)	Mean (SD)	89.8 (29.4)	119.2 (27.0)
	Median	84.1	120.3
	Min, Max	54.5, 150.5	81.7, 149.9
Percent Change from Baseline to 1 Year (%)	Mean (SD)	-23.1 (12.1)	-9.7 (8.8)
	Median	-26.7	-9.8
	Min, Max	-35.6, -1.2	-23.3, 0.1
	LS Mean ¹	-23.12	-9.65
	95% CI ¹	(-31.9, -14.4)	(-16.0, -3.3)
	P-value ²	0.0003	0.0074

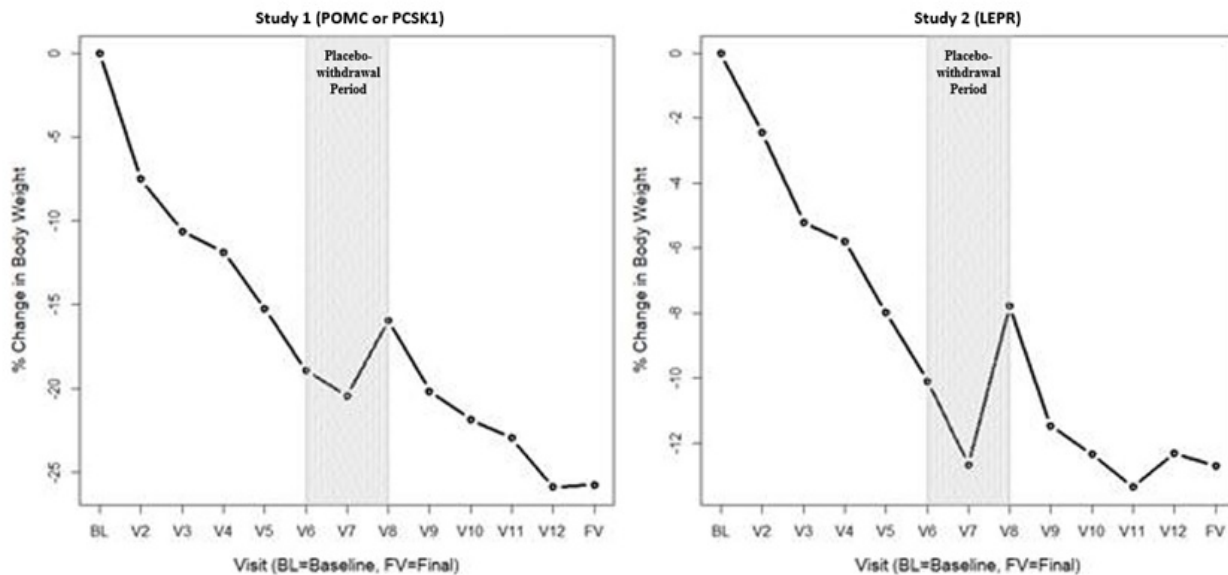
Abbreviations: CI = confidence interval; SD = standard deviation

Note: This analysis includes patients who received at least 1 dose of study drug, had at least 1 baseline assessment.

¹ ANCOVA model containing baseline body weight as a covariate

² Testing the null hypothesis: mean percent change=0

Figure 1: Mean Percent Change in Body Weight from Baseline in Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency by Visit (Study 1 [N=9] and Study 2 [N=7])



BL=Baseline (day of first dose)

V2 to V3 = variable dose titration period (2 to 12 weeks)

V3 to V6 = 10-week open-label treatment period

V6 to V8 = 8-week placebo withdrawal period (4 weeks active, 4 weeks placebo)

V8 to V12 = 32-week open-label treatment period

FV = Final visit; time point for primary efficacy analysis

Note: This figure includes patients who had lost at least 5 kg (or 5% of body weight if baseline body weight was <100 kg) during the 10-week open-label period.

Effect of IMCIVREE on Hunger in Patients with Obesity due to POMC, PCSK1, or LEPR Deficiency

In Studies 1 and 2, patients 12 years and older self-reported their daily maximal hunger in a diary, assessed by the Daily Hunger Questionnaire Item 2. Hunger was scored on an 11-point numeric rating scale from 0 (“not hungry at all”) to 10 (“hungriest possible”). Weekly means of daily hunger scores at Baseline and Week 52 are summarized in Table 5

Table 5: Daily Hunger Scores - Change from Baseline at 1 Year in IMCIVREE-Treated Patients Aged ≥12 Years with Obesity due to POMC, PCSK1, or LEPR Deficiency in Studies 1 and 2 with Available Hunger Data

Parameter	Statistic	Hunger in 24 Hours	
		Study 1 (POMC or PCSK1 (N=8))	Study 2 (LEPR) (N=8)
Baseline Hunger Score	Median	7.9	7.0
	Median	7.0, 9.1	5.0, 8.4
1-Year Hunger Score	Min, Max	5.5	4.4
	Min, Max	2.5, 8.0	2.1, 8.0
Change from Baseline to 1 Year	Median	-2.0	-3.4
	Min, Max	-6.5, -0.1	-4.7, 1.0

Note: This analysis includes patients aged 12 years and older who received at least 1 dose of study drug and had available data. Three patients in Study 2 had missing hunger data at Week 52. Hunger score was captured in a daily diary and was averaged to calculate a weekly score for analysis. Hunger ranged from 0 to 10 on an 11-point scale where 0 = “not hungry at all” and 10 = “hungriest possible.”

Hunger scores generally worsened during the double-blind, placebo withdrawal period among those patients who had experienced an improvement from baseline, and scores improved when IMCIVREE was reinitiated.

Supportive of IMCIVREE’s effect on weight loss, there were general numeric improvements in blood pressure, lipids, glycemic parameters, and waist circumference. However, because of the limited number of patients studied and the lack of a control group, the treatment effects on these parameters could not be accurately quantified.

14.2 Bardet-Biedl Syndrome

The safety and efficacy of IMCIVREE for chronic weight management in adult and pediatric patients aged 6 years and older with obesity and a clinical diagnosis of Bardet-Biedl syndrome (BBS) were assessed in a 66-week clinical study, which included a 14-week randomized, double-blind, placebo-controlled period and a 52-week open-label period (Study 3 [NCT03746522]). The study enrolled patients aged 6 years and above with obesity and a clinical diagnosis of BBS. Adult patients had a BMI of ≥30 kg/m² and pediatric patients had weight ≥97th percentile using growth chart assessments.

In Study 3, eligible patients entered a 14-week, randomized, double-blind, placebo-controlled treatment period (Period 1) in which patients received IMCIVREE or placebo,

followed by a 52-week open-label treatment period (Period 2) in which all patients received IMCIVREE. To maintain the blind during Period 1, dose titration to a fixed dose of 3 mg given subcutaneously once daily was performed during the first 2 weeks of both Period 1 and Period 2.

Efficacy analyses were conducted in 44 patients at the end of Period 1 (Week 14, placebo-controlled data) and in 31 patients during the active-treatment period, defined as the period from randomization to Week 52 in patients initially randomized to IMCIVREE, and from Week 14 to Week 66 in patients initially randomized to placebo. Analyses of the active-treatment period include patients who had either completed 52 weeks from the start of IMCIVREE treatment or discontinued the study early at the time of the prespecified data cutoff.

A total of 44 patients with obesity and a clinical diagnosis of BBS were enrolled; 50% were adults, 32% were aged 12 to <18 years, and 18% were aged 6 to <12 years; 46% were male; 77% were White, 5% were Black, 2% were Asian, and 16% had an unknown or not reported race; 2% were Hispanic or Latino and 14% had an unknown or not reported ethnicity; and the mean BMI was 41.5 kg/m² (range: 24.4-66.1 kg/m²) at baseline.

Effect of IMCIVREE on BMI in Patients with Obesity and a Clinical Diagnosis of BBS

In patients aged ≥6 years with obesity and a clinical diagnosis of BBS in Study 3, the mean percent change in BMI after 52 weeks of IMCIVREE treatment was -7.9% (Table 6), 61.3% of patients achieved a ≥5% BMI decrease from baseline, and 38.7% had a ≥10% decrease in BMI (Table 7).

Table 6: Percent Change from Baseline in BMI after 52 Weeks from the Start of IMCIVREE Treatment in Patients Aged ≥6 Years with Obesity and a Clinical Diagnosis of BBS (Study 3)*

Statistic	Result
Baseline BMI (kg/m²)	
Mean (SD)	41.8 (9.0)
Median	41.5
Min, Max	24.4, 61.3
BMI after 52 Weeks (kg/m²)	
Mean (SD)	38.6 (9.2)
Median	39.1
Min, Max	20.4, 60.9
95% CI	35.2, 41.9
Percent Change from Baseline to 52 Weeks (%)	
Mean (SD)	-7.9 (6.7)
Median	-8.8
Min, Max	-25.4, 5.3
95% CI	-10.4, -5.5
Abbreviations: CI = confidence interval; SD = standard deviation	
*BBS patients (N=31) who completed 52 weeks from the start of IMCIVREE treatment or discontinued the study early. Five patients who discontinued study early were defined as 0 percent change.	

Table 7: Proportion of IMCIVREE-Treated Patients Aged ≥6 Years with Obesity and a Clinical Diagnosis of BBS Who Achieved at Least 5% and 10% BMI Decrease from Baseline After 52 Weeks from the Start of IMCIVREE Treatment (Study 3)

Parameter	Statistic	Result
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Patients* Achieving at Least 5% BMI Loss at 52 Weeks	%	61.3
	95% CI	42.2, 78.2
Patients* Achieving at Least 10% BMI Loss at 52 Weeks	%	38.7
	95% CI	21.8, 57.8

Abbreviations: CI = confidence interval; SD = standard deviation

*BBS patients (N=31) who completed 52 weeks from the start of IMCIVREE treatment or discontinued the study early. Five patients who discontinued study early were defined as not achieving 5% or 10% reduction.

During the 14-week double-blind, placebo-controlled portion of Study 3 (Period 1), there was a statistically significant difference in BMI reduction between the IMCIVREE-treated group and the placebo-treated group (Table 8).

Table 8. Percent Change from Baseline in BMI after 14 Weeks of Treatment in Patients Aged ≥ 6 Years with Obesity and a Clinical Diagnosis of BBS (Study 3)*

Parameter	IMCIVREE (N = 22)	Placebo (N = 22)
Baseline BMI (SD)	41.4 (10.0)	41.6 (10.1)
BMI at 14 Weeks (SD)	39.5 (9.9)	41.6 (9.9)
Percent Change from Baseline to 14 Weeks (SD)	-4.6 (4.1)	-0.1 (2.3)
Placebo-Adjusted Difference	-4.5	
95% CI	-6.5, -2.5	

Abbreviations: CI = confidence interval; SD = standard deviation

*BBS subjects who completed the 14-week double-blind, placebo-controlled period (N=44).

Effect of IMCIVREE on Hunger in Patients with Obesity and a Clinical Diagnosis of BBS

In Study 3, patients 12 years and older who were able to self-report their hunger (n=14), recorded their daily maximal hunger in a diary, which was then assessed by the Daily Hunger Questionnaire Item 2. Hunger was scored on an 11-point scale from 0 (“not hungry at all”) to 10 (“hungriest possible”). Weekly means of daily maximal hunger scores after 52 weeks from the start of IMCIVREE treatment are summarized in Table 9.

Hunger scores decreased in IMCIVREE-treated patients during the 14-week placebo-controlled period and during the open-label treatment period.

Table 9: Daily Hunger Scores - Change from Baseline in IMCIVREE-Treated Patients Aged ≥ 12 Years with Obesity and a Clinical Diagnosis of BBS After 52 Weeks From the Start of IMCIVREE Treatment (Study 3)

Timepoint	Statistic	Result
Baseline	N	14
	Mean (SD)	6.99 (1.893)
	Median	7.29
	Min, Max	4.0, 10.0
Week 52	N	14
	Mean (SD)	4.87 (2.499)
	Median	4.43
	Min, Max	2.0, 10.0
Change at Week 52	N	14
	Mean (SD)	-2.12 (2.051)
	Median	-1.69

Min, Max	-6.7, 0.0
Abbreviations: BBS = Bardet-Biedl syndrome; CI=confidence interval; Max=maximum; Min=minimum; NC=Not calculated; SD=Standard Deviation.	
Note: Baseline is the last assessment prior to initiation of setmelanotide in both studies.	
Note: The Daily Hunger Questionnaire is not administered to patients <12 years or to patients with cognitive impairment as assessed by the Investigator.	

Supportive of IMCIVREE’s effect on weight loss, there were general numeric improvements in blood pressure, lipids, and waist circumference. However, because of the limited number of patients studied and the lack of a control group, the treatment effects on these parameters could not be accurately quantified.

16 HOW SUPPLIED/STORAGE AND HANDLING

IMCIVREE injection is supplied as:

- 10 mg/mL, clear to slightly opalescent, colorless to slightly yellow solution in a 1-mL multiple-dose vial
- Package of 1 multiple-dose vial: NDC 72829-010-01

Store unopened IMCIVREE vials in the refrigerator at 2°C to 8°C (36°F to 46°F) in the original carton. After removal from the refrigerator, vials may be kept at temperatures ranging from refrigerated to room temperature (2°C to 25°C [36°F to 77°F]) for up to 30 days with brief excursions up to 30°C (86°F). After the vial is punctured (opened), discard after 30 days. See Table 10 for a summary of storage conditions for IMCIVREE. Store vials in the original carton.

Table 10 Recommended Storage for IMCIVREE Vials

Storage Condition	Unopened Vial	Opened Vial
2°C to 8°C (36°F to 46°F)	Until the expiration date	Up to 30 days, OR Until the expiration date (whichever is earlier)
2°C to 25°C (36°F to 77°F) with excursions permitted up to 30°C (86°F) ¹	Up to 30 days, OR Until the expiration date (whichever is earlier)	Up to 30 days, OR Until the expiration date (whichever is earlier)
>30°C (>86°F)	Discard and do not use	Discard and do not use

¹ If necessary, IMCIVREE may be stored at room temperature (≤30°C [≤86°F]) and then returned to refrigerated conditions

17 PATIENT COUNSELING INFORMATION

Advise the patient or caregiver to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Disturbance in Sexual Arousal

Inform patients that sexual adverse reactions, including spontaneous erection, may occur in patients treated with IMCIVREE. Advise patients to seek emergency medical treatment if an erection lasts longer than 4 hours [see *Warnings and Precautions (5.1)*].

Depression and Suicidal Ideation

Inform patients or caregivers that IMCIVREE may cause depression or suicidal ideation. Advise patients or caregivers to report any new or worsening symptoms of depression, suicidal thoughts or behaviors, or unusual changes in mood or behavior [see *Warnings and Precautions (5.2)*].

Hypersensitivity Reactions

Inform patients that serious hypersensitivity reactions have been reported with use of IMCIVREE. Advise patients on the symptoms of hypersensitivity reactions and instruct them to stop taking IMCIVREE and seek medical advice promptly if such symptoms occur [see *Warnings and Precautions (5.3)*].

Skin Pigmentation and Darkening of Pre-Existing Nevi

Inform patients or caregivers that skin darkening occurs in the majority of patients treated with IMCIVREE because of its mechanism of action. This change is reversible upon discontinuation of IMCIVREE. Inform patients or caregivers that they should have a full body skin examination before starting and during treatment with IMCIVREE to monitor these changes [see *Warnings and Precautions (5.4)*].

Pregnancy

Advise patients who may become pregnant to inform their healthcare provider of a known or suspected pregnancy [see *Use in Specific Populations (8.1)*].

Lactation

Advise patients that treatment with IMCIVREE is not recommended while breastfeeding [see *Use in Specific Populations (8.2)*].

Administration

Instruct patients and caregivers how to prepare and administer the correct dose of IMCIVREE and assess their ability to inject subcutaneously to ensure the proper administration of IMCIVREE. Instruct patients to use a 1 mL syringe with a 28- or 29-gauge needle appropriate for subcutaneous injection. [see *Dosage and Administration (2.7)*].

Manufactured for:

Rhythm Pharmaceuticals, Inc.
222 Berkeley Street, Suite 1200
Boston, MA 02116

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<p style="text-align: center;">PATIENT INFORMATION IMCIVREE™ [im-SIV-ree] (setmelanotide) injection, for subcutaneous use</p>
<p>What is IMCIVREE?</p> <ul style="list-style-type: none">• IMCIVREE is a prescription medicine used in adults and children 6 years of age and older with obesity due to:<ul style="list-style-type: none">◦ The genetic conditions proopiomelanocortin (POMC), proprotein convertase subtilisin/kexin type 1 (PCSK1), or leptin receptor (LEPR) deficiency, to help them lose weight and keep the weight off.◦ Bardet-Biedl syndrome (BBS) to help them lose weight and keep the weight off.• Your healthcare provider should order a genetic test to confirm POMC, PCSK1, or LEPR deficiency before you start using IMCIVREE.• IMCIVREE is not for use in people with the following conditions because it may not

work:

- Obesity due to suspected POMC, PCSK1, or LEPR deficiency not confirmed by genetic testing or with benign or likely benign genetic testing results.
- Other types of obesity not related to POMC, PCSK1, or LEPR deficiency, or BBS, including obesity associated with other genetic conditions and general obesity.

It is not known if IMCIVREE is safe and effective in children under 6 years of age.

Do not use IMCIVREE if you have had a serious allergic reaction to setmelanotide or any of the ingredients in IMCIVREE. Serious allergic reactions, including a severe allergic reaction called anaphylaxis, can happen when you use IMCIVREE. See the end of this Patient Information leaflet for a complete list of ingredients in IMCIVREE.

Before using IMCIVREE, tell your healthcare provider about all your medical conditions, including if you:

- have or have had areas of darkened skin, including skin discoloration (hyperpigmentation).
- have or have had depression, or suicidal thoughts or behavior.
- have had a prior allergic reaction to setmelanotide or any of the ingredients in IMCIVREE.
- have kidney problems.
- are pregnant or planning to become pregnant. Losing weight while pregnant may harm your unborn baby. Your healthcare provider may stop your treatment with IMCIVREE if you become pregnant. Tell your healthcare provider if you become pregnant or think you might be pregnant during treatment with IMCIVREE.
- are breastfeeding or plan to breastfeed. It is not known if IMCIVREE passes into your breastmilk. You should not breastfeed during treatment with IMCIVREE.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I use IMCIVREE?

- See the detailed Instructions for Use to learn how to prepare and inject IMCIVREE.
- IMCIVREE is given as an injection under your skin (subcutaneous) by you or a caregiver.
- A healthcare provider should show you or your caregiver how to prepare and inject your dose of IMCIVREE before injecting for the first time. Do not try to inject IMCIVREE unless you have been trained by a healthcare provider.
- Use IMCIVREE exactly as prescribed by your healthcare provider.
- If you have POMC, PCSK1, or LEPR deficiency, your healthcare provider may tell you to stop using IMCIVREE if you have not lost a certain amount of weight after 12 to 16 weeks of treatment.
- If you have BBS, your healthcare provider may tell you to stop using IMCIVREE if you have not lost a certain amount of weight after 1 year of treatment.
- IMCIVREE should be injected 1 time each day when you first wake up. IMCIVREE can be given with or without food.
- If you miss a dose of IMCIVREE, inject your next dose at the regularly scheduled time the next day.

What are the possible side effects of IMCIVREE?

IMCIVREE may cause serious side effects, including:

- **Male and female sexual function problems.** IMCIVREE can cause an erection that happens without any sexual activity in males (spontaneous penile erection) and unwanted sexual reactions (changes in sexual arousal that happen without any sexual activity) in females. If you have an erection lasting longer than 4 hours, get emergency medical help right away.
- **Depression and suicidal thoughts or actions.** You or a caregiver should call

your healthcare provider right away if you have any new or worsening symptoms of depression, suicidal thoughts or behaviors, or any unusual changes in mood or behavior.

- **Serious allergic reactions.** Stop taking IMCIVREE and get medical help right away if you have any symptoms of a serious allergic reaction including:
 - swelling of your face, lips, tongue or throat
 - problems breathing or swallowing
 - severe rash or itching
 - fainting or feeling dizzy
 - rapid heartbeat
- **Increased skin pigmentation and darkening of skin lesions (moles or nevi) you already have.** These changes happen because of how IMCIVREE works in the body and will go away when you stop using IMCIVREE. You should have a full body skin exam before starting and during treatment with IMCIVREE to check for skin changes.
- **Benzyl alcohol toxicity.** Benzyl alcohol is a preservative in IMCIVREE. Benzyl alcohol can cause serious side effects, including death, in premature and low-birth weight infants, who have received medicines that contain benzyl alcohol. IMCIVREE should not be used in premature and low-birth weight infants.

The most common side effects of IMCIVREE include:

- injection site reactions
- darkening of the skin
- nausea
- vomiting
- headache
- erection that happens without any sexual activity in males
- diarrhea
- stomach pain

These are not all the possible side effects of IMCIVREE.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Rhythm Pharmaceuticals at 1-833-789-6337.

General information about the safe and effective use of IMCIVREE.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use IMCIVREE for a condition for which it was not prescribed. Do not give IMCIVREE to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about IMCIVREE that is written for health professionals.

What are the ingredients in IMCIVREE?

Active ingredient: setmelanotide

Inactive ingredients: benzyl alcohol, carboxymethylcellulose sodium, edetate disodium dihydrate, N-(carbonyl-methoxypolyethylene glycol 2000)-1, 2-distearoyl-glycero-3-phosphoethanolamine sodium salt, mannitol, phenol, and water for injection.

INSTRUCTIONS FOR USE

IMCIVREE™ [im-SIV-ree]

(setmelanotide)

injection, for subcutaneous use

This Instructions for Use contains information on how to inject IMCIVREE. Read and follow these instructions before injecting IMCIVREE.

Important Information You Need to Know Before Injecting IMCIVREE

- **IMCIVREE is for injection under the skin only (subcutaneous injection). Do not** inject IMCIVREE into a vein or muscle.
- Inject IMCIVREE 1 time each day when you first wake up.
- Take IMCIVREE with or without food.
- IMCIVREE is given by you or a caregiver. A healthcare provider will show you or your caregiver how to inject your dose of IMCIVREE before you inject for the first time. Ask your healthcare provider or call IMCIVREE Guidance, Partnership, Support (GPS) at 1-844-YOUR-GPS (1-844-968-7477) if you have questions.
- Store opened vials of IMCIVREE in the refrigerator between 36°F to 46°F (2°C to 8°C). If needed, opened vials may be removed from the refrigerator and stored at temperatures ranging from refrigerated to room temperature (36°F to 77°F (2°C to 25°C)). Vials may be returned to the refrigerator. Throw away all opened vials 30 days after first opening, even if some medicine is still left.
- Unopened vials of IMCIVREE may be stored in the refrigerator between 36°F to 46°F (2°C to 8°C) until the expiration date. If needed, unopened vials may also be removed from the refrigerator and stored at temperatures ranging from refrigerated to room temperature (36°F to 77°F (2°C to 25°C)) for up to 30 days. Vials may be returned to the refrigerator. Throw away IMCIVREE if it has been more than 30 days since the vial was first removed from the refrigerator.
- If necessary, vials may be stored at room temperature below 86°F (30°C) and may be returned to the refrigerator. Throw away IMCIVREE that has been stored above 86°F (30°C).
- Write the date on the carton when you first open the vial.


Important note:

- Only use the syringes and needles provided to you for use with IMCIVREE.
- Always use a new syringe and needle for each injection to prevent contamination.
- Throw away used syringes and needles in a puncture-resistant, disposable sharps container as soon as you finish giving the injection. See “**Disposing of IMCIVREE**” at the end of these instructions.
- **Do not** reuse or share your needles with other people.
- **Do not** recap the needle. Recapping the needle can lead to a needle stick injury.
- **Keep IMCIVREE, needles, syringes, and all medicines out of the reach of children.**

Understanding Your IMCIVREE Dose

Calculate the number of doses of IMCIVREE in each vial:

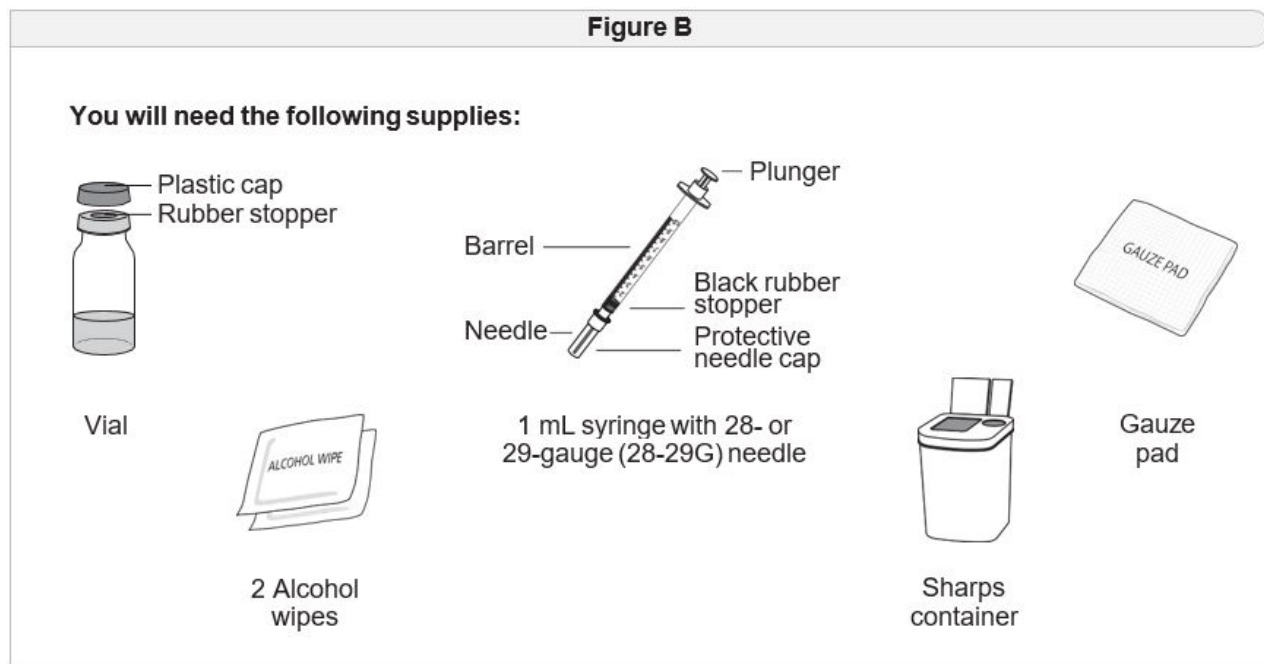
- Each unopened IMCIVREE vial contains 10 milligrams (mg) of medicine in 1 milliliter (mL) of solution.
- The vial will contain both medicine and air. Most of the vial will be filled with air.
- Your healthcare provider will determine your dose of medicine in milligrams (mg).
- The IMCIVREE vial may be used to give more than 1 dose of medicine (multiple-dose vial).
- Use **Figure A** to see how many times you may use each vial based on your prescribed dose.
- **Do not** use more doses from a single vial than listed in **Figure A**

Figure A			
 10 mg/1 mL multiple-dose vial	Prescribed dose (mg)	Prescribed dose (mL)	Number of doses per vial
	0.5 mg	0.05 mL	20
	1 mg	0.1 mL	10
	1.5 mg	0.15 mL	6
	2 mg	0.2 mL	5
	3 mg	0.3 mL	3

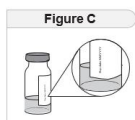
Preparing to Inject IMCIVREE

Step 1 Gather your supplies.

- Gather the supplies you will need for your injection (**Figure B**).
- Place your supplies on a clean, flat work surface.

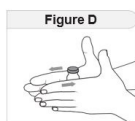


Step 2 Check your IMCIVREE vial.



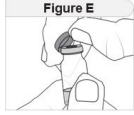
- Check the expiration (Exp) date on the vial label (**Figure C**).
- Check the liquid. The liquid should look clear to almost clear and colorless to slightly yellow. The liquid should be free of particles.
- **Do not** use if:
 - The expiration (Exp) date has passed.
 - The liquid is cloudy.
 - There are particles floating in the vial.
 - The plastic cap on a new vial is broken or missing.

Step 3 Prepare your IMCIVREE vial.

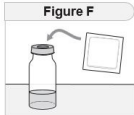


- Allow the vial to reach room temperature.
 - Remove the vial from the refrigerator 15 minutes before injection.
 - You can also warm the vial by rolling it gently between the palms of your hands for 60 seconds (**Figure D**).

- **Do not** try to warm the vial by using a heat source such as hot water or a microwave.
- **Do not** shake the vial.
- Wash your hands with soap and warm water.



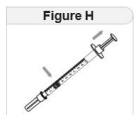
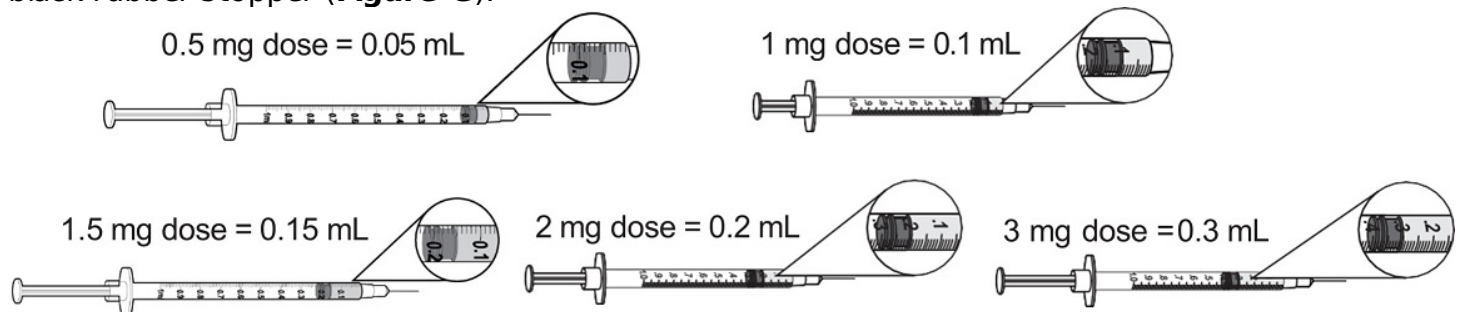
- If using a new vial, remove the plastic cap (**Figure E**) and throw away this plastic cap in the trash. Do not put the plastic cap back on the vial.



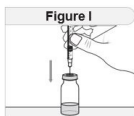
- Clean the top of the vial rubber stopper with 1 alcohol wipe (**Figure F**). Throw away the alcohol wipe in the trash.
- **Do not** remove the vial rubber stopper.

Step 4 Prepare the syringe.

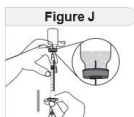
When measuring your dose, be sure to read the markings starting from the end closest to the black rubber stopper (**Figure G**).



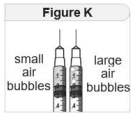
- Fill the syringe with air.
 - Keep the protective needle cap on the syringe.
 - Pull back on the plunger until the end of the black rubber stopper stops at your dose. Fill the syringe with air equal to the amount of the medicine to be given (**Figure H**).
- Remove the protective needle cap from the syringe.
 - Remove the protective needle cap by pulling it straight off and away from your body.



- Insert the needle.
 - Place the vial on the clean, flat work surface.
 - With the vial in the upright position, place the syringe directly over the vial and insert the needle straight down into the center of the vial rubber stopper (**Figure I**).
 - Push the air from the syringe into the vial.



- Fill the syringe with IMCIVREE
 - Keep the needle in the vial and slowly turn the vial upside down.
 - Make sure to keep the tip of the needle in the medicine (**Figure J**).
- Slowly pull back on the plunger to fill the syringe with the amount of IMCIVREE needed for your prescribed dose.
- Be careful not to pull the plunger out of the syringe.
- **Do not** use more than 1 vial of IMCIVREE to give a single dose. Use a new vial that has enough medicine for your prescribed dose.

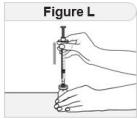


- Check for large air bubbles (**Figure K**).
 - Keep the needle in the vial and check the syringe for large air bubbles.

What to do if you see large air bubbles:

Large air bubbles can reduce the dose of medicine you receive. To remove large air bubbles:

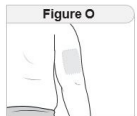
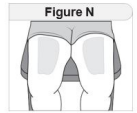
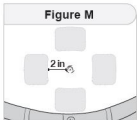
- Gently tap the side of the syringe with your finger to move the air bubbles to the top of the syringe.
- Move the tip of the needle above the medicine and **slowly** push the plunger up to push the large air bubbles back into the vial.
- After the large air bubbles are removed, pull back on the plunger again (more slowly this time) to fill the syringe with your prescribed dose of medicine.



- Withdraw the needle
 - Return the vial to an upright position and place it on the clean, flat work surface.
 - While holding the vial with 1 hand and the barrel of the syringe between the fingertips of your other hand, pull the needle straight out of the vial (**Figure L**).
 - Set the syringe down on the clean, flat work surface.
- Make sure the needle does not touch the surface.
- **Do not** recap the needle

Injecting IMCIVREE

Step 5 Prepare your injection site.



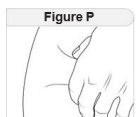
- Choose the area where you will give the injection. Choose from the following recommended injection sites:
 - belly (abdomen) (**Figure M**)
 - front of the middle thighs (**Figure N**)
 - back of the upper arm (**Figure O**)
- Be sure to choose an area on the belly (abdomen) at least 2 inches from the belly button.
- **Do not** inject into the belly button, ribs, and hip bones, as well as scars or moles.
- **Do not** inject in an area that is red, swollen, or irritated

- Clean the injection site with the second alcohol wipe using a circular motion.
- **Do not** touch, fan, or blow on the cleaned area.
- Allow the skin to dry for about 10 seconds.

Rotate your injection site each day.

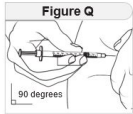
You should use a different injection site each time you give an injection, at least 1 inch away from the area you used for your previous injection. You may want to use a calendar or diary to record your injection sites.

Step 6 Place your hands for the injection.

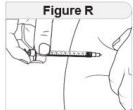


- With 1 hand, pinch about 2 inches of skin at the injection site between your thumb and index (pointer) finger (**Figure P**). Pinching the skin is important to help make sure that you inject the medicine under the skin (into fatty tissue) but not any deeper (into the muscle).

Step 7 Inject and release.



- With your other hand, place the syringe between the thumb and index (pointer) finger.
- Hold the middle of the syringe (where the markings are printed) at a 90-degree angle to your body and push the needle straight into the injection site (**Figure Q**). Make sure that you push the needle all the way into the skin.
- **Do not** hold or push on the plunger while inserting the needle.



- Slowly push the plunger down to inject the medicine (**Figure R**)
- Keep the needle in your skin and count to 5 to make sure that all the medicine is given.
- Let go of the pinched skin and remove the needle.
- Use the gauze pad to gently apply pressure to the injection site.
- **Do not** recap the needle.

Tips for giving injections to children

When giving a child an injection, it can help to have the child do other things. Have the child:

- squeeze something soft like a ball or stuffed animal.
- slowly breathe in and out.
- sing a song, count, or name favorite colors or animals.

Storing IMCIVREE

- Store unopened and opened vials in the original carton to protect them from light.
- Store opened vials of IMCIVREE in the refrigerator between 36°F to 46°F (2°C to 8°C). If needed, opened vials may be removed from the refrigerator and stored at temperatures ranging from refrigerated to room temperature (36°F to 77°F (2°C to 25°C)). Vials may be returned to the refrigerator. Throw away all opened vials 30 days after first opening, even if some medicine is still left in the vial.
- Unopened vials of IMCIVREE may be stored in the refrigerator between 36°F to 46°F (2°C to 8°C) until the expiration date. If needed, unopened vials may also be removed from the refrigerator and stored at temperatures ranging from refrigerated to room temperature (36°F to 77°F (2°C to 25°C)) for up to 30 days. Vials may be returned to the refrigerator. Throw away IMCIVREE if it has been more than 30 days since the vial was first removed from the refrigerator.
- If necessary, vials may be stored at room temperature below 86°F (30°C) and may be returned to refrigerated conditions. Throw away IMCIVREE that has been stored above 86°F (30°C).
- Write the date on the carton when you first open the vial.
- **Keep IMCIVREE, needles, syringes, and all medicines out of the reach of children.**

Disposing of IMCIVREE



- Alcohol wipes, used gauze pads, and vials can be thrown away in the trash. Throw away (dispose of) used syringes and needles in a puncture-resistant container, such as an FDA-cleared sharps disposal container immediately after use (**Figure S**). **Do not** throw away (dispose of) syringes and needles in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
 - made of a heavy-duty plastic,
 - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
 - upright and stable during use,

- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used syringes and needles. For more information about safe sharps disposal and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: <http://www.fda.gov/safesharpsdisposal>.

- Do not dispose of your used sharps disposal container in your household trash unless your community guidelines permit this.
- Do not recycle your used sharps disposal container.

Note: Keep your sharps disposal container out of the reach of children and pets.

For more information about IMCIVREE, including how to inject IMCIVREE, go to www.IMCIVREE.com or call 1-844-YOUR-GPS (1-844-968-7477).

IMCIVREE is Manufactured for:

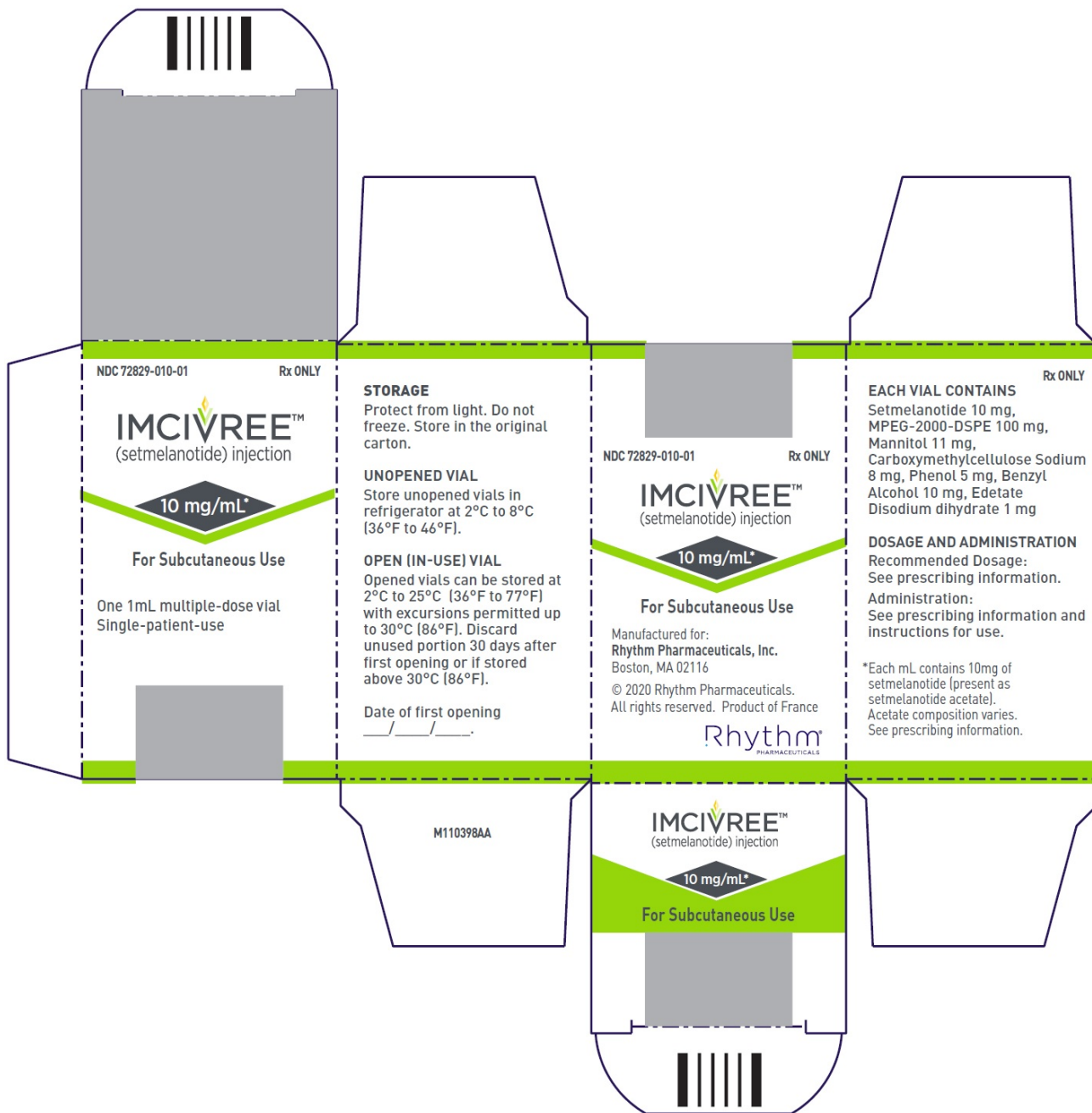
Rhythm Pharmaceuticals, Inc
222 Berkeley Street, Suite 1200
Boston, MA 02116

Made in France

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This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.
Revised [June 2022]

PRINCIPAL DISPLAY PANEL - NDC: 72829-010-01 - Carton Label



PRINCIPAL DISPLAY PANEL - NDC: 72829-010-01 - Vial Label



IMCIVREE
setmelanotide solution

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72829-010
Route of Administration	SUBCUTANEOUS		

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
SETMELANOTIDE (UNII: N7T15V1FUY) (SETMELANOTIDE - UNII:N7T15V1FUY)	SETMELANOTIDE	10 mg	in 1 mL

Inactive Ingredients			
Ingredient Name	Strength		
SODIUM N-(CARBONYL-METHOXPOLYETHYLENE GLYCOL 2000)-1,2-DISTEAROYL-SN-GLYCERO-3-PHOSPHOETHANOLAMINE (UNII: 3L6NN8ZZKU)	100 mg	in 1 mL	
MANNITOL (UNII: 3OWL53L36A)	11 mg	in 1 mL	
CARBOXYMETHYLCELLULOSE (UNII: 05JZ17B19X)	8 mg	in 1 mL	
PHENOL (UNII: 339NCG44TV)	5 mg	in 1 mL	
BENZYL ALCOHOL (UNII: LKG8494WBH)	10 mg	in 1 mL	
EDETATE DISODIUM (UNII: 7FLD91C86K)	1 mg	in 1 mL	

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72829-010-01	1 in 1 CARTON	12/14/2020	
1		1 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
NDA	NDA213793	12/14/2020	

Labeler - Rhythm Pharmaceuticals, Inc (061479535)

Revised: 11/2023

Rhythm Pharmaceuticals, Inc