# SUMMARY OF PRODUCT CHARACTERISTICS

This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

## 1 NAME OF THE MEDICINAL PRODUCT

IMCIVREE 10 mg/ml solution for injection

# 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml of solution contains 10 mg of setmelanotide.

Each vial contains 10 mg setmelanotide in 1 ml of solution for injection.

#### Excipient(s) with known effect

1 ml of solution contains 10 mg benzyl alcohol.

For the full list of excipients, see section 6.1.

#### 3 PHARMACEUTICAL FORM

Solution for injection (injection)

Clear to slightly opalescent, colourless to slightly coloured solution.

# 4 CLINICAL PARTICULARS

# 4.1 Therapeutic indications

IMCIVREE is indicated for the treatment of obesity and the control of hunger associated with genetically confirmed Bardet-Biedl syndrome (BBS), loss-of-function biallelic pro-opiomelanocortin (POMC), including PCSK1, deficiency or biallelic leptin receptor (LEPR) deficiency in adults and children 6 years of age and above.

#### 4.2 Posology and method of administration

IMCIVREE should be prescribed and supervised by a physician with expertise in obesity with underlying genetic aetiology.

# **Posology**

# POMC, including PCSK1, deficiency and LEPR deficiency

Adult population and children more than 12 years of age

For adults and children 12 to 17 years of age, the starting dose is a 1 mg once daily subcutaneous injection for 2 weeks. After 2 weeks, if setmelanotide is well-tolerated (see section 4.4), the dose can be increased to a 2 mg once daily subcutaneous injection (Table 1). If dose escalation is not tolerated, patients may maintain administration of the 1 mg once daily dose.

If additional weight loss is desired in adult patients, the dose can be increased to a 2.5 mg once daily subcutaneous injection. If the 2.5 mg once daily dose is well-tolerated, the dose can be increased to 3 mg once daily (Table 1).

In patients aged 12 to 17 years, if weight remains above the 90<sup>th</sup> percentile with the 2 mg once daily subcutaneous injection and additional weight loss is desired, the dose may be increased to 2.5 mg with a maximum dose of 3 mg once daily (Table 1).

Table 1 Dose titration in adults and paediatric patients 12 years of age or more

| Week                                     | Daily dose        | Volume to be       |
|--|-------------------|--------------------|
|  |                   | injected           |
| Weeks 1 - 2                              | 1 mg once daily   | 0.1 ml once daily  |
| Week 3 and onward                        | 2 mg once daily   | 0.2 ml once daily  |
| If clinical response is insufficient and | 2.5 mg once daily | 0.25 ml once daily |
| 2 mg dose once daily is well tolerated   |                   |                    |
| If clinical response is insufficient and | 3 mg once daily   | 0.3 ml once daily  |
| 2.5 mg dose once daily is well tolerated |                   |                    |

Paediatric population (children aged 6 to <12 years)

For patients aged 6 to <12 years, the starting dose is a 0.5 mg once daily subcutaneous injection for 2 weeks. If tolerated after 2 weeks, the dose can be increased to 1 mg once daily. If dose escalation is not tolerated, paediatric patients may maintain administration of the 0.5 mg once daily dose. If the 1 mg dose is tolerated after 2 weeks, the dose can be increased to 2 mg once daily. If weight remains above the 90<sup>th</sup> percentile with the 2 mg once daily subcutaneous injection and additional weight loss is desired, the dose may be increased to 2.5 mg once daily (Table 2).

Table 2 Dose titration for paediatric patients from 6 to <12 years of age

| Week                                     | Daily dose        | Volume to be       |
|--|-------------------|--------------------|
|  |                   | injected           |
| Patients from 6 to <12 years of age      |                   |                    |
| Weeks 12                                 | 0.5 mg once daily | 0.05 ml once daily |
| Weeks 3 - 5                              | 1 mg once daily   | 0.1 ml once daily  |
| Week 6 and onward                        | 2 mg once daily   | 0.2 ml once daily  |
| If clinical response is insufficient and | 2.5 mg once daily | 0.25 ml once daily |
| 2 mg dose once daily is well tolerated   |                   |                    |

The prescribing physician should periodically assess response to setmelanotide therapy. In growing children, the impact of weight loss on growth and maturation should be evaluated (see section 4.4).

Weight loss and control of hunger associated with setmelanotide can be maintained as long as the therapy is continued uninterrupted. If treatment is discontinued, or if compliance to the dosing regimen is not maintained, symptoms of POMC and LEPR deficiency obesity will return.

#### BardetBiedl Syndrome

Adult population and children more than 16 years of age

For adults and children 16 to 17 years of age, the dose titration in Table 3 should be followed.

Table 3 Dose titration in adults and paediatric patients 16 years of age or more

| Week                                 | Daily dose      | Volume to be injected |
|--------------------------------------|-----------------|-----------------------|
| Weeks 12                             | 2 mg once daily | 0.2 ml once daily     |
| Week 3 and onward (if 2 mg dose once | 3 mg once daily | 0.3 ml once daily     |
| daily is well tolerated)             |                 |                       |

If the 2 mg starting dose is not tolerated, reduce to 1 mg (0.1 ml) once daily. If the 1 mg once daily dose is tolerated, continue dose titration.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If reduced dose is tolerated, continue dose titration.

Paediatric population (children aged 6 to <16 years)

For patients aged 6 to <16 years, the dose titration in Table 4 should be followed.

Table 4 Dose titration for paediatric patients from 6 to <16 years of age

| table 1 Dose defation for paediatric patients from 0 to 40 years of age |                 |                   |  |
|---|-----------------|-------------------|--|
| Week  | Daily dose      | Volume to be      |  |
|   |                 | injected          |  |
| Week 1  | 1 mg once daily | 0.1 ml once daily |  |
| Week 2 (if 1 mg dose once daily is well                                 | 2 mg once daily | 0.2 ml once daily |  |
| tolerated)  |                 | -                 |  |
| Week 3 and onward (if 2 mg dose once                                    | 3 mg once daily | 0.3 ml once daily |  |
| daily is well tolerated)  |                 |                   |  |

If the 1 mg starting dose is not tolerated, reduce to 0.5 mg (0.05 ml) once daily. If the 0.5 mg once daily dose is tolerated, increase the dose to 1 mg once daily and continue dose titration.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If the reduced dose is tolerated, continue dose titration.

The prescribing physician should periodically assess response to setmelanotide therapy. In growing children, the impact of weight loss on growth and maturation should be evaluated (see section 4.4).

Weight loss and control of hunger associated with setmelanotide can be maintained as long as the therapy is continued uninterrupted. If treatment is discontinued, or if compliance to the dosing regimen is not maintained, symptoms of obesity and/or hunger in BBS will return.

#### Missed dose

If a dose is missed, the once daily regimen should be resumed at the dose prescribed with the next scheduled dose.

## Special populations

Renal impairment

POMC, including PCSK1, deficiency and LEPR deficiency

For patients with mild or moderate renal impairment (see section 5.2), no dose adjustments are necessary.

For adults and children 12 to 17 years of age with severe renal impairment (see section 5.2), the dose titration in Table 5 should be followed.

Table 5 Dose titration in adults and paediatric patients 12 years of age or more with severe renal impairment

| Week  | Daily dose        | Volume to be injected |
|---|-------------------|-----------------------|
| Weeks 1 - 2   | 0.5 mg once daily | 0.05 ml once daily    |
| Week 3 and onward (if 0.5 mg dose once daily is well tolerated)                   | 1 mg once daily   | 0.1 ml once daily     |
| If clinical response is insufficient and 1 mg dose once daily is well tolerated   | 2 mg once daily   | 0.2 ml once daily     |
| If clinical response is insufficient and 2 mg dose once daily is well tolerated   | 2.5 mg once daily | 0.25 ml once daily    |
| If clinical response is insufficient and 2.5 mg dose once daily is well tolerated | 3 mg once daily   | 0.3 ml once daily     |

If the 0.5 mg starting dose is not tolerated, reduce to 0.25 mg (0.025 ml) once daily. If the 0.25 mg once daily dose is tolerated, continue dose titration.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If the reduced dose is tolerated, continue dose titration.

For patients aged 6 to <12 years of age with severe renal impairment, the dose titration in Table 6 should be followed.

#### Table 6 Dose titration for paediatric patients from 6 to <12 years of age with

severe renal impairment

| Week  | •                  | Volume to be        |
|---|--------------------|---------------------|
|   |                    | injected            |
| Weeks 1 2                                     | 0.25 mg once daily | 0.025 ml once daily |
| Weeks 3 5 (if 0.25 mg dose once daily is      | 0.5 mg once daily  | 0.05 ml once daily  |
| well tolerated)                               |                    |                     |
| Week 6 and onward (if 0.5 mg once daily is    | 1 mg once daily    | 0.1 ml once daily   |
| well tolerated)                               |                    | -                   |
| If clinical response is insufficient and 1 mg | 2 mg once daily    | 0.2 ml once daily   |
| dose once daily is well tolerated             |                    |                     |

If the 0.25 mg starting dose is not tolerated, treatment should be discontinued.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If the reduced dose is tolerated, continue dose titration.

Setmelanotide has not been studied in patients with end-stage renal disease. Setmelanotide should not be administered to patients with end-stage renal disease (see section 5.2).

## Bardet-Biedl Syndrome

For patients with mild or moderate renal impairment (see section 5.2), no dose adjustments are necessary.

For adults and children 16 to 17 years of age with severe renal impairment (see section 5.2), the dose titration in Table 7 should be followed.

Table 7 Dose titration in adults and paediatric patients 16 years of age or more

with severe renal impairment

| Week  | Daily dose        | Volume to be injected |
|---|-------------------|-----------------------|
| Weeks 12  | 0.5 mg once daily | 0.05 ml once daily    |
| Week 3 and onward (if 0.5 mg dose once daily is well tolerated)                   | 1 mg once daily   | 0.1 ml once daily     |
| If clinical response is insufficient and 1 mg dose once daily is well tolerated   | 2 mg once daily   | 0.2 ml once daily     |
| If clinical response is insufficient and 2 mg dose once daily is well tolerated   | 2.5 mg once daily | 0.25 ml once daily    |
| If clinical response is insufficient and 2.5 mg dose once daily is well tolerated | 3 mg once daily   | 0.3 ml once daily     |

If the 0.5 mg starting dose is not tolerated, reduce to 0.25 mg (0.025 ml) once daily. If the 0.25 mg once daily dose is tolerated, continue dose titration.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If the reduced dose is tolerated, continue dose titration.

For patients aged 6 to <16 years of age with severe renal impairment, the dose titration in Table 8 should be followed.

Table 8 Dose titration for paediatric patients from 6 to <16 years of age with

severe renal impairment

| Week  | Daily dose         | Volume to be injected |
|---|--------------------|-----------------------|
| Weeks 12  | 0.25 mg once daily | 0.025 ml once daily   |
| Weeks 35 (if 0.25 mg dose once daily is well tolerated)                         | 0.5 mg once daily  | 0.05 ml once daily    |
| Week 6 and onward (if 0.5 mg once daily is well tolerated)                      | 1 mg once daily    | 0.1 ml once daily     |
| If clinical response is insufficient and 1 mg dose once daily is well tolerated | 2 mg once daily    | 0.2 ml once daily     |

If the 0.25 mg starting dose is not tolerated, treatment should be discontinued.

Following the starting dose, if a subsequent dose is not tolerated, reduce to the previous dose level. If the reduced dose is tolerated, continue dose titration.

Setmelanotide has not been studied in patients with end-stage renal disease. Setmelanotide should not be administered to patients with end-stage renal disease (see section 5.2).

#### Hepatic impairment

Setmelanotide has not been studied in patients with hepatic impairment. Setmelanotide should not be administered to patients with hepatic impairment.

*Paediatric population (<6 years)* 

The safety and efficacy of setmelanotide in children less than 6 years of age has not yet been established. No data are available.

#### Elderly

Although no apparent age-related differences have been observed, data obtained from elderly patients is not sufficient to determine whether they respond differently from younger patients. There is no evidence indicating any special precautions are required for treating an elderly population (see section 5.2).

#### Method of administration

For subcutaneous use.

Setmelanotide should be injected once daily, at the beginning of the day (to maximise hunger reduction during awake period), without regard to the timing of meals.

Setmelanotide should be injected subcutaneously in the abdomen, alternating the abdominal area each day.

Prior to initiation of treatment, patients should be trained by their healthcare professional on proper injection technique, to reduce the risk of administration errors such as needle sticks and incomplete dosing. Refer to the patient leaflet for complete administration instructions with illustrations.

Setmelanotide should be administered using the syringe volumes and needle sizes shown in Table 9.

Table 9 Administration syringe and needle size, by setmelanotide dose

| Setmelanotide dose              | Syringe                        | Needle gauge and  |
|---------------------------------|--------------------------------|-------------------|
|                                 |                                | length            |
| For doses of:                   | 0.3 ml syringe with 0.5 (half) | 29 to 31 gauge    |
| 0.25 mg (0.025 ml or 2.5 units) | unit increments                | 6 to 13 mm needle |
| once daily                      |                                |                   |
| For doses of:                   | 1 ml syringe with 0.01 ml      | 28 to 29 gauge    |
| 0.5 mg to 3 mg (0.05 ml to      | dosing increments              | 6 to 13 mm needle |
| 0.3 ml) once daily              | _                              |                   |

See section 6.6 for instructions on handling IMCIVREE.

#### 4.3 Contraindications

Hypersensitivity to the active substance(s) or to any of the excipients listed in section 6.1.

# 4.4 Special warnings and precautions for use

#### Skin monitoring

Setmelanotide may lead to generalised increased skin pigmentation and darkening of pre-existing nevi because of its pharmacologic effect (see sections 4.8 and 5.1). Full body skin examinations should be conducted annually to monitor pre-existing and new skin pigmentary lesions before and during treatment with setmelanotide.

#### Heart rate and blood pressure monitoring

Heart rate and blood pressure should be monitored as part of standard clinical practice at each medical visit (at least every 6 months) for patients treated with setmelanotide.

# Prolonged penile erection

Spontaneous penile erections have been reported in clinical trials with setmelanotide (see section 4.8). Patients who have a penile erection lasting longer than 4 hours should be instructed to seek emergency medical attention for potential treatment of priapism.

## **Depression**

In clinical trials, depression has been reported in patients treated with setmelanotide (see section 4.8).

Patients with depression should be monitored at each medical visit during treatment with IMCIVREE. Consideration should be given to discontinuing IMCIVREE if patients experience suicidal thoughts or behaviours.

# Paediatric population

The prescribing physician should periodically assess response to setmelanotide therapy. In growing children, the impact of weight loss on growth and maturation should be evaluated. The prescribing physician should monitor growth (height and weight) using age- and sex-appropriate growth curves.

# **Excipients**

#### Benzyl alcohol

This medicinal product contains 10 mg benzyl alcohol in each ml. Benzyl alcohol may cause allergic reactions.

Patients who are pregnant or breastfeeding should be advised of the potential risk from the excipient benzyl alcohol, which might accumulate over time and cause metabolic acidosis.

This medicinal product should be used with caution in patients with hepatic or renal impairment, because of the potential risk from the excipient benzyl alcohol which might accumulate over time and cause metabolic acidosis (see also section 4.2).

#### Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially "sodium-free."

#### 4.5 Interaction with other medicinal products and other forms of interaction

No interaction studies have been performed.

*In vitro* studies showed that setmelanotide has low potential for pharmacokinetic interactions related to cytochrome P450 (CYP) transporters and plasma protein binding.

# 4.6 Fertility, pregnancy and lactation

#### Pregnancy

There are no data from the use of setmelanotide in pregnant women.

Animal studies do not indicate direct harmful effects with respect to reproductive toxicity. However, administration of setmelanotide to pregnant rabbits resulted in decreased maternal food consumption leading to embryo-foetal effects (see section 5.3).

As a precautionary measure, IMCIVREE should not be started during pregnancy or while attempting to get pregnant as weight loss during pregnancy may result in foetal harm.

If a patient who is taking setmelanotide has reached a stable weight and becomes pregnant, consideration should be given to maintaining setmelanotide treatment as there was no proof of teratogenicity in the nonclinical data. If a patient who is taking setmelanotide and still losing weight gets pregnant, setmelanotide should either be discontinued, or the dose reduced while monitoring for the recommended weight gain during pregnancy. The treating physician should carefully monitor weight during pregnancy in a patient taking setmelanotide.

Patients who are pregnant should be advised of the potential risk from the excipient benzyl alcohol (see section 4.4).

#### Breast-feeding

It is unknown whether setmelanotide is excreted in human milk. A nonclinical study showed that setmelanotide is excreted in the milk of nursing rats. No quantifiable setmelanotide concentrations were detected in plasma from nursing pups (see section 5.3).

A risk to the newborn/infant cannot be excluded. A decision must be made whether to discontinue breastfeeding or to discontinue/abstain from IMCIVREE therapy taking into account the benefit of breastfeeding for the child and the benefit of therapy for the mother.

Patients who are breastfeeding should be advised of the potential risk from the excipient benzyl alcohol (see section 4.4).

#### **Fertility**

No human data on the effect of setmelanotide on fertility are available. Animal studies did not indicate harmful effects with respect to fertility.

# 4.7 Effects on ability to drive and use machines

IMCIVREE has no or negligible influence on the ability to drive and use machines.

#### 4.8 Undesirable effects

#### Summary of the safety profile

The most frequent adverse reactions are hyperpigmentation disorders (56%), injection site reactions (45%), nausea (31%), and headache (20%).

# <u>Tabulated list of adverse reactions</u>

Adverse reactions observed in clinical trials are listed below by system organ class and frequency, following the MedDRA frequency convention defined as: very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to <1/10), and uncommon ( $\geq 1/1000$  to <1/100).

**Table 10 Adverse reactions** 

| MedDRA System        | Frequency          |                      |                       |
|----------------------|--------------------|----------------------|-----------------------|
| organ class          | Very common        | Common               | Uncommon              |
| Skin and             | Skin               | Pruritis,            | Ephelides,            |
| subcutaneous tissue  | hyperpigmentation  | dry skin,            | erythema,             |
| disorders            |                    | hyperhidrosis,       | rash,                 |
|                      |                    | skin discolouration, | skin striae,          |
|                      |                    | skin lesion,         | hair colour changes,  |
|                      |                    | alopecia             | lentigo,              |
|                      |                    |                      | macule,               |
|                      |                    |                      | dermal cyst,          |
|                      |                    |                      | dermatitis,           |
|                      |                    |                      | nail disorder         |
|                      |                    |                      | nail discolouration,  |
|                      |                    |                      | rash papular          |
| General disorders    | Injection site     | Fatigue,             | Chest pain,           |
| and administrative   | reactions          | asthenia,            | temperature           |
| site conditions      |                    | pain                 | intolerance,          |
|                      |                    |                      | application site      |
|                      |                    |                      | pruritis,             |
|                      |                    |                      | chills,               |
|                      |                    |                      | feeling cold,         |
|                      |                    |                      | feeling hot           |
| Gastrointestinal     | Nausea,            | Diarrhoea,           | Gingival              |
| disorders            | vomiting           | abdominal pain,      | discoloration,        |
|                      |                    | dry mouth,           | abdominal distention, |
|                      |                    | dyspepsia,           | salivary              |
|                      |                    | constipation,        | hypersecretion,       |
|                      |                    | abdominal            | flatulence,           |
|                      |                    | discomfort           | gastrooesophageal     |
|                      |                    |                      | reflux disease        |
| Nervous system       | Headache           | Dizziness            | Somnolence,           |
| disorders            |                    |                      | hyperaesthesia,       |
|                      |                    |                      | migraine,             |
|                      |                    |                      | parosmia,             |
|                      |                    |                      | dysgeusia,            |
|                      |                    |                      | anxiety,              |
|                      |                    |                      | mood altered          |
| Reproductive system  | Spontaneous penile | Erection increased,  | Female sexual arousal |
| and breast disorders | erection           | Disturbance in       | disorder,             |

| MedDRA System  | Frequency   |   |  |
|--|-------------|---|--|
| organ class  | Very common | Common  | Uncommon   |
|  |             | sexual arousal,<br>libido increased                           | genital discomfort,<br>genital disorder<br>female,<br>genital hyperaesthesia,<br>ejaculation disorder,<br>libido decreased |
| Psychiatric disorders  |             | Depression, insomnia  | Depressed mood,<br>sleep disorder,<br>nightmare  |
| Neoplasms Benign,<br>Malignant and<br>unspecified (incl<br>cysts and polyps) |             | Melanocytic naevus  | Dysplastic naevus,<br>eye nevis  |
| Musculoskeletal and connective tissue disorders                              |             | Back pain,<br>myalgia,<br>muscle spasms,<br>pain in extremity | Arthralgia,<br>musculoskeletal chest<br>pain   |
| Respiratory, thoracic and mediastinal disorders                              |             |   | Yawning,<br>cough,<br>rhinorrhoea  |
| Eye disorders  |             |   | Scleral discolouration, ocular icterus   |
| Vascular disorders   |             | Hot flush   |  |
| Ear and labyrinth disorders  |             | Vertigo   |  |

#### <u>Description of selected adverse reactions</u>

#### *Injection site reactions*

Injection site reactions occurred in 45% of patients treated with setmelanotide. The most common injection site reactions were injection site erythema (27%), injection site pruritus (21%), injection site induration (13%), and injection site pain (13%). These reactions were typically mild, of short duration, and did not progress or lead to discontinuation of therapy. Injection site reactions include injection site-associated events of erythema, pruritus, oedema, pain, induration, bruising, reaction, swelling, haemorrhage, hypersensitivity, haematoma, nodule, discoloration, erosion, inflammation, irritation, warmth, atrophy, discomfort, dryness, mass, hypertrophy, rash, scar, abscess and urticaria.

#### Hyperpigmentation

Skin darkening was observed in 56% of patients treated with setmelanotide. This generally occurred within 2 to 3 weeks of starting therapy, continued for the duration of treatment, and resolved upon discontinuation of treatment. This darkening of skin is mechanism based, resulting from stimulation of the MC1 receptor. Hyperpigmentation disorders include skin hyperpigmentation, skin discolouration, ephelides, hair colour changes, lentigo, macule, nail discolouration, melanoderma, pigmentation disorder, skin hypopigmentation, solar lentigo, acanthosis nigricans,

café au lait spots, melanocytic hyperplasia, melanocytic nevus, nail pigmentation, gingival discolouration, pigmentation lip, tongue discolouration, gingival hyperpigmentation, oral mucosa discolouration, and eye nevus.

#### Gastrointestinal disturbance

Nausea and vomiting were reported in 31% and 12% of patients, respectively, treated with setmelanotide. Nausea and vomiting generally occurred at initiation of therapy (within the first month), was mild and did not lead to discontinuation of therapy. These effects were transient and did not impact compliance with the recommended daily injections.

#### Penile erections

Spontaneous penile erection and erection increased were reported in 20 and 8% of male patients treated with setmelanotide, respectively; none of these patients reported prolonged erections (longer than 4 hours) requiring urgent medical evaluation (see section 4.4). This effect may be due to melanocortin 4 (MC4) receptor neural stimulation.

#### **Immunogenicity**

Due to the potentially immunogenic properties of medicinal products containing proteins or peptides, patients may develop antibodies following treatment with setmelanotide. There was no observation of a rapid decline in setmelanotide concentrations that would suggest the presence of anti-drug antibodies. In clinical trials (RM-493-012 and RM-493-015), the rate of adult and paediatric patients with POMC- or LEPR-deficiency who screened positive for antibody to setmelanotide was 68% (19 out of 28), and 32 % screened negative. The 68% of patients who screened positive for antibodies to setmelanotide were inconclusive for antibodies to setmelanotide in the confirmatory assay.

Approximately 13% of adult and paediatric patients with LEPR-deficiency (3 patients) confirmed positive for antibodies to alpha-MSH that were classified as low-titre and non-persistent. Of these 3 patients (13%), 2 tested positive post-IMCIVREE treatment and 1 was positive pre-treatment. None of the patients with POMC-deficiency were confirmed to have antibodies to alpha-MSH.

One paediatric patient with BBS aged ≥12 years confirmed positive to setmelanotide antidrug antibodies with a very low titre.

# Paediatric population

A total of 112 paediatric patients (n=26 aged 6 to <12 years, n=86 aged 12 to <18 years) have been exposed to setmelanotide, including 14 paediatric patients with POMC or LEPR deficiency obesity who participated in the pivotal clinical trials (n=6 aged 6 to <12 years, n=8 aged 12 to <18 years) and 28 paediatric patients with BBS (n=8 aged 6 to <12 years, n=20 aged 12 to <18 years). The frequency, type and severity of adverse reactions were similar in the adult and paediatric populations.

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Yellow Card Scheme at: www.mhra.gov.uk/yellowcard.

#### 4.9 Overdose

The symptoms of setmelanotide overdose may include nausea and penile erection. In the event of overdose, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms. In cases of overdose, blood pressure and heart rate should be monitored regularly over 48 hours or as long as clinically relevant.

# 5 PHARMACOLOGICAL PROPERTIES

# 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: not yet assigned, ATC code: A08AA12

#### Mechanism of action

Setmelanotide is a selective MC4 receptor agonist. MC4 receptors in the brain are involved in regulation of hunger, satiety, and energy expenditure. In genetic forms of obesity associated with insufficient activation of the MC4 receptor, setmelanotide is believed to re-establish MC4 receptor pathway activity to reduce hunger and promote weight loss through decreased caloric intake and increased energy expenditure.

# Pharmacodynamic effects

#### Skin pigmentation

Setmelanotide is a selective MC4 receptor agonist with less activity at the melanocortin 1 (MC1) 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 sections 4.4 and 4.8).

#### Clinical efficacy and safety

## POMC, including PCSK1, deficiency and LEPR deficiency

The safety and efficacy of setmelanotide for the treatment of POMC and LEPR deficiency obesity were established in 2 identically designed, 1 year open-label pivotal studies, each with a double-blind, placebo-controlled withdrawal period:

- Study 1 (RM-493-012) enrolled patients aged 6 years and above with genetically confirmed POMC (including PCSK1) deficiency obesity.
- Study 2 (RM-493-015) enrolled patients aged 6 years and above with genetically confirmed LEPR deficiency obesity.

In both studies, adult patients had a body mass index (BMI) of  $\geq$ 30 kg/m<sup>2</sup>. Weight in children was  $\geq$ 95th percentile using growth chart assessment.

Dose titration occurred over a 2- to 12week period, followed by a 10week open-label treatment period. Patients who achieved at least a 5 kg 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, placebo-controlled, withdrawal period lasting 8 weeks (4week placebo treatment and 4week setmelanotide treatment). Following the withdrawal sequence, patients re-initiated active treatment with setmelanotide at the therapeutic dose for up to 32 weeks. Twenty-one patients (10 in Study 1 and 11 in Study 2) have been treated for at least 1 year and are included in the efficacy analyses.

Additional supportive data were gathered in an investigator-led study and an ongoing extension study.

Study 1 (RM-493-012)

In Study 1, 80% of patients with POMC deficiency obesity met the primary endpoint, achieving a  $\geq$ 10% weight loss after 1 year of treatment with setmelanotide and 50% of patients with POMC deficiency obesity achieved a predefined clinically meaningful  $\geq$ 25% improvement in hunger score from baseline at 1 year (Table 11).

Statistically significant and clinically meaningful mean percent decreases from baseline for body weight of 25.6% were reported for Study 1. Changes in hunger were assessed using a patient and caregiver questionnaire completed daily for 'most hunger over the last 24 hours' at 1 year for patients ≥12 years of age. Statistically significant and clinically meaningful mean percent decreases from baseline for hunger as a weekly average in the last 24 hours of 27.1% were reported for Study 1 (Table 12).

When treatment with setmelanotide was withdrawn in patients who had lost weight during the 10week open-label period, these patients gained weight (Figure 1) and the mean hunger scores increased over the 4 weeks of placebo treatment.

Table 11 Proportion of patients achieving at least 10% weight loss and the proportion of patients achieving at least 25% improvement in daily hunger from baseline at 1 year in Study 1

| Parameter   | Statistic            |                  |
|---|----------------------|------------------|
| Patients achieving at least 10% weight loss at 1 year | n (%)                | 8 (80.0%)        |
| (N=10)  | 90% CI <sup>1</sup>  | (49.31%, 96.32%) |
|   | P-value <sup>2</sup> | < 0.0001         |
| Patients achieving at least 25% hunger improvement    | n (%)                | 4 (50.0)         |
| from baseline at 1 year (N=8)                         | 90% CI <sup>1</sup>  | (19.29, 80.71)   |
|   | P-value <sup>1</sup> | 0 0004           |

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

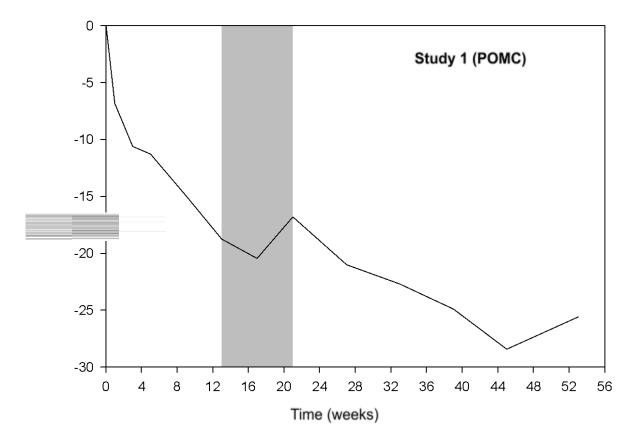
- 1 From the Clopper-Pearson (exact) method
- 2 Testing the null hypothesis: proportion =5%

Table 12 Percent change from baseline in weight and hunger at 1 year in Study 1

| Parameter                                  | Statistic | Body weight (kg)<br>(N=9) | Hunger score <sup>1</sup><br>(N=7) |
|--|-----------|---------------------------|------------------------------------|
| Baseline                                   | Mean (SD) | 115.0 (37.77)             | 8.1 (0.78)                         |
|  | Median    | 114.7                     | 8.0                                |
|  | Min, Max  | 55.9, 186.7               | 7, 9                               |
| 1 year                                     | Mean (SD) | 83.1 (21.43)              | 5.8 (2.02)                         |
|  | Median    | 82.7                      | 6.0                                |
|  | Min, Max  | 54.5, 121.8               | 3, 8                               |
| Percent change from baseline to 1 year (%) | Mean (SD) | -25.6 (9.88)              | -27.06 (28.11)                     |
|  | Median    | -27.3                     | -14.29                             |
|  | Min, Max  | -35.6, -2.4               | -72.2, -1.4                        |
|  | LS Mean   | -25.39                    | -27.77                             |
|  | 90% CI    | (-28.80, -21.98)          | (-40.58, -14.96)                   |
|  | P-value   | < 0.0001                  | 0.0005                             |

Note: This analysis includes patients who received at least one dose of study drug, had at least one baseline assessment, and demonstrated ≥5 kg weight loss (or 5% of body weight if weight was <100 kg at baseline) over the 12-week open-label treatment period and proceeded into the double-blind, placebo-controlled withdrawal period.

Figure 1 Percent Body Weight Change from Baseline by Visit (Study 1 [N=9])



<sup>&</sup>lt;sup>1</sup> Hunger ranges from 0 to 10 on a Likert-type scale; 0 = not hungry at all and 10 = hungriest possible. Hunger score was captured in a daily diary and was averaged to calculate a weekly score for analysis.

In Study 2, 46% of patients with LEPR deficiency obesity met the primary endpoint, achieving a  $\geq$ 10% weight loss after 1 year of treatment with setmelanotide and 73% of patients with LEPR deficiency obesity achieved a predefined clinically meaningful  $\geq$ 25% improvement in hunger score from baseline at 1 year (Table 13).

Statistically significant and clinically meaningful mean percent decreases from baseline for body weight of 12.5% were reported for Study 2. Changes in hunger were assessed using a patient and caregiver questionnaire completed daily for 'most hunger over the last 24 hours' at 1 year for patients ≥12 years of age. Statistically significant and clinically meaningful mean percent decreases from baseline for hunger as a weekly average in the last 24 hours of 43.7% were reported for Study 2 (Table 14).

When treatment with setmelanotide was withdrawn in patients who had lost weight during the 10week open-label period, these patients gained weight (Figure 2) and the mean hunger scores increased over the 4 weeks of placebo treatment.

Table 13 Proportion of patients achieving at least 10% weight loss and the proportion of patients achieving at least 25% improvement in daily hunger from baseline at 1 year in Study 2

| Parameter   | S                    | Statistic        |
|---|----------------------|------------------|
| Patients achieving at least 10% weight loss at 1 year | n (%)                | 5 (45.5%)        |
| (N=11)  | 90% CI <sup>1</sup>  | (19.96%, 72.88%) |
|   | P-value <sup>2</sup> | 0.0002           |
| Patients achieving at least 25% hunger improvement    | n (%)                | 8 (72.7)         |
| from baseline at 1 year (N=11)                        | 90% CI <sup>1</sup>  | (43.56, 92.12)   |
|   | P-value <sup>1</sup> | < 0.0001         |

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

Table 14 Percent change from baseline in weight and hunger at 1 year in Study 2

| Parameter                                  | Statistic | Body weight (kg)<br>(N=7) | Hunger score <sup>1</sup><br>(N=7) |
|--|-----------|---------------------------|------------------------------------|
| Baseline                                   | Mean (SD) | 131.7 (32.6)              | 7.0 (0.77)                         |
|  | Median    | 120.5                     | 7.0                                |
|  | Min, Max  | 89.4, 170.4               | 6, 8                               |
| 1 year                                     | Mean (SD) | 115.0 (29.6)              | 4.1 (2.09)                         |
|  | Median    | 104.1                     | 3.0                                |
|  | Min, Max  | 81.7, 149.9               | 2, 8                               |
| Percent change from baseline to 1 year (%) | Mean (SD) | -12.5 (8.9)               | -43.7 (23.69)                      |
|  | Median    | -15.3                     | -52.7                              |
|  | Min, Max  | -23.3, 0.1                | -67, 0                             |
|  | LS Mean   | -12.47                    | -41.93                             |
|  | 90% CI    | (-16.10, -8.83)           | (-54.76, -29.09)                   |
|  | P-value   | < 0.0001                  | < 0.0001                           |

Note: This analysis includes patients who received at least one dose of study drug, had at least one baseline assessment, and demonstrated ≥5 kg weight loss (or 5% of body weight if weight was <100 kg at baseline) over the 12-week open-label treatment period and proceeded into the double-blind, placebo-controlled withdrawal period.

<sup>1</sup> From the Clopper-Pearson (exact) method

<sup>2</sup> Testing the null hypothesis: proportion =5%

<sup>&</sup>lt;sup>1</sup> Hunger ranges from 0 to 10 on a Likert-type scale; 0 = not hungry at all and 10 = hungriest possible.

| Parameter | Statistic | Body weight (kg) | Hunger score <sup>1</sup> |
|-----------|-----------|------------------|---------------------------|
|           |           | (N=7)            | (N=7)                     |

Hunger score was captured in a daily diary and was averaged to calculate a weekly score for analysis.

-2 --4 --6 --10 --12 -

24

Figure 2 Percent body weight change from baseline by visit (Study 2 [N=7])

# <u>BardetBiedl Syndrome</u>

4

8

12

16

20

Study 3 (RM493023)

-14

0

The safety and efficacy of IMCIVREE for the treatment of patients aged 6 years and older with obesity due to BBS were assessed in a 1year clinical study with a 14week placebocontrolled period (Study 3 [RM493023]). The study enrolled patients aged 6 years and above with obesity and BBS. Adult patients had a BMI of  $\geq$ 30 kg/m². Paediatric patients had a BMI  $\geq$ 97<sup>th</sup> percentile for age and sex using growth chart assessments.

32

Time (weeks)

36

40

56

48

52

28

Eligible patients entered a 14week, randomized, doubleblind, placebocontrolled treatment period (Period 1) followed by a 38week openlabel treatment period (Period 2) in which all patients received setmelanotide. To maintain the blind through Period 2, dose titration to a fixed dose of 3 mg was done during the first 2 weeks of both Period 1 and Period 2. Thirty-two patients have been treated for at least 1 year and are included in the efficacy analyses.

In Study 3, 35.7% of patients with BBS aged  $\geq$ 12 years and 46.7% of patients with BBS aged  $\geq$ 18 years met the primary endpoint, achieving a  $\geq$ 10% weight loss after 1 year of treatment with setmelanotide (Table 15). The effect of IMCIVREE on body weight in patients assessed by the investigator as cognitively impaired was similar to patients who were not cognitively impaired.

In Study 3, ~52 weeks of treatment with setmelanotide resulted in clinically meaningful reductions in BMI Zscores occurring in 100% of the BBS patients aged <12 years, with consistent results observed in patients ≥12 and <18 years of age. In patients aged <18 years, the mean reduction from baseline in BMI Zscore was 0.75 and the mean reduction from baseline in percent of the 95<sup>th</sup> percentile for BMI for age and sex was 17.3%.

Patients 12 years and older who were able to selfreport their hunger, recorded their daily maximal hunger in a diary, which was then assessed by the Daily Hunger Questionnaire Item 2. Hunger was scored on an 11point scale from 0 ("not hungry at all") to 10 ("hungriest possible"). Statistically significant and clinically meaningful mean percent decreases from baseline at 1 year for most/worst hunger of 30.5% were reported for Study 3 (Table 16).

Table 15 Body weight (kg) – proportion of all patients, patients with BBS aged  $\geq$ 12 years and patients with BBS aged  $\geq$ 18 years achieving at least 10% weight loss from baseline at 1 year (Study 3 [Full Analysis Set])

| Parameter                   | Statistic <sup>1</sup> | Patients<br>≥12 years | Patients ≥18 years |
|-----------------------------|------------------------|-----------------------|--------------------|
| Patients achieving at least | N                      | 28                    | 15                 |
| 10% weight loss at year 1   | %                      | 35.7                  | 46.7               |
|                             | 95% CI <sup>1</sup>    | (18.6, 55.9)          | (21.3, 73.4)       |
|                             | Pvalue                 | 0.0002                | 0.0003             |

1 Estimated %, 95% confidence interval and pvalue are based on Rubin's Rule. Pvalue is onesided and compared with alpha=0.025.

Table 16 Daily hunger scores – change from baseline at 1 year in all patients and patients with BBS aged ≥12 years (Study 3 [Full Analysis Set])

| Timepoint           | Statistic            | Patients ≥12 years |
|---------------------|----------------------|--------------------|
| 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          |
|                     | 95% CI <sup>1</sup>  | -3.31, -0.94       |
|                     | p-value <sup>1</sup> | 0.0010             |
| % Change at week 52 | N                    | 14                 |

| Timepoint | Statistic            | Patients ≥12 years |
|-----------|----------------------|--------------------|
|           | Mean (SD)            | -30.45 (26.485)    |
|           | Median               | -25.00             |
|           | Min, Max             | -77.0, 0.0         |
|           | 95% CI <sup>1</sup>  | -45.74, -15.16     |
|           | p-value <sup>1</sup> | 0.0004             |

Abbreviations: CI=confidence interval; Max=maximum; Min=minimum; SD=Standard Deviation. 195% CI and pvalue are based on Rubin's Rule; pvalue is onesided.

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 cardiometabolic parameters, such as blood pressure, lipids, glycaemic parameters, and waist circumference.

## Paediatric population

In clinical studies, 42 of the patients treated with setmelanotide were aged 6 to 17 years at baseline (14 patients with POMC, PCSK1 or LEPR deficiency and 28 patients with BBS). Overall, efficacy and safety in these younger patients were similar to older patients studied. Significant decreases in BMI were demonstrated. In patients who had not yet completed their growth, appropriate progression in pubertal development and increases in height were observed during the study period.

The European Medicines Agency has deferred the obligation to submit the results of studies with setmelanotide in one or more subsets of the paediatric population in treatment of appetite and general nutrition disorders (see section 4.2 for information on paediatric use).

# 5.2 Pharmacokinetic properties

The mean steady state setmelanotide  $C_{max,ss}$ ,  $AUC_{tau}$ , and trough concentration for a 3 mg dose administered subcutaneously to otherwise healthy volunteers with obesity (N=6) once daily for 12 weeks were 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 13 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 (13 mg).

A population PK model comprised of 120 subjects in 8 studies with otherwise healthy volunteers with obesity or patients with rare genetic diseases of obesity was conducted. The study population consisted of 51 males and 69 females with ages ranging from 10 to 65 years and weights ranging from 55.9 to 209 kg. There were 4 children ages 10 to <12 years and 19 adolescents ages 12 to <17 years in the dataset. Studies enrolled 29 otherwise healthy, volunteers with obesity and 91 patients with rare genetic diseases of obesity.

## **Absorption**

After subcutaneous injection of setmelanotide, steady-state plasma concentrations of setmelanotide increased slowly, reaching maximum concentrations at a median  $t_{max}$  of 8.0 hours after dosing. The absolute bioavailability following subcutaneous administration of setmelanotide has not been investigated in humans. Estimate of the inter-individual variability (CV%) from the population PK model was 28.7% (CL/F) and intraindividual variability was 27.6%.

The PK of setmelanotide in patients with BBS was similar to that obtained in the population of patients with POMC, PCSK1, and LEPR deficiency, suggesting the disease state alone does not impact the PK of setmelanotide.

#### Distribution

The mean apparent volume of distribution of setmelanotide after subcutaneous administration of setmelanotide 3 mg once daily was estimated from the population PK model to be 48.7L. Setmelanotide binding to human plasma protein is 79.1%.

*In vitro* experiments indicate that setmelanotide is not a substrate of OATP1B1, OATP1B3, OAT1, OAT3, or OCT2.

*In vitro* data indicate that setmelanotide is very unlikely a P-gp or BCRP substrate.

#### **Biotransformation**

Setmelanotide did not appear to be metabolised by rat, monkey, or human hepatic microsomes or hepatocytes, or kidney microsomes.

## **Elimination**

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

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

#### Linearity/non-linearity

Setmelanotide AUC and  $C_{max}$  increased approximately linearly with dose following multiple-dose subcutaneous administration in the proposed dose range (13 mg).

#### Special populations

#### Paediatric population

Setmelanotide has been evaluated in paediatric patients (aged 6 to 17 years).

Simulations from the population PK analyses suggest slightly higher exposure in younger patients (who also have lower body weight) and provide support for the dosing regimen in patients 6 years and older.

#### Elderly population

Available data in a small sample of elderly patients suggest no marked changes in setmelanotide exposure with increased age. However, these data are too limited to draw definite conclusions.

#### Renal impairment

POMC, including PCSK1, deficiency and LEPR deficiency

Pharmacokinetic analysis showed a 12%, 26%, and 49% lower clearance (CL/F) of setmelanotide in patients with mild, moderate, and severe renal impairment, respectively, as compared to patients with normal renal function.

No dose adjustments for patients with mild (estimated glomerular filtration rate [eGFR] of 6089 ml/min/1.73 m<sup>2</sup>) or moderate renal impairment (eGFR of 3059 ml/min/1.73 m<sup>2</sup>) are needed. Dose adjustments are recommended for patients with severe renal impairment (eGFR 1529 ml/min/1.73 m<sup>2</sup>) (see section 4.2). Setmelanotide should not be administered to patients with end-stage renal disease (eGFR <15 ml/min/1.73 m<sup>2</sup>) (see section 4.2).

#### BardetBiedl Syndrome

No dose adjustments for patients with mild (estimated glomerular filtration rate [eGFR] of 6089 ml/min/1.73 m<sup>2</sup>) or moderate renal impairment (eGFR of 3059 ml/min/1.73 m<sup>2</sup>) are needed. Dose adjustments are recommended for patients with severe renal impairment (eGFR 1529 ml/min/1.73 m<sup>2</sup>) (see section 4.2). Setmelanotide should not be administered to patients with endstage renal disease (eGFR <15 ml/min/1.73 m<sup>2</sup>) (see section 4.2).

#### Hepatic impairment

Setmelanotide is stable in human, rat, and monkey hepatocytes; therefore, a study in patients with hepatic impairment was not conducted. IMCIVREE should not be used in patients with hepatic impairment.

#### Body weight

Setmelanotide CL/F varied with body weight according to a fixed allometric relationship.

#### Gender

No clinically significant differences in the pharmacokinetics of setmelanotide were observed based on sex.

#### 5.3 Preclinical safety data

Nonclinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity, carcinogenicity, fertility, teratogenicity, or postnatal development.

A developmental reproduction study in rabbits revealed increases in embryo-foetal resorption and post- implantation loss in pregnant rabbits treated with setmelanotide. These effects were attributed to extreme reductions in maternal food consumption related to the primary pharmacodynamic activity of setmelanotide. Similar reductions in food consumption and related embryo-foetal loss were not observed in a developmental reproduction study in rats. No teratogenic effects were observed in either species.

Dose-related setmelanotide concentrations were observed in milk 2 hours after subcutaneous injection in the pre-weaning phase of a pre- and postnatal development study in rats. No quantifiable setmelanotide concentrations were detected in plasma from nursing pups at any dose.

In contrast to primates, variable cardiovascular effects, such as increased heart rate and blood pressure, were observed in rats and minipigs. The reason underlying those species differences remains unclear. In rat, the dose-dependent effects of setmelanotide on heart rate and blood pressure were linked to an increase in sympathetic tone and they were found to progressively diminish upon repeated daily dosing.

Minimal cytoplasmic vacuolation related to the excipient mPEG-DSPE was observed in the choroid plexus after chronic administration in adult rats and monkeys. Choroid plexus vacuolation was not observed in juvenile rats treated with setmelanotide/mPEG-DSPE from post-natal Days 7 to 55 at 9.5times the human dose of mPEG-DSPE from 3 mg of setmelanotide on a mg/m²/day basis.

The available carcinogenicity data in Tg.rasH2 mice indicate that setmelanotide/mPEG-DSPE does not pose a carcinogenic risk to patients, with a safety margin of 17 for setmelanotide based on AUC and a dose margin of 16 for mPEG-DSPE on a mg/m2/day basis, at the clinical dose of 3 mg/day. Due to the lack of pro-carcinogenic concern from the available non-clinical and clinical data on setmelanotide, a 2-year carcinogenicity study in rats has not been performed.

# 6 PHARMACEUTICAL PARTICULARS

#### 6.1 List of excipients

N-(carbonyl-methoxypolyethylene glycol 2000)-1,2-distearoyl-glycero-3-phosphoethanolamine sodium salt (mPEG-2000-DSPE) Carmellose sodium Mannitol

Phenol
Benzyl alcohol
Disodium edetate
Water for injections

# 6.2 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

# 6.3 Shelf life

3 years

After first use

28 days or until the expiry date (whichever is earlier).

Do not store above 30°C.

Chemical and physical in use stability has been demonstrated for 28 days at 2-30 °C.

From a microbiological point of view, once opened, the product may be stored for a maximum of 28 days at 2°C to 30°C. Other in-use storage times and conditions are the responsibility of the user.

# 6.4 Special precautions for storage

Store in a refrigerator (2°C to 8°C). Do not freeze. Store in the original carton in order to protect from light.

Unopened vials may be kept at room temperature, not to exceed 30°C, for up to 30 days.

For storage conditions after first opening of the medicinal product, see section 6.3.

#### 6.5 Nature and contents of container

2R clear glass type I multidose vial with bromobutyl stopper and aluminium cap.

Pack size: 1 multidose vial.

# 6.6 Special precautions for disposal

IMCIVREE should be removed from the refrigerator approximately 15 minutes prior

to administration. Alternatively, patients may warm the product prior to administration by rolling the vial gently between the palms of their hands for 60 seconds.

IMCIVREE should be inspected prior to each injection, and the solution should not be used if it is cloudy or contains particles.

If IMCIVREE is exposed to temperatures >30°C, it should be discarded and not used.

Always use a new syringe for each injection to prevent contamination.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

# 7 MARKETING AUTHORISATION HOLDER

Rhythm Pharmaceuticals Netherlands B.V. Radarweg 29, 1043NX Amsterdam Netherlands

# **8** MARKETING AUTHORISATION NUMBER(S)

PLGB 55587/0001

# 9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

15/09/2021

# 10 DATE OF REVISION OF THE TEXT

26/05/2023