This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at www.tga.gov.au/reporting-problems.

<u>AUSTRALIAN PRODUCT INFORMATION – EPIDYOLEX® (CANNABIDIOL) ORAL</u> SOLUTION

1 NAME OF THE MEDICINE

Cannabidiol

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each mL of oral solution contains 100 mg cannabidiol.

Excipients with known effect

Each mL of EPIDYOLEX oral solution contains 79 mg of ethanol absolute, 736 mg sesame oil, and 0.5 mg of sucralose.

For the full list of excipients, see section 6.1 LIST OF EXCIPIENTS.

3 PHARMACEUTICAL FORM

Oral solution
Clear, colourless to yellow solution

4 CLINICAL PARTICULARS

4.1 THERAPEUTIC INDICATIONS

EPIDYOLEX is indicated for use as adjunctive therapy of seizures associated with Lennox-Gastaut syndrome (LGS) or Dravet syndrome (DS) for patients 2 years of age and older.

4.2 DOSE AND METHOD OF ADMINISTRATION

EPIDYOLEX should be initiated and supervised by a neurologist.

Dosage

The recommended starting dose of EPIDYOLEX is 2.5 mg/kg taken twice daily (5 mg/kg/day) for one week. After one week, the dose should be increased to a maintenance dose of 5 mg/kg twice daily (10 mg/kg/day). Based on individual clinical response and tolerability, each dose can be further increased in weekly increments of 2.5 mg/kg administered twice daily (5 mg/kg/day) up to a maximum recommended dose of 10 mg/kg twice daily (20 mg/kg/day).

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Any dose increases above 10 mg/kg/day, up to the maximum recommended dose of 20 mg/kg/day, should be made considering individual benefit and risk and with adherence to the monitoring schedule (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS</u> FOR USE).

Each EPIDYOLEX carton is supplied with:

- Two 1 mL syringes graduated in 0.05 mL increments (each 0.05 mL increment corresponds to 5 mg EPIDYOLEX)
- Two 5 mL syringes graduated in 0.1 mL increments (each 0.1 mL increment corresponds to 10 mg EPIDYOLEX)

If the calculated dose is 100 mg (1 mL) or less, the smaller 1 mL oral syringe should be used.

If the calculated dose is more than 100 mg (1 mL), the larger 5 mL oral syringe should be used.

The calculated dose should be rounded to the nearest graduated increment.

Discontinuation

EPIDYOLEX may be discontinued for lack of efficacy or tolerability issues. If EPIDYOLEX has to be discontinued, the dose should be decreased gradually. In clinical trials, EPIDYOLEX discontinuation was achieved by reducing the dose by approximately 10% per day for 10 days (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>). A slower or faster down titration may be required, as clinically indicated, at the discretion of the prescriber.

Missed doses

In the case of one or more missed doses, the missed doses should not be compensated. Dosing should be resumed at the existing treatment schedule. In the case of more than 7 days' missed doses, re-titration to the therapeutic dose should be made.

Method of Administration

Oral use

Food may increase EPIDYOLEX levels and therefore it should be taken consistently either with or without food, including the ketogenic diet (see section <u>5.2 PHARMACOKINETIC PROPERTIES</u>).

Dosage Adjustment

Special populations

Elderly (65 years of age and above)

The safety and efficacy of EPIDYOLEX in patients \geq 65 years of age have not been established.

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In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other concurrent therapy (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u> under hepatocellular injury and section <u>5.2 PHARMACOKINETIC PROPERTIES</u>).

Renal impairment

EPIDYOLEX can be administered to patients with mild, moderate, or severe renal impairment without dose adjustment (see section <u>5.2 PHARMACOKINETIC</u> <u>PROPERTIES</u>). There is no experience in patients with end-stage renal disease. It is not known if EPIDYOLEX is dialysable.

Hepatic impairment

EPIDYOLEX does not require dose adjustment in patients with mild hepatic impairment (Child-Pugh A).

Caution should be used in patients with moderate hepatic impairment (Child-Pugh B) and EPIDYOLEX should not be used in patients with severe hepatic impairment (Child-Pugh C), unless the potential benefit outweighs the risk. A lower starting dose is recommended in patients with moderate or severe hepatic impairment. The dose titration should be performed as detailed in the Table 1 below.

Table 1: Dose adjustments in patients with moderate or severe hepatic impairment

Hepatic Impairment	Starting Dose	Maintenance Dose	Maximum Recommended Dose
Moderate	1.25 mg/kg twice daily	2.5 mg/kg twice daily	5 mg/kg twice daily
	(2.5 mg/kg/day)	(5 mg/kg/day)	(10 mg/kg/day)
Severe	0.5 mg/kg twice daily	1 mg/kg twice daily	2 mg/kg twice daily
	(1 mg/kg/day)	(2 mg/kg/day)	(4 mg/kg/day)*

^{*}Higher doses of EPIDYOLEX may be considered in patients with severe hepatic impairment where the potential benefits outweigh the risks.

Paediatric population

There is no relevant use of EPIDYOLEX in children aged below 6 months.

The safety and efficacy of EPIDYOLEX in children aged 6 months to 2 years have not yet been established. No data are available.

Dose adjustments of other medicinal products used in combination with EPIDYOLEX A physician experienced in treating patients who are on concomitant antiepileptic drugs (AEDs) should evaluate the need for dose adjustments of EPIDYOLEX or of the concomitant medicinal product(s) to manage potential drug interactions (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE and section 4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS).

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4.3 CONTRAINDICATIONS

Hypersensitivity to the active substance, to sesame oil, or to any of the excipients listed in section 6.1 LIST OF EXCIPIENTS.

Patients with transaminase elevations greater than 3 times the upper limit of normal (ULN) and bilirubin greater than 2 times the ULN (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>).

4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE

Identified precautions

Hepatocellular injury

EPIDYOLEX causes dose-related elevations of liver transaminases (alanine aminotransferase [ALT] and/or aspartate aminotransferase [AST]) (see section <u>4.8 ADVERSE EFFECTS</u>). The elevations typically occur in the first two months of treatment initiation; however, there were cases observed up to 18 months after initiation of treatment, particularly in patients taking concomitant valproate.

In clinical trials, the majority of ALT elevations occurred in patients taking concomitant valproate. Concomitant use of clobazam also increased the incidence of transaminase elevations, although to a lesser extent than valproate. Dose adjustment or discontinuation of valproate or dose adjustment of clobazam should be considered if transaminase elevations occur.

Resolution of transaminase elevations occurred with discontinuation of EPIDYOLEX or reduction of EPIDYOLEX and/or concomitant valproate in about two-thirds of the cases. In about one-third of the cases, transaminase elevations resolved during continued treatment with EPIDYOLEX, without dose reduction.

Patients with baseline transaminase levels above the ULN had higher rates of transaminase elevations when taking EPIDYOLEX. In some patients, a synergistic effect of concomitant treatment with valproate upon baseline elevated transaminases resulted in a higher risk of transaminase elevations.

In an uncontrolled study in patients in a different non-epilepsy indication, 2 elderly patients experienced elevations of alkaline phosphatase levels above 2 times the ULN in combination with transaminase elevations. The elevations resolved after discontinuation of EPIDYOLEX.

Patients with severe hepatic impairment (Child-Pugh C) are to be treated with particular caution. In such patients, the potential benefit must outweigh the risk (see section <u>4.2</u>, <u>DOSE AND METHOD OF ADMINISTRATION</u>, <u>hepatic impairment</u>).

Monitoring:

In general, transaminase elevations of greater than 3 times the ULN in the presence of elevated bilirubin without an alternative explanation are an important predictor of severe liver injury. Early identification of elevated transaminase may decrease the risk of a serious outcome. Patients with elevated baseline transaminase levels above 3 times the ULN, or

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elevations in bilirubin above 2 times the ULN, should be evaluated prior to initiation of EPIDYOLEX treatment.

Prior to starting treatment with EPIDYOLEX, obtain serum transaminases (ALT and AST) and total bilirubin levels.

Routine Monitoring:

Serum transaminases and total bilirubin levels should be obtained at 1 month, 3 months, and 6 months after initiation of treatment with EPIDYOLEX, and periodically thereafter or as clinically indicated.

Upon changes in EPIDYOLEX dose above 10 mg/kg/day or changes in medicinal products (dose change or additions) that are known to impact the liver, this monitoring schedule should be restarted.

Intensified Monitoring:

Patients with identified baseline elevations of ALT or AST and patients who are taking valproate should have serum transaminases and total bilirubin levels obtained at 2 weeks, 1 month, 2 months, 3 months, and 6 months after initiation of treatment with EPIDYOLEX, and periodically thereafter or as clinically indicated.

Upon changes in EPIDYOLEX dose above 10 mg/kg/day or changes in medicinal products (dose change or additions) that are known to impact the liver, this monitoring schedule should be restarted.

If a patient develops clinical signs or symptoms suggestive of hepatic dysfunction (e.g., unexplained nausea, vomiting, right upper quadrant abdominal pain, fatigue, anorexia, or jaundice and/or dark urine), serum transaminases and total bilirubin should be measured promptly and treatment with EPIDYOLEX should be interrupted or discontinued, as appropriate. EPIDYOLEX should be discontinued in any patients with elevations of transaminase levels greater than 3 times the ULN and bilirubin levels greater than 2 times the ULN. Patients with sustained transaminase elevations of greater than 5 times the ULN should also have treatment discontinued. Patients with prolonged elevations of serum transaminases should be evaluated for other possible causes. Dosage adjustment should be considered of any co-administered medicinal product that is known to affect the liver (e.g., valproate and clobazam).

Somnolence and sedation

EPIDYOLEX can cause somnolence and sedation, which occur more commonly early in treatment and may diminish with continued treatment. The occurrence was higher for those patients on concomitant clobazam (see section 4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS and section 4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS). Other CNS depressants, including alcohol, can potentiate the somnolence and sedation effect.

Withdrawal of antiepileptic drugs (AEDs)

As with most antiepileptic drugs, EPIDYOLEX should generally be withdrawn gradually because of the risk of increased seizure frequency and status epilepticus (see section 4.2

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<u>DOSE AND METHOD OF ADMINISTRATION</u>). If withdrawal is needed because of a serious adverse event, rapid discontinuation can be considered.

Increased seizure frequency

As with other AEDs, a clinically relevant increase in seizure frequency may occur during treatment with EPIDYOLEX, which may require adjustment in dose of EPIDYOLEX and/or concomitant AEDs, or discontinuation of EPIDYOLEX, to optimise the benefit-risk balance.

Suicidal behaviour and ideation

Suicidal behaviour and ideation have been reported in patients treated with AEDs in several indications. A meta-analysis of randomised placebo-controlled trials with AEDs has shown a small increased risk of suicidal behaviour and ideation. The mechanism of this risk is not known, and the available data do not exclude the possibility of an increased risk for EPIDYOLEX.

Patients should be monitored for signs of suicidal behaviour and ideation and appropriate treatment should be considered. Patients and caregivers of patients should be advised to seek medical advice should any signs of suicidal behaviour and ideation emerge.

Use in the elderly

See section <u>4.2 DOSE AND METHOD OF ADMINISTRATION</u> and section <u>5.2 PHARMACOKINETIC PROPERTIES</u>.

Paediatric use

See section <u>4.2 DOSE AND METHOD OF ADMINISTRATION</u> and section <u>5.2 PHARMACOKINETIC PROPERTIES</u>.

Administration of cannabidiol to juvenile rats for 10 weeks (PND4–6 [SC] and PND7–77[PO]) resulted in delayed sexual maturation (males), decreased locomotor activity and increased bone mineral density. The lowest dose causing developmental toxicity in juvenile rats (15/100 mg/kg SC/PO) was associated with cannabidiol exposures (based on C_{max}) approximately 20 times that anticipated at the maximum clinical dose.

Effects on laboratory tests

See section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u> and section <u>4.8 ADVERSE EFFECTS</u> (UNDESIRABLE EFFECTS.

4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS

CYP3A4 or CYP2C19 inducers

Strong inducers of CYP3A4, such as carbamazepine, enzalutamide, mitotane, St. John's wort, and/or strong inducers of CYP2C19, such as rifampin, administered concomitantly with EPIDYOLEX may decrease the plasma concentrations of cannabidiol and decrease the effectiveness of EPIDYOLEX. Dose adjustment may be necessary.

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UGT inhibitors

EPIDYOLEX is a substrate for UGT1A7, UGT1A9 and UGT2B7. No formal drug-drug interaction studies have been conducted with EPIDYOLEX in combination with UGT inhibitors, therefore caution should be taken when co-administering drugs that are known inhibitors of these UGTs. Dose reduction of EPIDYOLEX and/or the inhibitor may be necessary when given in combination.

Concomitant AED treatments

The pharmacokinetics of EPIDYOLEX are complex and may cause interactions with the patient's concomitant AED treatments. EPIDYOLEX and/or concomitant AED treatment should therefore be adjusted during regular medical supervision and the patient should be closely monitored for adverse drug reactions. In addition, monitoring of plasma concentrations should be considered.

The potential for drug-drug interactions with other concomitant AEDs has been assessed in healthy volunteers and patients with epilepsy for clobazam, valproate and stiripentol. Although no formal drug-drug interaction studies have been performed for other AEDs, phenytoin and lamotrigine are addressed based on *in vitro* data.

Clobazam

When EPIDYOLEX and clobazam are co-administered, bi-directional PK interactions occur. Based on a healthy volunteer study, elevated levels (3- to 4-fold) of N-desmethylclobazam (an active metabolite of clobazam) can occur when combined with cannabidiol, likely mediated by CYP2C19 inhibition. In addition, there was an increased exposure to 7-hydroxy-cannabidiol (7-OH-CBD; an active metabolite of cannabidiol), for which plasma area under the curve (AUC) increased by 47% (see section 5.2 PHARMACOKINETIC PROPERTIES). Increased systemic levels of these active substances may lead to enhanced pharmacological effects and to an increase in adverse drug reactions. Concomitant use of EPIDYOLEX and clobazam increases the incidence of somnolence and sedation compared with placebo (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE and section 4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS). Reduction in dose of clobazam should be considered if somnolence or sedation are experienced when clobazam is co-administered with EPIDYOLEX.

Valproate

Concomitant use of EPIDYOLEX and valproate increases the incidence of transaminase enzyme elevations (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>). The mechanism of this interaction remains unknown. If clinically significant increases of transaminases occur, EPIDYOLEX and/or concomitant valproate should be reduced or discontinued in all patients until a recovery of transaminase elevations are observed (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>). Insufficient data are available to assess the risk of concomitant administration of other hepatotoxic medicinal products and EPIDYOLEX (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>).

Concomitant use of EPIDYOLEX and valproate increases the incidence of diarrhoea and events of decreased appetite. The mechanism of this interaction is unknown.

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Stiripentol

When EPIDYOLEX was combined with stiripentol there was a minor increase in stiripentol levels of 28% for C_{max} and 55% for AUC. The clinical relevance of this is unknown, but the patient should be closely monitored for adverse drug reactions.

Phenytoin

Exposure to phenytoin may be increased when it is co-administered with EPIDYOLEX, as phenytoin is largely metabolised via CYP2C9, which is inhibited by cannabidiol *in vitro*. There have not been any clinical studies formally investigating this interaction. Phenytoin has a narrow therapeutic index, so combining EPIDYOLEX with phenytoin should be initiated with caution and if tolerability issues arise, dose reduction of phenytoin should be considered.

Lamotrigine

Lamotrigine is a substrate for UGT enzymes including UGT2B7 which is inhibited by cannabidiol *in vitro*. There have not been any clinical studies formally investigating this interaction. Lamotrigine levels may be elevated when it is co-administered with EPIDYOLEX.

Potential for EPIDYOLEX to affect other medicinal products

CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, UGT1A9, and UGT2B7 Substrates In vitro data predict drug-drug interactions with CYP1A2 substrates (e.g., theophylline, caffeine), CYP2B6 substrates (e.g., bupropion, efavirenz), uridine 5' diphospho-glucuronosyltransferase 1A9 (UGT1A9) (e.g., diflunisal, propofol, fenofibrate), and UGT2B7 (e.g., gemfibrozil, morphine, lorazepam) when co-administered with EPIDYOLEX. Co-administration of EPIDYOLEX is also predicted to cause clinically significant interactions with CYP2C8 (repaglinide) and CYP2C9 (e.g., warfarin) substrates.

In vitro data have demonstrated that cannabidiol inhibits CYP2C19, which may cause increased plasma concentrations of medicines that are metabolised by this isoenzyme such as clobazam and omeprazole. Dose reduction should be considered for concomitant medicinal products that are sensitive CYP2C19 substrates or that have a narrow therapeutic index.

Because of potential inhibition of enzyme activity, dose reduction of substrates of UGT1A9, UGT2B7, CYP2C8, and CYP2C9 should be considered, as clinically appropriate, if adverse reactions are experienced when administered concomitantly with EPIDYOLEX. Because of potential for both induction and inhibition of enzyme activity, dose adjustment of substrates of CYP1A2 and CYP2B6 should be considered, as clinically appropriate.

In vitro assessment of interaction with UGT enzymes
In vitro data suggest that cannabidiol is a reversible inhibitor of UGT1A9 and
UGT2B7-mediated activity at clinically relevant concentrations. The metabolite
7-carboxy-cannabidiol (7-COOH-CBD) is also an inhibitor of UGT1A1, UGT1A4 and

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UGT1A6-mediated activity *in vitro*. Dose reduction of the substrates may be necessary when EPIDYOLEX is administered concomitantly with substrates of these UGTs.

Ethanol in the formulation

Each mL of EPIDYOLEX contains 79 mg of ethanol absolute, equivalent to 10% v/v anhydrous ethanol, i.e., up to 553.04 mg ethanol per maximal single EPIDYOLEX dose (10 mg/kg) for an adult weighing 70 kg (7.9 mg ethanol/kg). For an adult weighting 70 kg, this is equivalent to 14 mL of beer, or 6 mL of wine per dose.

4.6 FERTILITY, PREGNANCY AND LACTATION

Effects on fertility

No human data on the effect of EPIDYOLEX on fertility are available.

No adverse reactions were observed on male or female fertility or reproduction performance in rats at doses up to 250 mg/kg/day (approximately 60-fold greater than the maximum recommended human dose (MRHD) at 20 mg/kg/day).

Use in pregnancy (Category B2)

There are only limited data from the use of EPIDYOLEX in pregnant women.

The embryo-fetal development (EFD) study performed in rabbits evaluated doses of 50, 80, or 125 mg/kg/day. The dose level of 125 mg/kg/day induced decreased fetal body weights and increased fetal structural variations associated with maternal toxicity. Maternal plasma cannabidiol exposures at the no observed-adverse-effect-level (NOAEL) for EFD toxicity in rabbits were less than that in humans at 20 mg/kg/day.

In rats, the EFD study evaluated doses of 75, 150, or 250 mg/kg/day. Embryofetal mortality was observed at the high dose, with no treatment-related effects on implantation loss at the low or mid doses. The NOAEL was associated with maternal plasma exposures (AUC) approximately 50 times greater than the anticipated exposure in humans at 20 mg/kg/day.

A pre- and post-natal development study was performed in rats at doses of 75, 150, or 250 mg/kg/day. Decreased growth, delayed sexual maturation, behavioural changes (decreased activity), and adverse effects on male reproductive organ development (small testes in adult offspring) and fertility were observed in the offspring at doses ≥150 mg/kg/day. The NOAEL was associated with maternal plasma cannabidiol exposures approximately 9 times that in humans at 20 mg/kg/day.

As a precautionary measure, EPIDYOLEX should not be used during pregnancy unless the potential benefit to the mother clearly outweighs the potential risk to the feetus.

Use in lactation

There are no clinical data on the presence of EPIDYOLEX or its metabolites in human milk, the effects on the breastfed infant, or the effects on milk production.

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Studies in animals have shown toxicological changes in lactating animals, when the mother was treated with cannabidiol (see Use in pregnancy: pre-postnatal rat study findings).

There are no human studies on excretion of EPIDYOLEX in breast milk. Given that cannabidiol is highly protein bound and will likely pass freely from plasma into milk, as a precaution, breast feeding should be discontinued during treatment.

4.7 EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

EPIDYOLEX has major influence on the ability to drive and operate machines because it may cause somnolence and sedation (see section <u>4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>). Patients should be advised not to drive or operate machinery unless they are certain of the medicine's effect on their ability to drive or operate machinery. As EPIDYOLEX is a cannabis-based medicine, patients considering driving should also be aware of any local state laws in this respect (see section <u>4.8 ADVERSE EFFECTS</u>).

4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)

Summary of the safety profile

The most common adverse reactions are somnolence, decreased appetite, diarrhoea, pyrexia, fatigue, and vomiting.

The most frequent cause of discontinuations was transaminase elevation.

Tabulated list of adverse reactions

Adverse reactions reported with EPIDYOLEX in placebo-controlled clinical studies are listed in the Table 2 below by System Organ Class and frequency.

The frequencies are defined as follows: very common ($\geq 1/10$), common ($\geq 1/100$) to < 1/10), uncommon ($\geq 1/1,000$ to < 1/100). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Table 2: Tabulated list of adverse reactions

System Organ Class	Frequency	Adverse reactions from clinical trials
Infections and infestations	Common	Pneumonia ^a , Bronchitis, Nasopharyngitis, Urinary tract infection
Metabolism and nutrition disorders	Very common	Decreased appetite
	Common	Increased appetite
Psychiatric disorders	Common	Irritability, Insomnia, Aggression, Abnormal behaviour, Agitation
Nervous system disorders	Very common	Somnolence ^a
	Common	Lethargy, Drooling, Tremor
Respiratory, thoracic and mediastinal disorders	Common	Cough

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System Organ Class	Frequency	Adverse reactions from clinical trials
Gastrointestinal disorders	Very common	Diarrhoea, Vomiting
Hepatobiliary disorders	Common	AST increased, ALT increased, GGT increased, Liver function test abnormal
Skin and subcutaneous tissue disorders	Common	Rash
General disorders and administration site conditions	Very common	Pyrexia, Fatigue
Investigations	Common	Weight decreased

^a Grouped Terms: **Pneumonia:** Pneumonia, Pneumonia RSV, Pneumonia mycoplasmal, Pneumonia adenoviral, Pneumonia viral, Aspiration pneumonia; **Somnolence:** Somnolence, Sedation.

Description of selected adverse reactions

Hepatocellular injury

EPIDYOLEX causes dose-related elevations of ALT and AST (see section <u>4.4 SPECIAL</u> WARNINGS AND PRECAUTIONS FOR USE).

In controlled studies for LGS and DS, the incidence of ALT elevations above 3 times the ULN was 13% in EPIDYOLEX-treated patients compared with 1% in patients on placebo. Less than 1% of EPIDYOLEX-treated patients had ALT or AST levels greater than 20 times the ULN. There were cases of transaminase elevations associated with hospitalisation in patients taking EPIDYOLEX.

Risk Factors for Hepatocellular injury

Concomitant Valproate and Clobazam, Dose of EPIDYOLEX and Baseline Transaminase Elevations

Concomitant Valproate and Clobazam

In EPIDYOLEX-treated patients, the incidence of ALT elevations greater than 3 times the ULN was 23% in patients taking both concomitant valproate and clobazam, 17% in patients taking concomitant valproate (without clobazam), 3% in patients taking concomitant clobazam (without valproate), and 2% in patients taking neither drug.

Dose

ALT elevations greater than 3 times the ULN were reported in 16% of patients taking EPIDYOLEX 20 mg/kg/day compared with 3% in patients taking EPIDYOLEX 10 mg/kg/day.

Baseline transaminase elevations

In controlled trials (see section <u>5.1 PHARMACODYNAMIC PROPERTIES</u>) in patients taking EPIDYOLEX 20 mg/kg/day, the frequency of treatment-emergent ALT elevations greater than 3 times the ULN was 31% (84% of these were on valproate) when ALT was above the ULN at baseline, compared to 12% (89% of these were on valproate) when ALT was within the normal range at baseline. Five percent (5%) of patients (all on valproate) taking EPIDYOLEX 10 mg/kg/day experienced ALT elevations greater than 3 times the ULN when ALT was above the ULN at baseline, compared with 3% of patients (all on valproate) in whom ALT was within the normal range at baseline.

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Somnolence and sedation

Somnolence and sedation events have been observed in controlled trials with EPIDYOLEX in LGS and DS. The frequency in patients receiving 10 mg/kg/day EPIDYOLEX was 26% and in patients receiving 20 mg/kg/day EPIDYOLEX was 29%, compared to 10% in patients receiving placebo. The rate was higher in a subgroup of patients on concomitant clobazam (40% in EPIDYOLEX-treated patients taking clobazam compared with 14% in EPIDYOLEX-treated patients not on clobazam).

Decreased weight

EPIDYOLEX can cause weight loss. In LGS and DS patients, the decrease in weight appeared to be dose-related, with 19% of patients on EPIDYOLEX 20 mg/kg/day experiencing a decrease in weight ≥ 5%, compared to 8% in patients on EPIDYOLEX 10 mg/kg/day. In some cases, the decreased weight was reported as an adverse event (see the Table 2 above). Decreased appetite and weight loss may result in slightly reduced height gain. Continuous weight loss/absence of weight gain should be periodically checked to evaluate if EPIDYOLEX treatment should be continued.

Haematologic abnormalities

EPIDYOLEX can cause decreases in haemoglobin and haematocrit. In LGS and DS patients, the mean decrease in haemoglobin from baseline to end of treatment was -0.37 g/dL in EPIDYOLEX-treated patients. A corresponding decrease in haematocrit was also observed, with a mean change of -1.4% in EPIDYOLEX-treated patients.

Twenty-seven percent (27%) of EPIDYOLEX-treated patients developed a new laboratory--defined anaemia during the course of the study (defined as a normal haemoglobin concentration at baseline, with a reported value less than the lower limit of normal at a subsequent time point).

Increases in creatinine

EPIDYOLEX can cause elevations in serum creatinine. The mechanism has not been determined. In controlled studies in healthy adults and in patients with LGS and DS, an increase in serum creatinine of approximately 10% was observed within 2 weeks of starting EPIDYOLEX. The increase was reversible in healthy adults. Reversibility was not assessed in studies in LGS and DS.

Reporting suspected adverse effects

Reporting suspected adverse reactions after registration 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 at www.tga.gov.au/reporting-problems.

4.9 OVERDOSE

For information on the management of overdose, contact the Poisons Information Centre on 131126.

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Symptoms

Experience with doses higher than the recommended therapeutic dose is limited. Mild to moderate diarrhoea and somnolence have been reported in healthy adult subjects taking a single dose of 6000 mg; this equates to a dose of over 85 mg/kg for a 70 kg adult. These adverse reactions resolved upon study completion.

Management of overdose

In the event of overdose the patient should be observed and appropriate symptomatic treatment given, including monitoring of vital signs.

5 PHARMACOLOGICAL PROPERTIES

5.1 PHARMACODYNAMIC PROPERTIES

Pharmacotherapeutic group: antiepileptics, other antiepileptics, ATC code: N03AX24

Mechanism of action

The precise mechanisms by which cannabidiol exerts its anticonvulsant effects in humans are unknown. Cannabidiol does not exert its anticonvulsant effect through interaction with cannabinoid receptors. Cannabidiol reduces neuronal hyper-excitability through modulation of intracellular calcium via G protein-coupled receptor 55 (GPR55) and transient receptor potential vanilloid 1 (TRPV-1) channels, as well as modulation of adenosine-mediated signalling through inhibition of adenosine cellular uptake via the equilibrative nucleoside transporter 1 (ENT-1).

Pharmacodynamic effects

In patients, there is a potential additive anticonvulsant effect from the bi-directional pharmacokinetic interaction between cannabidiol and clobazam, which leads to increases in circulating levels of their respective active metabolites, 7-OH-CBD (approximately 1.5-fold) and N-CLB (approximately 3-fold) (see section 4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS and section 5.2 PHARMACOKINETIC PROPERTIES).

Clinical trials

Adjunctive therapy in patients with LGS

The efficacy of EPIDYOLEX for the adjunctive therapy of seizures associated with LGS was evaluated in two randomised, double-blind, placebo-controlled, parallel-group studies (GWPCARE3 and GWPCARE4) In both studies, patients were inadequately controlled on at least one AED, with or without vagal nerve stimulation and/or ketogenic diet. Each study consisted of a 4-week baseline period, during which patients were required to have a minimum of 8 drop seizures (≥ 2 drop seizures per week), a 2-week titration period and a 12-week maintenance period. Mean age of the study population was 15 years and 94% were taking 2 or more concomitant AEDs (cAEDs) during the trial. The most frequently

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used cAEDs (> 25%) in GWPCARE3 and GWPCARE4 were clobazam (mean 49%), valproate (mean 39%), lamotrigine (mean 33%), levetiracetam (mean 32%), and rufinamide (mean 28%).

The primary endpoint was the percentage change from baseline in drop seizures per 28 days over the treatment period for the EPIDYOLEX group compared to placebo. Drop seizures were defined as atonic, tonic, or tonic-clonic seizures that led or could have led to a fall or injury. Key secondary endpoints were the proportion of patients with at least a 50% reduction in drop seizure frequency, the percentage change from baseline in total seizure frequency, and Subject/Caregiver Global Impression of Change at the last visit. These outcome measures are summarised in Table 3.

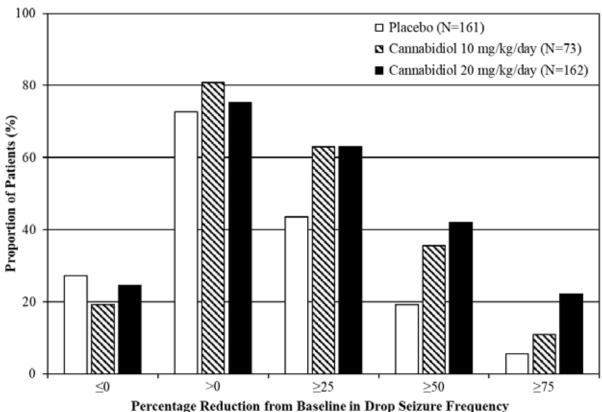
Table 3: Primary and key secondary outcome measures in LGS studies

Table 5: Frimary and key secondary outcome measures in LGS studies					
	Study GWPCARE3			Study GWPCARE4	
	EPIDYOLEX 20 mg/kg/day (n=76)	(n=73)	Placebo (n=76)	EPIDYOLEX 20 mg/kg/day (n=86)	Placebo (n=85)
Primary endpoint -Percentage	ge reduction in (drop seizure fre	quency		
Drop seizures Median % Reduction	41.9	37.2	17.2	43.9	21.8
Comparison to Placebo					
Difference	21.6	19.2		17.2	
95% CI	6.7; 34.8	7.7; 31.2		4.1; 30.3	
P-value	0.005	0.002		0.014	
Key Secondary endpoints					
50% responder proportion ^a P-value	39.5 % 0.001	35.6% 0.003	14.5%	44.2% 0.004	23.5%
Total seizures Median % Reduction	38.4	36.4	18.5	41.2	13.7
Comparison to Placebo Difference	18.8	19.5		21.1	
95% CI	4.4; 31.8	7.5; 30.4		9.4; 33.3	
P-value	0.009	0.002		0.001	
Mean S/CGIC results (last	3.2	3.0	3.6	3.0	3.7
visit)	(sl. improved)	(sl. improved)	(no	(sl. improved)	(no
P-value	0.044	0.002	change)	0.001	change)

CI = 95% confidence interval; Difference = treatment difference (12 weeks); a = proportion of patients with at least 50% reduction in drop seizure frequency; sl. = slightly.

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Figure 1: Cumulative Proportion of Patients by Category of Seizure Response in the Treatment Period for EPIDYOLEX and Placebo in Patients with Lennox-Gastaut Syndrome (GWPCARE3 and 4)



Compared with placebo, EPIDYOLEX was associated with an increase in the number of drop seizure-free days during the treatment period in each trial, equivalent to an additional 3.3 days per 28 days (10 mg/kg/day) and 2.7 to 4.6 days per 28 days (20 mg/kg/day).

Adjunctive Therapy in Patients with DS

The efficacy of EPIDYOLEX for the adjunctive therapy of seizures associated with DS was evaluated in two randomised, double-blind, placebo-controlled, parallel-group studies (GWPCARE2 and GWPCARE1). Each study consisted of a 4-week baseline period, a 2-week titration period and a 12-week maintenance period. Mean age of the study population was 9 years and 94% were taking 2 or more cAEDs during the trial. The most commonly used cAEDs (> 25% of patients) in both trials were valproate, clobazam, stiripentol, and levetiracetam.

The primary endpoint was the change in convulsive seizure frequency during the treatment period (Day 1 to the end of the evaluable period) compared to baseline (GWPCARE2), and the percentage change from baseline in convulsive seizures per 28 days over the treatment period (GWPCARE1) for the EPIDYOLEX groups compared to placebo. Convulsive seizures were defined as atonic, tonic, clonic, and tonic-clonic seizures. Key secondary endpoints for GWPCARE2 were the proportion of patients with at least a 50% reduction in convulsive seizure frequency, the change in total seizure frequency, and Caregiver Global Impression of Change at the last visit. The key secondary endpoint for

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GWPCARE1 was the proportion of patients with at least a 50% reduction in convulsive seizure frequency. These outcome measures are summarised in Table 4.

Table 4: Primary and key secondary outcome measures in DS studies

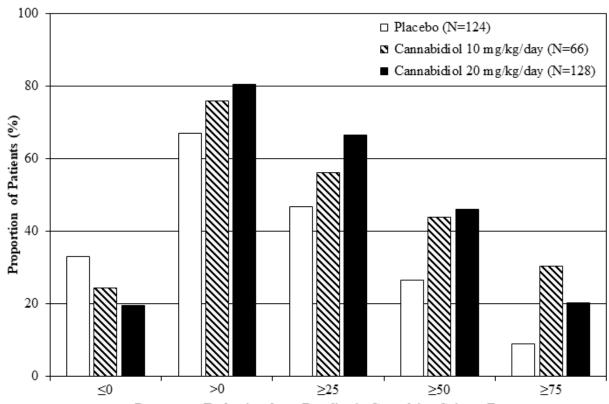
	Study GWPCARE2			Study GWPCARE1	
	EPIDYOLEX		EPIDYOLEX		
	20	EPIDYOLEX		20	
	mg/kg/day	10 mg/kg/day	Placebo	mg/kg/day	Placebo
	(n=67)	(n=66)	(n=65)	(n=61)	(n=59)
	, ,	, ,	,	Percentage re	
Primary endpoint –	Reduction in convulsive seizure			in convulsive seizure	
		frequency		frequency	
Convulsive seizures				33.5.4.5.5	
Median % Reduction/					
% Reduction	45.7	48.7	26.9	38.9	13.3
Comparison to Placebo					
% Reduction	25.7	29.8			
Difference				22.8	
95% CI	2.9; 43.2	8.4; 46.2		5.4; 41.1	
P-value	0.030	0.010		0.012	
	Key Secondary endpoints				
50% responder	49.3%	43.9%	26.2%	42.6%	27.1%
proportion ^a	0.007	0.033		0.078	
P-value					
Total seizures					
Median % Reduction/	47.3	56.4	29.7	*	
% Reduction					
Comparison to Placebo					
% Reduction					
	25.1	38.0			
Difference					
050/ 01	0.5.44.6	00 4 54 6			
95% CI	3.5; 41.9	20.1; 51.9			
P-value	0.026	<0.001	0.0	*	
Mean S/CGIC results	3.1	2.8	3.6	*	
(last visit)	(sl. improved)	(sl. improved)	(no		
P-value	0.028	0.001	change)		

CI= 95% confidence interval; Difference= treatment difference (12 weeks); a= proportion of patients with at least 50% reduction in convulsive seizure frequency; sl.=slightly.

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^{*} For study GWPCARE1, total seizures and CGIC endpoints were not included in formal hypothesis testing and hence results are not shown.

Figure 2: Cumulative Proportion of Patients by Category of Seizure Response in the Treatment Period for EPIDYOLEX and Placebo in Patients with Dravet Syndrome (GWPCARE2 and 1)



Percentage Reduction from Baseline in Convulsive Seizure Frequency

Compared with placebo, EPIDYOLEX was associated with an increase in the number of convulsive seizure-free days during the treatment period in each trial, equivalent to 2.4 days per 28 days (10 mg/kg/day) and 1.3 to 1.4 days per 28 days (20 mg/kg/day).

Adult population

The DS population in studies GWPCARE2 and GWPCARE1 was predominantly paediatric patients, with only 5 adult patients who were 18 years old (1.6%), and therefore limited efficacy and safety data were obtained in the adult DS population.

Dose response

Given that there was no consistent dose response between 10 mg/kg/day and 20 mg/kg/day in the LGS and DS studies, EPIDYOLEX should be titrated initially to the recommended maintenance dose of 10 mg/kg/day (see section <u>4.2 DOSE AND METHOD OF ADMINISTRATION</u>). In individual patients titration up to a maximum dose of 20 mg/kg/day may be considered, based on the benefit-risk (see section <u>4.2 DOSE AND METHOD OF ADMINISTRATION</u>).

Treatment with Clobazam

Based on the results of exploratory subgroup analyses there may be additive anticonvulsant effects of EPIDYOLEX in the presence of clobazam, associated with an increased risk of somnolence and sedation and hepatocellular injury (see section 4.4

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<u>SPECIAL WARNINGS AND PRECAUTIONS FOR USE</u>, section <u>4.5 INTERACTIONS</u> <u>WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS</u> and section <u>4.8</u> ADVERSE EFFECTS (UNDESIRABLE EFFECTS).

The concomitant use of EPIDYOLEX and clobazam requires individualised clinical benefit/risk assessment and potential dose adjustments of either or both medicines based on efficacy, tolerability, and safety.

Open-label data

Across both randomised LGS studies, 99.5% of patients who completed the studies were enrolled into the long-term open-label extension study (GWPCARE5). In this study, for patients with LGS treated for 37 to 48 weeks (N=209), the median percentage reduction from baseline in drop seizure frequency was 52% during Week 1–12, which was maintained through to Week 37–48 (60%).

Across both randomised DS studies, 97.7% of patients who completed the studies were enrolled into GWPCARE5. In this study, for patients with DS treated for 37 to 48 weeks (N=75), the median percentage reduction from baseline in convulsive seizure frequency was 56% during Week 1–12, which was maintained through to Week 37–48 (45%).

Abuse

The non-clinical assessment of abuse potential shows that cannabidiol does not produce cannabinoid-like behavioural responses, including generalisation to delta-9-tetrahydrocannabinol (THC) in a drug discrimination study. Cannabidiol also does not produce animal self-administration, suggesting it does not produce rewarding effects and does not result in physical dependence or withdrawal syndrome.

In a human abuse potential study, acute administration of EPIDYOLEX to non-dependent adult recreational drug users at therapeutic and higher doses of 750, 1500, and 4500 mg in the fasted state produced responses above placebo on positive subjective measures such as Drug Liking and Take Drug Again that were within the range usually considered acceptable. In contrast, 10 and 30 mg of dronabinol (synthetic THC) and 2 mg alprazolam produced large increases on positive subjective measures compared to placebo that were statistically significantly greater than those produced by cannabidiol. Compared to dronabinol and alprazolam, EPIDYOLEX has a low abuse potential.

5.2 PHARMACOKINETIC PROPERTIES

Absorption

EPIDYOLEX appears rapidly in plasma with a time to maximum plasma concentration of 2.5-5 hours at steady state.

Steady-state plasma concentrations are attained within 2-4 days of twice daily dosing based on pre-dose (C_{trough}) concentrations. The rapid achievement of steady state is related to the multiphasic elimination profile of the drug in which the terminal elimination represents only a small fraction of the drug's clearance.

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Co-administration of EPIDYOLEX with a high-fat/high calorie meal increased the rate and extent of absorption (5-fold increase in C_{max} and 4-fold increase in AUC) and reduced the total variability of exposure compared with the fasted state in healthy volunteers. To minimise the variability in the bioavailability of cannabidiol in the individual patient, administration of EPIDYOLEX should be standardised in relation to food intake including a ketogenic diet (high-fat meal).

Distribution

In vitro, > 94% of cannabidiol and its phase I metabolites were bound to plasma proteins, with preferential binding to human serum albumin.

The apparent volume of distribution was high in healthy volunteers at 20,963 L to 42,849 L and greater than total body water, suggesting a wide distribution of EPIDYOLEX.

Metabolism

The half-life of cannabidiol in plasma was 56–61 hours after twice daily dosing for 7 days in healthy volunteers.

Cannabidiol is extensively metabolised by the liver via CYP450 enzymes and the UGT enzymes. The major CYP450 isoforms responsible for the phase I metabolism of cannabidiol are CYP2C19 and CYP3A4. The UGT isoforms responsible for the phase II conjugation of cannabidiol are UGT1A7, UGT1A9, and UGT2B7.

Studies in healthy subjects showed there were no major differences in the plasma exposure to cannabidiol in CYP2C19 intermediate and ultra-rapid metabolisers when compared to extensive metabolisers.

The phase I metabolites identified in standard *in vitro* assays were 7-COOH-CBD, 7-OH-CBD, and 6-OH-CBD (a minor circulating metabolite). After multiple dosing with EPIDYOLEX, the 7-OH-CBD metabolite (active in a preclinical model of seizure) circulates in human plasma at lower concentrations than the parent drug cannabidiol (~ 40% of CBD exposure) based on AUC.

Excretion

The plasma clearance of cannabidiol following a single 1500 mg dose of cannabidiol is about 1111 L/h. Cannabidiol is predominantly cleared by metabolism in the liver and gut and excreted in faeces, with renal clearance of parent drug being a minor pathway.

Linearity

The C_{max} and AUC of cannabidiol are close to dose-proportional over the therapeutic dose range. After single dosing, exposure over the range 750-6000 mg increases in a less than dose-proportional manner, indicating that absorption of cannabidiol may be saturable.

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Pharmacokinetics in special patient groups

Effect of age, weight, sex, race

Population pharmacokinetic analyses demonstrated that there were no clinically relevant effects of age, body weight, sex, or race on exposure to cannabidiol.

Elderly patients

Pharmacokinetics of cannabidiol have not been studied in patients > 55 years of age.

Paediatric patients

Pharmacokinetics of cannabidiol has not been studied in paediatric patients < 2 years of age. A small number of patients < 2 years with treatment-resistant epilepsy have been exposed to EPIDYOLEX in an expanded access programme.

Renal impairment

No effects on the C_{max} or AUC of cannabidiol were observed following administration of a single dose of EPIDYOLEX 200 mg in subjects with mild, moderate, or severe renal impairment when compared to patients with normal renal function. Patients with end-stage renal disease were not studied.

Hepatic impairment

No effects on cannabidiol or metabolite exposures were observed following administration of a single dose of EPIDYOLEX 200 mg in subjects with mild hepatic impairment.

Subjects with moderate and severe hepatic impairment showed higher plasma concentrations of cannabidiol (approximately 2.5–5.2-fold higher AUC compared to healthy subjects with normal hepatic function). EPIDYOLEX should be used with caution in patients with moderate or severe hepatic impairment. A lower starting dose is recommended in patients with moderate or severe hepatic impairment. The dose titration should be performed as detailed in section 4.2 DOSE AND METHOD OF ADMINISTRATION.

Pharmacokinetic/pharmacodynamic relationship(s)

In patients with LGS, population pharmacokinetic pharmacodynamic (PK/PD) modelling indicated the presence of an exposure efficacy relationship for the likelihood of achieving a ≥ 50% reduction in drop seizure frequency across the EPIDYOLEX dose range tested (0 [placebo], 10 and 20 mg/kg/day). There was a significant positive correlation between the derived AUC of cannabidiol and the probability of a ≥ 50% response. The responder rate analysis also showed a correlation in the exposure–response relationship for the active metabolite of cannabidiol (7-OH-CBD). PK/PD analysis also demonstrated that systemic exposures to cannabidiol were correlated with some adverse events namely elevated ALT, AST, diarrhoea, fatigue, GGT, loss of appetite, rash, and somnolence (see section 4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS). Clobazam (separate analysis) was a significant covariate which caused the probability of GGT to increase, loss of appetite to decrease, and somnolence to increase.

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Drug interaction studies

In vitro assessment of drug interactions

Cannabidiol is a substrate for CYP3A4, CYP2C19, UGT1A7, UGT1A9 and UGT2B7. *In vitro* data suggest that cannabidiol is an inhibitor of CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, UGT1A9 and UGT2B7-mediated activity at clinically relevant concentrations. The metabolite 7-carboxy-cannabidiol (7-COOH-CBD) is an inhibitor of UGT1A1, UGT1A4 and UGT1A6-mediated activity, *in vitro* at clinically relevant concentrations (see also section 4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS).

Inhibition of P-gp mediated efflux by cannabidiol in the intestine cannot be ruled out.

Cannabidiol induces CYP1A2 and CYP2B6 mRNA expression at clinically relevant concentrations.

Cannabidiol and the metabolite 7-OH-CBD do not interact with the major renal or hepatic uptake transporters and therefore are unlikely to result in relevant drug-drug interactions: OAT1, OAT3, OCT1, OCT2, MATE1, MATE2-K, OATP1B1, and OATP1B3. Cannabidiol is not a substrate for or an inhibitor of the brain uptake transporters OATP1A2 and OATP2B1. Cannabidiol and 7-OH-CBD are not substrates for or inhibitors of efflux transports P-gp/MDR1, BCRP or BSEP at clinically relevant plasma concentrations. The metabolite 7-COOH-CBD is a P-gp/MDR1 substrate and has the potential to inhibit BCRP, OATP1B3, and OAT3.

In vivo assessment of drug interactions

Drug interaction studies with AEDs

Potential interactions between EPIDYOLEX (750 mg twice daily in healthy volunteers and 20 mg/kg/day in patients) and other AEDs were investigated in drug-drug interaction studies in healthy volunteers and in patients and in a population pharmacokinetic analysis of plasma drug concentrations from placebo-controlled studies in the treatment of patients with LGS.

The combination of EPIDYOLEX with clobazam caused an elevation in exposure to the active metabolite N-desmethylclobazam. Although exposure to EPIDYOLEX was not notably affected by clobazam use, the levels of an active metabolite, 7-OH-CBD, were elevated by this combination. Therefore, dose adjustments of EPIDYOLEX or clobazam may be required. The interactions are summarised in the table below.

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Table 5: Drug interactions between EPIDYOLEX and concomitant antiepileptic drugs

Concomitant AED	Influence of AED on cannabidiol	Influence of cannabidiol on AED
Clobazam	No effect on cannabidiol levels.	No effect on clobazam levels.
	Interaction resulting in an	Interaction resulting in
	increase in exposure of the	approximately 3-fold increase
	active metabolite 7-OH-CBD in	in N-desmethylclobazam
	HV* studies. a	metabolite exposure. b
Valproate	No effect	No effect
Stiripentol	No effect on cannabidiol levels. Interaction resulting in a decrease (approximately 30%)	Interaction resulting in an approximate 28% increase in C _{max} and 55% increase in AUC.
	in C _{max} and AUC of the active metabolite 7-OH-CBD in HV* trials.	

^a average increases of 47% in AUC and 73% in C_{max} ^b based on C_{max} and AUC

5.3 PRECLINICAL SAFETY DATA

Genotoxicity

Cannabidiol was not mutagenic in bacterial reverse mutation (Ames) assays, did not induce structural chromosomal aberrations in the *in vivo* rat micronucleus test, and did not induce DNA strand breaks in the Comet assay. The genotoxic potential of the active metabolite 7-OH-CBD, or the abundant human metabolite, 7-COOH-CBD, has not been evaluated.

Carcinogenicity

Adequate studies of the carcinogenic potential of cannabidiol have not been conducted.

6 PHARMACEUTICAL PARTICULARS

6.1 LIST OF EXCIPIENTS

Sesame oil Ethanol absolute Sucralose

Strawberry flavour 501094A (ARTG PI No. 139687)

6.2 INCOMPATIBILITIES

See section <u>4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS.</u>

6.3 SHELF LIFE

Unopened bottle: 2 years.

Use within 8 weeks after first opening the bottle.

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^{*} HV=Healthy Volunteer

6.4 SPECIAL PRECAUTIONS FOR STORAGE

Store below 25°C.

6.5 NATURE AND CONTENTS OF CONTAINER

Amber glass bottle (type III) with a child-resistant and tamper-evident screw cap (polypropylene). The bottle is packaged in a carton with two 5 mL and two 1 mL calibrated oral dosing syringes (plunger HDPE and barrel polypropylene) and two bottle adapters (LDPE). The 5 mL syringes are graduated in 0.1 mL increments and the 1 mL syringes are graduated in 0.05 mL increments.

6.6 SPECIAL PRECAUTIONS FOR DISPOSAL

In Australia, any unused medicine or waste material should be disposed of in accordance with local requirements.

6.7 PHYSICOCHEMICAL PROPERTIES

Chemical structure

Cannabidiol

CAS number

13956-29-1.

7 MEDICINE SCHEDULE (POISONS STANDARD)

Schedule 4 – Prescription Only Medicine

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8 SPONSOR

Chiesi Australia Pty Ltd Suite 3, 22 Gillman Street Hawthorn East VIC 3123 Australia

Email: medicalaffairs.au@chiesi.com

9 DATE OF FIRST APPROVAL

21 September 2020

10 DATE OF REVISION

08 December 2020

Summary table of changes

Section changed	Summary of new information
8	Change of Sponsor and contact details

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