# ANNEX I 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

Skyclarys 50 mg hard capsules

# 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each hard capsule contains 50 mg omaveloxolone.

For the full list of excipients, see section 6.1.

### 3. PHARMACEUTICAL FORM

Hard capsule

Opaque hard capsule with "RTA 408" printed on the light green body in white ink and "50" printed on the blue cap in white ink. Capsules (size 0) are  $21.7 \pm 0.3$  mm in length, and the outer diameter of the cap is  $7.64 \pm 0.06$  mm.

### 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Skyclarys is indicated for the treatment of Friedreich's ataxia in adults and adolescents aged 16 years and older.

# 4.2 Posology and method of administration

Omaveloxolone should be initiated and supervised by physicians with experience in the treatment of patients with Friedreich Ataxia.

### <u>Posology</u>

The recommended dose is 150 mg omaveloxolone (3 hard capsules of 50 mg each) once daily.

Medicine lost through emesis should not be replaced with an additional dose.

If a dose is missed, the next dose should be taken as usual the following day. A double dose should not be taken to make up for a missed dose.

Dose modifications for concomitant therapy

The recommended dosages for concomitant use of omaveloxolone with strong or moderate cytochrome P450 (CYP) 3A4 inhibitors or inducers are described in Table 1 (see sections 4.4 and 4.5).

Table 1: Recommended dosage modifications of omaveloxolone with concomitant use of CYP3A4 inhibitors

Concomitant Drug Class	Dosage Recommendation
Strong CYP3A4 inhibitor	Recommended to avoid concomitant use.
	If coadministration cannot be avoided:
	<ul> <li>Reduce the dosage of Skyclarys to 50 mg once daily with close monitoring for adverse reactions.</li> </ul>
	<ul> <li>If adverse reactions emerge, coadministration with strong CYP3A4 inhibitors should be discontinued.</li> </ul>
Moderate CYP3A4 inhibitor	Recommended to avoid concomitant use.
	If coadministration cannot be avoided:
	<ul> <li>Reduce the dosage of Skyclarys to 100 mg once daily with close monitoring for adverse reactions.</li> </ul>
	<ul> <li>If adverse reactions emerge, further reduce the dosage of Skyclarys to 50 mg once daily.</li> </ul>

### Elderly

No dose adjustment is required based on age (see section 5.2).

### Hepatic impairment

No dose adjustment is required in patients with mild hepatic impairment (Child-Pugh Class A).

The dose should be reduced to 100 mg once daily with close monitoring for adverse reactions in patients with moderate hepatic impairment (Child-Pugh Class B). Lowering to 50 mg once daily should be considered if adverse reactions emerge.

The use of the medicinal product should be avoided in patients with severe hepatic impairment (Child-Pugh Class C) (see section 5.2).

### Renal impairment

The effect of moderate and severe renal impairment on the pharmacokinetics of omaveloxolone has not been studied (see section 5.2).

### Paediatric population

The safety and efficacy of Skyclarys in children and adolescents aged less than 16 years have not yet been established. No data are available.

### Method of administration

This medicinal product is for oral use.

Omaveloxolone should be taken on an empty stomach at least 1 hour before or 2 hours after eating (see sections 4.5 and 5.2).

Skyclarys capsules should be swallowed whole.

For patients who are unable to swallow whole capsules, Skyclarys capsules may be opened, and the entire contents sprinkled onto 2 tablespoons of apple puree. Patients should consume all the medicine/food mixture immediately on an empty stomach at least 1 hour before or 2 hours after eating. It should not be stored for future use (see section 5.2).

### 4.3 Contraindications

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

# 4.4 Special warnings and precautions for use

### Elevation of aminotransferases

Treatment with omaveloxolone in clinical trials with patients with Friedreich's ataxia has been associated with elevations in alanine aminotransferase (ALT) and aspartate aminotransferase (AST) (see section 4.8). On-treatment aminotransferase elevations of  $\geq 3 \times$  the upper limit of normal (ULN) were reported in 29.4% of patients, with maximal values occurring in the majority of patients within the first 12 weeks of treatment. Initial increases were followed by a trend toward normalization.

ALT, AST, and bilirubin should be monitored prior to initiation of omaveloxolone, monthly during the first 3 months of treatment, and periodically thereafter as clinically indicated. If ALT or AST increases to  $> 5 \times$  the ULN, omaveloxolone should be immediately discontinued, and liver function tests should be repeated as soon as possible. If laboratory abnormalities stabilize or resolve, omaveloxolone can be reinitiated. If ALT or AST increases to  $> 3 \times$  the ULN and bilirubin increases to  $> 2 \times$  the ULN, omaveloxolone should be immediately discontinued and liver function tests should be repeated. Testing should be continued as appropriate. When laboratory abnormalities stabilize or resolve, Skyclarys may be reinitiated with an appropriate frequency of monitoring liver function.

### Drug interactions

Omaveloxolone is primarily metabolised by CYP3A4 (see section 5.2). Concomitant use of strong or moderate CYP3A4 inhibitors may significantly increase the systemic exposure of omaveloxolone (see section 4.5). If concomitant use of strong or moderate CYP3A4 inhibitors is unavoidable, dose reduction of omaveloxolone with monitoring should be considered (see section 4.2).

Concomitant use of omaveloxolone with strong or moderate CYP3A4 inducers may significantly decrease the exposure of omaveloxolone (see section 4.5), which may reduce the effectiveness of omaveloxolone. Patients treated with omaveloxolone should be warned to avoid concomitant use of CYP3A4 inducers while taking omaveloxolone. Alternative medicinal products should be considered if possible (see sections 4.2 and 4.5).

### Lipid abnormalities

Treatment with omaveloxolone has been associated with increases in low-density lipoprotein (LDL) cholesterol and decreases in high-density lipoprotein (HDL) cholesterol. Lipid parameters should be assessed prior to initiation of omaveloxolone and should be monitored periodically during treatment. Lipid abnormalities should be managed according to standard clinical guidelines.

# Elevation of B-type natriuretic peptide (BNP)

Treatment with omaveloxolone has been associated with increases in BNP but without any concurrent increase in blood pressure or associated events of fluid overload or congestive heart failure. In Study 1, a total of 13.7% of patients treated with Skyclarys had an increase from baseline in BNP and a BNP above the ULN (100 pg/mL), compared to 3.8% of patients who received placebo. The incidence of elevation of BNP above 200 pg/mL was 3.9% in patients treated with Skyclarys. Whether the elevations in BNP in Study 1 are related to Skyclarys or cardiac disease associated with Friedreich's ataxia is unclear.

In a study with a related compound in diabetic patients with chronic kidney disease (CKD), excess heart failure events due to fluid overload were observed among patients with stage IV CKD. Baseline

BNP > 200 pg/mL and prior hospitalization for congestive heart failure were identified as risk factors for heart failure among patients who had stage IV CKD but not in patients who had stage 3b CKD.

Cardiomyopathy and diabetes mellitus are common in patients with Friedreich's ataxia. BNP should be monitored prior to and periodically during treatment. Patients should be advised of the signs and symptoms of congestive heart failure associated with fluid overload, such as sudden weight gain ( $\geq 1.4$  kg in 1 day or  $\geq 2.3$  kg in 1 week), peripheral oedema, and shortness of breath. If signs and symptoms of fluid overload develop, BNP (or NT-proBNP) should be monitored and managed according to standard clinical guidance. Treatment with Skyclarys should be interrupted during fluid overload management. If fluid overload cannot be appropriately managed, treatment with Skyclarys should be discontinued. Per clinical judgment, more frequent monitoring of patients with a recent hospitalization for fluid overload due to underlying cardiomyopathy, diabetic stage IV CKD, or other aetiologies is strongly recommended.

# Body weight decrease

Treatment with Skyclarys has been associated with mild decreases in body weight. Advise patients to monitor their weight regularly. Further evaluate the patient if unexplained or clinically significant body weight decrease occurs.

### Hypersensitivity reactions

Skyclarys is associated with a risk of hypersensitivity reactions including urticaria and rash (see section 4.8).

In the randomized, double-blind, placebo-controlled trial of 51 patients treated with Skyclarys 150 mg/day for 48 weeks, the frequency of hypersensitivity events was very common (≥ 1/10). All events were non-serious, and all events reported in participants receiving omaveloxolone were mild in severity. The average time to onset for the omaveloxolone group was 135 days (minimum: 3 days, maximum: 360 days, median: 95 days). Hypersensitivity reactions including urticaria and rash have also been reported in the post-marketing setting and other clinical trials. In the post-marketing setting, one serious case of drug hypersensitivity has been reported, all events reported in other clinical trials were mild to moderate in severity. If a hypersensitivity reaction occurs, appropriate measures should be initiated if needed. Patients should be informed of the signs and symptoms of hypersensitivity.

### Skyclarys contains 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

Omaveloxolone is a substrate of CYP3A4. Co-administration of strong or moderate CYP3A4 inhibitors or CYP3A4 inducers will affect the pharmacokinetics of omaveloxolone.

### Effect of other medicines on pharmacokinetics of omaveloxolone

### Strong or moderate CYP3A4 inhibitors

In a clinical study, co-administration of Skyclarys with itraconazole, a strong CYP3A4 inhibitor, increased the area under the curve ( $AUC_{0\text{-inf}}$ ) and maximal plasma concentration ( $C_{max}$ ) by approximately 4-fold and 3-fold, respectively. In a clinical study with healthy subjects, co-administration of verapamil (120 mg once daily) increased the AUC and  $C_{max}$  by 1.24-fold and 1.28-fold, respectively. Verapamil is a known moderate CYP3A4 inhibitor and inhibitor of the P-gp transporter. If concomitant use of strong or moderate CYP3A4 inhibitors is unavoidable, dosage reduction of Skyclarys should be considered with monitoring (see sections 4.2 and 4.4). Some examples of strong and moderate CYP3A4 inhibitors are clarithromycin, itraconazole, ketoconazole, ciprofloxacin, cyclosporine, fluconazole, and fluvoxamine.

As grapefruit and grapefruit juice are inhibitors of CYP3A4, patients should be warned to avoid these while taking Skyclarys (see section 4.4).

### Strong or moderate CYP3A4 inducers

In a clinical study, co-administration of omaveloxolone with efavirenz, a moderate CYP3A4 inducer, decreased the area under the curve ( $AUC_{0-inf}$ ) and maximal plasma concentration ( $C_{max}$ ) by approximately 49% and 38%, respectively. Due to potential loss of efficacy, patients treated with Skyclarys should be warned to avoid use of strong or moderate CYP3A4 inducers while taking Skyclarys and alternatives should be considered if possible. Some examples of strong or moderate CYP3A4 inducers are carbamazepine, phenobarbital, phenytoin, primidone, rifampicin, St. John's wort, and efavirenz.

# Effect of omaveloxolone on other medicinal products

The following were evaluated in clinical studies with omaveloxolone 150 mg in healthy subjects:

### CYP3A4 substrates

The AUC of midazolam, a CYP3A4 substrate, was reduced by approximately 45% when co-administered with omaveloxolone, indicating that omaveloxolone is a weak inducer of CYP3A4 and can reduce the exposure of CYP3A4 substrates. Concomitant use with Skyclarys may reduce the efficacy of hormonal contraceptives. Advise patients to avoid concomitant use with combined hormonal contraceptives (e.g., pill, patch, ring), implants, and progestin only pills (see section 4.6).

### CYP2C8 substrates

The AUC of repaglinide, a CYP2C8 substrate, was reduced by approximately 35% when co-administered with omaveloxolone, indicating that omaveloxolone is a weak inducer of CYP2C8 and can reduce the exposure of CYP2C8 substrates.

### BCRP substrates

The AUC of rosuvastatin, a BCRP and OATP1B1 substrate, was reduced by approximately 30% when co-administered with omaveloxolone, indicating that omaveloxolone is a weak inducer of BCRP and can reduce the exposure of BCRP substrates.

### 4.6 Fertility, pregnancy and lactation

### **Pregnancy**

There are no data from the use of omaveloxolone in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3).

Skyclarys should not be used during pregnancy or in women of childbearing potential not using contraception. Patients should use effective contraception prior to starting treatment with Skyclarys, during treatment, and for 28 days following discontinuation of treatment.

Skyclarys may decrease the efficacy of hormonal contraceptives (see section 4.5). Advise patients to avoid concomitant use with combined hormonal contraceptives (e.g., pill, patch, ring). Counsel females using hormonal contraceptives to use an alternative contraceptive method (e.g., non-hormonal intrauterine system) or additional non-hormonal contraceptive (e.g., condoms) during concomitant use and for 28 days after discontinuation of Skyclarys.

# **Breast-feeding**

There are no data on the presence of omaveloxolone in human milk. Omaveloxolone is present in the milk of lactating rats and resulted in treatment-related effects in offspring (see section 5.3). A risk to the newborn infant cannot be excluded. Skyclarys should not be used during breast-feeding.

# **Fertility**

There are no data on the effects of Skyclarys on human fertility. Animal data did not indicate impairment of parent male or female fertility (see section 5.3).

# 4.7 Effects on ability to drive and use machines

Omaveloxolone may have a minor influence on the ability to drive and use machines. Fatigue may occur following administration of omaveloxolone (see section 4.8).

### 4.8 Undesirable effects

# Summary of safety profile

The most frequently occurring adverse reactions observed with Skyclarys are ALT increased and headache (37.3% each); weight decreased (34.0%); nausea (33.3%); AST increased and fatigue (21.6% each); diarrhoea (19.6%); oropharyngeal pain (17.6%); vomiting (15.7%), back pain, muscle spasms, and influenza (13.7% each); and decreased appetite (11.8%).

### Tabulated list of adverse reactions

The adverse reactions observed in the randomized, double-blind, placebo-controlled trial in 51 patients treated with Skyclarys 150 mg/day for 48 weeks (median exposure 0.92 patient years) are listed in Table 2 by system organ class and frequency. Frequencies are defined as: very common ( $\geq 1/100$ ), common ( $\geq 1/100$  to < 1/100), and uncommon ( $\geq 1/100$ ). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness. Selected adverse reactions are further decribed in following Table 2.

Table 2 Adverse reactions

System Organ Class	Preferred Term	Frequency Category
Infections and infestations	Influenza	Very common
	Urinary tract infection	Common
Immune system disorders	Hypersensitivity including urticaria and rash <sup>a</sup>	Very common
Metabolism and nutrition disorders	Decreased appetite	Very common
	Hypertriglyceridemia	Common
	Very low density lipoprotein increased	Common
Nervous system disorders	Headache	Very common
Respiratory, thoracic and mediastinal disorders	Oropharyngeal pain	Very common
Gastrointestinal disorders	Nausea	Very common
	Diarrhoea	Very common
	Vomiting	Very common
	Abdominal upper pain	Common
	Abdominal pain	Common
Hepatobiliary disorders	ALT increased	Very common
	AST increased	Very common
	GGT increased	Common
Musculoskeletal and connective	Back pain	Very common
tissue disorders	Muscle spasms	Very common

System Organ Class	Preferred Term	Frequency Category
Reproductive system and breast disorders	Dysmenorrhoea	Common
General disorders and administration site conditions	Fatigue	Very common
Investigations	BNP increased <sup>b</sup>	Common
	Weight decreased <sup>c</sup>	Very common

<sup>&</sup>lt;sup>a</sup> Cases have been reported in the post-marketing setting with unknown frequency.

# Description of selected adverse reactions

### Gastrointestinal disorders

Among patients treated with Skyclarys in the randomized, double-blind, placebo-controlled study, nausea occurred in 33.3% of patients, diarrhoea in 19.6% of patients, vomiting in 15.7% of patients, abdominal upper pain in 9.8% of patients, and abdominal pain in 7.8% of patients. All events were assessed as either mild or moderate in severity, and 75.8% of the events occurred within the first 12 weeks of therapy.

### Aminotransferase elevations

Among patients treated with Skyclarys in the randomized, double-blind, placebo-controlled study, adverse reactions of aminotransferase elevations included: ALT increased in 37.3% of patients, AST increased in 21.6% of patients, and gamma glutamyltransferase (GGT) increased in 5.9% of patients. Treatment interruptions due to aminotransferase elevations occurred in 11.8% of all Skyclarys-treated patients. One patient (2%) was discontinued for aminotransferase elevation per protocol.

In patients treated with Skyclarys, the incidence of on-treatment elevations of ALT or AST  $\geq$  3 × the ULN was 29.4%, with 15.7% experiencing elevations  $\geq$  5 × the ULN. Elevations of  $\geq$  3 × the ULN were generally transient and reversible, with 80% of these patients experiencing maximal levels within the first 12 weeks of treatment. None of these patients had ALT or AST levels  $\geq$  3 × the ULN at the withdrawal visit. Mean values generally decreased towards baseline with continued treatment or after interruption in therapy. No patient had concomitant elevation of total bilirubin > 1.5 × the ULN.

### Elevation of BNP

In the randomized, double-blind, placebo-controlled study, increases in laboratory evaluations of BNP were observed in patients treated with Skyclarys. Mean BNP values were elevated at Week 4, and remained elevated through Week 48, with peak mean elevations at Week 24. Mean BNP values remained below the ULN (< 100 pg/mL). A total of 13.7% of patients treated with Skyclarys had an increase from baseline in BNP and a BNP above the ULN (100 pg/mL), compared to 3.8% of patients who received placebo; 3.9% of patients had BNP values that exceeded 200 pg/mL while on treatment. There were no discontinuations due to BNP elevation.

# Lipid abnormalities

Among patients treated with Skyclarys in the randomized, double-blind, placebo-controlled study, hypertriglyceridaemia was reported in 3.9% of patients, very low-density lipoprotein increased was reported in 3.9% of patients, and hypercholesterolaemia was reported in 2.0% of patients. At Week 48 in the Skyclarys treatment group, mean LDL increased by approximately 25 mg/dL and mean HDL decreased by approximately 5 mg/dL. After withdrawal of Skyclarys, mean LDL and HDL levels returned to baseline.

<sup>&</sup>lt;sup>b</sup>Based on laboratory evaluations with values > 200 pg/mL.

<sup>&</sup>lt;sup>c</sup>Based on weight measured in the clinic with on-treatment weight loss  $\geq 5\%$ .

ALT=alanine aminotransferase; AST=aspartate aminotransferase; BNP=B-type natriuretic peptide; GGT=gamma glutamyltransferase.

### Weight decreased

In the randomized, double-blind, placebo-controlled study, weight decrease was reported for 2.0% of patients treated with Skyclarys and 1.9% of patients treated with placebo. No serious adverse reactions or discontinuations due to decreased appetite or weight decrease were reported in either treatment group.

Decrease in body weight was observed after Week 24. The mean weight decrease relative to baseline was 1.35~kg~(SD~3.585~kg) in the Skyclarys group and the mean weight increase relative to baseline was 1.17~kg~(SD~4.108~kg) in the placebo group after 48 weeks of treatment. Among all patients with baseline BMI  $< 25~kg/m^2$  across both treatment groups (Skyclarys, n=37; placebo, n=37), weight loss of at least 5% from baseline was observed in 32.4% of Skyclarys-treated patients versus 2.7% of placebo-treated patients.

### Paediatric population

Based on evaluation of Skyclarys in randomized, placebo-controlled trials, the safety profile of Skyclarys in paediatric patients aged 16 to less than 18 years (n=24) was consistent with the safety profile in adult patients.

# 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 national reporting system listed in Appendix V.

### 4.9 Overdose

There is no specific antidote for Skyclarys. For patients who experience overdose, closely monitor and provide appropriate supportive treatment.

### 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other nervous system drugs, ATC code: N07XX25

# Mechanism of action

The precise mechanism by which omaveloxolone exerts its therapeutic effect in patients with Friedreich's ataxia is unknown. Omaveloxolone has been shown to activate the Nuclear factor (erythroid-derived 2)-like 2 (Nrf2) pathway *in vitro* and *in vivo* in animals and humans. The Nrf2 pathway is involved in the cellular response to oxidative stress. There is substantial evidence that Nrf2 levels and activity are suppressed in cells from patients with Friedreich's ataxia.

### Pharmacodynamic effects

Omaveloxolone binds to Kelch-like ECH-associated protein 1 (Keap1), a protein that regulates the activity of Nrf2. Binding to Keap1 allows nuclear translocation of Nrf2 and transcription of its target genes. In fibroblasts isolated from patients with Friedreich's ataxia, omaveloxolone was shown to restore Nrf2 protein levels and increase Nrf2 activity. Omaveloxolone was also shown to rescue mitochondrial dysfunction and restore redox balance in these cells, as well as in neurons from mouse models of Friedreich's ataxia. Evidence of pharmacodynamic activity was observed in omaveloxolone-treated patients, with dose-dependent changes in the products of Nrf2 target genes, serum ferritin and GGT, across the dose range of 20 mg to 300 mg. Patients who received omaveloxolone 160 mg generally showed the largest increase from baseline for these serum markers.

### Effect of omaveloxolone on the QT interval

In a randomized, double-blind, placebo- and active-controlled, 3-way crossover TQTc study in healthy subjects, omaveloxolone and its major metabolites (M17 and M22) alone or combined did not cause a clinically significant QTc prolongation as the upper bound of the 2-sided 90% CI estimate was below the regulatory threshold of concern of 10 msec. The mean omaveloxolone  $C_{max}$  of 319.4 ng/mL in the study was 4.5-fold the predicted mean steady-state  $C_{max}$  (71.5ng/mL) in FA patients and covers the worst-case clinical exposure scenario of a 4.5-fold increase in  $C_{max}$ , if omaveloxolone is administered with food.

# Clinical efficacy and safety

The efficacy and safety of Skyclarys were evaluated as a treatment for Friedreich's ataxia in two parts of a randomized, double-blind, placebo-controlled, study (Study 1 [NCT02255435; EudraCT 2015-002762-23]) and in an ongoing, open-label extension to Study 1.

### Study 1 Part 2

Study 1 Part 2 was a randomized, double-blind, placebo-controlled, multicentre study to evaluate the safety and efficacy of Skyclarys in patients with Friedreich's ataxia for 48 weeks of treatment. A total of 103 patients including 24 adolescents were randomized (1:1) to Skyclarys 150 mg/day (N=51) or placebo (N=52). Patients were excluded from Study 1 if they had BNP levels > 200 pg/mL prior to study entry, or a history of clinically significant left-sided heart disease and/or clinically significant cardiac disease, with the exception of mild to moderate cardiomyopathy associated with Friedreich's ataxia. Additionally, patients were excluded from Study 1 if they had a history of clinically significant liver disease (eg, fibrosis, cirrhosis, hepatitis) or clinically relevant deviations in laboratory tests at screening including ALT and/or AST > 1.5-fold ULN, bilirubin > 1.2-fold ULN, alkaline phosphatase > 2-fold ULN, or albumin < lower limit of normal (LLN). Randomization was stratified by pes cavus status. Pes cavus population was defined as having a loss of lateral support and was determined if light from a flashlight could be seen under the patient's arch when barefoot and weight bearing. The primary efficacy endpoint was change in the modified Friedreich's Ataxia Rating Scale (mFARS) score compared to placebo at Week 48 for patients without pes cavus (ie, the full analysis set [FAS]; n=82). The mFARS is a clinical assessment tool to assess patient function, which consists of 4 domains to evaluate bulbar function, upper limb coordination, lower limb coordination, and upright stability. The mFARS has a maximum score of 99, with a lower score on the mFARS signifying lesser physical impairment. In the FAS, 53.7% were male. The mean age was 23.9 years at study entry, and the mean age of Friedreich's ataxia onset was 15.5 years. Baseline mFARS and Friedreich's ataxia-Activities of Daily Living (FA-ADL) scores were 39.83 and 10.29 points, respectively. Mean GAA1 repeat length was 714.8. At study entry, 92.7% of patients were ambulatory, 37.8% had a history of cardiomyopathy, and 2.4% had a history of diabetes mellitus.

Treatment with Skyclarys significantly improved mFARS scores, with a least squares mean difference of -2.41 (standard error 0.955) relative to placebo (p=0.0138) (Table 3). All components of the mFARS assessment, including ability to swallow (bulbar), upper limb coordination, lower limb coordination, and upright stability, favoured Skyclarys over placebo.

Table 3 Study 1 Part 2: mFARS Results (FAS)

	Skyclarys (N=40)	Placebo (N=42)
Total mFARS		
Baseline		
n	40	42
Mean (SD)	40.95(10.394)	38.78 (11.025)
Week 48	, ,	
n	34	41
Mean (SD)	39.17 (10.019)	39.54 (11.568)

	Skyclarys (N=40)	Placebo (N=42)
Week 48 Change from baseline		
LS Mean (SE)	-1.56 (0.689)	0.85 (0.640)
LS Mean Difference (SE)	-2.41 (0.955)	-
p-value vs. placebo	0.0138	

Abbreviations: FAS=Full Analysis Set; LS=least squares; mFARS=modified Friedreich's ataxia rating scale. Note: mFARS scores can range from 0 to 99 points. Within each section of the mFARS, the minimum score is 0. The maximum score for each section is as follows: 11 points for Bulbar Function, 36 points for Upper Limb Coordination, 16 points for Lower Limb Coordination, and 36 points for Upright Stability.

In the All Randomized Population (N=103), which included all patients regardless of pes cavus status, Skyclarys improved mFARS scores relative to placebo, with a least squares mean difference of -1.94 (standard error 0.894) (nominal p=0.0331).

In exploratory subgroup analyses, point estimates for changes in mFARS consistently favoured Skyclarys relative to placebo across subgroups based on baseline age, ambulatory status, and GAA1 repeat length (Table 4).

Table 4 Study 1 Part 2: Change in mFARS at Week 48 in subgroups (FAS)

Subgroup	Least Squares Mean Difference <sup>a</sup> (95% CI)	P-Value
Age	(* /	
< 18 years (n=20)	-4.21 (-8.48, 0.06)	0.0532
≥ 18 years (n=62)	-1.59 (-3.77. 0.58)	0.1486
GAA1 repeat length ≥ 675		
Yes (n=39)	-4.27 (-6.96, -1.58)	0.0024
No (n=28)	-1.95 (-5.20, 1.29)	0.2325
Ambulatory status		
Non-ambulatory (n=6)	-4.57 (-11.41, 2.27)	0.1864
Ambulatory (n=76)	-2.20 (-4.22, -0.18)	0.0336

Abbreviations: CI=confidence interval; FAS=Full Analysis Set; GAA1 repeat length=length of the trinucleotide repeats in the GAA1 allele composed of 1 guanine and 2 adenines; mFARS=modified Friedreich's ataxia rating scale.

<sup>a</sup> Least squares mean difference is Skyclarys - placebo.

Although Study 1 was not powered to detect a difference in the key secondary endpoints, Patient Global Impression of Change (PGIC) and Clinical Global Impression of Change (CGIC), PGIC and CGIC scores at Week 48 were numerically improved in patients treated with Skyclarys relative to placebo in the primary analysis population (least squares [LS] mean difference in PGIC= -0.43, LS mean difference in CGIC= -0.13). Additionally, treatment of patients with Skyclarys resulted in numerically improved FA-ADL scores relative to placebo, with an LS mean difference of -1.30 points (standard error=0.629).

In a post hoc,propensity-matched analysis of long term open-label treatment with Skyclarys, patients treated with Skyclarys had lower mFARS scores at 3 years, as compared to a matched natural history group. This exploratory analysis should be interpreted cautiously given the limitations of data collected outside of a controlled study, which may be subject to confounding.

# Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Skyclarys in the paediatric population aged 2 years to less than 16 years in treatment of Friedreich's ataxia (see section 4.2 for information on paediatric use).

### 5.2 Pharmacokinetic properties

### Absorption

Omaveloxolone was absorbed after oral administration in healthy fasted subjects with peak plasma concentrations typically observed 7 to 14 hours post dose. Patients with Friedreich's ataxia demonstrated a 2.3-fold faster absorption of omaveloxolone than fasted healthy subjects.

Co-administration of a high-fat meal resulted in a small increase (1.15-fold) in area under the plasma concentration vs time curve from time 0 extrapolated to infinity (AUC $_{0\text{-inf}}$ ) but caused a 4.5-fold increase in  $C_{\text{max}}$  compared to fasted conditions. It is recommended that Skyclarys be taken without food.

Omaveloxolone  $C_{max}$  and  $AUC_{0-inf}$  were similar when capsule contents were sprinkled on apple puree or when administered as intact capsules. The median time to achieve  $C_{max}$  ( $t_{max}$ ) of omaveloxolone was shortened from approximately 10 hours to 6 hours when sprinkled on apple puree (see section 4.2).

The absolute or relative bioavailability of omaveloxolone has not been determined.

# Linearity/non-linearity

The total plasma omaveloxolone exposure (AUC) increased in a dose-dependent and dose proportional manner, but  $C_{max}$  increased in a less than dose proportional manner in healthy fasted subjects.

# Distribution

Omaveloxolone is 97% bound to protein in human plasma. Omaveloxolone shows low to moderate membrane permeability. The average apparent volume of distribution is 7361 L (105 L/kg).

# **Biotransformation**

Following a single oral dose of [14C]-omaveloxolone administered to healthy male subjects, omaveloxolone was found to be eliminated by metabolism via CYP3A4 to a series of 30 metabolites, of which 7 metabolites were quantified and identified. Metabolites M22 and M17 were major plasma metabolites that accounted for 18.6% and 10.9% of total plasma radioactivity, respectively. The other metabolites were minor, each accounting for less than 10% of total plasma radioactivity exposure. None of the metabolites has meaningful pharmacological activity.

### Elimination

Following a single oral dose of radio-labeled omaveloxolone administered to healthy male subjects, approximately 92.5% of the dosed radioactivity was recovered within a 528-hour collection period: 92.4% via the faeces and 0.1% via the urine. The majority (90.7%) of the administered dose was recovered in the faeces within 96 hours after administration.

The average apparent plasma clearance of omaveloxolone is 109 L/hr and the average apparent plasma terminal half-life is 58 hours (32-94 hours).

### Pharmacokinetic/pharmacodynamic relationship(s)

Effect of age, sex, and body weight on omaveloxolone pharmacokinetics Population pharmacokinetic analyses indicate that there is no clinically meaningful effect of age (16-71 years), sex, or body weight on the pharmacokinetics of omaveloxolone and no dose adjustments based on these factors are necessary.

### Patients with renal impairment

Population pharmacokinetic analysis confirmed that estimated glomerular filtration rate values  $\geq$  63 mL/min/1.73 m<sup>2</sup> did not have a significant effect on the pharmacokinetics of omaveloxolone. The effect of moderate or severe renal impairment on the pharmacokinetics of omaveloxolone is unknown.

# Patients with hepatic impairment

In subjects with moderate and severe hepatic impairment (Child-Pugh Class B and C), omaveloxolone clearance was reduced, resulting in higher plasma exposure of omaveloxolone. Subjects with moderate hepatic impairment exhibited up to a 65% increase in AUC and an 83% increase in  $C_{max}$  compared to subjects with normal hepatic function. In subjects with severe hepatic impairment, the AUC for omaveloxolone was increased by 117% as compared to subjects with normal hepatic function. However, the data in subjects with severe hepatic impairment are limited. In subjects with mild hepatic impairment (Child-Pugh Class A), there was no change in AUC and only a 29% increase in  $C_{max}$ . The recommended dosage for patients with hepatic impairment is described in section 4.2.

# 5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity, and carcinogenic potential.

Based on a panel of *in vitro* and *in vivo* mutagenicity tests, omaveloxolone is considered of low genotoxic potential. Omaveloxolone was not carcinogenic in a 6-month carcinogenicity study in rasH2 mice up to doses corresponding to approximately 14.6 and 54.5 times in males and females, respectively, the maximum human recommended dose (MHRD) and systemic exposure (AUC) in patients with Friedreich's ataxia.

Preclinical data revealed toxicities related to omaveloxolone. In rats, findings of irreversible kidney injury (multifocal renal tubular degeneration/regeneration accompanied by proteinuria) were observed at clinically relevant dose levels in rats after 28 days of daily oral exposure up to 6 months. Furthermore, reversible observations of hyperplasia of the GI tract (forestomach, oesophagus, larynx) was observed in rats and monkeys already after 28 days of dosing, up to 6 or 9 months in rats and monkeys, respectively. In one male rat from the high dose group at 6 months dosing, the squamous epithelial hyperplasia was associated with a squamous cell carcinoma involving the non-glandular and glandular stomach.

# Fertility and early embryonic development

Omaveloxolone, administered at oral doses of 1, 3, and 10 mg/kg/day to male rats for 28 days before mating and throughout the mating period and to female rats from 14 days before mating, throughout mating, and until gestation day 7 did not alter male or female fertility. However, pre- and post-implantation embryonic loss, resorptions, and a decrease in the number of viable embryos occurred at the dose corresponding to approximately 6 times the maximum human recommended dose (MHRD) based on systemic exposure. No effects on pre- and post-implantation loss occurred at approximately 2 times the MHRD based on systemic exposure.

### Embryo-foetal development

In an embryo-foetal toxicity study in rats, no maternal toxicity or embryo-foetal abnormalities were detected in rats at an oral dose corresponding to approximately 6 times the MHRD based on systemic exposure. However, at doses achieving exposure levels 19 times the MHRD, post-implantation loss, resorptions as well as decreases in number of viable fetuses, litter size, and foetal body weight were observed in rats. Embryo-foetal assessment in rabbits demonstrated maternal toxicity that was associated with early deliveries and interruptions of pregnancy as well as low foetal body weights at a dose level corresponding to exposures lower (0.7-fold) than those at the MHRD; however, in the same

study, no foetal malformations were observed at approximately 1.4 times the MHRD based on systemic exposure.

### Pre- and post-natal development

In a pre- and post-natal evaluation in rats, administration of omaveloxolone during the period of organogenesis through lactation at doses of 1, 3, and 10 mg/kg/day was associated with an increased percentage of litters with stillborn pups, reduced first generation pup survival, and decreased mean pup body weights. Decreased reproductive function (reduced mean numbers of corpora lutea and implantation sites) were observed in F1 females and delayed sexual maturation was observed in F1 males at a dose level of approximately 6 times the MHRD based on systemic exposure. No adverse reactions were observed at a dose of approximately 2 times the MHRD based on systemic exposure. Dose-dependent increases in omaveloxolone plasma concentrations were observed in pups, due to excretion of omaveloxolone in milk. Effects were directly linked to exposure to omaveloxolone.

### 6. PHARMACEUTICAL PARTICULARS

# 6.1 List of excipients

### Capsule contents

Pregelatinized maize starch Microcrystalline cellulose Croscarmellose sodium Magnesium stearate Silica, colloidal anhydrous

### Capsule shell

Hypromellose Titanium dioxide (E171) Brilliant Blue FCF (E133) Ferric oxide yellow (E172)

Printing ink
Shellac (E904)
Titanium dioxide (E171)

# 6.2 Incompatibilities

Not applicable.

### 6.3 Shelf life

4 years

### 6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

### 6.5 Nature and contents of container

High density polyethylene bottles with child-resistant, foil induction-sealed polypropylene closure.

Pack size of 90 capsules. Pack size of 270 (3 packs of 90) capsules. Not all pack sizes may be marketed.

# 6.6 Special precautions for disposal

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

### 7. MARKETING AUTHORISATION HOLDER

Biogen Netherlands B.V. Prins Mauritslaan 13 1171 LP Badhoevedorp The Netherlands

# 8. MARKETING AUTHORISATION NUMBER(S)

EU/1/23/1786/001 EU/1/23/1786/002

# 9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 9 February 2024

# 10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency <a href="https://www.ema.europa.eu">https://www.ema.europa.eu</a>.

# ANNEX II

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

### A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers responsible for batch release

BIOGEN DISTRIBUTION SERVICES LIMITED United Drug House Magna Drive Magna Business Park Citywest Road Dublin 24 D24 XKE5 Ireland

Biogen Netherlands B.V. Prins Mauritslaan 13 1171 LP Badhoevedorp The Netherlands

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

### B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

# C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder (MAH) shall submit the first PSUR for this product within 6 months following authorisation.

# D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

# • Risk management plan (RMP)

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

# ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
OUTER CARTON SINGLE PRESENTATION
1. NAME OF THE MEDICINAL PRODUCT
Skyclarys 50 mg hard capsules omaveloxolone
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains 50 mg omaveloxolone.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
90 hard capsules
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Oral use Read the package leaflet before use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Biogen Netherlands B.V.
Prins Mauritslaan 13
1171 LP Badhoevedorp
The Netherlands
The Politicians
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/23/1786/001
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
14. GENERAL CLASSIFICATION FOR SUITE!
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Skyclarys 50 mg
Skyclary 5 5 0 mg
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER - HUMAN READABLE DATA
DC.
PC SN
NN
ININ

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
OUTER CARTON 3-BOTTLE PACK
1. NAME OF THE MEDICINAL PRODUCT
Skyclarys 50 mg hard capsules omaveloxolone
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains 50 mg omaveloxolone.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
270 (3 packs of 90) hard capsules
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Oral use Read the package leaflet before use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

Biogen Netherlands B.V. Prins Mauritslaan 13 1171 LP Badhoevedorp The Netherlands		
12. MARKETING AUTHORISATION NUMBER(S)		
EU/1/23/1786/002		
13. BATCH NUMBER		
Lot		
14. GENERAL CLASSIFICATION FOR SUPPLY		
15. INSTRUCTIONS ON USE		
16. INFORMATION IN BRAILLE		
Skyclarys 50 mg		
17. UNIQUE IDENTIFIER – 2D BARCODE		
2D barcode carrying the unique identifier included.		
18. UNIQUE IDENTIFIER - HUMAN READABLE DATA		
PC SN NN		

NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

11.

PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING
BOTTLE FOR ALL PRESENTATIONS
1. NAME OF THE MEDICINAL PRODUCT
Skyclarys 50 mg hard capsules omaveloxolone
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains 50 mg omaveloxolone.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
90 hard capsules.
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Oral use Read the package leaflet before use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
	en Netherlands B.V.
	Mauritslaan 13 LP Badhoevedorp
	Netherlands
12.	MARKETING AUTHORISATION NUMBER(S)
EU/1	/23/1786/001
EU/1	/23/1786/002
13.	BATCH NUMBER
<b>.</b>	
Lot	
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
16.	INFORMATION IN BRAILLE
100	ALL OLUMENTAL DIVINIBED
	WHOLE INDIVIDUE AND DANCONE
17.	UNIQUE IDENTIFIER – 2D BARCODE
18.	UNIQUE IDENTIFIER - HUMAN READABLE DATA
	-

B. PACKAGE LEAFLET

### Package leaflet: Information for the patient

### Skyclarys 50 mg hard capsules

omaveloxolone

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

# Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor. This includes any possible side effects not listed in this leaflet. See section 4.

### What is in this leaflet

- 1. What Skyclarys is and what it is used for
- 2. What you need to know before you take Skyclarys
- 3. How to take Skyclarys
- 4. Possible side effects
- 5. How to store Skyclarys
- 6. Contents of the pack and other information

# 1. What Skyclarys is and what it is used for

# What is Skyclarys?

Skyclarys contains the active substance omaveloxolone, which activates a specific protein, Nrf2, in your body.

### What is Skyclarys used for?

Skyclarys is used to treat adults and adolescents who are at least 16 years of age who have Friedreich's ataxia, a neurodegenerative movement disorder. Friedreich's ataxia is a rare inherited disease that causes progressive damage to your nervous system and movement problems.

### How does Skyclarys work?

The protein called Nrf2 in your body has a key role in managing oxidative stress (a condition that can damage cells in your body) and has a protective role against neurodegenerative diseases. In patients with Friedreich's ataxia, Nrf2 activity is reduced. Skyclarys activates Nrf2 so it can manage oxidative stress.

In a clinical trial patients treated with Skyclarys scored better on tests of neurological function than patients who were treated with an inactive substance.

# 2. What you need to know before you take Skyclarys

**Do not take Skyclarys** if you are allergic to omaveloxolone or any of the other ingredients of this medicine (listed in section 6).

# Warnings and precautions

### Talk to your doctor before taking Skyclarys:

- If you have problems with your liver, your doctor may decide to change the dose or not start treatment with Skyclarys.
- Tell your doctor about all the medicines you are taking before you start Skyclarys.

Your doctor will check to see how well your liver is working and will check your cholesterol level before you start taking Skyclarys. Your doctor will also check your level of BNP (B-type natriuretic peptide, a blood test for heart problems) before you start taking Skyclarys.

# Talk to your doctor while taking Skyclarys

Contact your doctor immediately if you have sudden weight gain, swelling of legs, ankles, or feet, or shortness of breath, which may be signs or symptoms of heart problems while taking Skyclarys. Your doctor will decide on treatment and whether Skyclarys should be continued.

Talk to your doctor if you get any hypersensitivity reactions (an allergic or allergic-like reaction that may include itchy rash and skin rash).

Your doctor will be checking blood tests while you are taking Skyclarys. This will include liver blood tests to see how your liver is working while taking Skyclarys. Your doctor will decide on whether to discontinue Skyclarys if liver problems develop. Other blood tests that your doctor will do will check cholesterol and BNP after you start Skyclarys.

Tell your doctor if you have weight loss with Skyclarys.

### Children and adolescents

Do not give Skyclarys to children and adolescents below the age of 16 years because it has not yet been studied in this group of patients.

# Other medicines and Skyclarys

Tell your doctor if you are taking, have recently taken, or might take any other medicines. This is because some medicines may affect the way Skyclarys works. Also, Skyclarys may affect the way some medicines work.

Certain medicines may increase the risk of side effects of Skyclarys by increasing the levels of Skyclarys in the blood. Some of these medicines include:

- itraconazole, fluconazole, or ketoconazole (antifungal medicines used to treat a number of fungal infections)
- cyclosporine (a medicine used after organ transplant)
- ciprofloxacin or clarithromycin (antibiotics used for bacterial infections)
- fluvoxamine (an antidepressant known as a selective serotinin reuptake inibitor [SSRI])

If your doctor prescribes one of these medicines, your dose of Skyclarys may be reduced to prevent side effects when taking both drugs at the same time.

Certain medicines may reduce how well Skyclarys works by decreasing the amount of Skyclarys in the blood. Some of these medicines include:

- St. John's wort (a herbal remedy used for mild depression)
- rifampicin (used to treat tuberculosis)
- carbamazepine, phenobarbital, phenytoin, primidone (used to treat epilepsy)
- efavirenz (medicine used for HIV)

Skyclarys may reduce how well some other medicines work by decreasing the amount of these medicines in the blood. Some of these medicines include:

- midazolam (used as a sedative and to treat severe agitation)
- repaglinide (a medicine to control type II diabetes)
- rosuvastatin (a statin medicine used to reduce harmful lipids)

- hormonal contraceptives (a type of birth control that uses homones to prevent pregnancy, such as the pill, patch, or ring)

**Talk to your doctor** if you are taking any medicines, particularly those mentioned above, as they may affect the way Skyclarys or other medicines work.

# Skyclarys with food and drink

Avoid eating grapefruit or grapefruit juice while taking Skyclarys.

### Pregnancy

You should not take Skyclarys if you are pregnant, think you may be pregnant, or are planning to have a baby. Tell your doctor immediately if you become pregnant while you are being treated with Skyclarys.

### **Birth Control**

Using Skyclarys can reduce the effectiveness of hormonal birth control. You should use a different method of birth control, such as a non-hormonal IUD (intrauterine device) or barrier contraceptives such as condoms. A reliable method of birth control should be used during Skyclarys treatment and for 28 days after stopping treatment with Skyclarys. Talk to your doctor about the most suitable birth control for you.

### **Breast-feeding**

Do not breast-feed your baby while you are being treated with Skyclarys. It is not known if this medicine passes into the breast milk.

# **Driving and using machines**

Some patients may feel tired after taking this medicine. If you feel tired after taking Skyclarys, avoid driving and using machines.

# Skyclarys contains a negligible amount of sodium

This medicine contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium free'.

### 3. How to take Skyclarys

Always take this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.

The recommended dose is 150 mg (3 capsules) once per day.

# **Taking Skyclarys**

- Take the capsules on an empty stomach at least one hour before or two hours after eating.
- Take the capsules at about the same time during the day.
- Swallow the capsules whole with a glass of water.
- If you are unable to swallow the capsules whole, open them and sprinkle the entire contents onto 2 tablespoonfuls of apple puree. You must eat all the apple puree/medicine mixture immediately after making it. Do not store the apple puree/medicine mixture for future use.

If you have problems with your liver, your doctor may decide to change the dose or not start treatment with Skyclarys.

Some medicines may cause side effects when taken at the same time as Skyclarys. If your doctor prescribes one of these medicines while you are taking Skyclarys, your doctor may reduce the dose of Skyclarys to prevent side effects when taking both drugs at the same time.

If you are sick after taking your usual dose, **do not** take replacement capsules. Take the capsules as usual the following day.

### If you take more Skyclarys than you should

If you take more Skyclarys than your doctor prescribed, talk to a doctor immediately. Take this leaflet with you.

# If you forget to take Skyclarys

If you miss a dose of Skyclarys, take the next dose as usual the following day. **Do not** take a double dose to make up for a forgotten dose.

# If you stop taking Skyclarys

Do not stop taking this medicine unless your doctor tells you.

If you have any further questions on the use of this medicine, ask your doctor.

### 4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

### Some side effects with Skyclarys could be or could become serious

**Talk to your doctor** immediately if you have any of these side effects:

Very common (may affect more than 1 in 10 people)

- digestive problems. You may have symptoms such as
  - nausea (feeling sick)
  - diarrhoea
  - vomiting
  - stomach pain
  - decrease in weight

If you have any of these side effects, talk to your doctor.

Based on your blood tests, your doctor may tell you that you have:

- high liver enzymes in your blood (very common, may affect more than 1 in 10 people)
- increased BNP (a marker for heart problems); (common, may affect up to 1 in 10 people)
- changes in your blood cholesterol and triglycerides (common, may affect up to 1 in 10 people)

Your doctor will decide on treatment and whether Skyclarys should be continued.

# Other possible side effects of Skyclarys

Very common (may affect more than 1 in 10 people)

- headache
- tiredness
- sore throat
- back pain
- muscle spasm
- flu
- decreased appetite
- hypersensitivity (an allergic or allergic-like reaction that may include itchy rash and skin rash)

Common (may affect up to 1 in 10 people)

- urinary tract infection (infection of the structures that carry urine, UTI)
- period pains in women (menstrual cramps)

### Reporting of side effects

If you get any side effects, talk to your doctor. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects, you can help provide more information on the safety of this medicine.

# 5. How to store Skyclarys

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

If the capsule is opened and mixed with apple puree you must eat all the apple puree/medicine mixture immediately after making it. See section 3, Taking Skyclarys.

Do not use this medicine if you notice that the pack is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

# 6. Contents of the pack and other information

### What Skyclarys contains

- The active substance is omaveloxolone.
- Each capsule contains 50 mg omaveloxolone.
- The other ingredients are:

Capsule fill: pregelatinized maize starch, microcrystalline cellulose, croscarmellose sodium, magnesium stearate, silica, colloidal anhydrous

*Capsule shell*: hypromellose, titanium dioxide (E171), Brilliant Blue FCF (E133), ferric oxide yellow (E172)

Printing ink: shellac (E904), titanium dioxide (E171)

# What Skyclarys looks like and contents of the pack

Skyclarys 50 mg hard capsules are made of an opaque light green body imprinted with "RTA 408" in white ink and a blue cap imprinted with "50" in white ink.

Skyclarys 50 mg is available in a pack containing 90 hard capsules and in a pack of 3 bottles, each containing 90 hard capsules.

Not all pack sizes may be marketed.

# **Marketing Authorisation Holder**

Biogen Netherlands B.V. Prins Mauritslaan 13 1171 LP Badhoevedorp The Netherlands

# Manufacturer(s)

BIOGEN DISTRIBUTION SERVICES LIMITED United Drug House Magna Drive Magna Business Park Citywest Road Dublin 24 D24 XKE5 Ireland

Biogen Netherlands B.V. Prins Mauritslaan 13 1171 LP Badhoevedorp The Netherlands

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

# België/Belgique/Belgien

Biogen Belgium N.V./S.A. Tél/Tel: +32 2 219 12 18

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### **Sverige**

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### This leaflet was last revised in

### Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: <a href="https://www.ema.europa.eu">https://www.ema.europa.eu</a>. There are also links to other websites about rare diseases and treatments.