

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

Deltyba 50 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 50 mg delamanid.

Excipient with known effect

Each film-coated tablet contains 100 mg lactose (as monohydrate).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet (tablet)

Round, yellow, film-coated tablet, 11.7 mm in diameter, debossed with 'DLM' and '50' on one side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Deltyba is indicated for use as part of an appropriate combination regimen for pulmonary multi-drug resistant tuberculosis (MDR-TB) in adults, adolescents, children and infants with a body weight of at least 10 kg when an effective treatment regimen cannot otherwise be composed for reasons of resistance or tolerability (see sections 4.2, 4.4 and 5.1).

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

4.2 Posology and method of administration

Treatment with delamanid should be initiated and monitored by a physician experienced in the management of multidrug-resistant *Mycobacterium tuberculosis*.

Delamanid must always be administered as part of an appropriate combination regimen for the treatment of multidrug-resistant tuberculosis (MDR-TB) (see sections 4.4 and 5.1). Treatment with an appropriate combination regimen should continue after completion of the 24-week delamanid treatment period according to WHO guidelines.

It is recommended that delamanid is administered by directly observed therapy (DOT).

Posology

Adults

The recommended dose for adults is 100 mg twice daily for 24 weeks.

Adolescents and children

Paediatric patients with a body weight of

- ≥ 30 to < 50 kg: the recommended dose is 50 mg twice daily for 24 weeks
 - ≥ 50 kg: the recommended dose is 100 mg twice daily for 24 weeks
- For patients with a body weight below 30 kg please see the SmPC for Delyba 25 mg dispersible tablets.

Elderly patients (> 65 years of age)

No data are available in the elderly.

Renal impairment

No dose adjustment is considered necessary in patients with mild or moderate renal impairment. There are no data on the use of delamanid in patients with severe renal impairment and its use is not recommended (see sections 4.4 and 5.2).

Hepatic impairment

No dose adjustment is considered necessary in patients with mild hepatic impairment. Delamanid is not recommended in patients with moderate to severe hepatic impairment (see sections 4.4 and 5.2).

Paediatric population

The safety and efficacy of Delyba in children with a body weight below 10 kg have not yet been established. Currently available data are described in sections 4.8, 5.1 and 5.2 but no recommendation on a posology can be made.

Method of administration

Oral use.

Delamanid should be taken with food.

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
- Serum albumin < 2.8 g/dL (see section 4.4 regarding use in patients with serum albumin ≥ 2.8 g/dL).
- Coadministration of medicinal products that are strong inducers of CYP3A4 (e.g. carbamazepine).

4.4 Special warnings and precautions for use

There are no data on treatment with delamanid for more than 24 consecutive weeks (see section 4.2).

There are no clinical data on the use of delamanid to treat

- extra pulmonary tuberculosis (e.g. central nervous system, bone)
- infections due to Mycobacterial species other than those of the *M. tuberculosis* complex
- latent infection with *M. tuberculosis*

There are no clinical data on the use of delamanid as part of combination regimens used to treat drug-susceptible *M. tuberculosis*.

Resistance to delamanid

Delamanid must only be used in an appropriate combination regimen for MDR-TB treatment as recommended by WHO to prevent development of resistance to delamanid.

QT prolongation

QT prolongation has been observed in patients treated with delamanid. This prolongation increases slowly over time in the first 6 to 10 weeks of treatment and remains stable thereafter. QTc prolongation is very closely correlated with the major delamanid metabolite DM-6705. Plasma albumin and

CYP3A4 regulate the formation and metabolism of DM-6705 respectively (see Special Considerations below).

General recommendations

It is recommended that electrocardiograms (ECG) should be obtained before initiation of treatment and monthly during the full course of treatment with delamanid. If a QTcF > 500 ms is observed either before the first dose of delamanid or during delamanid treatment, treatment with delamanid should either not be started or should be discontinued. If the QTc interval duration exceeds 450/470 ms for male/female patients during delamanid treatment, these patients should be administered more frequent ECG monitoring. It is also recommended that serum electrolytes, e.g. potassium, are obtained at baseline and corrected if abnormal.

Special considerations

Cardiac risk factors

Treatment with delamanid should not be initiated in patients with the following risk factors unless the possible benefit of delamanid is considered to outweigh the potential risks. Such patients should receive very frequent monitoring of ECG throughout the full delamanid treatment period.

- Known congenital prolongation of the QTc-interval or any clinical condition known to prolong the QTc interval or QTc > 500 ms.
- History of symptomatic cardiac arrhythmias or with clinically relevant bradycardia.
- Any predisposing cardiac conditions for arrhythmia such as severe hypertension, left ventricular hypertrophy (including hypertrophic cardiomyopathy) or congestive cardiac failure accompanied by reduced left ventricle ejection fraction.
- Electrolyte disturbances, particularly hypokalaemia, hypocalcaemia or hypomagnesaemia.
- Taking medicinal products that are known to prolong the QTc interval. These include (but are not limited to):
 - Antiarrhythmics (e.g. amiodarone, disopyramide, dofetilide, ibutilide, procainamide, quinidine, hydroquinidine, sotalol).
 - Neuroleptics (e.g. phenothiazines, sertindole, sultopride, chlorpromazine, haloperidol, mesoridazine, pimozide, or thioridazine), antidepressive agents.
 - Certain antimicrobial agents, including:
 - macrolides (e.g. erythromycin, clarithromycin)
 - moxifloxacin, sparfloxacin (see section 4.4 regarding use with other fluoroquinolones)
 - bedaquiline
 - triazole antifungal agents
 - pentamidine
 - saquinavir
 - Certain non-sedating antihistamines (e.g. terfenadine, astemizole, mizolastine).
 - Certain antimalarials with QT-prolonging potential (e.g. halofantrine, quinine, chloroquine, artesunate/amodiaquine, dihydroartemisinin/piperaquine).
- Cisapride, droperidol, domperidone, bepridil, diphemanil, probucol, levomethadyl, methadone, vinca alkaloids, arsenic trioxide.

Hypoalbuminaemia

In a clinical study, the presence of hypoalbuminaemia was associated with an increased risk of prolongation of the QTc interval in delamanid treated patients. Delamanid is contraindicated in patients with albumin < 2.8 g/dL (see section 4.3). Patients who commence delamanid with serum albumin < 3.4 g/dL or experience a fall in serum albumin into this range during treatment should receive very frequent monitoring of ECGs throughout the full delamanid treatment period.

Co-administration with strong inhibitors of CYP3A4

Co-administration of delamanid with a strong inhibitor of CYP3A4 (lopinavir/ritonavir) was associated with a 30% higher exposure to the metabolite DM-6705, which has been associated with QTc prolongation. Therefore, if co-administration of delamanid with any strong inhibitor of CYP3A4

is considered necessary it is recommended that there is very frequent monitoring of ECGs, throughout the full delamanid treatment period.

Co-administration of delamanid with quinolones

All QTcF prolongations above 60 ms were associated with concomitant fluoroquinolone use. Therefore, if co-administration is considered to be unavoidable in order to construct an adequate treatment regimen for MDR-TB it is recommended that there is very frequent monitoring of ECGs throughout the full delamanid treatment period.

Hepatic impairment

Deltyba is not recommended in patients with moderate to severe hepatic impairment (see sections 4.2 and 5.2).

Renal impairment

There are no data on the use of delamanid in patients with severe renal impairment and its use is not recommended (see sections 4.2 and 5.2).

Excipients

Deltyba film-coated tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of other medicinal products on delamanid

Cytochrome P450 3A4 inducers

Clinical drug-drug interactions studies in healthy subjects indicated a reduced exposure to delamanid, of up to 45% following 15 days of concomitant administration of the strong inducer of cytochrome P450 (CYP) 3A4 (rifampicin 300 mg daily) with delamanid (200 mg daily). No clinically relevant reduction in delamanid exposure was observed with the weak inducer efavirenz when administered at a dose of 600 mg daily for 10 days in combination with delamanid 100 mg twice daily.

Anti-HIV medicinal products

In clinical drug-drug interaction studies in healthy subjects, delamanid was administered alone (100 mg twice daily) and with tenofovir disoproxil (245 mg daily) or lopinavir/ritonavir (400/100 mg daily) for 14 days and with efavirenz for 10 days (600 mg daily). Delamanid exposure remained unchanged (< 25% difference) with anti-HIV medicinal products tenofovir disoproxil and efavirenz but was slightly increased with the combination anti-HIV medicinal products containing lopinavir/ritonavir.

Effects of delamanid on other medicinal products

In-vitro studies showed that delamanid did not inhibit CYP450 isozymes.

In-vitro studies showed that delamanid and metabolites did not have any effect on the transporters MDR1(p-gp), BCRP, OATP1, OATP3, OCT1, OCT2, OATP1B1, OATP1B3 and BSEP, at concentrations of approximately 5 to 20-fold greater than the C_{max} at steady state. However, since the concentrations in the gut can potentially be much greater than these multiples of the C_{max} , there is a potential for delamanid to have an effect on these transporters.

Anti-tuberculosis medicinal products

In a clinical drug-drug interaction study in healthy subjects, delamanid was administered alone (200 mg daily) and with rifampicin/isoniazid/pyrazinamide (300/720/1800 mg daily) or ethambutol (1100 mg daily) for 15 days. Exposure of concomitant anti-TB drugs (rifampicin [R]/ isoniazid [H]/

pyrazinamide [Z]) was not affected. Co-administration with delamanid significantly increased steady state plasma concentrations of ethambutol by approximately 25%, the clinical relevance is unknown.

Anti-HIV medicinal products

In a clinical drug-drug interaction study in healthy subjects, delamanid was administered alone (100 mg twice daily) and tenofovir disoproxil (245 mg daily), lopinavir/ritonavir (400/100 mg daily) for 14 days and with efavirenz for 10 days (600 mg daily). Delamanid given in combination with the anti-HIV-medicines, tenofovir disoproxil, lopinavir/ritonavir and efavirenz, did not affect the exposure to these medicinal products.

Medicinal products with the potential to prolong QTc

Care must be taken in using delamanid in patients already receiving medicinal products associated with QT prolongation (see section 4.4). Co-administration of moxifloxacin and delamanid in MDR-TB patients has not been studied. Moxifloxacin is not recommended for use in patients treated with delamanid.

4.6 Fertility, pregnancy and lactation

Pregnancy

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

Deltyba is not recommended during pregnancy and in women of childbearing potential not using contraception.

Breast-feeding

It is unknown whether delamanid/metabolites are excreted in human milk. Available pharmacokinetic/toxicological data in animals have shown excretion of delamanid and/or its metabolites in milk (for details see section 5.3). A risk to the newborns/infants cannot be excluded. It is recommended that women should not breastfeed during treatment with Deltyba.

Fertility

Deltyba had no effect on male or female fertility in animals (see section 5.3). There are no clinical data on the effects of delamanid on fertility in humans.

4.7 Effects on ability to drive and use machines

Deltyba is expected to have a moderate influence on the ability to drive and use machines. Patients should be advised not to drive or use machines if they experience any adverse reaction with a potential impact on the ability to perform these activities (e.g. headache is very common and tremor is common).

4.8 Undesirable effects

Summary of the safety profile

The most frequently observed adverse drug reactions in patients treated with delamanid + Optimised Background Regimen (OBR) (i.e. incidence > 10%) are nausea (32.9%), vomiting (29.9%), headache (28.4%), sleep disorders and disturbances (28.2%), dizziness (22.4%), gastritis (15.9%) and decreased appetite (13.1%).

Tabulated list of adverse reactions

The list of adverse drug reactions and frequencies are based on the results from 2 double-blind placebo controlled clinical trials. The adverse drug reactions are listed by MedDRA System Organ Class and

Preferred Term. Within each System Organ Class, adverse reactions are listed under frequency categories of very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), uncommon ($\geq 1/1\ 000$ to $< 1/100$), rare ($\geq 1/10\ 000$ to $< 1/1\ 000$), very rare ($< 1/10\ 000$) and not known (cannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table: Adverse drug reactions to delamanid

System Organ Class	Frequency very common	Frequency common	Frequency uncommon
Endocrine disorders	-	Hypothyroidism ^a	-
Metabolism and nutrition disorders	Decreased appetite	-	-
Psychiatric disorders	Sleep disorders and disturbances ^b	Psychotic disorder ^c Anxiety ^d Depression ^e Hallucination ^f	-
Nervous system disorders	Dizziness Headache ^g	Hypoaesthesia Tremor	Lethargy
Cardiac disorders	-	Atrioventricular block first degree Ventricular extrasystoles Palpitations	-
Respiratory, thoracic and mediastinal disorders	-	Throat irritation	-
Gastrointestinal disorders	Nausea Vomiting Gastritis ^h	Dyspepsia	-
Musculoskeletal and connective tissue disorders	-	Muscular weakness Muscle spasms	-
General disorders and administration site conditions	-	Chest pain	-
Investigations	-	Cortisol increased ⁱ Electrocardiogram QT prolonged	-

Event terms that represent the same medical concept or condition were grouped together and reported as a single adverse drug reaction in Table 'Adverse drug reactions to delamanid'. Preferred terms actually reported in the double-blind clinical trials and contributing to the relevant adverse drug reaction are indicated in parentheses, as listed below:

- a. Hypothyroidism (hypothyroidism, primary hypothyroidism)
- b. Sleep disorders and disturbances (initial insomnia, insomnia, sleep disorder)
- c. Psychotic disorder (acute psychosis, psychotic disorder, reactive psychosis, substance-induced psychotic disorder)
- d. Anxiety (anxiety, anxiety disorder, generalised anxiety disorder)
- e. Depression (adjustment disorder with depressed mood, depressed mood, depression, major depression, mixed anxiety and depressive disorder, persistent depressive disorder, schizoaffective disorder depressive type)
- f. Hallucination (hallucination; hallucination, auditory; hallucination, visual; hallucination tactile; hallucination mixed; hypnopompic hallucination; hypnagogic hallucination)
- g. Headache (head discomfort, headache, migraine, sinus headache, tension headache, vascular headache)
- h. Gastritis (chronic gastritis, gastritis, gastritis erosive)
- i. Cortisol increased (Cushing's syndrome, hyperadrenocorticism, cortisol increased)

Description of selected adverse reactions

ECG QT interval prolongation

In patients receiving 200 mg delamanid total daily dose in the phase 2 and 3 trials, the mean placebo corrected increase in QTcF from baseline ranged from 4.7 - 7.6 ms at 1 month and 5.3 ms - 12.1 ms at 2 months, respectively. The incidence of a QTcF interval > 500 ms ranged from 0.6% (1/161) - 2.1% (7/341) in patients receiving delamanid 200 mg total daily dose versus 0% (0/160) - 1.2% (2/170) of patients receiving placebo + OBR, while the incidence of QTcF change from baseline > 60 ms ranged from 3.1% (5/161) - 10.3% (35/341) in patients receiving delamanid 200 mg total daily dose versus 0% (0/160) - 7.1% (12/170) in patients receiving placebo.

Palpitations

For patients receiving delamanid + OBR in the phase 2 and 3 trials, the frequency was 7.9% (frequency category common) in comparison to a frequency of 6.7% in patients receiving placebo + OBR.

Paediatric population

Based on a study (see section 5.1) in 37 paediatric patients aged 0 to 17 years, the frequency, type and severity of adverse reactions in children are expected to be the same as in adults.

Cases of hallucination have been reported predominantly in the paediatric population during post-marketing. The incidence of hallucination in clinical trials was common for children (5.4%) and adults (1%).

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

No cases of delamanid overdose have been observed in clinical trials. However, additional clinical data showed that in patients receiving 200 mg twice daily, i.e. total 400 mg delamanid per day, the overall safety profile is comparable to that in patients receiving the recommended dose of 100 mg twice daily. Albeit, some reactions were observed at a higher frequency and the rate of QT prolongation increased in a dose-related manner. Treatment of overdose should involve immediate measures to remove delamanid from the gastrointestinal tract and supportive care as required. Frequent ECG monitoring should be performed.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antimycobacterials, drugs for treatment of tuberculosis, ATC code: J04AK06.

Mechanism of action

The pharmacological mode of action of delamanid involves inhibition of the synthesis of the mycobacterial cell wall components, methoxy-mycolic and keto-mycolic acid. The identified metabolites of delamanid do not show anti-mycobacterial activity.

Activity against specific pathogens

Delamanid has no *in vitro* activity against bacterial species other than mycobacteria.

Resistance

Mutation in one of the 5 coenzyme F420 genes is suggested as the mechanism for resistance against delamanid in mycobacteria. In mycobacteria, the *in vitro* frequencies of spontaneous resistance to delamanid were similar to those for isoniazid and were higher than those for rifampicin. Resistance to delamanid has been documented to occur during treatment (see section 4.4). Delamanid does not show cross-resistance with any of the currently used anti-tuberculosis medicinal products except pretomanid. *In vitro* studies have shown cross-resistance with pretomanid. This is likely to be due to delamanid and pretomanid being activated via the same pathway.

Susceptibility testing interpretive criteria

When 7H11 agar medium is used for drug susceptibility testing, the recommended epidemiological cut-off (ECOFF) and susceptibility testing interpretive criteria for delamanid are:

ECOFF: 0.016 mg/L

Clinical breakpoint: S ≤ 0.016 mg/L; R > 0.016 mg/L

S = susceptible; R = resistant

Data from clinical studies

Delamanid has been evaluated in two, double-blind, placebo-controlled trials for the treatment of MDR-TB. The analyses of SCC were conducted on the modified intent to treat population which included patients who had positive cultures at baseline and the isolate was resistant to both isoniazid and rifampicin, i.e., had MDR-TB.

In the first trial (Trial 204), 64/141 (45.4%) patients randomised to receive delamanid 100 mg BID + OBR and 37/125 (29.6%) of patients randomised to receive placebo (PLC) + OBR achieved two-month sputum culture conversion (SCC) (i.e. growth of *Mycobacterium tuberculosis* to no growth over the first 2 months and maintained for 1 more month) ($p = 0.0083$). The time to SCC for the group randomised to 100 mg BID was also found to be faster than for the group randomised to receive placebo + OBR ($p = 0.0056$).

In the second trial (Trial 213), delamanid was administered orally at 100 mg BID as an add-on therapy to an OBR for 2 months followed by 200 mg once daily for 4 months. The median time to SCC was 51 days in the delamanid + OBR group compared with 57 days in the PLC + OBR group ($p = 0.0562$ using the stratified modified Peto-Peto modification of Gehan's Wilcoxon rank sum test). The proportion of patients achieving SCC (sputum culture conversion) after the 6-month treatment period was 87.6% (198/226) in the delamanid + OBR treatment group compared to 86.1% (87/101) in the placebo + OBR treatment group ($p = 0.7131$).

All missing cultures up to the time of SCC were assumed to be positive cultures in the primary analysis. Two sensitivity analyses were conducted - a last-observation-carried-forward (LOCF) analysis and an analysis using 'bookending' methodology (which required that the previous and subsequent cultures were both observed negative cultures to impute a negative result, otherwise a positive result was imputed). Both showed a 13-day shorter median time to SCC in the delamanid + OBR group ($p = 0.0281$ for LOCF and $p = 0.0052$ for 'bookending').

Delamanid resistance (defined as MIC ≥ 0.2 µg/mL) has been observed at baseline in 2 of 316 patients in Trial 204 and 2 of 511 patients in Trial 213 (4 of 827 patients [0.48%]). Delamanid resistance emerged in 4 of 341 patients (1.2%) randomised to receive delamanid for 6 months in Trial 213. These four patients were only receiving two other medicinal products in addition to delamanid.

Paediatric population

The pharmacokinetics, safety and efficacy of delamanid in combination with a background regimen (BR) were evaluated in trial 242-12 -232 (10 days pharmacokinetics) followed by trial -233

(pharmacokinetics, efficacy and safety), both single-arm, open-label trials, which included 37 patients who had a median age of 4.55 years (range 0.78 to 17.60 years), 25 (67.6%) were Asian and 19 (51.4%) were female.

Paediatric patients were enrolled in four groups:

Group 1: 12 to 17 years (7 patients), group 2: 6 to 11 years (6 patients), group 3: 3 to 5 years (12 patients) and group 4: 0 to 2 years (12 patients). The overall mean baseline body weight of subjects was 19.5 kg and in groups 1, 2, 3, and 4 the mean body weights were 38.4, 25.1, 14.8, and 10.3 kg, respectively.

The patients had confirmed or probable MDR-TB infection and were to complete 26 weeks of treatment with delamanid + OBR, followed by OBR only in accordance with the WHO recommendation. Patients in groups 1 and 2 received film-coated tablets. The delamanid dose in group 1 was 100 mg twice daily and 50 mg twice daily in group 2. The doses administered were higher than the currently recommended weight-based dosage in the paediatric population. Patients in groups 3 and 4 received dispersible tablets. This paediatric formulation is not bio-equivalent with the film-coated tablets. Patients in group 3 were administered 25 mg twice daily and patients in group 4 were administered doses between 10 mg twice daily and 5 mg once daily based on body weight. The doses administered in group 4 were below the currently recommended weight-based dosage in the paediatric population.

A population PK analysis was performed on data from the 2 paediatric trials to determine the doses in paediatric subjects which would provide delamanid exposures similar to those observed in adult subjects with MDR-TB. Data in children with a body weight of less than 10 kg were too limited to determine doses for that patient population.

This medicinal product has been authorised under a so-called 'conditional approval' scheme. This means that further evidence on this medicinal product is awaited.

The European Medicines Agency will review new information on this medicinal product at least every year and this SmPC will be updated as necessary.

5.2 Pharmacokinetic properties

Absorption

Oral bioavailability of delamanid improves when administered with a standard meal, by about 2.7-fold compared to fasting conditions. The peak plasma concentrations are reached in approximately 4 hours post-dose, regardless of food intake.

Distribution

Delamanid highly binds to all plasma proteins with a binding to total proteins of $\geq 99.5\%$. Delamanid has a large apparent volume of distribution (V_z/F of 2 100 L).

Biotransformation

Delamanid is primarily metabolised in plasma by albumin and to a lesser extent by CYP3A4. The complete metabolic profile of delamanid has not yet been elucidated, and there is a potential for drug interactions with other co-administered medicinal products, if significant unknown metabolites are discovered. The identified metabolites do not show anti-mycobacterial activity but some contribute to QTc prolongation, mainly DM-6705. Concentrations of the identified metabolites progressively increase to steady state after 6 to 10 weeks.

Elimination

Delamanid disappears from plasma with a $t_{1/2}$ of 30 to 38 hours. Delamanid is not excreted in urine.

Linearity/non-linearity

Delamanid plasma exposure increases less than proportionally with increasing dose.

Special populations

Paediatric population

During treatment with the recommended delamanid doses to adolescents and children with a body weight of at least 10 kg (see section 4.2), similar plasma exposure were obtained as in adults.

Patients with renal impairment

Less than 5% of an oral dose of delamanid is recovered from urine. Mild renal impairment (50 mL/min < CrCLN < 80 mL/min) does not appear to affect delamanid exposure. Therefore no dose adjustment is needed for patients with mild or moderate renal impairment. It is not known whether delamanid and metabolites will be significantly removed by haemodialysis or peritoneal dialysis.

Patients with hepatic impairment

No dose adjustment is considered necessary for patients with mild hepatic impairment. Delamanid is not recommended in patients with moderate to severe hepatic impairment.

Elderly patients (≥ 65 years)

No patients of ≥ 65 years of age were included in clinical trials.

5.3 Preclinical safety data

Non-clinical data reveal no specific hazard for humans based on conventional studies for genotoxicity and carcinogenic potential. Delamanid and/or its metabolites have the potential to affect cardiac repolarisation via blockade of hERG potassium channels. In the dog, foamy macrophages were observed in lymphoid tissue of various organs during repeat-dose toxicity studies. The finding was shown to be partially reversible; the clinical relevance of this finding is unknown. Repeat-dose toxicity studies in rabbits revealed an inhibitory effect of delamanid and/or its metabolites on vitamin K-dependent blood clotting. In rabbits reproductive studies, embryo-fetal toxicity was observed at maternally toxic dosages. Pharmacokinetic data in animals have shown excretion of delamanid/metabolites into breast milk. In lactating rats, the C_{max} for delamanid in breast milk was 4-fold higher than that of the blood. In juvenile toxicity studies in rats, all delamanid treatment-related findings were consistent with those noted in adult animals.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Hypromellose phthalate
Povidone
all-rac- α -Tocopherol
Cellulose, microcrystalline
Sodium starch glycolate (type A)
Carmellose calcium
Silica, colloidal hydrated
Magnesium stearate
Lactose monohydrate

Film coating

Hypromellose
Macrogol 8000
Titanium dioxide
Talc
Iron oxide yellow (E172)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

5 years

6.4 Special precautions for storage

Store in the original package in order to protect from moisture.

6.5 Nature and contents of container

Aluminium/Aluminium blister:
48 tablets.

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

Otsuka Novel Products GmbH
Erika-Mann-Straße 21
80636 München
Germany

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/13/875/004

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 28 April 2014
Date of latest renewal: 22 March 2022

10. DATE OF REVISION OF THE TEXT

<{MM/YYYY}>

Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>.

▼ 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

Deltyba 25 mg dispersible tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each dispersible tablet contains 25 mg delamanid.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Dispersible tablet

Round, white to off-white dispersible tablet, 11 mm in diameter, debossed with 'DLM' and '25' on one side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Deltyba is indicated for use as part of an appropriate combination regimen for pulmonary multi-drug resistant tuberculosis (MDR-TB) in adults, adolescents, children and infants with a body weight of at least 10 kg when an effective treatment regimen cannot otherwise be composed for reasons of resistance or tolerability (see sections 4.2, 4.4 and 5.1).

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

4.2 Posology and method of administration

Treatment with delamanid should be initiated and monitored by a physician experienced in the management of multidrug-resistant *Mycobacterium tuberculosis*.

Delamanid must always be administered as part of an appropriate combination regimen for the treatment of multidrug-resistant tuberculosis (MDR-TB) (see sections 4.4 and 5.1). Treatment with an appropriate combination regimen should continue after completion of the 24-week delamanid treatment period according to WHO guidelines.

It is recommended that delamanid is administered by directly observed therapy (DOT).

Posology

Adults

For adult patients the use of film-coated tablets is recommended, please see the SmPC for Deltyba 50 mg film-coated tablets.

Adolescents, children and infants

Paediatric patients with a body weight of

- ≥ 10 to < 20 kg: the recommended dose is 25 mg twice daily for 24 weeks

- ≥ 20 to < 30 kg: the recommended dose is 50 mg every morning and 25 mg every evening for 24 weeks

For patients with a body weight of 30 kg or more please see the SmPC for Deltyba 50 mg film-coated tablets.

Elderly patients (> 65 years of age)

No data are available in the elderly. For adult patients please see the SmPC for Deltyba 50 mg film-coated tablets.

Renal impairment

No dose adjustment is considered necessary in patients with mild or moderate renal impairment. There are no data on the use of delamanid in patients with severe renal impairment and its use is not recommended (see sections 4.4 and 5.2).

Hepatic impairment

No dose adjustment is considered necessary in patients with mild hepatic impairment. Delamanid is not recommended in patients with moderate to severe hepatic impairment (see sections 4.4 and 5.2).

Paediatric population

The safety and efficacy of Deltyba in children with a body weight below 10 kg have not yet been established. Currently available data are described in sections 4.8, 5.1 and 5.2 but no recommendation on a posology can be made.

Method of administration

Oral use.

Delamanid should be taken with food.

The dispersible tablets must be dispersed in water using 10 to 15 mL per 25 mg dispersible tablet and the resulting whitish suspension must be ingested immediately. Thereafter further 10 to 15 mL of water per dispersible tablet must be added to the glass or cup to ensure that potentially remaining suspension is dispersed and the resulting suspension must also be ingested.

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
- Serum albumin < 2.8 g/dL (see section 4.4 regarding use in patients with serum albumin ≥ 2.8 g/dL).
- Coadministration of medicinal products that are strong inducers of CYP3A4 (e.g. carbamazepine).

4.4 Special warnings and precautions for use

There are no data on treatment with delamanid for more than 24 consecutive weeks (see section 4.2).

There are no clinical data on the use of delamanid to treat

- extra pulmonary tuberculosis (e.g. central nervous system, bone)
- infections due to Mycobacterial species other than those of the *M. tuberculosis* complex
- latent infection with *M. tuberculosis*

There are no clinical data on the use of delamanid as part of combination regimens used to treat drug-susceptible *M. tuberculosis*.

Resistance to delamanid

Delamanid must only be used in an appropriate combination regimen for MDR-TB treatment as recommended by WHO to prevent development of resistance to delamanid.

QT prolongation

QT prolongation has been observed in patients treated with delamanid. This prolongation increases slowly over time in the first 6 to 10 weeks of treatment and remains stable thereafter. QTc prolongation is very closely correlated with the major delamanid metabolite DM-6705. Plasma albumin and CYP3A4 regulate the formation and metabolism of DM-6705 respectively (see Special Considerations below).

General recommendations

It is recommended that electrocardiograms (ECG) should be obtained before initiation of treatment and monthly during the full course of treatment with delamanid. If a QTcF > 500 ms is observed either before the first dose of delamanid or during delamanid treatment, treatment with delamanid should either not be started or should be discontinued. If the QTc interval duration exceeds 450/470 ms for male/female patients during delamanid treatment, these patients should be administered more frequent ECG monitoring. It is also recommended that serum electrolytes, e.g. potassium, are obtained at baseline and corrected if abnormal.

Special considerations

Cardiac risk factors

Treatment with delamanid should not be initiated in patients with the following risk factors unless the possible benefit of delamanid is considered to outweigh the potential risks. Such patients should receive very frequent monitoring of ECG throughout the full delamanid treatment period.

- Known congenital prolongation of the QTc-interval or any clinical condition known to prolong the QTc interval or QTc > 500 ms.
- History of symptomatic cardiac arrhythmias or with clinically relevant bradycardia.
- Any predisposing cardiac conditions for arrhythmia such as severe hypertension, left ventricular hypertrophy (including hypertrophic cardiomyopathy) or congestive cardiac failure accompanied by reduced left ventricle ejection fraction.
- Electrolyte disturbances, particularly hypokalaemia, hypocalcaemia or hypomagnesaemia.
- Taking medicinal products that are known to prolong the QTc interval. These include (but are not limited to):
 - Antiarrhythmics (e.g. amiodarone, disopyramide, dofetilide, ibutilide, procainamide, quinidine, hydroquinidine, sotalol).
 - Neuroleptics (e.g. phenothiazines, sertindole, sultopride, chlorpromazine, haloperidol, mesoridazine, pimozide, or thioridazine), antidepressive agents.
 - Certain antimicrobial agents, including:
 - macrolides (e.g. erythromycin, clarithromycin)
 - moxifloxacin, sparfloxacin (see section 4.4 regarding use with other fluoroquinolones)
 - bedaquiline
 - triazole antifungal agents
 - pentamidine
 - saquinavir
 - Certain non-sedating antihistamines (e.g. terfenadine, astemizole, mizolastine).
 - Certain antimalarials with QT-prolonging potential (e.g. halofantrine, quinine, chloroquine, artesunate/amodiaquine, dihydroartemisinin/piperazine).
- Cisapride, droperidol, domperidone, bepridil, diphemanil, probucol, levomethadyl, methadone, vinca alkaloids, arsenic trioxide.

Hypoalbuminaemia

In a clinical study, the presence of hypoalbuminaemia was associated with an increased risk of prolongation of the QTc interval in delamanid treated patients. Delamanid is contraindicated in patients with albumin < 2.8 g/dL (see section 4.3). Patients who commence delamanid with serum albumin < 3.4 g/dL or experience a fall in serum albumin into this range during treatment should receive very frequent monitoring of ECGs throughout the full delamanid treatment period.

Co-administration with strong inhibitors of CYP3A4

Co-administration of delamanid with a strong inhibitor of CYP3A4 (lopinavir/ritonavir) was associated with a 30% higher exposure to the metabolite DM-6705, which has been associated with QTc prolongation. Therefore, if co-administration of delamanid with any strong inhibitor of CYP3A4 is considered necessary it is recommended that there is very frequent monitoring of ECGs, throughout the full delamanid treatment period.

Co-administration of delamanid with quinolones

All QTcF prolongations above 60 ms were associated with concomitant fluoroquinolone use. Therefore, if co-administration is considered to be unavoidable in order to construct an adequate treatment regimen for MDR-TB it is recommended that there is very frequent monitoring of ECGs throughout the full delamanid treatment period.

Hepatic impairment

Deltyba is not recommended in patients with moderate to severe hepatic impairment (see sections 4.2 and 5.2).

Renal impairment

There are no data on the use of delamanid in patients with severe renal impairment and its use is not recommended (see sections 4.2 and 5.2).

4.5 Interaction with other medicinal products and other forms of interaction

Effects of other medicinal products on delamanid

Cytochrome P450 3A4 inducers

Clinical drug-drug interactions studies in healthy subjects indicated a reduced exposure to delamanid, of up to 45% following 15 days of concomitant administration of the strong inducer of cytochrome P450 (CYP) 3A4 (rifampicin 300 mg daily) with delamanid (200 mg daily). No clinically relevant reduction in delamanid exposure was observed with the weak inducer efavirenz when administered at a dose of 600 mg daily for 10 days in combination with delamanid 100 mg twice daily.

Anti-HIV medicinal products

In clinical drug-drug interaction studies in healthy subjects, delamanid was administered alone (100 mg twice daily) and with tenofovir disoproxil (245 mg daily) or lopinavir/ritonavir (400/100 mg daily) for 14 days and with efavirenz for 10 days (600 mg daily). Delamanid exposure remained unchanged (< 25% difference) with anti-HIV medicinal products tenofovir disoproxil and efavirenz but was slightly increased with the combination anti-HIV medicinal products containing lopinavir/ritonavir.

Effects of delamanid on other medicinal products

In-vitro studies showed that delamanid did not inhibit CYP450 isozymes.

In-vitro studies showed that delamanid and metabolites did not have any effect on the transporters MDR1(p-gp), BCRP, OATP1, OATP3, OCT1, OCT2, OATP1B1, OATP1B3 and BSEP, at concentrations of approximately 5 to 20-fold greater than the C_{max} at steady state. However, since the concentrations in the gut can potentially be much greater than these multiples of the C_{max} , there is a potential for delamanid to have an effect on these transporters.

Anti-tuberculosis medicinal products

In a clinical drug-drug interaction study in healthy subjects, delamanid was administered alone (200 mg daily) and with rifampicin/isoniazid/pyrazinamide (300/720/1800 mg daily) or ethambutol (1100 mg daily) for 15 days. Exposure of concomitant anti-TB drugs (rifampicin [R]/ isoniazid [H]/ pyrazinamide [Z]) was not affected. Co-administration with delamanid significantly increased steady state plasma concentrations of ethambutol by approximately 25%, the clinical relevance is unknown.

Anti-HIV medicinal products

In a clinical drug-drug interaction study in healthy subjects, delamanid was administered alone (100 mg twice daily) and tenofovir disoproxil (245 mg daily), lopinavir/ritonavir (400/100 mg daily) for 14 days and with efavirenz for 10 days (600 mg daily). Delamanid given in combination with the anti-HIV-medicines, tenofovir disoproxil, lopinavir/ritonavir and efavirenz, did not affect the exposure to these medicinal products.

Medicinal products with the potential to prolong QTc

Care must be taken in using delamanid in patients already receiving medicinal products associated with QT prolongation (see section 4.4). Co-administration of moxifloxacin and delamanid in MDR-TB patients has not been studied. Moxifloxacin is not recommended for use in patients treated with delamanid.

4.6 Fertility, pregnancy and lactation

Pregnancy

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

Delyba is not recommended during pregnancy and in women of childbearing potential not using contraception.

Breast-feeding

It is unknown whether delamanid/metabolites are excreted in human milk. Available pharmacokinetic/toxicological data in animals have shown excretion of delamanid and/or its metabolites in milk (for details see section 5.3). A risk to the newborns/infants cannot be excluded. It is recommended that women should not breastfeed during treatment with Delyba.

Fertility

Delyba had no effect on male or female fertility in animals (see section 5.3). There are no clinical data on the effects of delamanid on fertility in humans.

4.7 Effects on ability to drive and use machines

Delyba is expected to have a moderate influence on the ability to drive and use machines. Patients should be advised not to drive or use machines if they experience any adverse reaction with a potential impact on the ability to perform these activities (e.g. headache is very common and tremor is common).

4.8 Undesirable effects

Summary of the safety profile

The most frequently observed adverse drug reactions in patients treated with delamanid + Optimised Background Regimen (OBR) (i.e. incidence > 10%) are nausea (32.9%), vomiting (29.9%), headache (28.4%), sleep disorders and disturbances (28.2%), dizziness (22.4%), gastritis (15.9%) and decreased appetite (13.1%).

Tabulated list of adverse reactions

The list of adverse drug reactions and frequencies are based on the results from 2 double-blind placebo controlled clinical trials. The adverse drug reactions are listed by MedDRA System Organ Class and Preferred Term. Within each System Organ Class, adverse reactions are listed under frequency categories of very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), uncommon ($\geq 1/1\ 000$ to $< 1/100$), rare ($\geq 1/10\ 000$ to $< 1/1\ 000$), very rare ($< 1/10\ 000$) and not known (cannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table: Adverse drug reactions to delamanid

System Organ Class	Frequency very common	Frequency common	Frequency uncommon
Endocrine disorders	-	Hypothyroidism ^a	-
Metabolism and nutrition disorders	Decreased appetite	-	-
Psychiatric disorders	Sleep disorders and disturbances ^b	Psychotic disorder ^c Anxiety ^d Depression ^e Hallucination ^f	-
Nervous system disorders	Dizziness Headache ^g	Hypoaesthesia Tremor	Lethargy
Cardiac disorders	-	Atrioventricular block first degree Ventricular extrasystoles Palpitations	-
Respiratory, thoracic and mediastinal disorders	-	Throat irritation	-
Gastrointestinal disorders	Nausea Vomiting Gastritis ^h	Dyspepsia	-
Musculoskeletal and connective tissue disorders	-	Muscular weakness Muscle spasms	-
General disorders and administration site conditions	-	Chest pain	-
Investigations	-	Cortisol increased ⁱ Electrocardiogram QT prolonged	-

Event terms that represent the same medical concept or condition were grouped together and reported as a single adverse drug reaction in Table 'Adverse drug reactions to delamanid'. Preferred terms actually reported in the double-blind clinical trials and contributing to the relevant adverse drug reaction are indicated in parentheses, as listed below:

- Hypothyroidism (hypothyroidism, primary hypothyroidism)
- Sleep disorders and disturbances (initial insomnia, insomnia, sleep disorder)
- Psychotic disorder (acute psychosis, psychotic disorder, reactive psychosis, substance-induced psychotic disorder)
- Anxiety (anxiety, anxiety disorder, generalised anxiety disorder)
- Depression (adjustment disorder with depressed mood, depressed mood, depression, major depression, mixed anxiety and depressive disorder, persistent depressive disorder, schizoaffective disorder depressive type)

- f. Hallucination (hallucination; hallucination, auditory; hallucination, visual; hallucination tactile; hallucination mixed; hypnopompic hallucination; hypnagogic hallucination)
- g. Headache (head discomfort, headache, migraine, sinus headache, tension headache, vascular headache)
- h. Gastritis (chronic gastritis, gastritis, gastritis erosive)
- i. Cortisol increased (Cushing's syndrome, hyperadrenocorticism, cortisol increased)

Description of selected adverse reactions

ECG QT interval prolongation

In patients receiving 200 mg delamanid total daily dose in the phase 2 and 3 trials, the mean placebo corrected increase in QTcF from baseline ranged from 4.7 - 7.6 ms at 1 month and 5.3 ms - 12.1 ms at 2 months, respectively. The incidence of a QTcF interval > 500 ms ranged from 0.6% (1/161) - 2.1% (7/341) in patients receiving delamanid 200 mg total daily dose versus 0% (0/160) - 1.2% (2/170) of patients receiving placebo + OBR, while the incidence of QTcF change from baseline > 60 ms ranged from 3.1% (5/161) - 10.3% (35/341) in patients receiving delamanid 200 mg total daily dose versus 0% (0/160) - 7.1% (12/170) in patients receiving placebo.

Palpitations

For patients receiving delamanid + OBR in the phase 2 and 3 trials, the frequency was 7.9% (frequency category common) in comparison to a frequency of 6.7% in patients receiving placebo + OBR.

Paediatric population

Based on a study (see section 5.1) in 37 paediatric patients aged 0 to 17 years, the frequency, type and severity of adverse reactions in children are expected to be the same as in adults.

Cases of hallucination have been reported predominantly in the paediatric population during post-marketing. The incidence of hallucination in clinical trials was common for children (5.4%) and adults (1%).

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

No cases of delamanid overdose have been observed in clinical trials. However, additional clinical data showed that in patients receiving 200 mg twice daily, i.e. total 400 mg delamanid per day, the overall safety profile is comparable to that in patients receiving the recommended dose of 100 mg twice daily. Albeit, some reactions were observed at a higher frequency and the rate of QT prolongation increased in a dose-related manner. Treatment of overdose should involve immediate measures to remove delamanid from the gastrointestinal tract and supportive care as required. Frequent ECG monitoring should be performed.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antimycobacterials, drugs for treatment of tuberculosis, ATC code: J04AK06.

Mechanism of action

The pharmacological mode of action of delamanid involves inhibition of the synthesis of the mycobacterial cell wall components, methoxy-mycolic and keto-mycolic acid. The identified metabolites of delamanid do not show anti-mycobacterial activity.

Activity against specific pathogens

Delamanid has no *in vitro* activity against bacterial species other than mycobacteria.

Resistance

Mutation in one of the 5 coenzyme F420 genes is suggested as the mechanism for resistance against delamanid in mycobacteria. In mycobacteria, the *in vitro* frequencies of spontaneous resistance to delamanid were similar to those for isoniazid and were higher than those for rifampicin. Resistance to delamanid has been documented to occur during treatment (see section 4.4). Delamanid does not show cross-resistance with any of the currently used anti-tuberculosis medicinal products except pretomanid. *In vitro* studies have shown cross-resistance with pretomanid. This is likely to be due to delamanid and pretomanid being activated via the same pathway.

Susceptibility testing interpretive criteria

When 7H11 agar medium is used for drug susceptibility testing, the recommended epidemiological cut-off (ECOFF) and susceptibility testing interpretive criteria for delamanid are:

ECOFF: 0.016 mg/L

Clinical breakpoint: S ≤ 0.016 mg/L; R > 0.016 mg/L

S = susceptible; R = resistant

Data from clinical studies

Delamanid has been evaluated in two, double-blind, placebo-controlled trials for the treatment of MDR-TB. The analyses of SCC were conducted on the modified intent to treat population which included patients who had positive cultures at baseline and the isolate was resistant to both isoniazid and rifampicin, i.e., had MDR-TB.

In the first trial (Trial 204), 64/141 (45.4%) patients randomised to receive delamanid 100 mg BID + OBR and 37/125 (29.6%) of patients randomised to receive placebo (PLC) + OBR achieved two-month sputum culture conversion (SCC) (i.e. growth of *Mycobacterium tuberculosis* to no growth over the first 2 months and maintained for 1 more month) (p = 0.0083). The time to SCC for the group randomised to 100 mg BID was also found to be faster than for the group randomised to receive placebo + OBR (p = 0.0056).

In the second trial (Trial 213), delamanid was administered orally at 100 mg BID as an add-on therapy to an OBR for 2 months followed by 200 mg once daily for 4 months. The median time to SCC was 51 days in the delamanid + OBR group compared with 57 days in the PLC + OBR group (p = 0.0562 using the stratified modified Peto-Peto modification of Gehan's Wilcoxon rank sum test). The proportion of patients achieving SCC (sputum culture conversion) after the 6-month treatment period was 87.6% (198/226) in the delamanid + OBR treatment group compared to 86.1% (87/101) in the placebo + OBR treatment group (p = 0.7131).

All missing cultures up to the time of SCC were assumed to be positive cultures in the primary analysis. Two sensitivity analyses were conducted - a last-observation-carried-forward (LOCF) analysis and an analysis using 'bookending' methodology (which required that the previous and subsequent cultures were both observed negative cultures to impute a negative result, otherwise a positive result was imputed). Both showed a 13-day shorter median time to SCC in the delamanid + OBR group (p = 0.0281 for LOCF and p = 0.0052 for 'bookending').

Delamanid resistance (defined as MIC ≥ 0.2 µg/mL) has been observed at baseline in 2 of 316 patients in Trial 204 and 2 of 511 patients in Trial 213 (4 of 827 patients [0.48%]). Delamanid resistance

emerged in 4 of 341 patients (1.2%) randomised to receive delamanid for 6 months in Trial 213. These four patients were only receiving two other medicinal products in addition to delamanid.

Paediatric population

The pharmacokinetics, safety and efficacy of delamanid in combination with a background regimen (BR) were evaluated in trial 242-12 -232 (10 days pharmacokinetics) followed by trial -233 (pharmacokinetics, efficacy and safety), both single-arm, open-label trials, which included 37 patients who had a median age of 4.55 years (range 0.78 to 17.60 years), 25 (67.6%) were Asian and 19 (51.4%) were female.

Paediatric patients were enrolled in four groups:

Group 1: 12 to 17 years (7 patients), group 2: 6 to 11 years (6 patients), group 3: 3 to 5 years (12 patients) and group 4: 0 to 2 years (12 patients). The overall mean baseline body weight of subjects was 19.5 kg and in groups 1, 2, 3, and 4 the mean body weights were 38.4, 25.1, 14.8, and 10.3 kg, respectively.

The patients had confirmed or probable MDR-TB infection and were to complete 26 weeks of treatment with delamanid + OBR, followed by OBR only in accordance with the WHO recommendation. Patients in groups 1 and 2 received film-coated tablets. The delamanid dose in group 1 was 100 mg twice daily and 50 mg twice daily in group 2. The doses administered were higher than the currently recommended weight-based dosage in the paediatric population. Patients in groups 3 and 4 received dispersible tablets. This paediatric formulation is not bio-equivalent with the film-coated tablets. Patients in group 3 were administered 25 mg twice daily and patients in group 4 were administered doses between 10 mg twice daily and 5 mg once daily based on body weight. The doses administered in group 4 were below the currently recommended weight-based dosage in the paediatric population.

A population PK analysis was performed on data from the 2 paediatric trials to determine the doses in paediatric subjects which would provide delamanid exposures similar to those observed in adult subjects with MDR-TB. Data in children with a body weight of less than 10 kg were too limited to determine doses for that patient population.

This medicinal product has been authorised under a so-called 'conditional approval' scheme. This means that further evidence on this medicinal product is awaited.

The European Medicines Agency will review new information on this medicinal product at least every year and this SmPC will be updated as necessary.

5.2 Pharmacokinetic properties

Absorption

Oral bioavailability of delamanid improves when administered with a standard meal, by about 2.7-fold compared to fasting conditions. The peak plasma concentrations are reached in approximately 5 hours post-dose, regardless of food intake.

Distribution

Delamanid highly binds to all plasma proteins with a binding to total proteins of $\geq 99.5\%$. Delamanid has a large apparent volume of distribution (V_z/F of 2 100 L).

Biotransformation

Delamanid is primarily metabolised in plasma by albumin and to a lesser extent by CYP3A4. The complete metabolic profile of delamanid has not yet been elucidated, and there is a potential for drug interactions with other co-administered medicinal products, if significant unknown metabolites are discovered. The identified metabolites do not show anti-mycobacterial activity but some contribute to QTc prolongation, mainly DM-6705. Concentrations of the identified metabolites progressively increase to steady state after 6 to 10 weeks.

Elimination

Delamanid disappears from plasma with a $t_{1/2}$ of 30 to 38 hours. Delamanid is not excreted in urine.

Linearity/non-linearity

Delamanid plasma exposure increases less than proportionally with increasing dose.

Special populations

Paediatric population

During treatment with the recommended delamanid doses to adolescents and children with a body weight of at least 10 kg (see section 4.2), similar plasma exposure were obtained as in adults.

Patients with renal impairment

Less than 5% of an oral dose of delamanid is recovered from urine. Mild renal impairment ($50 \text{ mL/min} < \text{CrCLN} < 80 \text{ mL/min}$) does not appear to affect delamanid exposure. Therefore no dose adjustment is needed for patients with mild or moderate renal impairment. It is not known whether delamanid and metabolites will be significantly removed by haemodialysis or peritoneal dialysis.

Patients with hepatic impairment

No dose adjustment is considered necessary for patients with mild hepatic impairment. Delamanid is not recommended in patients with moderate to severe hepatic impairment.

Elderly patients (≥ 65 years)

No patients of ≥ 65 years of age were included in clinical trials.

5.3 Preclinical safety data

Non-clinical data reveal no specific hazard for humans based on conventional studies for genotoxicity and carcinogenic potential. Delamanid and/or its metabolites have the potential to affect cardiac repolarisation via blockade of hERG potassium channels. In the dog, foamy macrophages were observed in lymphoid tissue of various organs during repeat-dose toxicity studies. The finding was shown to be partially reversible; the clinical relevance of this finding is unknown. Repeat-dose toxicity studies in rabbits revealed an inhibitory effect of delamanid and/or its metabolites on vitamin K-dependent blood clotting. In rabbits reproductive studies, embryo-fetal toxicity was observed at maternally toxic dosages. Pharmacokinetic data in animals have shown excretion of delamanid/metabolites into breast milk. In lactating rats, the C_{max} for delamanid in breast milk was 4-fold higher than that of the blood. In juvenile toxicity studies in rats, all delamanid treatment-related findings were consistent with those noted in adult animals.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Hypromellose phthalate
Povidone (K-25)
all-rac- α -Tocopherol
Mannitol
Crospovidone
Sucralose
Silica, colloidal hydrated
Cherry micron OT-22685
Calcium stearate

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

4 years

6.4 Special precautions for storage

Store in the original package in order to protect from moisture and light.

6.5 Nature and contents of container

Aluminium/Aluminium blister:
48 tablets.

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

Otsuka Novel Products GmbH
Erika-Mann-Straße 21
80636 München
Germany

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/13/875/005

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 28 April 2014
Date of latest renewal: 22 March 2022

10. DATE OF REVISION OF THE TEXT

<{MM/YYYY}>

Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>.

ANNEX II

- A. MANUFACTURERS 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**
- E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION**

A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers responsible for batch release

Otsuka Novel Products GmbH
Erika-Mann-Straße 21
80636 München
Germany

R-Pharm Germany GmbH
Heinrich-Mack-Straße 35
89257 Illertissen
Germany

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 products 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.

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.

- **Additional risk minimisation measures**

The MAH should agree the educational material with the Member States, prior to launch.

In each Member State, the Marketing Authorisation Holder (MAH) shall agree the content and format of the educational material with the national competent authority and implement it prior to launch.

The MAH shall ensure that all healthcare professionals involved in the prescribing, dispensing, handling or administration of Delyba are provided with educational material.

1. The educational material for Healthcare Providers (HCPs) shall address the following key elements:

- SmPC
- Drug- resistance
- Risk of QT interval prolongation
- Drug use during pregnancy
- Drug use during breast feeding.

2. The educational material for Patients to be provided via the HCPs to reinforce and supplement the information provided in the patient information leaflet. It shall address the following key elements:

- Drug use during pregnancy
- Drug use during breast feeding.

E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION

This being a conditional marketing authorisation and pursuant to Article 14-a of Regulation (EC) No 726/2004, the MAH shall complete, within the stated timeframe, the following measures:

Description	Due date
In order to further investigate the use of delamanid in different combination treatment regimens as well as safety, the MAH should submit the results of the endTB (Evaluating Newly approved Drugs for multidrug-resistant TB) study, a randomized, controlled Phase III trial in adults and adolescents with multi-drug-resistant tuberculosis conducted by Médecins Sans Frontières, including an additional analysis of the data with a focus on the evaluation of delamanid based on an agreed statistical analysis plan.	Q2 2024

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTONS FOR BLISTER PACKS

1. NAME OF THE MEDICINAL PRODUCT

Delyba 50 mg film-coated tablets
delamanid

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 50 mg delamanid

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

48 tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral 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

Store in the original package in order to protect from moisture.

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

Otsuka Novel Products GmbH
Erika-Mann-Straße 21, 80636 München
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/13/875/004

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Delyba 50 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

Blisters (Alu/Alu)

1. NAME OF THE MEDICINAL PRODUCT

Delyba 50 mg film-coated tablets
delamanid

2. NAME OF THE MARKETING AUTHORISATION HOLDER

OTSUKA

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTONS FOR BLISTER PACKS

1. NAME OF THE MEDICINAL PRODUCT

Deltyba 25 mg dispersible tablets
delamanid

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each dispersible tablet contains 25 mg delamanid

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

48 dispersible tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral 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

Store in the original package in order to protect from moisture and light.

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

Otsuka Novel Products GmbH
Erika-Mann-Straße 21, 80636 München
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/13/875/005

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Deltyba 25 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

Blisters (Alu/Alu)

1. NAME OF THE MEDICINAL PRODUCT

Delyba 25 mg dispersible tablets
delamanid

2. NAME OF THE MARKETING AUTHORISATION HOLDER

OTSUKA

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

B. PACKAGE LEAFLET

Package leaflet: Information for the patient

Deltyba 50 mg film-coated tablets delamanid

▼ 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, pharmacist or nurse.
- 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

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

1. What Deltyba is and what it is used for

Deltyba contains the active substance delamanid, an antibiotic for the treatment of tuberculosis in the lung caused by bacteria that are not killed by the most commonly used antibiotics to treat tuberculosis. It must always be taken together with other medicines for treating tuberculosis.

Deltyba is used in adults, adolescents, children and infants who are weighing at least 10 kg.

2. What you need to know before you take Deltyba

Do not take Deltyba:

- if you are allergic to delamanid or any of the other ingredients of this medicine (listed in section 6).
- if you have very low levels of albumin, in the blood.
- if you are taking medicines that strongly increase the activity of a certain liver enzyme called 'CYP450 3A4' (e.g. carbamazepine [a medicine used to treat epilepsy and prevent seizures]).

Warnings and precautions

Talk to your doctor, pharmacist or nurse before taking Deltyba.

Before you start taking Deltyba, and during the treatment, your doctor may check your heart's electrical activity using an ECG (electrocardiogram) machine (electrical recording of the heart). Your doctor may also perform a blood test to check the concentration of some minerals and proteins which are important for the function of your heart.

Tell your doctor if you have one of the following conditions:

- you have reduced levels of albumin, potassium, magnesium or calcium in the blood.
- you have been told that you have heart problems, for example a slow heart rhythm (bradycardia) or have a history of heart attack (myocardial infarction).

- if you have a condition called congenital long QT syndrome or have a serious heart disease or problems with heart rhythm.
- you have liver disease or severe kidney disease.

Children and adolescents

Deltyba is not suitable for children with a body weight of less than 10 kg because there are not enough data available in those patients to determinate the correct doses.

Other medicines and Deltyba

Tell your doctor:

- if you are taking, have recently taken or might take any other medicines.
- if you are taking medicines to treat an abnormal heart rhythm (e.g. amiodarone, disopyramide, dofetilide, ibutilide, procainamide, quinidine, hydroquinidine, sotalol).
- if you are taking medicines to treat psychoses (e.g. phenothiazines, sertindole, sultopride, chlorpromazine, haloperidol, mesoridazine, pimozide, or thioridazine) or depression.
- if you are taking certain antimicrobial medicines (e.g. erythromycin, clarithromycin, moxifloxacin, sparfloracin, bedaquiline, or pentamidine).
- if you are taking triazole antifungal medicines (e.g. fluconazole, itraconazole, voriconazole).
- if you are taking certain medicines to treat allergic reactions (e.g. terfenadine, astemizole, mizolastine).
- if you are taking certain medicines to treat malaria (e.g. halofantrine, quinine, chloroquine, artesunate/amodiaquine, dihydroartemisinin/piperaquine).
- if you are taking any of the following: cisapride (used to treat stomach disorders), droperidol (used against vomiting and migraine), domperidone (used against nausea and vomiting), diphemanil (used to treat stomach disorders or excessive sweating), probucol (lowers the level of cholesterol in the bloodstream), levomethadyl or methadone (used for the treatment of opiate addiction), vinca alkaloids (anti-cancer medicines), or arsenic trioxide (used to treat certain types of leukaemia).
- if you are taking HIV-medicines containing lopinavir/ritonavir, or saquinavir.

You may be more at risk for dangerous changes of the heart rhythm.

Pregnancy and breast-feeding

Deltyba may cause harm to an unborn baby. It is not usually recommended for use during pregnancy. It is important to tell your doctor if you are pregnant, think you may be pregnant, or are planning to get pregnant. Your doctor will weigh up the benefits to you against the risks to your baby of taking Deltyba whilst you are pregnant.

It is not known if delamanid passes into breast milk in humans. Breast-feeding is not recommended during treatment with Deltyba.

Driving and using machines

Deltyba is expected to have a moderate influence on your ability to drive and use machines. If you experience side effects that might affect your ability to concentrate and react, do not drive or use machines.

Deltyba 50 mg film-coated tablets contain lactose monohydrate.

If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicinal product.

3. How to take Deltyba

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

The recommended dose as advised by your doctor is:

Adults, adolescents and children with a body weight of 50 kg or more: two 50 mg film-coated tablets taken twice a day (morning and evening) for 24 weeks.

Children with a body weight of 30 kg or more and less than 50 kg: one 50 mg film-coated tablet taken twice daily for 24 weeks.

For children with a body weight of less than 30 kg please see the package leaflet for Delyba 25 mg dispersible tablets.

The film-coated tablets must be taken during or just after a meal. Swallow the tablets with water.

If you take more Delyba than you should

If you have taken more tablets than your prescribed dose, contact your doctor or your local hospital. Remember to take the pack with you so that it is clear what medicine you have taken.

If you forget to take Delyba

If you forget a dose, take it as soon as you remember it. However, if it is nearly time for the next dose, just skip the missed dose.

Do not take a double dose to make up for a forgotten tablet.

If you stop taking Delyba

DO NOT stop taking the tablets unless your doctor tells you to. Stopping too early could allow the bacteria to recover and to become resistant to delamanid.

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

4. Possible side effects

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

Side effects very commonly (may affect more than 1 in 10 people) reported in clinical studies with Delyba were:

- Decreased appetite
- Disturbed sleep
- Feeling dizzy
- Feeling sick (nausea)
- Headache
- Stomach irritation (gastritis)
- Vomiting

Side effects commonly (may affect up to 1 in 10 people) reported in clinical studies with Delyba were:

- Chest pain
- Decrease in the thyroid gland activity (hypothyroidism)
- Defect in cardiac rhythm that predisposes to fainting, dizziness and palpitations (electrocardiogram QT prolonged)
- Depression
- Feeling anxious (anxiety)
- Hallucination (seeing, hearing or feeling things that are not there)*
- Heart rhythm disturbance (atrioventricular block first degree)
- Indigestion (dyspepsia)
- Irregular heartbeats (ventricular extrasystoles)
- Muscular weakness
- Muscle spasms
- Numbness, decreased sensation in hands and/or feet (hypoesthesia)
- Pounding heartbeat (palpitations)
- Rise in the level of cortisol in your blood

- Shakiness (often in the hands) (tremor)
- Signs of psychosis: a loss of contact with reality, such as hearing voices or seeing things that are not there
- Throat irritation

*Cases were mostly reported in children.

Side effects uncommonly (may affect up to 1 in 100 people) reported in clinical studies with Delyba were:

- Lack of energy (lethargy)

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. 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 Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Delyba

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 or blister after 'EXP:'. The expiry date refers to the last day of that month.

Store in the original package in order to protect from moisture.

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 Delyba 50 mg film-coated tablets contain

- One film-coated tablet contains 50 mg of the active substance delamanid.
- The other ingredients are hypromellose phthalate, povidone, all-rac- α -tocopherol, microcrystalline cellulose, sodium starch glycolate, carmellose calcium, colloidal hydrated silica, magnesium stearate, lactose monohydrate, hypromellose, macrogol 8000, titanium dioxide, talc, iron oxide (E172).

What Delyba 50 mg film-coated tablets look like and contents of the pack

Delyba 50 mg film-coated tablets are round, and yellow.

Delyba is supplied in packs of 48 film-coated tablets in aluminium/aluminium blisters.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder:

Otsuka Novel Products GmbH

Erika-Mann-Straße 21

80636 München

Germany

Tel: +49 (0)89 206020 500

Manufacturer:

R-Pharm Germany GmbH

Heinrich-Mack-Straße 35

89257 Illertissen
Germany

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

BE

Otsuka Novel Products GmbH
Tél/Tel: +49 (0)89 206020 500

BG

Otsuka Novel Products GmbH
Тел.: +49 (0)89 206020 500

CZ

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

DK

Otsuka Novel Products GmbH
Tlf: +49 (0)89 206020 500

DE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

EE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

EL

Otsuka Novel Products GmbH
Τηλ: +49 (0)89 206020 500

ES

Otsuka Pharmaceutical S.A.
Tel: +34 93 208 10 20

FR

Otsuka Pharmaceutical France SAS
Tél. : +33 (0)1 47 08 00 00

HR

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

IE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

IS

Otsuka Novel Products GmbH
Sími: +49 (0)89 206020 500

IT

Otsuka Pharmaceutical Italy S.r.l.
Tel: +39 (0)2 00632710

LT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

LU

Otsuka Novel Products GmbH
Tél/Tel: +49 (0)89 206020 500

HU

Otsuka Novel Products GmbH
Tel.: +49 (0)89 206020 500

MT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

NL

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

NO

Otsuka Novel Products GmbH
Tlf: +49 (0)89 206020 500

AT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

PL

Otsuka Novel Products GmbH
Tel.: +49 (0)89 206020 500

PT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

RO

Ewopharma România SRL
Tel.: +40 (0)21 260 13 44; +40 (0)21 260 14 07

SI

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

SK

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

FI

Otsuka Novel Products GmbH
Puh/Tel: +49 (0)89 206020 500

CY

Otsuka Novel Products GmbH
Τηλ: +49 (0)89 206020 500

SE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

LV

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

UK (XI)

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

This leaflet was last revised in <{MM/YYYY}>.

This medicine has been given ‘conditional approval’. This means that there is more evidence to come about this medicine.

The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

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

Package leaflet: Information for the patient

Deltyba 25 mg dispersible tablets delamanid

▼ 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, pharmacist or nurse.
- 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

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1. What Deltyba is and what it is used for

Deltyba contains the active substance delamanid, an antibiotic for the treatment of tuberculosis in the lung caused by bacteria that are not killed by the most commonly used antibiotics to treat tuberculosis. It must always be taken together with other medicines for treating tuberculosis.

Deltyba is used in adults, adolescents, children and infants who are weighing at least 10 kg.

2. What you need to know before you take Deltyba

Do not take Deltyba:

- if you are allergic to delamanid or any of the other ingredients of this medicine (listed in section 6).
- if you have very low levels of albumin, in the blood.
- if you are taking medicines that strongly increase the activity of a certain liver enzyme called 'CYP450 3A4' (e.g. carbamazepine [a medicine used to treat epilepsy and prevent seizures]).

Warnings and precautions

Talk to your doctor, pharmacist or nurse before taking Deltyba.

Before you start taking Deltyba, and during the treatment, your doctor may check your heart's electrical activity using an ECG (electrocardiogram) machine (electrical recording of the heart). Your doctor may also perform a blood test to check the concentration of some minerals and proteins which are important for the function of your heart.

Tell your doctor if you have one of the following conditions:

- you have reduced levels of albumin, potassium, magnesium or calcium in the blood.
- you have been told that you have heart problems, for example a slow heart rhythm (bradycardia) or have a history of heart attack (myocardial infarction).

- if you have a condition called congenital long QT syndrome or have a serious heart disease or problems with heart rhythm.
- you have liver disease or severe kidney disease.

Children and adolescents

Delyba is not suitable for children with a body weight of less than 10 kg because there are not enough data available in those patients to determinate the correct doses.

Other medicines and Delyba

Tell your doctor:

- if you are taking, have recently taken or might take any other medicines.
- if you are taking medicines to treat an abnormal heart rhythm (e.g. amiodarone, disopyramide, dofetilide, ibutilide, procainamide, quinidine, hydroquinidine, sotalol).
- if you are taking medicines to treat psychoses (e.g. phenothiazines, sertindole, sultopride, chlorpromazine, haloperidol, mesoridazine, pimozide, or thioridazine) or depression.
- if you are taking certain antimicrobial medicines (e.g. erythromycin, clarithromycin, moxifloxacin, sparfloracin, bedaquiline, or pentamidine).
- if you are taking triazole antifungal medicines (e.g. fluconazole, itraconazole, voriconazole).
- if you are taking certain medicines to treat allergic reactions (e.g. terfenadine, astemizole, mizolastine).
- if you are taking certain medicines to treat malaria (e.g. halofantrine, quinine, chloroquine, artesunate/amodiaquine, dihydroartemisinin/piperaquine).
- if you are taking any of the following: cisapride (used to treat stomach disorders), droperidol (used against vomiting and migraine), domperidone (used against nausea and vomiting), diphemanil (used to treat stomach disorders or excessive sweating), probucol (lowers the level of cholesterol in the bloodstream), levomethadyl or methadone (used for the treatment of opiate addiction), vinca alkaloids (anti-cancer medicines), or arsenic trioxide (used to treat certain types of leukaemia).
- if you are taking HIV-medicines containing lopinavir/ritonavir, or saquinavir.

You may be more at risk for dangerous changes of the heart rhythm.

Pregnancy and breast-feeding

Delyba may cause harm to an unborn baby. It is not usually recommended for use during pregnancy. It is important to tell your doctor if you are pregnant, think you may be pregnant, or are planning to get pregnant. Your doctor will weigh up the benefits to you against the risks to your baby of taking Delyba whilst you are pregnant.

It is not known if delamanid passes into breast milk in humans. Breast-feeding is not recommended during treatment with Delyba.

Driving and using machines

Delyba is expected to have a moderate influence on your ability to drive and use machines. If you experience side effects that might affect your ability to concentrate and react, do not drive or use machines.

3. How to take Delyba

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

The recommended dose as advised by your doctor is:

Children with a body weight of 20 kg or more and less than 30 kg: two 25 mg dispersible tablets in the morning and one 25 mg dispersible tablet in the evening.

Children with a body weight of 10 kg or more and less than 20 kg: one 25 mg dispersible tablet in the morning and one 25 mg dispersible tablet in the evening.

For children with a body weight of 30 kg or more please see the package leaflet for Delyba 50 mg film-coated tablets.

The dispersible tablets must be taken during or just after a meal.

Place the 25 mg dispersible tablet(s) in a glass or a cup. Pour 10 to 15 mL of water (approximately 1 tablespoon) per 25 mg dispersible tablet in the cup or the glass. Wait until the dispersible tablet(s) dissolve(s) completely (approximately 30 seconds) and gently swirl to make a uniform suspension. The resulting whitish suspension must be ingested immediately. Thereafter, a further 10 to 15 mL of water (approximately 1 tablespoon) per 25 mg dispersible tablet must be added to the glass or cup, swirl gently ensuring that potentially remaining suspension is dispersed and the resulting suspension must also be ingested immediately.

If you take more Delyba than you should

If you have taken more tablets than your prescribed dose, contact your doctor or your local hospital. Remember to take the pack with you so that it is clear what medicine you have taken.

If you forget to take Delyba

If you forget a dose, take it as soon as you remember it. However, if it is nearly time for the next dose, just skip the missed dose.

Do not take a double dose to make up for a forgotten tablet.

If you stop taking Delyba

DO NOT stop taking the tablets unless your doctor tells you to. Stopping too early could allow the bacteria to recover and to become resistant to delamanid.

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

4. Possible side effects

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

Side effects very commonly (may affect more than 1 in 10 people) reported in clinical studies with Delyba were:

- Decreased appetite
- Disturbed sleep
- Feeling dizzy
- Feeling sick (nausea)
- Headache
- Stomach irritation (gastritis)
- Vomiting

Side effects commonly (may affect up to 1 in 10 people) reported in clinical studies with Delyba were:

- Chest pain
- Decrease in the thyroid gland activity (hypothyroidism)
- Defect in cardiac rhythm that predisposes to fainting, dizziness and palpitations (electrocardiogram QT prolonged)
- Depression
- Feeling anxious (anxiety)
- Hallucination (seeing, hearing or feeling things that are not there)*
- Heart rhythm disturbance (atrioventricular block first degree)
- Indigestion (dyspepsia)
- Irregular heartbeats (ventricular extrasystoles)

- Muscular weakness
- Muscle spasms
- Numbness, decreased sensation in hands and/or feet (hypoesthesia)
- Pounding heartbeat (palpitations)
- Rise in the level of cortisol in your blood
- Shakiness (often in the hands) (tremor)
- Signs of psychosis: a loss of contact with reality, such as hearing voices or seeing things that are not there
- Throat irritation

*Cases were mostly reported in children.

Side effects uncommonly (may affect up to 1 in 100 people) reported in clinical studies with Delyba were:

- Lack of energy (lethargy)

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. 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 [Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Delyba

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 or blister after 'EXP:'. The expiry date refers to the last day of that month.

Store in the original package in order to protect from moisture and light.

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 Delyba 25 mg dispersible tablets contain

- One dispersible tablet contains 25 mg of the active substance delamanid.
- The other ingredients are hypromellose phthalate, povidone (K-25), all-rac- α -tocopherol, mannitol, crospovidone, sucralose, colloidal hydrated silica, cherry micron OT-22685, calcium stearate.

What Delyba 25 mg dispersible tablets look like and contents of the pack

Delyba 25 mg dispersible tablets are round, and white to off-white.

Delyba is supplied in packs of 48 dispersible tablets in aluminium/aluminium blisters.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder:

Otsuka Novel Products GmbH

Erika-Mann-Straße 21

80636 München

Germany

Tel: +49 (0)89 206020 500

Manufacturer:
R-Pharm Germany GmbH
Heinrich-Mack-Straße 35
89257 Illertissen
Germany

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

BE

Otsuka Novel Products GmbH
Tél/Tel: +49 (0)89 206020 500

BG

Otsuka Novel Products GmbH
Тел.: +49 (0)89 206020 500

CZ

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

DK

Otsuka Novel Products GmbH
Tlf: +49 (0)89 206020 500

DE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

EE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

EL

Otsuka Novel Products GmbH
Τηλ: +49 (0)89 206020 500

ES

Otsuka Pharmaceutical S.A.
Tel: +34 93 208 10 20

FR

Otsuka Pharmaceutical France SAS
Tél. : +33 (0)1 47 08 00 00

HR

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

IE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

LT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

LU

Otsuka Novel Products GmbH
Tél/Tel: +49 (0)89 206020 500

HU

Otsuka Novel Products GmbH
Tel.: +49 (0)89 206020 500

MT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

NL

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

NO

Otsuka Novel Products GmbH
Tlf: +49 (0)89 206020 500

AT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

PL

Otsuka Novel Products GmbH
Tel.: +49 (0)89 206020 500

PT

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

RO

Ewopharma România SRL
Tel.: +40 (0)21 260 13 44; +40 (0)21 260 14 07

SI

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

IS

Otsuka Novel Products GmbH
Sími: +49 (0)89 206020 500

IT

Otsuka Pharmaceutical Italy S.r.l.
Tel: +39 (0)2 00632710

CY

Otsuka Novel Products GmbH
Τηλ: +49 (0)89 206020 500

LV

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

SK

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

FI

Otsuka Novel Products GmbH
Puh/Tel: +49 (0)89 206020 500

SE

Otsuka Novel Products GmbH
Tel: +49 (0)89 206020 500

UK (XI)

Otsuka Novel Products GmbH
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