

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

## 1. NAME OF THE MEDICINAL PRODUCT

EDURANT 25 mg film-coated tablets

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains rilpivirine hydrochloride equivalent to 25 mg rilpivirine.

Excipient with known effect: each film-coated tablet contains 56 mg lactose monohydrate.

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Film-coated tablet

White to off-white, round, biconvex, film-coated tablet with a diameter of 6.4 mm, debossed with “TMC” on one side and “25” on the other side.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

EDURANT, in combination with other antiretroviral medicinal products, is indicated for the treatment of human immunodeficiency virus type 1 (HIV-1) infection in antiretroviral treatment-naïve patients 12 years of age and older with a viral load  $\leq$  100,000 HIV-1 RNA copies/ml.

Genotypic resistance testing should guide the use of EDURANT (see sections 4.4 and 5.1).

### 4.2 Posology and method of administration

Therapy should be initiated by a physician experienced in the management of HIV infection.

#### Posology

The recommended dose of EDURANT is one 25 mg tablet taken once daily. EDURANT **must be taken with a meal** (see section 5.2).

#### *Dose adjustment*

For patients concomitantly receiving rifabutin, the EDURANT dose should be increased to 50 mg (two tablets of 25 mg each) taken once daily. When rifabutin co-administration is stopped, the EDURANT dose should be decreased to 25 mg once daily (see section 4.5).

#### *Missed dose*

If the patient misses a dose of EDURANT within 12 hours of the time it is usually taken, the patient must take the medicine with a meal as soon as possible and resume the normal dosing schedule. If a patient misses a dose of EDURANT by more than 12 hours, the patient should not take the missed dose, but resume the usual dosing schedule.

If a patient vomits within 4 hours of taking the medicine, another EDURANT tablet should be taken with a meal. If a patient vomits more than 4 hours after taking the medicine, the patient does not need to take another dose of EDURANT until the next regularly scheduled dose.

## Special populations

### *Elderly*

There is limited information regarding the use of EDURANT in patients > 65 years of age. No dose adjustment of EDURANT is required in older patients (see section 5.2). EDURANT should be used with caution in this population.

### *Renal impairment*

EDURANT has mainly been studied in patients with normal renal function. No dose adjustment of rilpivirine is required in patients with mild or moderate renal impairment. In patients with severe renal impairment or end-stage renal disease, rilpivirine should be used with caution. In patients with severe renal impairment or end-stage renal disease, the combination of rilpivirine with a strong CYP3A inhibitor (e.g., ritonavir-boosted HIV protease inhibitor) should only be used if the benefit outweighs the risk (see section 5.2).

Treatment with rilpivirine resulted in an early small increase of mean serum creatinine levels which remained stable over time and is not considered clinically relevant (see section 4.8).

### *Hepatic impairment*

There is limited information regarding the use of EDURANT in patients with mild or moderate hepatic impairment (Child-Pugh score A or B). No dose adjustment of EDURANT is required in patients with mild or moderate hepatic impairment. EDURANT should be used with caution in patients with moderate hepatic impairment. EDURANT has not been studied in patients with severe hepatic impairment (Child-Pugh score C). Therefore, EDURANT is not recommended in patients with severe hepatic impairment (see section 5.2).

### *Paediatric population*

The safety and efficacy of EDURANT in children aged < 12 years have not yet been established. No data are available.

### *Pregnancy*

Lower exposures of rilpivirine were observed during pregnancy, therefore viral load should be monitored closely. Alternatively, switching to another ART regimen could be considered (see sections 4.4, 4.6, 5.1 and 5.2).

## Method of administration

EDURANT must be taken orally, once daily **with a meal** (see section 5.2). It is recommended that the film-coated tablet be swallowed whole with water and not be chewed or crushed.

## **4.3 Contraindications**

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

EDURANT should not be co-administered with the following medicinal products, as significant decreases in rilpivirine plasma concentrations may occur (due to CYP3A enzyme induction or gastric pH increase), which may result in loss of therapeutic effect of EDURANT (see section 4.5):

- the anticonvulsants carbamazepine, oxcarbazepine, phenobarbital, phenytoin
- the antimycobacterials rifampicin, rifapentine
- proton pump inhibitors, such as omeprazole, esomeprazole, lansoprazole, pantoprazole, rabeprazole
- the systemic glucocorticoid dexamethasone, except as a single dose treatment
- St John's wort (*Hypericum perforatum*).

## **4.4 Special warnings and precautions for use**

While effective viral suppression with antiretroviral therapy has been proven to substantially reduce the risk of sexual transmission, a residual risk cannot be excluded. Precautions to prevent transmission should be taken in accordance with national guidelines.

### Virologic failure and development of resistance

EDURANT has not been evaluated in patients with previous virologic failure to any other antiretroviral therapy. The list of rilpivirine resistance-associated mutations presented in section 5.1 should only guide the use of EDURANT in the treatment-naïve population.

In the pooled efficacy analysis from the Phase III trials in adults through 96 weeks, patients treated with rilpivirine with a baseline viral load > 100,000 HIV-1 RNA copies/ml had a greater risk of virologic failure (18.2% with rilpivirine versus 7.9% with efavirenz) compared to patients with a baseline viral load ≤ 100,000 HIV-1 RNA copies/ml (5.7% with rilpivirine versus 3.6% with efavirenz). The greater risk of virologic failure for patients in the rilpivirine arm was observed in the first 48 weeks of these trials (see section 5.1). Patients with a baseline viral load > 100,000 HIV-1 RNA copies/ml who experienced virologic failure exhibited a higher rate of treatment-emergent resistance to the non-nucleoside reverse transcriptase inhibitor (NNRTI) class. More patients who failed virologically on rilpivirine than who failed virologically on efavirenz developed lamivudine/emtricitabine associated resistance (see section 5.1).

Findings in adolescents (12 to less than 18 years of age) in trial C213 were generally in line with these data (for details see section 5.1).

Only adolescents deemed likely to have good adherence to antiretroviral therapy should be treated with rilpivirine, as suboptimal adherence can lead to development of resistance and the loss of future treatment options.

As with other antiretroviral medicinal products, resistance testing should guide the use of rilpivirine (see section 5.1).

### Cardiovascular

At supra-therapeutic doses (75 and 300 mg once daily), rilpivirine has been associated with prolongation of the QTc interval of the electrocardiogram (ECG) (see sections 4.5, 4.8 and 5.2). EDURANT at the recommended dose of 25 mg once daily is not associated with a clinically relevant effect on QTc. EDURANT should be used with caution when co-administered with medicinal products with a known risk of Torsade de Pointes.

### Immune reactivation syndrome

In HIV infected patients with severe immune deficiency at the time of initiation of CART, an inflammatory reaction to asymptomatic or residual opportunistic pathogens may arise and cause serious clinical conditions or aggravation of symptoms. Typically, such reactions have been observed within the first weeks or months of initiation of CART. Relevant examples are cytomegalovirus retinitis, generalised and/or focal mycobacterial infections and *Pneumocystis jiroveci* pneumonia. Any inflammatory symptoms should be evaluated and treatment instituted when necessary.

Autoimmune disorders (such as Graves' disease) have also been reported to occur in the setting of immune reactivation; however, the reported time to onset is more variable and these events can occur many months after initiation of treatment (see section 4.8).

### Pregnancy

Eduvant should be used during pregnancy only if the potential benefit justifies the potential risk. Lower exposures of rilpivirine were observed when rilpivirine 25 mg once daily was taken during pregnancy. In the phase 3 studies, lower rilpivirine exposure, similar to that seen during pregnancy, has been associated with an increased risk of virological failure, therefore viral load should be monitored closely (see sections 4.6, 5.1 and 5.2). Alternatively, switching to another ART regimen could be considered.

### Important information about some of the ingredients of EDURANT

EDURANT contains lactose. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

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

### Medicinal products that affect rilpivirine exposure

Rilpivirine is primarily metabolised by cytochrome P450 (CYP)3A. Medicinal products that induce or inhibit CYP3A may thus affect the clearance of rilpivirine (see section 5.2). Co-administration of rilpivirine and medicinal products that induce CYP3A has been observed to decrease the plasma concentrations of rilpivirine, which could reduce the therapeutic effect of rilpivirine.

Co-administration of rilpivirine and medicinal products that inhibit CYP3A has been observed to increase the plasma concentrations of rilpivirine.

Co-administration of rilpivirine with medicinal products that increase gastric pH may result in decreased plasma concentrations of rilpivirine which could potentially reduce the therapeutic effect of EDURANT.

### Medicinal products that are affected by the use of rilpivirine

Rilpivirine at a dose of 25 mg once daily is not likely to have a clinically relevant effect on the exposure of medicinal products metabolised by CYP enzymes.

Rilpivirine inhibits P-glycoprotein *in vitro* (IC<sub>50</sub> is 9.2 µM). In a clinical study, rilpivirine did not significantly affect the pharmacokinetics of digoxin. However, it may not be completely excluded that rilpivirine can increase the exposure to other medicines transported by P-glycoprotein that are more sensitive to intestinal P-gp inhibition, e.g. dabigatran etexilate.

Rilpivirine is an *in vitro* inhibitor of the transporter MATE-2K with an IC<sub>50</sub> of < 2.7 nM. The clinical implications of this finding are currently unknown.

Established and theoretical interactions with selected antiretrovirals and non-antiretroviral medicinal products are listed in table 1.

### **Interaction table**

Interaction studies have only been performed in adults.

Interactions between rilpivirine and co-administered medicinal products are listed in table 1 (increase is indicated as “↑”, decrease as “↓”, no change as “↔”, not applicable as “NA”, confidence interval as “CI”).

<b>Table 1: INTERACTIONS AND DOSE RECOMMENDATIONS WITH OTHER MEDICINAL PRODUCTS</b>		
<b>Medicinal products by therapeutic areas</b>	<b>Interaction Geometric mean change (%)</b>	<b>Recommendations concerning co-administration</b>
<b>ANTI-INFECTIVES</b>		
<b>Antiretrovirals</b>		
<i>HIV NRTIs/N[t]RTIs</i>		
Didanosine* <sup>#</sup> 400 mg once daily	didanosine AUC ↑ 12% didanosine C <sub>min</sub> NA didanosine C <sub>max</sub> ↔ rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↔ rilpivirine C <sub>max</sub> ↔	No dose adjustment is required. Didanosine should be administered at least two hours before or at least four hours after rilpivirine.
Tenofovir disoproxil fumarate* <sup>#</sup> 300 mg once daily	tenofovir AUC ↑ 23% tenofovir C <sub>min</sub> ↑ 24% tenofovir C <sub>max</sub> ↑ 19% rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↔ rilpivirine C <sub>max</sub> ↔	No dose adjustment is required.
Other NRTIs (abacavir, emtricitabine, lamivudine, stavudine and zidovudine)	Not studied. No clinically relevant drug-drug interactions are expected.	No dose adjustment is required.

<i>HIV NNRTIs</i>		
NNRTIs (delavirdine, efavirenz, etravirine, nevirapine)	Not studied.	It is not recommended to co-administer rilpivirine with other NNRTIs.
<i>HIV PIs – with co-administration of low dose ritonavir</i>		
Darunavir/ritonavir* <sup>#</sup> 800/100 mg once daily	darunavir AUC ↔ darunavir C <sub>min</sub> ↓ 11% darunavir C <sub>max</sub> ↔ rilpivirine AUC ↑ 130% rilpivirine C <sub>min</sub> ↑ 178% rilpivirine C <sub>max</sub> ↑ 79%  (inhibition of CYP3A enzymes)	Concomitant use of rilpivirine with ritonavir-boosted PIs causes an increase in the plasma concentrations of rilpivirine, but no dose adjustment is required.
Lopinavir/ritonavir (soft gel capsule)* <sup>#</sup> 400/100 mg twice daily	lopinavir AUC ↔ lopinavir C <sub>min</sub> ↓ 11% lopinavir C <sub>max</sub> ↔ rilpivirine AUC ↑ 52% rilpivirine C <sub>min</sub> ↑ 74% rilpivirine C <sub>max</sub> ↑ 29%  (inhibition of CYP3A enzymes)	
Other boosted PIs (atazanavir/ritonavir, fosamprenavir/ritonavir, saquinavir/ritonavir, tipranavir/ritonavir)	Not studied.	
<i>HIV PIs – without co-administration of low dose ritonavir</i>		
Unboosted PIs (atazanavir, fosamprenavir, indinavir, nelfinavir)	Not studied. Increased exposure of rilpivirine is expected.  (inhibition of CYP3A enzymes)	No dose adjustment is required.
<i>CCR5 Antagonists</i>		
Maraviroc	Not studied. No clinically relevant drug-drug interaction is expected.	No dose adjustment is required.
<i>HIV Integrase Strand Transfer Inhibitors</i>		
Raltegravir*	raltegravir AUC ↑ 9% raltegravir C <sub>min</sub> ↑ 27% raltegravir C <sub>max</sub> ↑ 10% rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↔ rilpivirine C <sub>max</sub> ↔	No dose adjustment is required.
<b>Other Antiviral Agents</b>		
Ribavirin	Not studied. No clinically relevant drug-drug interaction is expected.	No dose adjustment is required.
Simeprevir*	simeprevir AUC ↔ simeprevir C <sub>min</sub> ↔ simeprevir C <sub>max</sub> ↑ 10% rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↑ 25% rilpivirine C <sub>max</sub> ↔	No dose adjustment is required.
<b>OTHER AGENTS</b>		
<b>ANTICONSULSANTS</b>		
Carbamazepine Oxcarbazepine Phenobarbital Phenytoin	Not studied. Significant decreases in rilpivirine plasma concentrations are expected.  (induction of CYP3A enzymes)	Rilpivirine must not be used in combination with these anticonvulsants as co-administration may result in loss of therapeutic effect of rilpivirine (see section 4.3).

<b>AZOLE ANTIFUNGAL AGENTS</b>		
Ketoconazole* <sup>#</sup> 400 mg once daily	ketoconazole AUC ↓ 24% ketoconazole C <sub>min</sub> ↓ 66% ketoconazole C <sub>max</sub> ↔  (induction of CYP3A due to high rilpivirine dose in the study)  rilpivirine AUC ↑ 49% rilpivirine C <sub>min</sub> ↑ 76% rilpivirine C <sub>max</sub> ↑ 30%  (inhibition of CYP3A enzymes)	At the recommended dose of 25 mg once daily, no dose adjustment is required when rilpivirine is co-administered with ketoconazole.
Fluconazole Itraconazole Posaconazole Voriconazole	Not studied. Concomitant use of EDURANT with azole antifungal agents may cause an increase in the plasma concentrations of rilpivirine.  (inhibition of CYP3A enzymes)	No dose adjustment is required.
<b>ANTIMYCOBACTERIALS</b>		
Rifabutin* 300 mg once daily <sup>†</sup>  300 mg once daily (+ 25 mg once daily rilpivirine)  300 mg once daily (+ 50 mg once daily rilpivirine)	rifabutin AUC ↔ rifabutin C <sub>min</sub> ↔ rifabutin C <sub>max</sub> ↔ 25- <i>O</i> -desacetyl-rifabutin AUC ↔ 25- <i>O</i> -desacetyl-rifabutin C <sub>min</sub> ↔ 25- <i>O</i> -desacetyl-rifabutin C <sub>max</sub> ↔  rilpivirine AUC ↓ 42% rilpivirine C <sub>min</sub> ↓ 48% rilpivirine C <sub>max</sub> ↓ 31%  rilpivirine AUC ↑ 16%* rilpivirine C <sub>min</sub> ↔* rilpivirine C <sub>max</sub> ↑ 43%*  * compared to 25 mg once daily rilpivirine alone  (induction of CYP3A enzymes)	Throughout co-administration of rilpivirine with rifabutin, the rilpivirine dose should be increased from 25 mg once daily to 50 mg once daily. When rifabutin co-administration is stopped, the rilpivirine dose should be decreased to 25 mg once daily.
Rifampicin* <sup>#</sup> 600 mg once daily	rifampicin AUC ↔ rifampicin C <sub>min</sub> NA rifampicin C <sub>max</sub> ↔ 25-desacetyl-rifampicin AUC ↓ 9% 25-desacetyl-rifampicin C <sub>min</sub> NA 25-desacetyl-rifampicin C <sub>max</sub> ↔ rilpivirine AUC ↓ 80% rilpivirine C <sub>min</sub> ↓ 89% rilpivirine C <sub>max</sub> ↓ 69%  (induction of CYP3A enzymes)	Rilpivirine must not be used in combination with rifampicin as co-administration is likely to result in loss of therapeutic effect of rilpivirine (see section 4.3).
Rifapentine	Not studied. Significant decreases in rilpivirine plasma concentrations are expected.  (induction of CYP3A enzymes)	Rilpivirine must not be used in combination with rifapentine as co-administration is likely to result in loss of therapeutic effect of rilpivirine (see section 4.3).
<b>MACROLIDE ANTIBIOTICS</b>		
Clarithromycin Erythromycin	Not studied. Increased exposure of rilpivirine is expected.  (inhibition of CYP3A enzymes)	Where possible, alternatives such as azithromycin should be considered.

<b>GLUCOCORTICOIDS</b>		
Dexamethasone (systemic, except for single dose use)	Not studied. Dose dependent decreases in rilpivirine plasma concentrations are expected.  (induction of CYP3A enzymes)	Rilpivirine should not be used in combination with systemic dexamethasone (except as a single dose) as co-administration may result in loss of therapeutic effect of rilpivirine (see section 4.3). Alternatives should be considered, particularly for long-term use.
<b>PROTON PUMP INHIBITORS</b>		
Omeprazole* <sup>#</sup> 20 mg once daily	omeprazole AUC ↓ 14% omeprazole C <sub>min</sub> NA omeprazole C <sub>max</sub> ↓ 14% rilpivirine AUC ↓ 40% rilpivirine C <sub>min</sub> ↓ 33% rilpivirine C <sub>max</sub> ↓ 40%  (reduced absorption due to gastric pH increase)	Rilpivirine must not be used in combination with proton pump inhibitors as co-administration is likely to result in loss of therapeutic effect of rilpivirine (see section 4.3).
Lansoprazole Rabeprazole Pantoprazole Esomeprazole	Not studied. Significant decreases in rilpivirine plasma concentrations are expected.  (reduced absorption due to gastric pH increase)	
<b>H<sub>2</sub>-RECEPTOR ANTAGONISTS</b>		
Famotidine* <sup>#</sup> 40 mg single dose taken 12 hours before rilpivirine	rilpivirine AUC ↓ 9% rilpivirine C <sub>min</sub> NA rilpivirine C <sub>max</sub> ↔	The combination of rilpivirine and H <sub>2</sub> -receptor antagonists should be used with particular caution. Only H <sub>2</sub> -receptor antagonists that can be dosed once daily should be used. A strict dosing schedule, with intake of H <sub>2</sub> -receptor antagonists at least 12 hours before or at least 4 hours after rilpivirine should be used.
Famotidine* <sup>#</sup> 40 mg single dose taken 2 hours before rilpivirine	rilpivirine AUC ↓ 76% rilpivirine C <sub>min</sub> NA rilpivirine C <sub>max</sub> ↓ 85%  (reduced absorption due to gastric pH increase)	
Famotidine* <sup>#</sup> 40 mg single dose taken 4 hours after rilpivirine	rilpivirine AUC ↑ 13% rilpivirine C <sub>min</sub> NA rilpivirine C <sub>max</sub> ↑ 21%	
Cimetidine Nizatidine Ranitidine	Not studied.  (reduced absorption due to gastric pH increase)	
<b>ANTACIDS</b>		
Antacids (e.g., aluminium or magnesium hydroxide, calcium carbonate)	Not studied. Significant decreases in rilpivirine plasma concentrations are expected.  (reduced absorption due to gastric pH increase)	The combination of rilpivirine and antacids should be used with particular caution. Antacids should only be administered either at least 2 hours before or at least 4 hours after rilpivirine.
<b>NARCOTIC ANALGESICS</b>		
Methadone* 60-100 mg once daily, individualised dose	R(-) methadone AUC ↓ 16% R(-) methadone C <sub>min</sub> ↓ 22% R(-) methadone C <sub>max</sub> ↓ 14% rilpivirine AUC ↔* rilpivirine C <sub>min</sub> ↔* rilpivirine C <sub>max</sub> ↔* * based on historic controls	No dose adjustments are required when initiating co-administration of methadone with rilpivirine. However, clinical monitoring is recommended as methadone maintenance therapy may need to be adjusted in some patients.
<b>ANTIARRHYTHMICS</b>		
Digoxin*	digoxin AUC ↔ digoxin C <sub>min</sub> NA digoxin C <sub>max</sub> ↔	No dose adjustment is required.



<b>ANTICOAGULANTS</b>		
Dabigatran etexilate	Not studied. A risk for increases in dabigatran plasma concentrations cannot be excluded.  (inhibition of intestinal P-gp)	The combination of rilpivirine and dabigatran etexilate should be used with caution.
<b>ANTIDIABETICS</b>		
Metformin* 850 mg single dose	metformin AUC ↔ metformin C <sub>min</sub> NA metformin C <sub>max</sub> ↔	No dose adjustment is required.
<b>HERBAL PRODUCTS</b>		
St John's wort ( <i>Hypericum perforatum</i> )	Not studied. Significant decreases in rilpivirine plasma concentrations are expected.  (induction of CYP3A enzymes)	Rilpivirine must not be used in combination with products containing St John's wort as co-administration may result in loss of therapeutic effect of rilpivirine (see section 4.3).
<b>ANALGESICS</b>		
Paracetamol* <sup>#</sup> 500 mg single dose	paracetamol AUC ↔ paracetamol C <sub>min</sub> NA paracetamol C <sub>max</sub> ↔ rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↑ 26% rilpivirine C <sub>max</sub> ↔	No dose adjustment is required.
<b>ORAL CONTRACEPTIVES</b>		
Ethinylestradiol* 0.035 mg once daily Norethindrone* 1 mg once daily	ethinylestradiol AUC ↔ ethinylestradiol C <sub>min</sub> ↔ ethinylestradiol C <sub>max</sub> ↑ 17% norethindrone AUC ↔ norethindrone C <sub>min</sub> ↔ norethindrone C <sub>max</sub> ↔ rilpivirine AUC ↔* rilpivirine C <sub>min</sub> ↔* rilpivirine C <sub>max</sub> ↔* * based on historic controls	No dose adjustment is required.
<b>HMG CO-A REDUCTASE INHIBITORS</b>		
Atorvastatin* <sup>#</sup> 40 mg once daily	atorvastatin AUC ↔ atorvastatin C <sub>min</sub> ↓ 15% atorvastatin C <sub>max</sub> ↑ 35% rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↔ rilpivirine C <sub>max</sub> ↓ 9%	No dose adjustment is required.
<b>PHOSPHODIESTERASE TYPE 5 (PDE-5) INHIBITORS</b>		
Sildenafil* <sup>#</sup> 50 mg single dose	sildenafil AUC ↔ sildenafil C <sub>min</sub> NA sildenafil C <sub>max</sub> ↔ rilpivirine AUC ↔ rilpivirine C <sub>min</sub> ↔ rilpivirine C <sub>max</sub> ↔	No dose adjustment is required.
Vardenafil Tadalafil	Not studied.	No dose adjustment is required.

\* The interaction between rilpivirine and the medicinal product was evaluated in a clinical study. All other drug-drug interactions shown are predicted.

# This interaction study has been performed with a dose higher than the recommended dose for rilpivirine assessing the maximal effect on the co-administered medicinal product. The dosing recommendation is applicable to the recommended dose of rilpivirine of 25 mg once daily.

† This interaction study has been performed with a dose higher than the recommended dose for rilpivirine.

### QT prolonging medicinal products

There is limited information available on the potential for a pharmacodynamic interaction between rilpivirine and medicinal products that prolong the QTc interval of the ECG. In a study of healthy subjects, supratherapeutic doses of rilpivirine (75 mg once daily and 300 mg once daily) have been

shown to prolong the QTc interval of the ECG (see section 5.1). EDURANT should be used with caution when co-administered with a medicinal product with a known risk of Torsade de Pointes.

#### **4.6 Fertility, pregnancy and lactation**

##### Pregnancy

There are limited amount of data (less than 300 pregnancy outcomes) from the use of rilpivirine in pregnant women (see sections 4.4, 5.1 and 5.2). Lower exposures of rilpivirine were observed during pregnancy, therefore viral load should be monitored closely.

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3).

As a precautionary measure, it is preferable to avoid the use of EDURANT during pregnancy.

##### Breast-feeding

It is not known whether rilpivirine is excreted in human milk. Rilpivirine is excreted in the milk of rats. Because of both the potential for HIV transmission and the potential for adverse reactions in breastfed infants, mothers should be instructed not to breast-feed if they are receiving rilpivirine.

##### Fertility

No human data on the effect of rilpivirine on fertility are available. No clinically relevant effects on fertility were seen in animal studies (see section 5.3).

#### **4.7 Effects on ability to drive and use machines**

EDURANT has no or negligible influence on the ability to drive and use machines. However, fatigue, dizziness and somnolence have been reported in some patients taking EDURANT and should be considered when assessing a patient's ability to drive or operate machinery.

#### **4.8 Undesirable effects**

##### Summary of the safety profile

During the clinical development program (1,368 patients in the Phase III controlled trials TMC278-C209 (ECHO) and TMC278-C215 (THRIVE)), 55.7% of subjects experienced at least one adverse drug reaction (see section 5.1). The most frequently reported adverse drug reactions (ADRs) ( $\geq 2\%$ ) that were at least of moderate intensity were depression (4.1%), headache (3.5%), insomnia (3.5%), rash (2.3%), and abdominal pain (2.0%). The most frequent serious treatment-related ADRs were reported in 7 (1.0%) patients receiving rilpivirine. The median duration of exposure for patients in the rilpivirine arm and efavirenz arm was 104.3 and 104.1 weeks, respectively. Most ADRs occurred in the first 48 weeks of treatment.

Selected treatment emergent clinical laboratory abnormalities (grade 3 or grade 4), considered as ADRs, reported in EDURANT treated patients were increased pancreatic amylase (3.8%), increased AST (2.3%), increased ALT (1.6%), increased LDL cholesterol (fasted, 1.5%), decreased white blood cell count (1.2%), increased lipase (0.9%), increased bilirubin (0.7%), increased triglycerides (fasted, 0.6%), decreased haemoglobin (0.1%), decreased platelet count (0.1%), and increased total cholesterol (fasted, 0.1%).

##### Tabulated summary of adverse reactions

ADRs reported in adult patients treated with rilpivirine are summarised in Table 2. The ADRs are listed by system organ class (SOC) and frequency. Frequencies are defined as very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to  $< 1/10$ ) and uncommon ( $\geq 1/1,000$  to  $< 1/100$ ). Within each frequency grouping, ADRs are presented in order of decreasing frequency.

<b>Table 2: ADRs reported in antiretroviral treatment-naïve HIV-1 infected adult patients treated with Rilpivirine (pooled data from the week 96 analysis of the Phase III ECHO and THRIVE trials) N=686</b>		
<b>System Organ Class (SOC)</b>	<b>Frequency Category</b>	<b>ADRs (Rilpivirine + BR)</b>
Blood and lymphatic system disorders	common	decreased white blood cell count decreased haemoglobin decreased platelet count
Immune system disorders	uncommon	immune reactivation syndrome
Metabolism and nutrition disorders	very common	increased total cholesterol (fasted) increased LDL cholesterol (fasted)
	common	decreased appetite increased triglycerides (fasted)
Psychiatric disorders	very common	insomnia
	common	abnormal dreams depression sleep disorders depressed mood
Nervous system disorders	very common	headache dizziness
	common	somnolence
Gastrointestinal disorders	very common	nausea increased pancreatic amylase
	common	abdominal pain vomiting increased lipase abdominal discomfort dry mouth
Hepatobiliary disorders	very common	increased transaminases
	common	increased bilirubin
Skin and subcutaneous tissue disorders	common	rash
General disorders and administration site conditions	common	fatigue

BR=background regimen  
N=number of subjects

#### *Laboratory abnormalities*

In the rilpivirine arm in the week 96 analysis of the Phase III ECHO and THRIVE trials, mean change from baseline in total cholesterol (fasted) was 5 mg/dl, in HDL cholesterol (fasted) 4 mg/dl, in LDL cholesterol (fasted) 1 mg/dl, and in triglycerides (fasted) -7 mg/dl.

#### Description of selected adverse reactions

##### *Immune reactivation syndrome*

In HIV infected patients with severe immune deficiency at the time of initiation of combination antiretroviral therapy (CART), an inflammatory reaction to asymptomatic or residual opportunistic infections may arise. Autoimmune disorders (such as Graves' disease) have also been reported; however, the reported time to onset is more variable and these events can occur many months after initiation of treatment (see section 4.4).

##### Paediatric population (12 to less than 18 years of age)

The safety assessment is based on the week 48 analysis of the single-arm, open-label, Phase 2 trial, TMC278-C213, in which 36 antiretroviral treatment-naïve HIV-1 infected adolescent patients weighing at least 32 kg received rilpivirine (25 mg once daily) in combination with other antiretroviral agents (see section 5.1). The median duration of exposure for patients was 63.5 weeks. There were no patients who discontinued treatment due to ADRs. No new ADRs were identified compared to those seen in adults.

Most ADRs were Grade 1 or 2. The most common ADRs (all grades, greater than or equal to 10%) were headache (19.4%), depression (19.4%), somnolence (13.9%), and nausea (11.1%). No grade 3-4 laboratory abnormalities for AST/ALT or grade 3-4 ADRs of transaminase increased were reported.

The safety and efficacy of rilpivirine in children aged < 12 years have not yet been established. No data are available.

#### Other special populations

##### *Patients co-infected with hepatitis B and/or hepatitis C virus*

In patients co-infected with hepatitis B or C virus receiving rilpivirine, the incidence of hepatic enzyme elevation was higher than in patients receiving rilpivirine who were not co-infected. This observation was the same in the efavirenz arm. The pharmacokinetic exposure of rilpivirine in co-infected patients was comparable to that in patients without co-infection.

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via **the national reporting system listed in Appendix V.**

## **4.9 Overdose**

There is no specific antidote for overdose with EDURANT. Human experience of overdose with rilpivirine is limited. Symptoms of overdose may include headache, nausea, dizziness and/or abnormal dreams. Treatment of overdose with rilpivirine consists of general supportive measures including monitoring of vital signs and ECG (QT interval) as well as observation of the clinical status of the patient. Administration of activated charcoal may be used to aid in removal of unabsorbed active substance. Since rilpivirine is highly bound to plasma protein, dialysis is unlikely to result in significant removal of the active substance.

## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Antiviral for systemic use, non-nucleoside reverse transcriptase inhibitors, ATC code: J05AG05.

#### Mechanism of action

Rilpivirine is a diarylpyrimidine NNRTI of HIV-1. Rilpivirine activity is mediated by non-competitive inhibition of HIV-1 reverse transcriptase (RT). Rilpivirine does not inhibit the human cellular DNA polymerases  $\alpha$ ,  $\beta$  and  $\gamma$ .

#### Antiviral activity *in vitro*

Rilpivirine exhibited activity against laboratory strains of wild-type HIV-1 in an acutely infected T-cell line with a median EC<sub>50</sub> value for HIV-1/IIIB of 0.73 nM (0.27 ng/ml). Although rilpivirine demonstrated limited *in vitro* activity against HIV-2 with EC<sub>50</sub> values ranging from 2,510 to 10,830 nM (920 to 3,970 ng/ml), treatment of HIV-2 infection with rilpivirine is not recommended in the absence of clinical data.

Rilpivirine also demonstrated antiviral activity against a broad panel of HIV-1 group M (subtype A, B, C, D, F, G, H) primary isolates with EC<sub>50</sub> values ranging from 0.07 to 1.01 nM (0.03 to 0.37 ng/ml) and group O primary isolates with EC<sub>50</sub> values ranging from 2.88 to 8.45 nM (1.06 to 3.10 ng/ml).

## Resistance

### *In cell culture*

Rilpivirine-resistant strains were selected in cell culture starting from wild-type HIV-1 of different origins and subtypes as well as NNRTI resistant HIV-1. The most commonly observed resistance-associated mutations that emerged included L100I, K101E, V108I, E138K, V179F, Y181C, H221Y, F227C and M230I.

Resistance to rilpivirine was determined as a fold change in EC<sub>50</sub> value (FC) above the biological cut-off (BCO) of the assay.

### *In treatment-naïve adult subjects*

For the resistance analysis, a broader definition of virologic failure was used than in the primary efficacy analysis. In the week 48 pooled resistance analysis from the Phase III trials, 62 (of a total of 72) virologic failures in the rilpivirine arm had resistance data at baseline and time of failure. In this analysis, the resistance-associated mutations (RAMs) associated with NNRTI resistance that developed in at least 2 rilpivirine virologic failures were: V90I, K101E, E138K, E138Q, V179I, Y181C, V189I, H221Y, and F227C. In the trials, the presence of the mutations V90I and V189I, at baseline, did not affect response. The E138K substitution emerged most frequently during rilpivirine treatment, commonly in combination with the M184I substitution. In the week 48 analysis, 31 out of 62 of rilpivirine virologic failures had concomitant NNRTI and NRTI RAMs; 17 of those 31 had the combination of E138K and M184I. The most common mutations were the same in the week 48 and week 96 analyses.

In the week 96 pooled resistance analysis, lower rates of virologic failure were observed in the second 48 weeks than in the first 48 weeks of treatment. From the week 48 to the week 96 analysis, 24 (3.5%) and 14 (2.1%) additional virologic failures occurred in the rilpivirine and efavirenz arm, respectively. Of these virologic failures, 9 out of 24 and 4 out of 14 were in subjects with a baseline viral load < 100,000 copies/ml, respectively.

Considering all of the available *in vitro* and *in vivo* data in treatment-naïve subjects, the following resistance-associated mutations, when present at baseline, may affect the activity of rilpivirine: K101E, K101P, E138A, E138G, E138K, E138R, E138Q, V179L, Y181C, Y181I, Y181V, Y188L, H221Y, F227C, M230I, and M230L. These rilpivirine resistance-associated mutations should only guide the use of EDURANT in the treatment-naïve population. These resistance-associated mutations were derived from *in vivo* data involving treatment-naïve subjects only and therefore cannot be used to predict the activity of rilpivirine in subjects who have virologically failed an antiretroviral-containing regimen.

As with other antiretroviral medicinal products, resistance testing should guide the use of EDURANT.

## Cross-resistance

### *Site-directed NNRTI mutant virus*

In a panel of 67 HIV-1 recombinant laboratory strains with one resistance-associated mutation at RT positions associated with NNRTI resistance, including the most commonly found K103N and Y181C, rilpivirine showed antiviral activity against 64 (96%) of these strains. The single resistance-associated mutations associated with a loss of susceptibility to rilpivirine were: K101P, Y181I and Y181V. The K103N substitution did not result in reduced susceptibility to rilpivirine by itself, but the combination of K103N and L100I resulted in a 7-fold reduced susceptibility to rilpivirine.

### *Recombinant clinical isolates*

Rilpivirine retained sensitivity (FC ≤ BCO) against 62% of 4,786 HIV-1 recombinant clinical isolates resistant to efavirenz and/or nevirapine.

### *Treatment-naïve HIV-1 infected adult patients*

In the week 96 pooled resistance analysis of the Phase III trials (ECHO and THRIVE), 42 out of 86 subjects with virologic failure on rilpivirine showed treatment-emergent resistance to rilpivirine (genotypic analysis). In these patients, phenotypic cross-resistance to other NNRTIs was noted as

follows: etravirine 32/42, efavirenz 30/42, and nevirapine 16/42. In patients with a baseline viral load  $\leq 100,000$  copies/ml, 9 out of 27 patients with virologic failure on rilpivirine showed treatment-emergent resistance to rilpivirine (genotypic analysis), with the following frequency of phenotypic cross-resistance: etravirine 4/9, efavirenz 3/9, and nevirapine 1/9.

#### Effects on electrocardiogram

The effect of rilpivirine at the recommended dose of 25 mg once daily on the QTcF interval was evaluated in a randomised, placebo and active (moxifloxacin 400 mg once daily) controlled crossover study in 60 healthy adults, with 13 measurements over 24 hours at steady-state. EDURANT at the recommended dose of 25 mg once daily is not associated with a clinically relevant effect on QTc.

When supratherapeutic doses of 75 mg once daily and 300 mg once daily of rilpivirine were studied in healthy adults, the maximum mean time-matched (95% upper confidence bound) differences in QTcF interval from placebo after baseline correction were 10.7 (15.3) and 23.3 (28.4) ms, respectively. Steady-state administration of rilpivirine 75 mg once daily and 300 mg once daily resulted in a mean  $C_{max}$  approximately 2.6-fold and 6.7-fold, respectively, higher than the mean steady-state  $C_{max}$  observed with the recommended 25 mg once daily dose of rilpivirine.

#### Clinical efficacy and safety

##### *Treatment-naïve HIV-1 infected adult patients*

The evidence of efficacy of rilpivirine is based on the analyses of 96 week data from 2 randomised, double-blinded, active-controlled, Phase III trials TMC278-C209 (ECHO) and TMC278-C215 (THRIVE). The trials were identical in design, with the exception of the background regimen (BR). In the week 96 efficacy analysis, the virologic response rate [confirmed undetectable viral load ( $< 50$  HIV-1 RNA copies/ml)] was evaluated in patients receiving rilpivirine 25 mg once daily in addition to a BR versus patients receiving efavirenz 600 mg once daily in addition to a BR. Similar efficacy for rilpivirine was seen in each trial demonstrating non-inferiority to efavirenz.

Antiretroviral treatment-naïve HIV-1 infected patients were enrolled who had a plasma HIV-1 RNA  $\geq 5,000$  copies/ml and were screened for susceptibility to N(t)RTIs and for absence of specific NNRTI resistance-associated mutations. In ECHO, the BR was fixed to the N(t)RTIs, tenofovir disoproxil fumarate plus emtricitabine. In THRIVE, the BR consisted of 2 investigator-selected N(t)RTIs: tenofovir disoproxil fumarate plus emtricitabine or zidovudine plus lamivudine or abacavir plus lamivudine. In ECHO, randomisation was stratified by screening viral load. In THRIVE, randomisation was stratified by screening viral load and by N(t)RTI BR.

This analysis included 690 patients in ECHO and 678 patients in THRIVE who had completed 96 weeks of treatment or discontinued earlier.

In the pooled analysis for ECHO and THRIVE, demographics and baseline characteristics were balanced between the rilpivirine arm and the efavirenz arm. Table 3 displays selected baseline disease characteristics of the patients in the rilpivirine and efavirenz arms.

<b>Table 3: Baseline disease characteristics of antiretroviral treatment-naïve HIV-1 infected adult subjects in the ECHO and THRIVE trials (pooled analysis)</b>		
	<b>Pooled data from the ECHO and THRIVE trials</b>	
	<b>Rilpivirine + BR N=686</b>	<b>Efavirenz + BR N=682</b>
<b>Baseline disease characteristics</b>		
Median baseline plasma HIV-1 RNA (range), log <sub>10</sub> copies/ml	5.0 (2-7)	5.0 (3-7)
Median baseline CD4+ cell count (range), x 10 <sup>6</sup> cells/l	249 (1-888)	260 (1-1,137)
Percentage of subjects with: hepatitis B/C virus co-infection	7.3%	9.5%

Percentage of patients with the following background regimens:		
tenofovir disoproxil fumarate plus emtricitabine	80.2%	80.1%
zidovudine plus lamivudine	14.7%	15.1%
abacavir plus lamivudine	5.1%	4.8%

BR=background regimen

Table 4 below shows the results of the week 48 and the week 96 efficacy analysis for patients treated with rilpivirine and patients treated with efavirenz from the pooled data from the ECHO and THRIVE trials. The response rate (confirmed undetectable viral load < 50 HIV-1 RNA copies/ml) at week 96 was comparable between the rilpivirine arm and the efavirenz arm. The incidence of virologic failure was higher in the rilpivirine arm than the efavirenz arm at week 96; however, most of the virologic failures occurred within the first 48 weeks of treatment. Discontinuations due to adverse events were higher in the efavirenz arm at week 96 than the rilpivirine arm. Most of these discontinuations occurred in the first 48 weeks of treatment.

<b>Table 4: Virologic outcome in adult subjects in the ECHO and THRIVE trials (pooled data in the week 48 (primary) and week 96 analysis; ITT-TLOVR*)</b>						
	<i>Outcome in the week 48 analysis</i>			<i>Outcome in the week 96 analysis</i>		
	<b>Rilpivirine + BR N=686</b>	<b>Efavirenz + BR N=682</b>	<b>Observed difference (95% CI)<sup>±</sup></b>	<b>Rilpivirine + BR N=686</b>	<b>Efavirenz + BR N=682</b>	<b>Observed difference (95% CI)<sup>±</sup></b>
Response (confirmed < 50 HIV-1 RNA copies/ml) <sup>§#</sup>	84.3% (578/686)	82.3% (561/682)	2.0 (-2.0; 6.0)	77.6% (532/686)	77.6% (529/682)	0 (-4.4; 4.4)
Non-response						
Virologic failure <sup>†</sup>						
Overall	9.0% (62/686)	4.8% (33/682)	ND	11.5% (79/686)	5.9% (40/682)	ND
≤ 100,000	3.8% (14/368)	3.3% (11/330)	ND	5.7% (21/368)	3.6% (12/329)	ND
> 100,000	15.1% (48/318)	6.3% (22/352)	ND	18.2% (58/318)	7.9% (28/353)	ND
Death	0.1% (1/686)	0.4% (3/682)	ND	0.1% (1/686)	0.9% (6/682)	ND
Discontinued due to adverse event (AE)	2.0% (14/686)	6.7% (46/682)	ND	3.8% (26/682)	7.6% (52/682)	ND
Discontinued for non-AE reason <sup>¶</sup>	4.5% (31/686)	5.7% (39/682)	ND	7.0% (48/682)	8.1% (55/682)	ND
<b>Response by subcategory</b>						
<b>By background NRTI</b>						
Tenofovir/emtricitabine	83.5% (459/550)	82.4% (450/546)	1.0 (-3.4; 5.5)	76.9% (423/550)	77.3% (422/546)	-0.4% (-5.4; 4.6)
Zidovudine/lamivudine	87.1% (88/101)	80.6% (83/103)	6.5 (-3.6; 16.7)	81.2% (82/101)	76.7% (79/103)	4.5% (-6.8; 15.7)
Abacavir/lamivudine	88.6% (31/35)	84.8% (28/33)	3.7 (-12.7; 20.1)	77.1% (27/35)	84.8% (28/33)	-7.7% (-26.7; 11.3)
<b>By baseline viral load (copies/ml)</b>						
≤ 100,000	90.2% (332/368)	83.6% (276/330)	6.6 (1.6; 11.5)	84.0% (309/368)	79.9% (263/329)	4.0 (-1.7; 9.7)
> 100,000	77.4% (246/318)	81.0% (285/352)	-3.6 (-9.8; 2.5)	70.1% (223/318)	75.4% (266/353)	-5.2 (-12.0; 1.5)
<b>By baseline CD4 count (x 10<sup>6</sup> cells/l)</b>						
< 50	58.8% (20/34)	80.6% (29/36)	-21.7 (-43.0; -0.5)	55.9% (19/34)	69.4% (25/36)	-13.6 (-36.4; 9.3)
≥ 50-< 200	80.4% (156/194)	81.7% (143/175)	-1.3 (-9.3; 6.7)	71.1% (138/194)	74.9% (131/175)	-3.7 (-12.8; 5.4)
≥ 200-< 350	86.9% (272/313)	82.4% (253/307)	4.5 (-1.2; 10.2)	80.5% (252/313)	79.5% (244/307)	1.0 (-5.3; 7.3)

≥ 350	90.3% (130/144)	82.9% (136/164)	7.4 (-0.3; 15.0)	85.4% (123/144)	78.7% (129/164)	6.8 (-1.9; 15.4)
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N=number of subjects per treatment group; ND=not determined.

\* Intent-to-treat time to loss of virologic response.

± Based on normal approximation.

§ Subjects achieved virologic response (two consecutive viral loads < 50 copies/ml) and maintained it through week 48/96.

# Predicted difference of response rates (95% CI) for the week 48 analysis: 1.6% (-2.2%; 5.3%) and for the week 96 analysis: -0.4% (-4.6%; 3.8%); both p-value < 0.0001 (non-inferiority at 12% margin) from logistic regression model, including stratification factors and study.

† Virologic failure in pooled efficacy analysis: includes subjects who were rebounder (confirmed viral load ≥ 50 copies/ml after being responder) or who were never suppressed (no confirmed viral load < 50 copies/ml, either ongoing or discontinued due to lack or loss of efficacy).

‡ e.g. lost to follow-up, non-compliance, withdrew consent.

At week 96, the mean change from baseline in CD4+ cell count was +228 x 10<sup>6</sup> cells/l in the rilpivirine arm and +219 x 10<sup>6</sup> cells/l in the efavirenz arm in the pooled analysis of the ECHO and THRIVE trials [estimated treatment difference (95% CI): 11.3 (-6.8; 29.4)].

From the week 96 pooled resistance analysis, the resistance outcome for patients with protocol defined virological failure, and paired genotypes (baseline and failure) is shown in table 5.

<b>Table 5: Resistance outcome by background NRTI regimen used (pooled data from the ECHO and THRIVE trials in the week 96 resistance analysis)</b>				
	tenofovir/ emtricitabine	zidovudine/ lamivudine	abacavir/ lamivudine	All*
<b><i>Rilpivirine-treated</i></b>				
Resistance <sup>#</sup> to emtricitabine/lamivudine % (n/N)	6.9 (38/550)	3.0 (3/101)	8.6 (3/35)	6.4 (44/686)
Resistance to rilpivirine % (n/N)	6.5 (36/550)	3.0 (3/101)	8.6 (3/35)	6.1 (42/686)
<b><i>Efavirenz-treated</i></b>				
Resistance to emtricitabine/lamivudine % (n/N)	1.1 (6/546)	1.9 (2/103)	3.0 (1/33)	1.3 (9/682)
Resistance to efavirenz % (n/N)	2.4 (13/546)	2.9 (3/103)	3.0 (1/33)	2.5 (17/682)

\* The number of patients with virologic failure and paired genotypes (baseline and failure) were 71, 11, and 4 for rilpivirine and 30, 10, and 2 for efavirenz, for the tenofovir/emtricitabine, zidovudine/lamivudine, and abacavir/lamivudine regimens, respectively.

# Resistance was defined as the emergence of any resistance-associated mutation at failure.

For those patients failing therapy with rilpivirine and who developed resistance to rilpivirine, cross-resistance to other approved NNRTIs (etravirine, efavirenz, nevirapine) was generally seen.

Study TMC278-C204 was a randomised, active-controlled, Phase IIb trial in antiretroviral treatment-naïve HIV-1 infected adult patients consisting of 2 parts: an initial partially blinded dose-finding part [(rilpivirine) doses blinded] up to 96 weeks, followed by a long-term, open label part. In the open label part of the trial, patients originally randomised to one of the three doses of rilpivirine were all treated with rilpivirine 25 mg once daily in addition to a BR, once the dose for the Phase III studies was selected. Patients in the control arm received efavirenz 600 mg once daily in addition to a BR in both parts of the study. The BR consisted of 2 investigator-selected N(t)RTIs: zidovudine plus lamivudine or tenofovir disoproxil fumarate plus emtricitabine.

Study TMC278-C204 enrolled 368 HIV-1 infected treatment-naïve adult patients who had a plasma HIV-1 RNA ≥ 5,000 copies/ml, previously received ≤ 2 weeks of treatment with an N(t)RTI or protease inhibitor, had no prior use of NNRTIs and were screened for susceptibility to N(t)RTI and for absence of specific NNRTI resistance-associated mutations.

At 96 weeks, the proportion of patients with < 50 HIV-1 RNA copies/ml receiving rilpivirine 25 mg (N=93) compared to patients receiving efavirenz (N=89) was 76% and 71%, respectively. The mean



increase from baseline in CD4+ counts was  $146 \times 10^6$  cells/l in patients receiving rilpivirine 25 mg and  $160 \times 10^6$  cells/l in patients receiving efavirenz.

Of those patients who were responders at week 96, 74% of patients receiving rilpivirine remained with undetectable viral load (< 50 HIV-1 RNA copies/ml) at week 240 compared to 81% of patients receiving efavirenz. There were no safety concerns identified in the week 240 analyses.

#### Paediatric population

The pharmacokinetics, safety, tolerability and efficacy of rilpivirine 25 mg once daily, in combination with an investigator-selected BR containing two NRTIs, was evaluated in trial TMC278-C213, a single-arm, open-label Phase 2 trial in antiretroviral treatment-naïve HIV-1 infected adolescent subjects weighing at least 32 kg. This analysis included 36 patients who had completed at least 48 weeks of treatment or discontinued earlier.

The 36 subjects had a median age of 14.5 years (range: 12 to 17 years), and were 55.6% female, 88.9% Black and 11.1% Asian. The median baseline plasma HIV-1 RNA was  $4.8 \log_{10}$  copies per mL, and the median baseline CD4+ cell count was  $414 \times 10^6$  cells/l (range: 25 to  $983 \times 10^6$  cells/l).

The proportion of subjects with HIV-1 RNA < 50 copies/mL at week 48 (TLOVR) was 72.2% (26/36). The proportion of responders was higher in subjects with a baseline viral load  $\leq 100,000$  copies/mL (78.6%, 22/28) as compared to those with a baseline viral load > 100,000 copies/mL (50.0%, 4/8). The proportion of virological failures was 22.2% (8/36). The proportion of virologic failures was lower in subjects with a baseline viral load  $\leq 100,000$  copies/mL (17.9%, 5/28) as compared to those with a baseline viral load > 100,000 copies/mL (37.5%, 3/8). Rilpivirine resistance mutations were observed in 62.5% (5/8) of subjects with virological failure. In 4 of those 5 subjects, NRTI resistance was observed as well. One subject discontinued due to an adverse event and 1 subject discontinued due to reasons other than an adverse event or virological failure. At week 48, the mean increase in CD4+ cell count from baseline was  $201.2 \times 10^6$  cells/l.

The European Medicines Agency has deferred the obligation to submit the results of studies with rilpivirine in one or more subsets of the paediatric population in the treatment of Human Immunodeficiency Virus (HIV-1) infection (see section 4.2 for information on paediatric use).

#### *Pregnancy*

Rilpivirine in combination with a background regimen was evaluated in a clinical trial of 19 pregnant women during the second and third trimesters, and postpartum. The pharmacokinetic data demonstrate that total exposure (AUC) to rilpivirine as a part of an antiretroviral regimen was approximately 30% lower during pregnancy compared with postpartum (6-12 weeks). The virologic response was generally preserved throughout the study: of the 12 subjects that completed the study, 10 subjects were suppressed at the end of the study; in the other 2 subjects an increase in viral load was observed only postpartum, for at least 1 subject due to suspected suboptimal adherence. No mother to child transmission occurred in all 10 infants born to the mothers who completed the trial and for whom the HIV status was available. Rilpivirine was well tolerated during pregnancy and postpartum. There were no new safety findings compared with the known safety profile of rilpivirine in HIV-1 infected adults (see sections 4.2, 4.4 and 5.2).

## **5.2 Pharmacokinetic properties**

The pharmacokinetic properties of rilpivirine have been evaluated in adult healthy subjects and in antiretroviral treatment-naïve HIV-1 infected patients 12 years of age and older. Exposure to rilpivirine was generally lower in HIV-1 infected patients than in healthy subjects.

#### Absorption

After oral administration, the maximum plasma concentration of rilpivirine is generally achieved within 4-5 hours. The absolute bioavailability of EDURANT is unknown.

### Effect of food on absorption

The exposure to rilpivirine was approximately 40% lower when EDURANT was taken in a fasted condition as compared to a normal caloric meal (533 kcal) or high-fat high-caloric meal (928 kcal). When EDURANT was taken with only a protein-rich nutritional drink, exposures were 50% lower than when taken with a meal. EDURANT **must be taken with a meal** to obtain optimal absorption. Taking EDURANT in fasted condition or with only a nutritional drink may result in decreased plasma concentrations of rilpivirine, which could potentially reduce the therapeutic effect of EDURANT (see section 4.2).

### Distribution

Rilpivirine is approximately 99.7% bound to plasma proteins *in vitro*, primarily to albumin. The distribution of rilpivirine into compartments other than plasma (e.g., cerebrospinal fluid, genital tract secretions) has not been evaluated in humans.

### Biotransformation

*In vitro* experiments indicate that rilpivirine primarily undergoes oxidative metabolism mediated by the cytochrome P450 (CYP) 3A system.

### Elimination

The terminal elimination half-life of rilpivirine is approximately 45 hours. After single dose oral administration of <sup>14</sup>C-rilpivirine, on average 85% and 6.1% of the radioactivity could be retrieved in faeces and urine, respectively. In faeces, unchanged rilpivirine accounted for on average 25% of the administered dose. Only trace amounts of unchanged rilpivirine (< 1% of dose) were detected in urine.

### Additional information on special populations

#### *Paediatric population (less than 18 years of age)*

The pharmacokinetics of rilpivirine in antiretroviral treatment-naïve HIV-1 infected adolescent subjects receiving EDURANT 25 mg once daily were comparable to those in treatment-naïve HIV-1 infected adults receiving EDURANT 25 mg once daily. There was no impact of body weight on rilpivirine pharmacokinetics in paediatric subjects in trial C213 (33 to 93 kg), similar to what was observed in adults.

The pharmacokinetics of rilpivirine in paediatric patients less than 12 years of age are under investigation. Dosing recommendations for paediatric patients less than 12 years of age cannot be made due to insufficient data (see section 4.2).

#### *Older people*

Population pharmacokinetic analysis in HIV infected patients showed that rilpivirine pharmacokinetics are not different across the age range (18 to 78 years) evaluated, with only 3 subjects aged 65 years or older. No dose adjustment of EDURANT is required in older patients. EDURANT should be used with caution in this population (see section 4.2).

#### *Gender*

No clinically relevant differences in the pharmacokinetics of rilpivirine have been observed between men and women.

#### *Race*

Population pharmacokinetic analysis of rilpivirine in HIV infected patients indicated that race had no clinically relevant effect on the exposure to rilpivirine.

#### *Hepatic impairment*

Rilpivirine is primarily metabolised and eliminated by the liver. In a study comparing 8 patients with mild hepatic impairment (Child-Pugh score A) to 8 matched controls, and 8 patients with moderate hepatic impairment (Child-Pugh score B) to 8 matched controls, the multiple dose exposure of rilpivirine was 47% higher in patients with mild hepatic impairment and 5% higher in patients with moderate hepatic impairment. However, it may not be excluded that the pharmacologically active, unbound, rilpivirine exposure is significantly increased in moderate hepatic impairment.

No dose adjustment is suggested but caution is advised in patients with moderate hepatic impairment. EDURANT has not been studied in patients with severe hepatic impairment (Child-Pugh score C). Therefore, EDURANT is not recommended in patients with severe hepatic impairment (see section 4.2).

#### *Hepatitis B and/or hepatitis C virus co-infection*

Population pharmacokinetic analysis indicated that hepatitis B and/or C virus co-infection had no clinically relevant effect on the exposure to rilpivirine.

#### *Renal impairment*

The pharmacokinetics of rilpivirine have not been studied in patients with renal insufficiency. Renal elimination of rilpivirine is negligible. No dose adjustment is needed for patients with mild or moderate renal impairment. In patients with severe renal impairment or end-stage renal disease, EDURANT should be used with caution, as plasma concentrations may be increased due to alteration of drug absorption, distribution and/or metabolism secondary to renal dysfunction. In patients with severe renal impairment or end-stage renal disease, the combination of EDURANT with a strong CYP3A inhibitor should only be used if the benefit outweighs the risk. As rilpivirine is highly bound to plasma proteins, it is unlikely that it will be significantly removed by haemodialysis or peritoneal dialysis (see section 4.2).

#### *Pregnancy and Postpartum*

The exposure to total rilpivirine after intake of rilpivirine 25 mg once daily as part of an antiretroviral regimen was lower during pregnancy (similar for the 2nd and 3rd trimester) compared with postpartum (see table 6). The decrease in unbound (ie, active) rilpivirine pharmacokinetic parameters during pregnancy compared to postpartum was less pronounced than for total rilpivirine.

In women receiving rilpivirine 25 mg once daily during the 2nd trimester of pregnancy, mean intra-individual values for total rilpivirine  $C_{max}$ ,  $AUC_{24h}$  and  $C_{min}$  values were, respectively, 21%, 29% and 35% lower as compared to postpartum; during the 3rd trimester of pregnancy,  $C_{max}$ ,  $AUC_{24h}$  and  $C_{min}$  values were, respectively, 20%, 31% and 42% lower as compared to postpartum.

<b>Pharmacokinetics of total rilpivirine</b> (mean ± SD, $t_{max}$ : median [range])	<b>Postpartum</b> (6-12 Weeks) (n=11)	<b>2<sup>nd</sup> Trimester</b> <b>of pregnancy</b> (n=15)	<b>3<sup>rd</sup> Trimester</b> <b>of pregnancy</b> (n=13)
$C_{min}$ , ng/mL	84.0 ± 58.8	54.3 ± 25.8	52.9 ± 24.4
$C_{max}$ , ng/mL	167 ± 101	121 ± 45.9	123 ± 47.5
$t_{max}$ , h	4.00 (2.03-25.08)	4.00 (1.00-9.00)	4.00 (2.00-24.93)
$AUC_{24h}$ , ng.h/mL	2714 ± 1535	1792 ± 711	1762 ± 662

### **5.3 Preclinical safety data**

#### Repeated dose toxicity

Liver toxicity associated with liver enzyme induction was observed in rodents. In dogs, cholestasis-like effects were noted.

#### Reproductive toxicology studies

Studies in animals have shown no evidence of relevant embryonic or foetal toxicity or an effect on reproductive function. There was no teratogenicity with rilpivirine in rats and rabbits. The exposures at the embryo-foetal No Observed Adverse Effects Levels (NOAELs) in rats and rabbits were respectively 15 and 70 times higher than the exposure in humans at the recommended dose of 25 mg once daily.

### Carcinogenesis and mutagenesis

Rilpivirine was evaluated for carcinogenic potential by oral gavage administration to mice and rats up to 104 weeks. At the lowest tested doses in the carcinogenicity studies, the systemic exposures (based on AUC) to rilpivirine were 21-fold (mice) and 3-fold (rats), relative to those observed in humans at the recommended dose (25 mg once daily). In rats, there were no drug-related neoplasms. In mice, rilpivirine was positive for hepatocellular neoplasms in both males and females. The observed hepatocellular findings in mice may be rodent-specific.

Rilpivirine has tested negative in the absence and presence of a metabolic activation system in the *in vitro* Ames reverse mutation assay and the *in vitro* clastogenicity mouse lymphoma assay. Rilpivirine did not induce chromosomal damage in the *in vivo* micronucleus test in mice.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### Tablet core

Lactose monohydrate  
Croscarmellose sodium  
Povidone K30  
Polysorbate 20  
Silicified microcrystalline cellulose  
Magnesium stearate

#### Tablet coating

Lactose monohydrate  
Hypromellose 2910 6 mPa.s  
Titanium dioxide E171  
Macrogol 3000  
Triacetin

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

3 years

### **6.4 Special precautions for storage**

Store in the original bottle in order to protect from light.

### **6.5 Nature and contents of container**

75 ml high density polyethylene (HDPE) bottle with a polypropylene (PP) child resistant closure and induction seal liner. Each carton contains one bottle of 30 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**

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

**8. MARKETING AUTHORISATION NUMBER**

EU/1/11/736/001

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

Date of first authorisation: 28 November 2011  
Date of latest renewal: 22 July 2016

**10. DATE OF REVISION OF THE TEXT**

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

## **ANNEX II**

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

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

Name and address of the manufacturer(s) responsible for batch release

Janssen-Cilag SpA  
Via C. Janssen  
Borgo San Michele  
04100 Latina  
Italy

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

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

## **C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

- **Periodic Safety Update Reports**

The requirements for submission of periodic safety update reports 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 MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

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

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**



## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**OUTER CARTON**

**1. NAME OF THE MEDICINAL PRODUCT**

EDURANT 25 mg film-coated tablets  
rilpivirine

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each film-coated tablet contains rilpivirine hydrochloride equivalent to 25 mg rilpivirine.

**3. LIST OF EXCIPIENTS**

Contains lactose monohydrate.  
See package leaflet for further information.

**4. PHARMACEUTICAL FORM AND CONTENTS**

30 film-coated tablets

**5. METHOD AND ROUTE 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 bottle in order to protect from 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**

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/11/736/001

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

edurant 25 mg

**17. UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

**18. UNIQUE IDENTIFIER – HUMAN READABLE DATA**

PC: {number} [product code]  
SN: {number} [serial number]  
NN: {number} [national reimbursement number or other national number identifying the medicinal product]

**PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING**

**BOTTLE LABEL**

**1. NAME OF THE MEDICINAL PRODUCT**

EDURANT 25 mg film-coated tablets  
rilpivirine

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each film-coated tablet contains rilpivirine hydrochloride equivalent to 25 mg rilpivirine.

**3. LIST OF EXCIPIENTS**

Contains lactose monohydrate.

**4. PHARMACEUTICAL FORM AND CONTENTS**

30 film-coated tablets

**5. METHOD AND ROUTE 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 bottle in order to protect from 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**

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/11/736/001

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

**B. PACKAGE LEAFLET**

## Package leaflet: Information for the user

### EDURANT 25 mg film-coated tablets rilpivirine

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

#### **What is in this leaflet**

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

#### **1. What EDURANT is and what it is used for**

EDURANT contains rilpivirine that is used for the treatment of Human Immunodeficiency Virus (HIV) infection. It belongs to a group of HIV medicines called non-nucleoside reverse transcriptase inhibitors (NNRTIs). EDURANT works by reducing the amount of HIV in your body.

**EDURANT is used in combination with other HIV medicines** to treat adolescents and adults 12 years of age and older who are infected with HIV and who have never been treated before with HIV medicines.

Your doctor will discuss with you which combination of medicines is best for you.

#### **2. What you need to know before you take EDURANT**

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

**Do not take EDURANT in combination with any of the following medicines** as they may affect the way EDURANT or the other medicine works:

- carbamazepine, oxcarbazepine, phenobarbital, phenytoin (medicines to treat epilepsy and prevent seizures)
- rifampicin, rifapentine (medicines to treat some bacterial infections such as tuberculosis)
- omeprazole, esomeprazole, lansoprazole, pantoprazole, rabeprazole, (proton pump inhibitors that are medicines to prevent and treat stomach ulcers, heartburn or acid reflux disease)
- dexamethasone (a corticosteroid used in a variety of conditions such as inflammation and allergic reactions) when taken by mouth or injected, except as a single dose treatment
- products that contain St John's wort (*Hypericum perforatum*) (a herbal product used for depression).

If you are taking any of the above, ask your doctor about alternatives.

#### **Warnings and precautions**

Talk to your doctor or pharmacist before taking EDURANT.

EDURANT is not a cure for HIV infection. It is part of a treatment reducing the amount of virus in the blood. You can still pass on HIV when taking this medicine, although the risk is lowered by effective antiretroviral therapy. Discuss with your physician the precautions needed to avoid infecting other people.

EDURANT has only been used in a limited number of patients of 65 years or older. If you belong to this age group, please discuss the use of EDURANT with your doctor.

### **Tell your doctor about your situation**

Make sure that you check the following points and tell your doctor if any of these apply to you.

- Tell your doctor if you have or have had **problems with your liver**, including hepatitis B and/or C, and/or **problems with your kidneys**. Your doctor may evaluate how severe your liver or kidney disease is before deciding if you can take EDURANT.
- Tell your doctor immediately if you notice any **symptoms of infections** (for example, fever, chills, sweats). In some patients with advanced HIV infection and a history of opportunistic infection, signs and symptoms of inflammation from previous infections may occur soon after HIV treatment is started. It is believed that these symptoms are due to an improvement in the body's immune response, enabling the body to fight infections that may have been present with no obvious symptoms.
- In addition to the opportunistic infections, autoimmune disorders (a condition that occurs when the immune system attacks healthy body tissue) may also occur after you start taking medicines for the treatment of your HIV infection. Autoimmune disorders may occur many months after the start of treatment. If you notice any symptoms of infection or other symptoms such as muscle weakness, weakness beginning in the hands and feet and moving up towards the trunk of the body, palpitations, tremor or hyperactivity, please inform your doctor immediately to seek necessary treatment.
- Tell your doctor if you are taking any medicines that may cause a life-threatening irregular heartbeat (Torsade de Pointes).

### **Children**

EDURANT is not for use in children less than 12 years of age, because it has not been sufficiently studied in these patients.

### **Other medicines and EDURANT**

You must take EDURANT together with other HIV medicines. Your doctor will advise on which HIV medicines can be combined with EDURANT and together you will decide which combination fits your needs best. Follow your doctor's instruction carefully.

Some medicines may affect the levels of EDURANT in the blood when they are taken at the same time as EDURANT.

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

**It is not recommended to combine EDURANT with** other non-nucleoside reverse transcriptase inhibitors (NNRTIs) such as delavirdine, efavirenz, etravirine, and nevirapine.

**The effects of EDURANT or other medicines might be influenced** if you take EDURANT together with any of the following medicines. Tell your doctor if you take:

- rifabutin (a medicine to treat some bacterial infections). If you take this medicine while taking EDURANT, please carefully read how to take EDURANT in section 3 "Instructions for proper use in adults and adolescents (12 to less than 18 years of age)".
- clarithromycin, erythromycin (antibiotics)
- cimetidine, famotidine, nizatidine, ranitidine (H<sub>2</sub>-receptor antagonists used to treat stomach or intestinal ulcers or used to relieve heartburn due to acid reflux). If you take these medicines,



- please carefully read how to take them in section 3 “Instructions for proper use in adults and adolescents (12 to less than 18 years of age)”.
- antacids (used to treat diseases related to the acid in the stomach; for example, aluminium / magnesium hydroxide, calcium carbonate). If you take these medicines, please carefully read how to take them in section 3 “Instructions for proper use in adults and adolescents (12 to less than 18 years of age)”.
  - methadone (used to treat narcotic withdrawal and dependence)
  - dabigatran etexilate (anticoagulant).

### **Pregnancy and breast-feeding**

Tell your doctor immediately if you are pregnant or if you plan to become pregnant. Pregnant women should discuss the use of EDURANT with their doctor.

HIV infected mothers must not breastfeed, as there is a possibility of infecting the baby with HIV via breast milk.

Ask your doctor or pharmacist for advice before taking any medicine.

### **Driving and using machines**

Some patients may experience tiredness, dizziness or drowsiness during treatment with EDURANT. Do not drive or operate machinery if you feel tired, dizzy or drowsy while taking EDURANT.

### **EDURANT contains lactose**

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

## **3. How to take EDURANT**

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

### **Instructions for proper use in adults and adolescents (12 to less than 18 years of age)**

The recommended dose of EDURANT is one tablet once a day.

EDURANT **must be taken with a meal**. A meal is important to get the right levels of active substance in your body. A nutritional drink (e.g. protein-rich) alone does not replace a meal.

There are four situations that require special attention:

1. **If you take rifabutin** (a medicine to treat some bacterial infections), take two tablets of EDURANT once a day. When you stop taking rifabutin, take one tablet of EDURANT once a day. Talk to your doctor or pharmacist if you are not sure.
2. **If you take an antacid** (a medicine to treat diseases related to the acid in the stomach such as aluminium / magnesium hydroxide, calcium carbonate). Take the antacid either at least 2 hours before or at least 4 hours after EDURANT (see section 2 “Other medicines and EDURANT”).
3. **If you take an H<sub>2</sub>-receptor antagonist** (medicines used to treat stomach or intestinal ulcers or used to relieve heartburn due to acid reflux (such as cimetidine, famotidine, nizatidine or ranitidine). Take the H<sub>2</sub>-receptor antagonist at least 12 hours before or at least 4 hours after EDURANT (see section 2 “Other medicines and EDURANT”). H<sub>2</sub>-receptor antagonists should not be taken in a twice a day regimen. Talk to your doctor about an alternative regimen.
4. If you take didanosine (a medicine to treat HIV infection), no dose adjustment is required. Didanosine should be administered on an empty stomach at least two hours before or at least four hours after EDURANT (which must be taken with a meal).

### **Removing the child resistant cap**



The bottle comes with a child resistant cap. It can be opened by pushing the screw cap down while turning it anti-clockwise.

#### **If you take more EDURANT than you should**

Contact your doctor or pharmacist immediately. In case of overdose, you may have a headache, nausea, dizziness, and/or abnormal dreams.

#### **If you forget to take EDURANT**

If you notice **within 12 hours of the time you usually take EDURANT**, you must take the tablet as soon as possible. The EDURANT tablet must be taken with a meal. Then take the next dose as usual. If you notice **after 12 hours**, then skip that dose and take the next doses as usual. Do not take a double dose to make up for a forgotten dose.

If you vomit less than 4 hours after taking EDURANT, take another tablet with a meal. If you vomit more than 4 hours after taking EDURANT you do not need to take another tablet until your next regularly scheduled tablet.

Contact your doctor if uncertain about what to do if you miss a dose or vomit.

#### **Do not stop using EDURANT**

HIV treatment does not cure HIV infection! Do not stop using EDURANT without talking to your doctor first. Even if you feel better, do not stop taking EDURANT or your other HIV medicines. Doing so could increase the risk of the virus developing resistance. Talk to your doctor first.

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.

Very common:

- headache
- nausea
- difficulty falling asleep (insomnia)
- dizziness
- changes in one of your routine liver tests (transaminase)
- increase in cholesterol and/or pancreatic amylase in your blood

Common:

- abnormal dreams
- rash
- stomach pain
- depression
- tiredness
- vomiting
- drowsiness
- decreased appetite
- sleep disorders
- stomach discomfort
- depressed mood
- dry mouth
- low white blood cell and/or platelet count, decrease in haemoglobin in your blood, increase in triglycerides, lipase and/or bilirubin in your blood

-

Uncommon:

- signs or symptoms of inflammation or infection, for example fever, chills, sweats (immune reactivation syndrome)

### **Reporting of side effects**

If you get any side effects, talk to your doctor or pharmacist. 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 EDURANT**

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 and on the bottle after EXP. The expiry date refers to the last day of that month.

Store in the original bottle in order to protect from 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 EDURANT contains**

- The active substance is rilpivirine in the form of rilpivirine hydrochloride. Each tablet of EDURANT contains rilpivirine hydrochloride equivalent to 25 mg rilpivirine.
- The other ingredients of the film-coated tablet core are lactose monohydrate, croscarmellose sodium, povidone K30, polysorbate 20, silicified microcrystalline cellulose and magnesium stearate. The film-coating contains lactose monohydrate, hypromellose 2910 6 mPa.s, titanium dioxide E171, macrogol 3000 and triacetin.

### **What EDURANT looks like and contents of the pack**

White to off-white, film-coated, round, biconvex tablet, with “TMC” on one side and “25” on the other side.

A bottle with child resistant closure containing 30 film-coated tablets.

### **Marketing Authorisation Holder**

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

### **Manufacturer**

Janssen-Cilag SpA  
Via C. Janssen  
Borgo San Michele  
04100 Latina  
Italy

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

**België/Belgique/Belgien**

Janssen-Cilag NV  
Antwerpseweg 15-17  
B-2340 Beerse  
Tel/Tél: +32 14 64 94 11

**България**

„Джонсън & Джонсън България” ЕООД  
ж.к. Младост 4  
Бизнес Парк София, сграда 4  
София 1766  
Тел.: +359 2 489 94 00

**Česká republika**

Janssen-Cilag s.r.o.  
Karla Engliše 3201/06  
CZ-150 00 Praha 5 - Smíchov  
Tel: +420 227 012 227

**Danmark**

Janssen-Cilag A/S  
Bregnerødvej 133  
DK-3460 Birkerød  
Tlf: +45 45 94 82 82

**Deutschland**

Janssen-Cilag GmbH  
Johnson & Johnson Platz 1  
D-41470 Neuss  
Tel: +49 2137 955-955

**Eesti**

UAB "JOHNSON & JOHNSON" Eesti filiaal  
Lõdtsa 2  
EE-11415 Tallinn  
Tel: +372 617 7410

**Ελλάδα**

Janssen-Cilag Φαρμακευτική Α.Ε.Β.Ε.  
Λεωφόρος Ειρήνης 56  
GR-151 21 Πεύκη, Αθήνα  
Τηλ: +30 210 80 90 000

**España**

Janssen-Cilag, S.A.  
Paseo de las Doce Estrellas, 5-7  
E-28042 Madrid  
Tel: +34 91 722 81 00

**France**

Janssen-Cilag  
1, rue Camille Desmoulins, TSA 91003  
F-92787 Issy Les Moulineaux, Cedex 9  
Tél: 0 800 25 50 75 / +33 1 55 00 40 03

**Lietuva**

UAB "JOHNSON & JOHNSON"  
Konstitucijos pr. 21C  
LT-08130 Vilnius  
Tel: +370 5 278 68 88

**Luxembourg/Luxemburg**

Janssen-Cilag NV  
Antwerpseweg 15-17  
B-2340 Beerse  
Belgique/Belgien  
Tél/Tel: +32 14 64 94 11

**Magyarország**

Janssen-Cilag Kft.  
Nagyenyed u. 8-14  
H-Budapest, 1123  
Tel.: +36 1 884 2858

**Malta**

AM MANGION LTD.  
Mangion Building, Triq Ġdida fi Triq Valletta  
MT-Hal-Luqa LQA 6000  
Tel: +356 2397 6000

**Nederland**

Janssen-Cilag B.V.  
Graaf Engelbertlaan 75  
NL-4837 DS Breda  
Tel: +31 76 711 1111

**Norge**

Janssen-Cilag AS  
Postboks 144  
NO-1325-Lysaker  
Tlf: +47 24 12 65 00

**Österreich**

Janssen-Cilag Pharma GmbH  
Vorgartenstraße 206B  
A-1020 Wien  
Tel: +43 1 610 300

**Polska**

Janssen-Cilag Polska Sp. z o.o.  
ul. Hżdecka 24  
PL-02-135 Warszawa  
Tel.: +48 22 237 60 00

**Portugal**

Janssen-Cilag Farmacêutica, Lda.  
Estrada Consiglieri Pedroso, 69 A  
Queluz de Baixo  
PT-2734-503 Barcarena  
Tel: +351 21 43 68 835

**Hrvatska**

Johnson & Johnson S.E. d.o.o.  
Oreškovićeve 6h  
10010 Zagreb  
Tel: +385 1 6610 700

**Ireland**

Janssen-Cilag Ltd.  
50-100 Holmers Farm Way  
High Wycombe  
Buckinghamshire HP12 4EG  
United Kingdom  
Tel: +44 1 494 567 444

**Ísland**

Janssen-Cilag AB  
c/o Vistor hf.  
Hörgatúni 2  
IS-210 Garðabær  
Sími: +354 535 7000

**Italia**

Janssen-Cilag SpA  
Via M.Buonarroti, 23  
I-20093 Cologno Monzese MI  
Tel: +39 02 2510 1

**Κύπρος**

Βαρνάβας Χατζηπαναγής Λτδ,  
Λεωφόρος Γιάννου Κρανιδιώτη 226  
Λατσιά  
CY-2234 Λευκωσία  
Τηλ: +357 22 207 700

**Latvija**

UAB "JOHNSON & JOHNSON" filiāle Latvijā  
Mūkusalas iela 101  
Rīga, LV-1004  
Tel: +371 678 93561

**România**

Johnson & Johnson România SRL  
Str. Tipografilor nr. 11-15  
Clădirea S-Park, Corp B3-B4, Etaj 3  
013714 București, ROMÂNIA  
Tel: +40 21 207 1800

**Slovenija**

Johnson & Johnson d.o.o.  
Šmartinska cesta 53  
SI-1000 Ljubljana  
Tel: +386 1 401 18 00

**Slovenská republika**

Johnson & Johnson s.r.o.  
CBC III, Karadžičova 12  
SK-821 08 Bratislava  
Tel: +421 232 408 400

**Suomi/Finland**

Janssen-Cilag Oy  
Vaisalantie/Vaisalavägen 2  
FI-02130 Espoo/Esbo  
Puh/Tel: +358 207 531 300

**Sverige**

Janssen-Cilag AB  
Box 4042  
SE-16904 Solna  
Tel: +46 8 626 50 00

**United Kingdom**

Janssen-Cilag Ltd.  
50-100 Holmers Farm Way  
High Wycombe  
Buckinghamshire HP12 4EG - UK  
Tel: +44 1 494 567 444

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Detailed information on this medicine is available on the European Medicines Agency web site:  
<http://www.ema.europa.eu/>.