SUMMARY OF PRODUCT CHARACTERISTICS 1. NAME OF THE MEDICINAL PRODUCT Efavirenz/Lamivudine/Tenofovir disoproxil fumarate 400 mg/300 mg /300 mg film-coated tablets. 2. QUALITATIVE AND QUANTITATIVE COMPOSITION 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 400 mg of fearingener, 300 mg of lamivudine and 300 mg of tenofovir disoproxil fumaresulting in death, have been reported in patients treated with EFV. Reports have included patients with underlying the coated tablet contains 400 mg of fearing the coated t rate (equivalent to 245 mg of tenofovir disoproxil). Excipients with known effect Each film-coated tablet contains 133.070 mg of lactose Each film-coated tablet contains 9.701 mg of sodium. For the full list of excipients, see section 6.1 3. PHARMACEUTICAL FORM

4. CLINICAL PARTICULARS 4.1 Therapeutic indications virenz/Lamivudine/Tenofovir disoproxil fumarate tablet is indicated as a complete regimen for the treatment of human immunodeficiency virus type 1 (HIV-1) infection in adult and pediatric patients weighing at least 35 kg. 4.2 Posology and method of administration Therapy should be prescribed by a physician experienced in the management of HIV-1 infection

Testing prior to initiation and during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets Prior to initiation of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets, test patients for hepatitis B virus in-It is recommended that serum creatinine, serum phosphorus, estimated creatinine clearance, urine glucose, and urine protein be assessed before initiating Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets and during therapy in require periodic monitoring of plasma levels (see section 4.5).

all patients as clinically appropriate (see section 4.4). Monitor hepatic function prior to and during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets Recommended dosage for adult and pediatric patients weighing at least 35 kg

recommended dosage of Efavirenz/ Lamivudine/ Tenofovir disoproxil fumarate tablets in HIV-1-infected adults and biochemical markers of bone metabolism, suggesting increased bone turnover relative to comparators (see section Narcotic analgesic pediatric patients weighing at least 35 kg is one tablet taken orally once daily. Patients with renal impairment Because Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is a fixed-dose combination tablet and cannot be risk in adults and pediatric subjects 2 years and older are unknown. The long-term effect of lower spine and total dose adjusted, it is not recommended for patients with impaired renal function (creatinine clearance less than 50 mL/ body BMD on skeletal growth in pediatric patients, and in particular, the effects of long-duration exposure in younger * The interaction between EFV and the drug was evaluated in a clinical study. All other drug interactions

min) or patients with end-stage renal disease (ESRD) requiring hemodialysis (see section 5.2). Patients with hepatic impairment Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets without any adjustment in dose (see section 5.2).

35 kg since appropriate dose adjustments cannot be made with this combination tablet. e/Tenofovir disoproxil fumarate tablet is administered orally and should be taken with water and swallowed whole. The tablet should be taken on an empty stomach, preferably at bedtime. Dosing at bedtime may improve the tolerability of nervous system symptoms (see sections 4.4 and 4.8).

Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is contraindicated:

in patients with a previous hypersensitivity reaction (e.g., Stevens-Johnson syndrome, erythema multiforme, or toxic may necessitate further evaluation and treatment. skin eruptions) to the active substance or to any of the excipients listed in section 6.1 (also see section 4.4). when coadministered with elbasvir and grazoprevir (see sections 4.4 and 4.5). 4.4 Special warnings and precautions for use

Severe acute exacerbation of hepatitis B in patients coinfected with HIV-1 and HBV severe acute exacerbations of hepatitis B. Patients infected with HBV who discontinue Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets should be closely monitored with both clinical and laboratory follow-up for at least several months after stopping treatment. If appropriate, resumption of anti-hepatitis B therapy may be warranted.

Important differences among lamivudine-containing products Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets contain a higher dose of the same active ingredient, 3TC, patients at higher risk of Torsade de Pointes. If treatment with EPIVIR-HBV, TDF, or a tenofovir alafenamide (TAF)-containing product is prescribed for chronic result because of the subtherapeutic dose and the inappropriateness of monotherapy HIV-1 treatment.

Lactic acidosis and severe hepatomegaly with steatosis, including fatal cases, have been reported with the use of Not recommended with other antiretroviral medications nucleoside analogs and other antiretrovirals. Female sex and obesity may be risk factors for the development of lactic acidosis and severe hepatomegaly with steatosis in patients treated with antiretroviral nucleoside analogues. Indiceosine analogs and outstanding and steatosis in patients treated with antiretroviral nucleoside analogues.

Treatment should be suspended in any patient who develops clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity, which may include hepatomegaly and steatosis even in the absence of marked dosis or pronounced hepatotoxicity, which may include hepatomegaly and steatosis even in the absence of marked the prolong the QTc interval. QTc prolongation has been observed with the use of EFV (see section 5.1). Consider alternative conditions are considered with a drug with a drug with a drug with a drug with a known risk of Torsade de Pointes.

Risk of adverse reactions or loss of virologic response due to drug interactions

The concomitant use of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets and other drugs may result in

Drugs affecting renal function known or potentially significant drug interactions, some of which may lead to (see sections 4.3 and 4.5): Loss of therapeutic effect of efavirenz, lamivudine and tenofovir disoproxil fumarate and possible development of

Efavirenz, Lamivudine and

Fumarate Tablets

400/300/300 mg

21098381

400/300/300 mg

Fumarate Tablets

Tenofovir Disoproxil

Efavirenz, Lamivudine and

 Possible clinically significant adverse reactions from greater exposures of concomitant drugs. See Table 1 for steps to prevent or manage these possible and known significant drug interactions, including dosing increase concentrations of tenofovir. recommendations. Consider the potential for drug interactions prior to and during therapy with Efavirenz/Lamivudine/Teno-Tenofovir disoproxil fumarate tablets; review concomitant medications during therapy with Efavirenz/Lamivudine/Teno-EFV does not bind to cannabinoid test results have been reported with ovir disoproxil fumarate tablets; and monitor for the adverse reactions associated with the concomitant drugs.

New onset or worsening renal impairment

Avoid Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets with concurrent or recent use of a nephrotoxic agent (e.g., high-dose or multiple non-steroidal anti-inflammatory drugs [NSAIDs]) (see section 4.5). Cases of acute renal failure after initiation of high-dose or multiple NSAIDs have been reported in HIV-infected patients with risk factors for renal dysfunction who appeared stable on TDF. Some patients required hospitalization and renal replacement therapy.

Alternatives to NSAIDs should be considered, if needed, in patients at risk for renal dysfunction.

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Alternatives to NSAIDs should be considered, if needed, in patients required the patients req

Skin and systemic hypersensitivity reaction
In controlled clinical trials, 26% (266/1008) of patients treated with 600 mg EFV experienced new-onset skin rash of pared with 17% (111/635) of patients treated in control groups. Rash associated with blistering, moist desquamation, or ulceration occurred in 0.9% (9/1008) of patients treated with EFV. The incidence of Grade 4 rash (e.g., erythema multiforme, Stevens-Johnson syndrome) in patients treated with EFV in all studies and expanded access was 0.1%. Rashes are usually mild-to-moderate maculopapular skin eruptions that occur within the first 2 weeks of initiating therapy with EFV (median time to onset of rash in adults was 11 days) and, in most patients continuing therapy with EFV, rash resolves within 1 month (median duration, 16 days). The discontinuation rate for rash in clinical trials was

EFV can generally be reinitiated in patients interrupting therapy because of rash. EFV should be discontinued in patients developing severe rash associated with blistering, desquamation, mucosal involvement, or fever. Appropriate antihistamines and/or corticosteroids may improve the tolerability and hasten the resolution of rash. For patients who have had a life-threatening cutaneous reaction (e.g., Stevens-Johnson syndrome), alternate therapy should be con-

hepatic disease, including coinfection with hepatitis B or C, and patients without pre-existing hepatic disease or other EFV, a component of Efavirenz/ Lamivudine/ Tenofovir disoproxil fumarate tablet, is not recommended for patients with moderate or severe hepatic impairment. Careful monitoring is recommended for patients with mild hepatic impairment receiving EFV (see section 4.8). Monitoring of liver enzymes before and during treatment is recommended for all patients (see section 4.2). Consider discontinuing Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets in patients with persistent elevations of se Yellow coloured, oblong shaped, biconvex, film coated tablets with "T4" debossed on one side and plain on other side. rum transaminases to greater than five times the upper limit of the normal range.

Bone loss and mineralization effects Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is a three-drug fixed-dose combination product containing 400 mg of efavirenz (EFV), 300 mg of lamivudine (3TC), and 300 mg of tenofovir disoproxil fumarate (TDF). The In clinical trials in HIV-1-infected adults, TDF was associated with slightly greater decreases in BMD and increases in 4.8). Serum parathyroid hormone levels and 1,25 Vitamin D levels were also higher in subjects receiving TDF. The effects of TDF-associated changes in BMD and biochemical markers on long-term bone health and future fracture

Although the effect of supplementation with calcium and vitamin D was not studied, such supplementation may be Patients with hepatic impairment

Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is not recommended in patients with moderate or severe hepatic impairment (Child-Pugh B or C) (see section 4.4). Patients with mild hepatic impairment may be treated with beneficial. Assessment of BMD should be considered for adult and pediatric patients who have a history of pathologic home fracture or other risk factors for osteoporosis or bone loss. If bone abnormalities are suspected, then appropriate beneficial. Assessment of BMD should be considered for adult and pediatric patients who have a history of pathologic home fracture or other risk factors for osteoporosis or bone loss. If bone abnormalities are suspected, then appropriate without clinically significant interactions. No dosage adjustment is recommended when Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is adminished with the following: aluminum/magnesium hydroxide antacids, azithromycin, cetirizine, famotidine, fluconazole, consultation should be considered for adult and pediatric patients who have a history of pathologic home fracture or other risk factors for osteoporosis or bone loss. If bone abnormalities are suspected, then appropriate with the following: aluminum/magnesium hydroxide antacids, azithromycin, cetirizine, famotidine, fluconazole, consultation should be considered for adult and pediatric patients who have a history of pathologic home fracture or other risk factors for osteoporosis or bone loss. If bone abnormalities are suspected, then appropriate without clinically significant interactions.

No dosage adjustment is recommended when Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is adminished to the following: aluminum/magnesium hydroxide antacids, azithromycin, cetirizine, famotidine, fluconazole, and the following and consultation should be obtained.

> Cases of osteomalacia associated with proximal relial ubuliopatiny, intelligence as bothe paint of pent in oxecultate with the paint of pent in oxecultate with the pent i pain or weakness have also been reported in cases or proximal relial tubulopatity. Trypoprospillation and a secondary to proximal renal tubulopathy should be considered in patients at risk of renal dysfunction who it with persistent or worsening bone or muscle symptoms while receiving TDF-containing products. present with persistent or worsening bone or muscle symptoms while receiving TDF-containing products. mmune reconstitution syndrome

as Mycobacterium avium infection, cytomegalovirus, Pneumocystis jirovecii pneumonia [PCP], or tuberculosis), which

4.6 Fertility, pregnancy and lactation Autoimmune disorders (such as Graves' disease, polymyositis, Guillain-Barre syndrome, and autoimmune hepatitis)
have also been reported to occur in the setting of immune reconstitution; however, the time to onset is more variable.

The Encoration of findings consistent with neural tube defects, including the provided in Table 5.

Table 5. Grades 3.4 Laboratory Abnormalities in > 2% in Fither Treatment Group Through W.

Table 5. Grades 3.4 Laboratory Abnormalities in > 2% in Fither Treatment Group Through W.

Table 5. Grades 3.4 Laboratory Abnormalities in > 2% in Fither Treatment Group Through W. have also been reported to occur in the setting of immune reconstitution; however, the time to onset is more variable, and can occur many months after initiation of treatment.

All patients with HIV-1 should be tested for the presence of chronic hepatitis B virus (HBV) before initiating antiretroviral therapy (see section 4.2). Discontinuation of anti-HBV therapy, including 3TC and TDF, may be associated with served in patients receiving combination antiretroviral therapy. The mechanism and long-term consequences of these HIV-infected patients, redistribution/accumulation of body fat including central obesity, dorsocervical fat enlargement events are currently unknown. A causal relationship has not been established.

QTc prolongation has been observed with the use of EFV (see sections 4.5 and 5.1). Consider alternatives to products ntaining EFV when coadministered with a drug with a known risk of Torsade de Pointes or when administered to Efavirenz/Lamivudine/Tenofovir disoproxii rumatate tablets contain a riigine toose or the same daste ingreent acting to the same daste ingreen

of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine. 3TC-containing regimens hepatitis B for a patient with unrecognized or untreated HIV-1 infection, rapid emergence of HIV-1 infection, rapid emergence of HIV-1 esistance is likely to Efavirenz/Lamivudine/Tenofovir disoproxil furnarate tablet also contains less than 1 mmol sodium (23 mg) per tablet, 3TC pharmacokinetics were studied in pregnant women during 2 clinical trials conducted in South Africa. The trials Changes in bone mineral density: In HIV-1-infected adult subjects in Trial 903, there was a significantly greater mean Lamivudine/Tenofovir disoproxil furnarate Tablets. 4.5 Interaction with other medicinal products and other forms of interaction

Tenofovir is primarily eliminated by the kidneys (see section 5.2). Coadministration of EFV/3TC/TDF with drugs that are eliminated by active tubular secretion may increase concentrations of tenofovir and/or the coadministered drug Some examples include, but are not limited to, acyclovir, cidofovir, ganciclovir, valacyclovir, valganciclovir, aminoglycosides (e.g., gentamicin), and high-dose or multiple NSAIDs (see section 4.4). Drugs that decrease renal function may

for cannabinoids by a more specific method is recommended. New onset or worsening renal impaliment.

TDF, a component of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is principally eliminated by the kidney.

Renal impairment, including cases of acute renal failure and Fanconi syndrome (renal tubular injury with severe hypo-P2B6 may have decreased plasma concentrations when coadministered with EFV.

Prior to initiation and during use of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets, on a clinically appropriate schedule, assess serum creatinine, estimated creatinine clearance, urine glucose, and urine protein in all patients.

Drugs that induce CYP3A activity (e.g., phenobarbital, rifampin, rifabutin) would be expected to increase the clearance of EFV resulting in lowered plasma concentrations.

Persistent or worsening bone pain, pain in extremities, fractures and/or muscular pain or weakness may be manifestations of proximal renal tubulopathy and should prompt an evaluation of renal function in patients at risk o

festations of proximal renal tubulopathy and should prompt an evaluation of renal function in patients at risk of renal dysfunction.			ent Drug Interactions with EFV: Alteration in Dose or Regi- ction Studies or Predicted Interaction
Psychiatric symptoms Serious psychiatric adverse experiences have been reported in patients treated with EFV, a component of Efavirenz/	Concomitant Drug Class: Drug Name	Effect	Clinical Comment
Lamivudine/Tenofovir disoproxil fumarate tablet. In controlled trials of 1008 patients treated with regimens containing EFV for a mean of 2.1 years and 635 patients treated with control regimens for a mean of 1.5 years, the frequency	Anticoagulant: Warfarin	↑ or ↓ warfarin	Monitor INR and adjust warfarin dosage if necessary.
(regardless of causality) of specific serious psychiatric events among patients who received EFV or control regimens, respectively, were severe depression (2.4%, 0.9%), suicidal ideation (0.7%, 0.3%), nonfatal suicide attempts (0.5%, 0), aggressive behavior (0.4%, 0.5%), paranoid reactions (0.4%, 0.3%), and manic reactions (0.2%, 0.3%). When psychiatric symptoms similar to those noted above were combined and evaluated as a group in a multifactorial analysis of data from a study using EFV 600 mg, treatment with EFV was associated with an increase in the occurrence of	Anticonvulsants: Carbamazepine	↓ carbamazepine* ↓ EFV*	There are insufficient data to make a dose recommendation for EFV. Alternative anticonvulsant treatment should be used.
these selected psychiatric symptoms. Other factors associated with an increase in the occurrence of these psychiatric symptoms were history of injection drug use, psychiatric history, and receipt of psychiatric medication at study entry; similar associations were observed in both the EFV and control treatment groups. In a study using EFV 600 mg, onset	Phenytoin Phenobarbital	↓ anticonvulsant ↓ EFV	Monitor anticonvulsant plasma levels periodically because of potential for reduction in anticonvulsant and/or EFV plasma levels.
of new serious psychiatric symptoms occurred throughout the study for both EFV-treated and control-treated patients. One percent of EFV-treated patients discontinued or interrupted treatment because of one or more of these selected psychiatric symptoms.	Antidepressants: Bupropion	↓ bupropion*	Increases in bupropion dosage should be guided by clinical response. Bupropion dose should not exceed the maximum recommended dose.
In the ENCORE1 (Evaluation of Novel Concepts in Optimization of Antiretroviral Efficacy) study, at Week 48 the frequency (regardless of causality) of the most common (occurring in > 1% patients) psychiatric events among patients who received EFV 400 mg (N = 321) or EFV 600 mg (N = 309) regimens, respectively, were: abnormal dreams (8.7%,	Sertraline	↓ sertraline*	Increases in sertraline dosage should be guided by clinical response.
11.3%), insomnia (6.2%, 6.5%), somnolence (3.1%, 3.9%), depression (3.1%, 1.6%), nightmare (1.9%, 2.6%), sleep disorder (2.2%, 1.3%), and anxiety (1.2%, 1.3%).	Antifungals: Itraconazole	↓ itraconazole*	Consider alternative antifungal treatment because no dose
There have also been occasional post marketing reports of death by suicide, delusions, psychosis-like behavior, although a causal relationship to the use of EFV cannot be determined from these reports (see section 4.8). Post marketing cases of catatonia have also been reported and may be associated with increased efavirenz exposure. Pa-	Ketoconazole	↓ hydroxyitracon- azole* ↓ ketoconazole	recommendation for itraconazole or ketoconazole can be made.
tients with serious psychiatric adverse experiences should seek immediate medical evaluation to assess the possibility that the symptoms may be related to the use of EFV, and if so, to determine whether the risks of continued therapy outweigh the benefits.	Posaconazole	↓ posaconazole*	Avoid concomitant use unless the benefit outweighs the risks.
Nervous system symptoms Fifty-three percent (531/1008) of patients receiving EFV, a component of Efavirenz/Lamivudine/Tenofovir disoproxil	Anti-infective: Clarithromycin		Consider alternatives to macrolide antibiotics because of the risk of QT interval prolongation.
fumarate tablet, in controlled trials reported central nervous system symptoms (any grade, regardless of causality) compared to 25% (156/635) of patients receiving control regimens. These symptoms included, but were not limited to, dizziness (28.1% of the 1008 patients), insomnia (16.3%), impaired concentration (8.3%), somnolence (7.0%), abnormal dreams (6.2%), and hallucinations (1.2%). These symptoms were severe in 2.0% of patients and 2.1% of patients discontinued therapy as a result. These symptoms usually begin during the first or second day of therapy and	Antimycobacterial: Rifabutin	↓ rifabutin*	Increase daily dose of rifabutin by 50%. Consider doubling the rifabutin dose in regimens where rifabutin is given 2 or 3 times a week.
generally resolve after the first 2 to 4 weeks of therapy. After 4 weeks of therapy, the prevalence of nervous system symptoms of at least moderate severity ranged from 5% to 9% in patients treated with regimens containing EFV and from 3% to 5% in patients treated with a control regimen. Inform patients that these common symptoms were likely to	Rifampin	↓ EFV*	Increase EFV total daily dose to 800 mg once daily when coadministered with rifampin to patients weighing 50 kg or more.
improve with continued therapy and were not predictive of subsequent onset of the less frequent psychiatric symptoms (see section 4.4). Dosing at bedtime may improve the tolerability of these nervous system symptoms (see section 4.2). In the ENCORE1 study, at Week 48, 40% of EFV 400 mg recipients and 48% of EFV 600 mg recipients reported	Antimalarials: Artemether/lumefantrine	↓ artemether* ↓ dihydroartemisinin* ↓ lumefantrine*	Consider alternatives to artemether/lumefantrine because of the risk of QT interval prolongation (see section 4.4).
central nervous system disorders. The most common symptoms (> 10%) were dizziness (27% vs. 35%) and headache (11% vs. 11%).	Atovaquone/ proguanil	↓ atovaquone ↓ proguanil	Concomitant administration is not recommended.
Late-onset neurotoxicity, including ataxia and encephalopathy (impaired consciousness, confusion, psychomotor slowing, psychosis, delirium), may occur months to years after beginning efavirenz therapy. Some events of late-onset neurotoxicity have occurred in patients with CYP286 genetic polymorphisms which are associated with increased efavirenz levels despite daily dosages of 600 mg of efavirenz. Patients presenting with signs and symptoms of serious neurologic adverse experiences should be evaluated promptly to assess the possibility that these events may be related to efavirenz use, and whether discontinuation of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets is warranted.	Calcium channel blockers: Diltiazem	↓diltiazem* ↓ desacetyl dilti- azem* ↓ N-monodesmeth- yldiltiazem*	Diltiazem dose adjustments should be guided by clinical response (refer to the full prescribing information for diltiazem).
Embryo-fetal toxicity EFV, a component of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablet, may cause fetal harm when administered during the first trimester to a pregnant woman. Advise females of reproductive potential who are receiving EFV to avoid pregnancy (see section 4.6).	Others (e.g., felodipine, nicardipine, nifedipine, verapamil)	↓ calcium channel blocker	When coadministered with EFV, dosage adjustment of calcium channel blocker may be needed and should be guided by clinical response (refer to the full prescribing information for the calcium channel blocker).
Skin and systemic hypersensitivity reaction In controlled clinical trials, 26% (266/1008) of patients treated with 600 mg EFV experienced new-onset skin rash compared with 17% (111/635) of patients treated in control groups. Rash associated with blistering, moist desquamation,	HMG-CoA reductase inhibitors: Atorvastatin Pravastatin	↓ atorvastatin* ↓ pravastatin*	Plasma concentrations of atorvastatin, pravastatin, and simvastatin decreased. Consult the full prescribing information for the full prescribing information for the full prescribing information for the full prescribing in the full prescribing information for the full prescribing information for the full prescribing in the full prescribing i

tion for the HMG-CoA reductase inhibitor for guidance

	sidered (see section 4.3). In the ENCORE1 study at Week 48, different types of rash (such as rash, rash papular, rash maculopapular and rash pruritic) occurred in 32% of EFV 600 mg recipients and 26% of EFV 400 mg recipients. Grade 3-4 rash was reported	Hepatitis C antiviral agents: Boceprevir	↓ boceprevir*	Concomitant administration of boceprevir is not recommended.
	in 3% of EFV 600 mg recipients and 1% of EFV 400 mg recipients. The discontinuation rate for rash in the ENCORE1 study was 3% of EFV 600 mg recipients and 1% of EFV 400 mg recipients. Hepatotoxicity	Elbasvir/Grazoprevir	↓ elbasvir ↓ grazoprevir	Coadministration of EFV with elbasvir/grazoprevir is contra- indicated (see section 4.3) because it may lead to loss of virologic response to elbasvir/grazoprevir.
-	Postmarketing cases of hepatitis, including fulminant hepatitis progressing to liver failure requiring transplantation or resulting in death, have been reported in patients treated with EFV. Reports have included patients with underlying hepatic disease, including coinfection with hepatitis B or C, and patients without pre-existing hepatic disease or other identifiable risk factors.	Pibrentasvir/Glecaprevir	↓ pibrentasvir ↓ glecaprevir	Coadministration of EFV is not recommended because it may lead to reduced therapeutic effect of pibrentasvir/ glecaprevir.
	EFV, a component of Efavirenz/ Lamivudine/ Tenofovir disoproxil fumarate tablet, is not recommended for patients with	Simeprevir	↓ simeprevir* ↔ EFV	Concomitant administration of simeprevir is not recommended.
	moderate or severe hepatic impairment. Careful monitoring is recommended for patients with mild hepatic impairment receiving EFV (see section 4.8).	Velpatasvir/Sofosbuvir	↓ velpatasvir	Coadministration of EFV and sofosbuvir/velpatasvir is not recommended because it may result in loss of therapeutic
	Monitoring of liver enzymes before and during treatment is recommended for all patients (see section 4.2). Consider discontinuing Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets in patients with persistent elevations of serum transaminases to greater than five times the upper limit of the normal range.	Velpatasvir/Sofosbuvir/ Voxilaprevir	↓ velpatasvir ↓ voxilaprevir	effect of sofosbuvir/velpatasvir. Coadministration of EFV and sofosbuvir/velpatasvir/voxila- previr is not recommended because it may result in loss of
	Discontinue Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets if elevation of serum transaminases is accompanied by clinical signs or symptoms of hepatitis or hepatic decompensation.	Ledipasvir/Sofosbuvir	↑ TDF	therapeutic effect of sofosbuvir/velpatasvir/voxilaprevir. Monitor for adverse reactions associated with TDF.
-	Pancreatitis In pediatric patients with a history of prior antiretroviral nucleoside exposure, a history of pancreatitis, or other significant risk factors for the development of pancreatitis, 3TC, a component of Efavirenz/Lamivudine/Tenofovir disoproxil	Hepatitis B antiviral agents Adefovir dipivoxil		Concomitant administration of adefovir dipivoxil is not recommended.
	fumarate tablet, should be used with caution. Treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets should be stopped immediately if clinical signs, symptoms, or laboratory abnormalities suggestive of pancreatitis occur (see section 4.8).	Hormonal contraceptives: Oral Ethinyl estradiol/ Norgestimate	↓ active metabolites of norgestimate*	A reliable method of barrier contraception should be used in addition to hormonal contraceptives.
- e 1	Convulsions Convulsions have been observed in patients receiving EFV, generally in the presence of known medical history of seizures (see section 5.3). Caution should be taken in any patient with a history of seizures. Patients who are receiving concomitant anticonvulsant medications primarily metabolized by the liver, such as phenytoin and phenobarbital, may require periodic monitoring of plasma levels (see section 4.5).	Implant Etonogestrel	↓ etonogestrel	A reliable method of barrier contraception should be used in addition to hormonal contraceptives. Decreased exposure of etonogestrel may be expected. There have been postmarketing reports of contraceptive failure with etonogestrel in EFV-exposed patients.
3	<u>Lipid elevations</u> Treatment with EFV has resulted in increases in the concentration of total cholesterol and triglycerides. Cholesterol and triglyceride testing should be performed before initiating EFV therapy and at periodic intervals during therapy.	Immunosuppressants: Cyclosporine, tacrolimus, sirolimus, and others metab-	↓ immunosuppres- sant	Dose adjustments of the immunosuppressant may be required. Close monitoring of immunosuppressant concen-
j	Bone loss and mineralization effects Bone mineral density (BMD)	olized by CYP3A		trations for at least 2 weeks (until stable concentrations are reached) is recommended when starting or stopping

Monitor for signs of methadone withdrawal and increase

<u>Mineralization defects</u>

Undine/Tenofovir disoproxil fumarate tablet is not recommended for use in patients weighing less than undine/Tenofovir disoproxil fumarate tablet is not recommended for use in patients weighing less than undine/Tenofovir disoproxil fumarate tablet, is predominantly eliminated in the distribution of the distribution of

Immune reconstitution syndrome
Immune reconstitution syndrome has been reported in HIV-infected patients treated with combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose therapy, including EFV, 3TC, and TDF. During the initial phase of combination antiretroviral treatment, patients whose the patients who are treatment to the patients who are t

Based on prospective reports from the APR of approximately 1000 live births following exposure to EFV-containing regimens (including over 800 live births exposed in the first trimester), there was no difference between EFV and overall birth defects compared with the background birth defect rate of 2.7% in the U.S. reference population of the Metropolitan Atlanta Congenital Defects Program. As of the interim APR report issued December 2014, the prevalence of birth defects following first-trimester exposure was 2.3% (95% CI: 1.4%-3.6%). One of these prospectively reported defects with first-trimester exposure was a neural tube defect. A single case of anophthalmia with first-trimester exposure to EFV has also been prospectively reported. This case also included severe oblique facial clefts and amniotic banding, which have a known association with anophthalmia.

Lamivudine: Based on prospective reports from the APR of over 11,000 exposures to 3TC during pregnancy resulting in live births (including over 4,300 exposed in the first trimester), there was no difference between 3TC and overall risk of birth defects for 3TC compared with the background birth defect rate of 2.7% in the U.S. reference population of the MACDP. The prevalence of defects in live births was 3.1% (95% Cl: 2.6% to 3.6%) following first trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 2.8% (95% Cl: 2.5% to 3.3%) following second/third trimester exposure to 3TC-containing regimens and 3TC-containing regimens and 3TC-containing regimens and 3TC-containing regi

3TC concentrations were generally similar in maternal, neonatal, and umbilical cord serum samples. In a subset of subjects, amniotic fluid specimens were collected following natural rupture of membranes and confirmed that 3TC concentrations were generally similar in maternal, neonatal, and umbilical cord serum samples. In a subset of subjects, amniotic fluid specimens were collected following natural rupture of membranes and confirmed that 3TC concentrations were generally similar in maternal, neonatal, and umbilical cord serum samples. In a subject so the trial and this feducation was a subject so that the first state of the trial and this feducation was a subject so that the first state of the trial and this feducation was a subject so that the first state of t subjects, amniotic fluid specimens were collected following natural rupture of membranes and confirmed that 3TC crosses the placenta in humans. Based on limited data at delivery, median (range) amniotic fluid concentrations of 3TC crosses the placenta in humans. Based on limited data at delivery, median (range) amniotic fluid concentrations of 3TC reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 2TDF containing and subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C reported in 4 subjects in the 4T group. In addition, there were significant

Tenofovir disoproxil furnarate: Based on prospective reports from the APR exposures to TDF-containing regimens during pregnancy resulting in live births (including 3,342 exposed in the first trimester and 1,475 exposed in the second/third trimester), there was no increase in overall major birth defects with TDF compared with the background birth defects rate of 2.7% in a U.S. reference population of the MACDP. The prevalence of major birth defects in live births was 2.3% (95% CI: 1.8% to 2.8%) with first trimester exposure to TDF-containing regimens, and 2.1% (95% CI: 1.4% to 2.0%) with the second/third trimester exposure to TDF-containing regimens.

TDF group relative to the d41 group; however, except for bone-specific aixaiine phosphratase, unese drainges resulted in values that remained within the normal range (see section 4.4).

Postmarketing experience
This medicine contains lactose and sodium

nal comparator group. Limitations of using an external comparator include differences in methodology and populations, In published data from three controlled clinical trials, a total of 327 pregnant women with chronic HBV infection were administered tenofovir disoproxil fumarate from 28 to 32 weeks gestation through 1 to 2 months postpartum and followed for up to 12 months after delivery. There were no new safety findings in pregnant women compared with the known safety profile of tenofovir disoproxil fumarate in HBV-infected adults. An increased risk of adverse pregnancy-related outcomes was not observed; 2 stillbirths were identified, and there was 1 major birth defect (talipes) and 1 occurrence of multiple congenital abnormalities (not further specified) in tenofovir disoproxil furnarate-exposed infants.

Breast-feeding

Efavirenz: EFV has been shown to pass into human breast milk. There is no information available on the effects of EFV

Musculoskeletal: arthralgia, myalgia, myopathy. Lamivudine: 3TC is present in human milk. Samples of breast milk obtained from 20 mothers receiving 3TC monotherapy, 300 mg twice daily (2 times the dose in efavirenz, lamivudine and tenofovir disoproxil fumarate), had measurable paranoia, psychosis, suicide, catatonia. concentrations of 3TC. There is no information on the effects of 3TC on the breastfed infant, or the effects of 3TC on Respiratory; dyspnea.

(see Data). It is not known if tenofovir affects milk production or has effects on the breastfed child. Because of the potential for (1) HIV transmission (in HIV-negative infants); (2) developing viral resistance (in HIV-pos-Because of the potential for (1) HIV transmission (in HIV-negative infants); (2) developing viral resistance (in HIV-positive infants); and (3) adverse reactions in a breastfeed infant similar to those seen in adults, instruct mothers not to breastfeed if they are receiving Effectional, animalizing Confouring Instructional Confouring Instruction (1) HIV transmission (in HIV-negative infants); (2) developing viral resistance (in HIV-positive infants); (2) developing viral resistance (in HIV-positive infants); (3) developing viral resistance (in HIV-positive infants); (4) developing viral resistance (in HIV-positive infants); (5) developing viral resistance (in HIV-positive infants); (5) developing viral resistance (in HIV-positive infants); (6) developing viral resistance (in HIV-positive infants); (6) developing viral resistance (in HIV-positive infants); (6) developing viral resistance (in HIV-positive infants); (7) developing viral resistance (in HIV-positive infants); (7) developing viral resistance (in HIV-positive infants); (8) developing viral resistance (in HIV-positive infants) breastfeed if they are receiving Efavirenz/Lamivudine/Tenofovir disoproxil fumarate tablets. Because of potential teratogenic effects, pregnancy should be avoided in women receiving Efavirenz/Lamivudine/ General: weakness.

Tenofovir disoproxil fumarate tablets (see section 4.4). males of reproductive potential should undergo pregnancy testing before initiation of Efavirenz/Lamivudine/Teno- 4.4).

fumarate tablets due to the long half-life of EFV. Barrier contraception should always be used in combination with

Tenofovir disoproxil fumarate other methods of contraception. Hormonal methods that contain progesterone may have decreased effectiveness in the individual of the indiv (see section 4.5). 4.7 Effects on ability to drive and use machines No studies on the effects on ability to drive and use machines have been performed. However, dizziness has been reported during treatment with efavirenz and tenofovir disoproxil. Efavirenz may also cause impaired concentration and/ Gastrointestinal disorders: pancreatitis, increased amylase, abdominal pain.

hazardous tasks such as driving and operating machinery. 4.8 Undesirable effects The following adverse events have been reported in clinical trials during treatment of HIV-1 infection with efavirenz,

Hepatibilitary disorders: hepatic steatosis, hepatitis, increased liver enzymes (most commonly AST, ALT gamma GT). lamivudine and tenofovir disoproxil.

combination with 3TC and EFV for 144 weeks. The most common adverse reactions were mild to moderate gastro-intestinal events and dizziness. Mild adverse reactions (Grade 1) were common with a similar incidence in both arms

General disorders and administration site conditions: asthenia. and included dizziness, diarrhea, and nausea. Table 2 provides the treatment-emergent adverse reactions (Grades

The following adverse reactions, listed under the body system headings above, may occur as a consequence of 2-4) occurring in greater than or equal to 5% of subjects treated in any treatment group.

Table 2. Selected Adverse Reactions³ (Grades 2-4) Reported in ≥ 5% in Any Treatment Group in Trial 903

	TDF + 3TC + EFV	d4T + 3TC + EFV
	N = 299	N = 301
Rash event ^b	18%	12%
Headache	14%	17%
Pain	13%	12%
Diarrhea	11%	13%
Depression	11%	10%
Back pain	9%	8%
Nausea	8%	9%
Fever	8%	7%
Abdominal pain	7%	12%
Asthenia	6%	7%
Anxiety	6%	6%
Vomiting	5%	9%
Insomnia	5%	8%
Arthralgia	5%	7%
Pneumonia	5%	5%
Dyspepsia	4%	5%
Dizziness	3%	6%
Myalgia	3%	5%
Lipodystrophy ^c	1%	8%
Peripheral neuropathy ^d	1%	5%

Frequencies of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship ° Rash event includes rash, pruritus, maculopapular rash, urticaria, vesiculobullous rash, and pustular rash Elipodystrophy represents a variety of investigator-described adverse events not a protocol-defined syndrome Peripheral neuropathy includes peripheral neuritis and neuropathy.

he most common adverse reactions seen in a double-blind comparative controlled study in which 630 treatment-naïve subjects received EFV 400 mg (N = 321) or EFV 600 mg (N = 309) in combination with fixed-dose emtricitabine (FTC)/ TDF for 48 weeks were mild to moderate gastrointestinal events, dizziness, abnormal dreams, and rash. Selected clinical adverse reactions of moderate or severe intensity reported in ≥ 2% of treatment-naive patients receiving combination therapy including EFV 400 mg and EFV 600 mg are presented in Table 3. Table 3. Selected Adverse Reactions³ (Grades 2-4) Reported in ≥ 2% in Either Treatment Group in the EN-

	EFV 400 mg + FTC/TDF	EFV 600 mg + FTC/TDF
	N = 321	N = 309
ash event⁵	9%	13%
zziness	6%	9%
somnia	3%	4%
onormal dreams	2%	2%
eadache	1%	3%
arrhea	2%	3%
omiting	1%	2%
yrexia	2%	1%
oper respiratory tract infection	3%	1%
asopharyngitis	3%	2%
erpes zoster	3%	1%
astroenteritis	2%	2%

pruritic, rash vesicular, and urticaria. Laboratory abnormalities: Table 4 provides a list of laboratory abnormalities (Grades 3-4) observed in Trial 903. With

• have liver problems, including hepatitis B or C infection the exception of fasting cholesterol and fasting triglyceride elevations that were more common in the d4T group (40% and 9%) compared with the TDF group (19% and 1%) respectively, laboratory abnormalities observed in this trial • have a history of mental health problems occurred with similar frequency in the TDF and d4T treatment arms Table 4. Grade 3-4 Laboratory Abnormalities Reported in ≥ 1% of Patients Randomized to Efavirenz, Lamivu-

	` ,		
	TDF + 3TC + EFV	d4T + 3TC + EFV	
	N = 299	N = 301	
y ≥ Grade 3 Laboratory Abnormality	36%	42%	
sting Cholesterol (> 240 mg/dL)	19%	40%	
eatine Kinase (M: > 990 U/L; F: > 845 U/L)	12%	12%	
rum Amylase (> 175 U/L)	9%	8%	
T (M: > 180 U/L; F: > 170 U/L)	5%	7%	
T (M: > 215 U/L; F: > 170 U/L)	4%	5%	
maturia (> 100 RBC/HPF)	7%	7%	
utrophils (< 750/mm3)	3%	1%	
sting Triglycerides (> 750 mg/dL)	1%	9%	

dine and Tenofovir Disoproxil Fumarate in Study 903 (0-144 Weeks)

Laboratory Parameter	EFV 400 mg + FTC + TDF	EFV 600 mg + FTC + TD	
	N = 321	N = 309	
ALT	5%	3%	
AST	2%	2%	
Total bilirubin	0.3%	3%	
Cholesterol	2%	5%	
Neutrophils	2%	3%	
Phosphorus	2%	3%	

perienced pediatric subjects receiving 3TC alone or in combination with other antiretroviral agents (see section 4.4).

If you are able to become pregnant, your healthcare provider should do a pregnancy test before you start Efavirenz/ assessed pharmacokinetics in 16 women at 36 weeks' gestation using 150 mg 3TC twice daily with zidovudine, 10 percentage decrease from baseline in BMD at the lumbar spine in subjects receiving TDF + 3TC + EFV (-2.2% ± 3.9)

Do not breastfeed if you take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. women at 38 weeks' gestation using 150 mg 3TC twice daily with zidovudine, and 10 women at 38 weeks' gestation using 3TC 300 mg twice daily without other antiretrovirals. These trials were not designed or powered to provide efficacy information.

compared with subjects receiving 4T + 3TC + EFV (-1.0% ± 4.6) through 144 weeks. Changes in BMD at the hip were similar between the two treatment groups (-2.8% ± 3.5 in the TDF group vs. -2.4% ± 4.5 in the d4T group). In efficacy information. Tenofovir disoproxil fumarate: Based on prospective reports from the APR exposures to TDF-containing regimens

TDF group relative to the d4T group; however, except for bone-specific alkaline phosphatase, these changes resulted

and drowsiness. Lamivudine is unlikely to affect your ability to drive or use machines.

ported voluntarily from a population of unknown size, it is not always possible to reliably estimate their frequency or Prospective reports from the APR of overall major birth defects in pregnancies exposed to TDF are compared with a U.S. background major birth defect rate. Methodological limitations of the APR include the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of MACDP as the external expressions of the APR includes the use of the APR includes the use of the APR includes the use of the APR includes the us Body as a whole: allergic reactions, asthenia, redistribution/accumulation of body fat (see section 4.4).

Infants were followed for up to 12 months after delivery; there were no clinically relevant drug-related safety findings in Cardiovascular: flushing, palpitations. Liver and biliary system; hepatic enzyme increase, hepatic failure, hepatitis, Metabolic and nutritional: hypercholesterolemia, hypertriglyceridemia.

Skin and appendages: erythema multiforme, photoallergic dermatitis, Stevens-Johnson

Tenofovir disoproxil fumarate: Based on published data, tenofovir has been shown to be present in human breast milk syndrome. Special senses: abnormal vision, tinnitus. Endocrine and metabolic: hyperglycemia.

> Hemic and lymphatic: anemia (including pure red cell aplasia and severe anemias progressing on therapy). Hepatic and pancreatic: lactic acidosis and hepatic steatosis, posttreatment exacerbation of hepatitis B (see section Hypersensitivity: anaphylaxis, urticaria.

Females of reproductive potential should use effective contraception during treatment with Efavirenz/Lamivudine/
Tenofovir disoproxil fumarate tablets and for 12 weeks after discontinuing Efavirenz/Lamivudine/Tenofovir disoproxil

Skin: Alopecia, pruritus.

or somnolence. Patients should be instructed that if they experience these symptoms, they should avoid potentially

**Renal and urinary disorders: renal insufficiency, acute renal failure, renal failure, acute tubular necrosis, Fanconi syndrome, proximal renal tubulopathy, interstitial nephritis (including acute cases), nephrogenic diabetes insipidus, renal Skin and subcutaneous tissue disorders: rash. Clinical trials in treatment-naïve HIV-1 infected adult subjects
In Trial 903, 600 antiretroviral-naïve subjects received TDF (N = 299) or stavudine (d4T) (N = 301) administered in may contribute to fractures), muscular weakness, myopathy.

Musculoskeletal and connective tissue disorders: rhabdomyolysis, osteomalacia (manifested as bone pain and which may contribute to fractures), muscular weakness, myopathy.

> proximal renal tubulopathy: rhabdomyolysis, osteomalacia, hypokalemia, muscular weakness, myopathy, hypophos-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 local reporting system. overdose occurs, the patient must be monitored for evidence of toxicity, and standard supportive treatment applied as necessary.

Some patients accidentally taking 600 mg twice daily have reported increased nervous system symptoms. One patient Treatment of overdose with EFV should consist of general supportive measures, including monitoring of vital signs o confusion and observation of the patient's clinical status. Administration of activated charcoal may be used to aid removal of sorbed drug. There is no specific antidote for overdose with efavirenz. Since efavirenz is highly protein bound, dialysis is unlikely to significantly remove the drug from blood.

hemodialysis would provide clinical benefit in a 3TC overdose event. Tenofovir disoproxil fumarate imited clinical experience at doses higher than the therapeutic dose of TDF 300 mg is available. enofovir is efficiently removed by hemodialysis with an extraction coefficient of approximately 54%. Following a 💢 o feel sad or hopeless

single 300 mg dose of tenofovir disoproxil fumarate, a 4-hour hemodialysis session removed approximately 10% of office anxious or restless the administered tenofovir dose. 5. PHARMACOLOGICAL PROPERTIES 5.1 Pharmacodynamic properties Pharmacotherapeutic group: Antivirals for treatment of HIV infections, combinations; ATC code: J05AR11. Mechanism of action

favirenz/Lamivudine/Tenofovir disoproxil fumarate tablet is a fixed-dose combination of antiviral drugs EFV, 3TC, and TDF with antiviral activity against HIV-1

PATIENT INFORMATION LEAFLET Patient information leaflet: Information for the patient Efavirenz/Lamivudine/Tenofovir disoproxil fumarate 400 mg/300 mg/300 mg film-coated Tablets

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 If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this

What is in this leaflet . What Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet is and what it is used for 2. What you need to know before you take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets

. How to take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets Possible side effects

5. How to store Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets

HIV-1 is the virus that causes AIDS (Acquired Immune Deficiency Syndrome)

6. Contents of the pack and other information 1. What Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet is and what it is used for Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet is a prescription medicine that is used without other antiretviral medicines to treat Human Immunodeficiency Virus-1 (HIV-1) in people weighing at least 35 kg.

Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet contains the prescription medicines efavirenz, lamivudine and tenofovir disoproxil fumarate. 2. What you need to know before you take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets Do not use Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets

If you are allergic to efavirenz, lamivudine, tenofovir disoproxil fumarate, or any of the other ingredients of this ^b Rash events include dermatitis allergic, drug hypersensitivity, pruritus generalized, eosinophilic pustular folliculitis, — are currently taking elbasvir and grazoprevir.

rash, rash erythematous, rash generalized, rash macular, rash maculopapular, rash morbilliform, rash papular, rash Warnings and precautions

 have a history of drug or alcohol abuse have a heart problem, including QT prolongation have bone problems, including a history of bone fractures have a history of seizures

Children and adolescents

Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet is not for use in children weighing less than 35 kg. Other medicines and Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, Some medicines interact with efavirenz, lamivudine and tenofovir disoproxil fumarate. Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets may affect the way other medicines work, and other medicines may affect how Efavirenz/ Lamivudine/Tenofovir disoproxil fumarate Tablet works. Keep a list of your medicines and show it to your healthcare provider and pharmacist when you get a new medicin You can ask your healthcare provider or pharmacist for a list of medicines that interact with Efavirenz/Lamivudine/

Do not start taking a new medicine without telling your healthcare provider. Your healthcare provider can tell you if it is safe to take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets with other medicines. You should avoid taking medicines that contain sorbitol during treatment with Efavirenz/Lamivudine/Tenofovir diso-Pregnancy and breast feeding

If you are pregnant or breast-feeding, think you may be pregnant, are planning to have a baby or planning to breastfeed, ask your doctor for advice before starting to use Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets may harm your unborn baby. You should not become pregnant during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. Tell your healthcare provider right away if you think you may be pregnant or become pregnant during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. Females who are able to become pregnant should use effective birth control during treatment with Efavirenz/Lamirudine/Tenofovir disoproxil fumarate Tablets and for 12 weeks after stopping treatment. A barrier form of birth control

This medicine contains lactose monohydrate. If you have been told by your doctor that you have an intolerance to

Always use this medicine exactly as your doctor has told you. Check with your doctor if you are not sure. Take Efavirenz/Lamiyudine/Tenofovir disoproxil fumarate Tablets 1 time each day, preferably at bedtime, Taking Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets at bedtime might help to make some of the side effects less

Take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets on an empty stomach Stay under the care of your healthcare provider during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fu-

If you take more Efavirenz/Lamiyudine/Tenofovir disoproxil fumarate Tablets than you should If you take too much Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets, go to the nearest hospital emergencyroom right away. If you forget to take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets Do not miss a dose of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. If you miss a dose, take the missed

dose as soon as you remember. If it is almost time for your next dose of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets, do not take the missed dose. Take the next dose at your regular time. If you stop taking Efavirenz/Lamiyudine/Tenofovir disoproxil fumarate Tablets Do not run out of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. The virus in your blood may increase and the virus may become harder to treat. When your supply starts to run low, get more from your healthcare provider

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.

Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets can cause serious side effects, including: Worsening of Hepatitis B virus infection. If you have Human Immunodeficiency Virus type 1 (HIV-1) and Hepatitis
 B Virus (HBV) infection, your HBV may get worse (flare-up) if you stop taking Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. A "flare-up" is when your HBV infection suddenly returns in a worse way than before. Your healthcare provider will test you for HBV infection before you start treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. o It is not known if efavirenz, lamivudine and tenofovir disoproxil fumarate is safe and effective in people who have both HIV-1 and HBV infection.

Do not run out of Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. Refill your prescription or talk to

your healthcare provider before your Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablet is all gone.

Do not stop Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets without first talking to your healthcare provider. If you stop taking Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets, your healthcare provider. care provider will need to check your health often and do blood tests regularly for several months to check your

z/Lamivudine/Tenofovir disoproxil fumarate Tablets may cause serious side effects, including: • Build-up of an acid in your blood (lactic acidosis). Lactic acidosis can happen in some people who take Efane/Tenofovir disoproxil fumarate Tablets. Lactic acidosis is a serious medical emergency that can lead to death. Call your healthcare provider right away if you get any of the following symptoms that could be signs of lactic acidosis:

feel cold, especially in your arms and legs feel dizzy or lightheaded unusual (not normal) muscle pain trouble breathing have a fast or irregular heartbeat stomach pain with nausea or vomiting

 Severe liver problems can happen in people who take Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. In some cases, these severe liver problems can lead to death. Your liver may become large (hepatomegaly) and you may develop fat in your liver (steatosis). Inflammation of your liver (hepatitis) that can lead to liver failure requiring a liver transplant has been reported in some people treated with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets. Your healthcare provider may do blood tests to check your liver before and during treatment with Efavirenz/ Lamivudine/Tenofovir disoproxil fumarate Tablets. Call your healthcare provider right away if you get any of the following signs or symptoms of liver problems: o your skin or the white part of your eyes turns o loss of appetite for several days or longer

dark or "tea-colored" urine nausea and vomiting light-colored stools (bowel movements)
 pain, aching, or tenderness on the right side of weakness

o tiredness stomach (abdomen) swelling You may be more likely to get lactic acidosis or serious liver problems if you are female or very overweight • New or worse kidney problems, including kidney failure. Your healthcare provider may do blood and urine tests standard supportive treatment applied as required because a negligible amount of 3TC was removed via (4-hour) hemodialysis, continuous ambulatory peritoneal dialysis, and automated peritoneal dialysis, it is not known if continuous

to check your kidneys before and during treatment with Efavirenz/Lamivudine/Tenofovir disoproxil fumarate Tablets.

Tell your healthcare provider if you get signs and symptoms of kidney problems, including bone pain that does not go away or worsening bone pain, pain in your arms, hands, legs or feet, broken (fractured) bones, muscle pain or · Serious mental health problems. Get medical help right away if you get any of the following symptoms:

o are not able to move or speak normally

o have thoughts of hurting yourself (suicide) or have tried to hurt yourself or others

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