# Vitricomb®

# Emtricitabine / Tenofovir Disoproxil Fumarate / Efavirenz

# FORMS AND PRESENTATION Vitricomb<sup>®</sup>: Film Coated tablets: Box of 30

COMPOSITION

COMPOSITION Vitricomb<sup>5</sup>: Each film coated tablet contains Emtricitabine 200mg, Tenofovir Disoproxil Fumarate 300mg equivalent to 245mg of Tenofovir Disoproxil and Efavirenz 600mg. Excipients: Microcrystalline cellulose, Croscamellose sodium, Sodium Iaruyl sulphate, Hydroxy propyl cellulose, Magnesium stearate, Polyvinyl alcohol, Titanium Dioxide, Macrogol, Tale, Red iron oxide non-irradiated, Black iron oxide non-irradiated

PHARMACOLOGICAL PROPERTIES Pharmacodynamic properties Pharmacotherapeutic group: Antiviral for systemic use, antivirals for treatment of HIV infections, combinations. ations. ode: J05AR06.

combinations. ATC code: J05AR06. <u>Mechanism of action</u> <u>Mechanism of action</u> (RT) and does not significantly inhibit human immunodeficiency virus-2 (HIV-2) RT or cellular deaynthomachics acid (DNA) polymerases (a, β, γ, and b). Emitricitable is a nucleoside analogue of cytidine: uncleoside analogue of addenosine monophosphate functional polymerases of the polymerase of the polymerase of the polymerase functional polymerase of the polymerase of the polymerase of the polymerase triphosphate and tenofovir are phosphorylated by cellular enzymes to form emtricitable emtricitable and tenofovir (an bhosphate; respective). In vitro studies have shown that both emtricitable in triphosphate; and tenofovir diphosphate; respectively inhibit HIV-1 reverse transcriptase, resulting in DNA chain termination. Both emtricitable triphosphate and tenofovir diphosphate are weak inhibitors of mammalian DNA polymerases and there was no evidence of toxicity to mitochondria in vitro. <u>Pharmacolitable triphosphate</u>, and the polymerase on the polymerases and there was no evidence of toxicity to mitochondria in vitro and in vivo. <u>Pharmacolitable triphosphate</u>, and the polymerases on the polymerases and the polymerases and the polymerases and the polymerases and the respectively the phosphate and tenofovir and polymerases and the respectively the shown of the phosphate and tenofovir and phate and tenofovir and phase and tenofovir and phate and tenofovir and phase and the p

Philimates the properties An HIG Scheduler properties An HIG Scheduler properties An HIG Scheduler properties An HIG Scheduler and Antiperties and Antiperties and Antiperties teady-state concentrations reached in 6 to 7 days. In 35 patients receiving efavirenz 600 mg once daily, steady-state peak concentrations (Cmax) was  $129 \pm 3.7 \,\mu\text{M}$  (29%) [mean ± standard deviation (S.D.) (coefficient of variation (Cmax) was  $129 \pm 3.7 \,\mu\text{M}$  (29%)] mean ± standard deviation (S.D.) (coefficient of variation (Cmax)) was  $129 \pm 3.7 \,\mu\text{M}$  (29%) [mean ± standard deviation (S.D.) (coefficient of variation (Cmax)) was  $129 \pm 3.7 \,\mu\text{M}$  (29%) [mean ± standard deviation steady-state cmax was  $184 \pm 70.7 \,\mu\text{gm}$  (mean = 5.D.) (39%/CV), steady-state Cmain was 0.09  $\pm 0.07 \,\mu\text{gm}$  (80%) and the AUC was 10.0  $\pm 3.1 \,\mu\text{gr}/\text{m}$  (31%) over a 24 hour dosing interval. Following or Cmax was  $184 \pm 75 \,\mu\text{GM}$  (we cmax was  $184 \pm 75 \,\mu\text{gm}$  dose of tenofovir disporting functions tendy-state cmax was  $184 \pm 75 \,\mu\text{gm}$  (mean = 5.D.) (39%/CV), steady-state Cmain was 0.09  $\pm 0.07 \,\mu\text{gm}$ (G0/CM) (G0%), and the AUC was 10.0  $\pm 3.1 \,\mu\text{gr}/\text{m}$  (31%) over a 24 hour dosing interval. Following on administration of a single 245 mg dose of tenofovir disporting functions for Cmax and AUC (mean  $\pm 5.D.)$  (39%/CV) values were 266  $\pm 90 \,\mu\text{gm}$ (30%) and 2,287  $\pm$ (885 ng h/m1 (30%), respectively. The oral bioavailability of tenofovir from tenofovir disporting liminate in fasted patients was approximately 25%. <u>Distribution</u>

Itumarate in tasted patients was approximately 25%. Distribution Efavirenzi shighly bound (> 99%) to human plasma proteins, predominantly albumin. In vitro binding of emtricitabine to human plasma proteins is < 4% and independent of concentrations over the range of 0.02 to 200  $\mu$ g/ml. Following intravenous administration the volume of distribution of emtricitabine was approximately 1.4 kkg. After oral administration, entricitabine is widely distributed throughout the body. The mean plasma to blood concentration ratio was approximately 1.0 and the mean semen to plasma concentration ratio was approximately 4.0.

ratio was approximately 1.0 and the mean semen to plasma concentration ratio was approximately 4.0. In vitro binding of tenofovir to human plasma or serum protein is < 0.7% and 7.2%, respectively over the tenofovir concentration range 0.01 to 25 µg/ml. Following intravenous administration the volume of distribution of tenofovir was approximately 800 ml/kg. After oral administration, tenofovir is widely distributed throughout the body. <u>Biotransformation</u> Statistical manipally metabolised by the CYP system in bydroxylated metabolities with subsequent glucaronidation of these hydroxylated metabolities. These metabolites are essentially inactive against HIV-1. The in vitro studies suggest that CYPB3A4 and CYP2B6 are CYP1A2 only at concentrations well above those achieved clinically. Effavirenz plasma exposure may be increased in patients with homozygous G516T genetic variant of the CYP2B6 isozyme. The clinical implications of such an association are unknown; however, the potential for an increased frequency and severity of clavirenz-associated adverse events cannot be favirenz plasen shown to induce CYP3A4 and CYP2B6, resulting in the induction of its own

the potential for an increased frequency and severity of efavirenz-associated adverse events cannot Eqavirenz has been shown to induce CYP3A4 and CYP2B6, resulting in the induction of its own metabolism, which may be clinically relevant in some patients. In uninfected volunteers, multiple does of 200 to 400 mg per day for 10 days resulted in a lower than predicted extent of accumulation (22 to 42% lower) and a shorter terminal half-life of 40 to 55 hours (single does half-life 52 to 76 hours). Efavirenz has also been shown to induce UGT1A1. Exposures of raltegravir (a UGT1A1 substrate) are reduced in the presence of efavirenz. Although in vitro data suggest that feavirenz inhibits CYP2C9 and CYP2C19, there have been contradictory reports of both increased and decreased exposures to substrates of these enzymes when co-administered with efavirenz in vivo. Then et effect of co-administration is not clear. There is limited metabolism of emtricitabine. The biotransformation of emtricitabine includes oxidation of the thiol moiety to form the 3<sup>3</sup>-sulphoxide diastercomers (approximately 4% of dose). In vitro studies have determined that neither tenofóvir inhibited in vitro medicinal product netabolism mediated by any of the major human CYP isoforms involved inbiotransformation of medicinal products. Also, emtricitabine did not inhibit uridin S<sup>2</sup>-diphoxphoglucuronyl transferase, the enzyme responsible for glucuronidation.

products. Also, emtricitabine did not inhibit uridine 5'-diphosphoglucuronyl transferase, the enzyme responsible for glucuronidation. <u>Elimination</u> Efavirenz has a relatively long terminal half-life of at least 52 hours after single doses and 40 to 55 hours after multiple doses. Approximately 14 to 34% of a radiolabelled dose of efavirenz was recovered in the urine and less than 1% of the down sufficient administration, the elimination half-life or multiple dose and environment of the urine approximately 10 hours. Entricitabine is approximately and faces (approximately 14%). Diffuent percent of the entricitabine is approximately 10 hours. Entricitabine is approximately and faces (approximately 14%). Diffuent percent of the entricitabine is of an administration and faces (approximately 14%). Diffuent percent of the entricitabine averaged 307 ml/min. Following oral administration the elimination half-life of tenofovir is approximately 12 to 18 hours. Fonfovir is primarily excreted by the kidneys by both filtration and an active tubular transport system with approximately 170 to 80% of the dose excreted unchanged approximately 307 ml/min. Renal clearance has been estimated to be approximately 210 ml/min, which is in excess of the glomerular filtration rate. This indicates that active tubular secretion is an important part of the elimination of tenofovir. **DIDICATIONS** 

INDICATIONS Vitricomb<sup>®</sup> is a fixed-dose combination of efavirenz, emtricitabine and tenofovir disoproxil fumarate. It is indicated for the treatment of human immunodeficiency virus-1 (HIV-1) infection in adults aged 18 years and over with virologic suppression to HIV-1 RNA levels of < 50 copies/ml on their current combination antiretroviral therapy for more than three months. Patients must not have experienced virological failure on any prior antiretroviral therapy and must be known not to have harboured virus strains with mutations conferring significant resistance to any of the three components contained in Vitricomb<sup>®</sup> prior to initiation of their first antiretroviral treatment regimen.

# regimen. CONTRAINDICATIONS •Hypersensitivity to the acti

regimen. **CONTRANDICATIONS** Hypersensitivity to the active substances or to any of the excipients of this product. Severe hepatic impairment (PCP, Class C). Co-administration with terfenadine, astemizole, cisapride, midazolam, triazolam, pimozide, berridil, or ergot alkaloids (for example, ergotamine, dihydroergotamine, ergonovine, and methylergonovine). Co-administration with voriconazole. Efavirenz significantly decreases voriconazole plasma concentrations while voriconazole also significantly increases efavirenz plasma concentrations. Since Viricomb<sup>\*</sup> is a fixed-lose combination product, the dose of efavirenz cannot be altered. Co-administration with herbal preparations containing SL John's wort (Hypericum perforatum) due to the risk of decreased plasma concentrations and reduced clinical effects of efavirenz. Co-administration with elbasvir/grazoprevir due to the expected significant decreases in plasma concentrations to feabasvir and grazoprevir. This effect is due to induction of CYP3A4 or P-gp by efavirenz and may result in loss of therapeutic effect of elbasvir/grazoprevir. Administration to patiens with: a family history of sudden death or of congenital prolengation of the OTe interval electrocardiograms, or with any other clinical condition known to prolong the OTe interval. - a history of symptomatic cardiac arrhythmias or with clinically relevant bradycardia or with congestive cardiac failure accompanied by reduced left ventricle ejection fraction. - severer disturbances of electrolyte balance e.g. hypokalaemia or hypomagenesemia. - Co-administration with medicinal products that are known to prolong the QTe interval (proarrhyth-mic). These medicinal products include: - anitarrhythmics of classes IA and III,

 neuroleptics, antidepressive agents,
certain antibiotics including some agents of the following classes: macrolides, fluoroquinolones,
imidazole and triazole antifungal agents,
certain non-sedating antihistamines (trefenadine, astemizole), certain no cisapride

flecainide, certain antimalarials

### PRECAUTIONS Co-administration

- methadone PRECAUTIONS Co-administration with other medicinal products - As a fixed combination, Vitricomb\* should not be administered concomitantly with other medicinal products containing the same active components, emtricitabine or tenofovir disoproxil fumarate. Vitricomb\* should not be co-administered with products containing efavirenz unless needed for dose adjustment e.g. with rifampicin. Due to similarities with entricitabine, Vitricomb\* should not be administered concomitantly with other cytidine analogues, such as lamivudine. Vitricomb\* should not be administered concomitantly with adefovir dipivoxil or with medicinal products containing tenofovir alafenamide. -Co-administration of Vitricomb\* and didanosine is not recommended. -Co-administration of Vitricomb\* and didanosine is not recommended. -Co-administration of Vitricomb\* and softwair/woltaparevir or softs/wir/woltaprevir is not recommended since plasma concentrations of velpatasvir and voxilaprevir are expected to decrease following co-administration with efavirenz leading to reduced therapeutic effect of softs/wir/welpatasvir or softs/wir/welpatasvir/woltaprevir. -Concomitant use of Ginkgo bibba extracts is not recommended. Switching from APL-based antiretroviral regimen

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Effect of 1000 The administration of Vitricomb\* with food may increase efavirenz exposure and may lead to an increase in frequency of adverse reactions. It is recommended that Vitricomb\* be taken on an empty stomach, preferably at bedtime.

Internet in requestly taking actions is recommended in a renorm of the entry Liver disease The pharmacokinetics, safety and efficacy of Vitricomb<sup>\*</sup> is contraindicated in patients with severe hepatic impairment and not recommended in patients with moderate hepatic impairment. Since effivienz is principally metabolised by the CVP system, caution should be carefully monitored for efficient adverse reactions, especially nervous system symptoms. Laboratory tests should be performed to evaluate their liver disease are periodic intervals. Patients with severe hepatic straines with pre-existing liver disfunction including chronic active hepatitis have an increased frequency of liver function abnormalities during combination antiretroviral therapy (CART) and should be monitored according to standard practice. If there is evidence of worsening liver disease and existing a straines to the protein straines to be weighed against the potential range, the henefit of continued therapy with Vitricomb<sup>\*</sup> needs to be weighed against the potential taks of significant liver toxicity. In such patients, interruption or discontinuation of framement must be considered.

range, the benefit of continued therapy with Vitricomb<sup>®</sup> needs to be weighed against the potential risks of significant liver toxicity. In such patients, interruption or discontinuation of treatment must be considered. In patients treated with other medicinal products associated with liver toxicity, monitoring of liver enzymes is also recommended. Patients with HV and hepatitis B (HBV) or C virus (HCV) co-infection Patients with HV and hepatitis B (HBV) or C virus (HCV) co-infection Patients with chronic hepatitis B (HBV) or C virus (HCV) co-infection Patients with chronic hepatitis B (HBV) or C virus (HCV) co-infection Patients with chronic hepatitis B (HBV) or C virus (HCV) co-infection function of the reatment of chronic HBV infection. Emitriciable and tenfoivri individually and in combination have shown activity against HBV in pharmacodynamic studies. Limited clinical experience suggests that emtricitable and tenfoivri individually and in combination have shown activity against HBV and phase takes an anti-HBV activity whon used in amittervoiral combination therapy to control HIV infection. Discontinuation of Vitricomb<sup>®</sup> therapy in patients co-infected with HIV and HBV who discontinue Vitricomb<sup>®</sup> must be closely monitored with both clinical and laboratory follow-up for at least four months after stopping treatment with Vitricomb<sup>®</sup>. The appropriate, resumption of anti-hepatitis B therapy may be warranted. In patients with advanced liver disease or cirthosis, treatment discontinuation is not recommended since post-treatment exacerbation. Payenhairic adverse reactions have been reported in patients treated with efavirenz. Patients with a prior history of gexychiatric disorders appear to be at greater risk of serious psychiatiric adverse reactions. In particular, severe deression, as more common in those with a history of depression or sincidal ideation, they should contact their doctor immediately to assess the possibility that the symptoms modulis, but not limited to, dizziness, insonnia, somnolence, impai

The distinct of subsequent onset of any of the less frequent psychiatric symptoms. <u>Desirum</u> <u>Desirum</u> <u>Convulsions</u> have been observed in patients receiving efavirenz, generally in the presence of a known medical history of seizures. Patients who are receiving economiant anticonvulsant medicinal products primarily metabolized by the liver, such as phenytoin, carbamazepine and phenobarbital, may require periodic monitoring of plasma levels. In a drug interaction study, carbamazepine plasma concentrations were decreased when carbamazepine was co-administered with efavirenz. Caution must be taken in any patient with a history of seizures. Renal imp<u>airment</u>

with elaviteriz. Caution must be taken in any patient with a nistory of setzures. Renal impairment Vitricomb<sup>6</sup> is not recommended for patients with moderate or severe renal impairment (creatinine clearance < 50 ml/min). Patients with moderate or severe renal impairment require a dose adjustment of entricitabine and tenofovir disoproxil fumarate that cannot be achieved with the combination tablet. Use of Vitricomb<sup>8</sup> should be avoided with concurrent or recent use of a nephrotoxic medicinal product. If concomitant use of Vitricomb<sup>8</sup> and nephrotoxic agents (e.g. aminoglycosides, amphoterion B, foscarnet, ganciclovir, pentamidne, vancomycin, eidofovir, interleukin-2) is unavoidable, renal function must be monitored weekly.

interletkin-2) IS unavoidance, remain function many or animatic structure for the st

risk for fractures. Bone abnormalities (infrequently contributing to fractures) may be associated with proximal renal tubulopathy. If hone abnormalities are suspected then appropriate consultation should be obtained. Skin reactions Mild-to-moderate rash has been reported with the individual components of the fixed-dose combination of favirenz/emtericitabine/tenofovir disoproxil. The rash associated with the fed-dose combination of favirenz/emtericitabine/tenofovir disoproxil. The rash associated with the fed-vierz component usually resolves with continued therapy. Appropriate antibistamines and/or corticosteroids may improve tolerability and hasten the resolution of rash. Severe rash associated with bilstering, moist desquamation or ulceration has been reported in less than 1% of patients treated with defavirenz. The incidence of crythema multiform or Stevens-John-son syndrome was approximately 0.1%. Efavirenz/Emtricitabine/Tenofovir disoproxil must be discontinued in patients developing severe rash associated with bilstering, desquamation, mucosal involvement or fever. Experience with efavirenz in patients who discontinued other antiretroviral discontinued have had a life-threatening cutaneous reaction (e.g. Stevens-Johnson syndrome) while taking an NNRTI. Weight and metabolic parameters An increase in weight and in levels of blood lipids and glucose may occur during antiretroviral therapy. Such changes may impart b linked to disease control and life style. For lipids, there is in some cases evidence for a treatment effect, while for weight gain there is no strong evidence relating function in HIV negative infants exposed in utero and/or postnatally to nucleoside analogues; these have predominantly concerned treatment with regimens containing, addouting her mani-disorders (hyperlicatenting). These events have often been transitor, tate onset neurological disorders have been reported in relevant being and hereabolic theramon. These findings should be considered for any child exposed in utero and/or postnatall

women to prevent vertical transmission of rux. <u>Immune Readitivation Syndrome</u> In HIV infected patients with severe immune deficiency at the time of institution 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 few weeks or months of initiation of CART. Relevant examples are cytomegalovirus retinitis, generalized and/or focal mycobacterial infections, and Pneumocystis jirovecii pneumonia. Any inflammatory symptoms should be evaluated and treatment instituted

and these events can locus many monus area initiation or treatment. <u>Osteonecrosis</u> Although the etiology is considered to be multifactorial (including corticosteroid use, alcohol consumption, severe immunosuppression, higher body mass index), cases of osteonecrosis have been reported particularly in patients with advanced HIV disease and/or long-term exposure to CART. Patients should be advised to seek medical advice if they experience joint aches and pain, joint stiffness or difficulty in movement. <u>Patients with HIV-1 harbouring mutations</u> Vitricomb\* should be avoided in patients with HIV-1 harbouring the K65R, M184V/I or K103N withfields.

mutation.

mutation. Elderly Vitricomb<sup>a</sup> has not been studied in patients over the age of 65. Elderly patients are more likely to have decreased hepatic or renal function; therefore caution should be exercised when treating elderly patients with Vitricomb<sup>a</sup>. Effects on ability to drive and use machines Dizziness has been reported during treatment with efavirenz, emtricitabine and tenofovir disoproxi flumarate. Efavirenz may also cause impaired concentration and/or somnolence. Patients should be instructed that if they experience these symptoms they should avoid potentially hazardous tasks such as driving and operating machinery. FERILITY, PREGNANCY AND LACTATION Women of childbearing potential.

FERTILITY, PREGNANCY AND LACTATION Women of childbearing potential Pregnancy should be avoided in women receiving Vitricomb<sup>®</sup>. Women of childbearing potential should undergo pregnancy testing before initiation of Vitricomb<sup>®</sup>. <u>Contraception in males and females</u> Barrier contraception should always be used in combination with other methods of contraception (for example, oral or other hormonal contraceptives) while on therapy with Vitricomb<sup>®</sup>. Because of the long half-life of efavirenz, use of adequate contraceptive measures for 12 weeks after discontinuation of Vitricomb<sup>®</sup> is recommended.

discontinuation of virturous is recommensed. <u>Pregnancy</u> <u>Virticomb</u><sup>®</sup> should not be used during pregnancy unless the clinical condition of the woman requires treatment with efavirenz/emtricitabine/tenofovir disoproxil fumarate. <u>Breast-feeding</u> Efavirenz, emtricitabine and tenofovir have been shown to be excreted in human milk. There is insufficient information on the effects of efavirenz, emtricitabine and tenofovir in newborns/in-fants. A risk to the infants cannot be excluded. Therefore Virticomb<sup>®</sup> should not be used during <u>burst barling</u>

breast-feeding breast-leeding. As a general rule, it is recommended that HIV infected women do not breast-feed their infants in order to avoid transmission of HIV to the infant.

Errilly No human data on the effect of Vitricomb<sup>\*</sup> are available. Animal studies do not indicate harmful effects of efavirenz, emtricitabine or tenofovir disoproxil fumarate on fertility.

### DRUG INTERACTIONS

DRUG INTERACTIONS As Vitricomb<sup>4</sup> contains efavirenz, emtricitabine and tenofovir disoproxil fumarate, any interactions that have been identified with these agents individually may occur with Vitricomb<sup>6</sup>. Interaction studies with these agents have only been performed in adults. As a fixed combination, Vitricomb<sup>4</sup> should not be administered concomitantly with other medicinal products containing the components, entricitabine or tenofovir disoproxil. Vitricomb<sup>4</sup> should not be co-administered with products containing efavirenz unless needed for dose adjustment e.g. with rhämpicin. Due to similarities with emtircitabine, Vitricomb<sup>4</sup> should not be administered concomitantly with other cytidine analogues, such as lamivudine. Vitricomb<sup>4</sup> should not be administered concomitantly with adefovir dipivoxil or with medicinal products containing tenofovir alafenamide.

containing tenofovir alafenamide. Efavirenz exposure may be increased when given with medicinal products (for example ritonavir) or food (for example, grapefruit juice) which inhibit CYP3A4 or CYP2B6 activity. Compounds or herbal preparations (for example Ginkgo biloba extracts and St. John's wort) which induce these enzymes may give rise to decreased plasma concentrations of efavirenz. Concomitant use of St. John's wort is contraindicated. Concomitant use of Ginkgo biloba extracts is not recommended. In vitro and elinical plasmacokinetic interaction studies have shown the potential for CYP-mediat-ed interactions involving emtricitabine and tenofovir disoproxil fumarate with other medicinal products is low.

Johns wort is contraindeated. Concomitant use of clinkgo bioba extracts is not recommended. In vitro and clinical pharmacokinetic interaction studies have shown the potential for CVP-mediat-ed interactions involving entricitabine and tenofovir disoproxil fumarate with other medicinal products is low. <u>Cannabinoid test interaction</u> Efavirenz does not bind to cannabinoid receptors. False-positive urine cannabinoid test results have been reported with some screening assays in uninfected and HV infected subjects receiving favirenz. Confirmatory testing by a more specific method such as gas chromatographymass spectrometry is recommended in such cases. <u>Contraindeations of concombinitul use</u> •Viricomb<sup>\*</sup> must not be administered concurrently with terfenadine, astemizole, cisapride, midzolam, silical trastanteng events. •Ebasivirgrazoprevir, Co-administration of Viricomb<sup>\*</sup> with elbasivirgrazoprevir is contraindicat-ed because intury lead to standard doses of clavirenz and voriconazole is contraindicat-ed because intury lead to standard doses of clavirenz and voriconazole is contraindicat-ed because in my lead to loss of virologic response to elbasivirgrazoprevir. •Voriconazole: Co-administration of standard doses of clavirenz and voriconazole is contraindicat-ed class the my lead to loss of virologic response to elbasivirgrazoprevir. •Unitability of the standard doses of clavirenz cannob be altered; the loss of virologic response to elbasivirgrazoprevir. •Unitability of the standard doses of clavirenz devels of clavirenz cannob be reduced by concomitant use of St. John's wort due to induction of drug metabolizing enzymes and/or transport proteins by St. John's wort is constraindicated. Plasma Hevels of favirenz can be repetade by concomitant use of St. John's wort may persist for at least 2 weeks after cessition of treatment. Of Prolonging medicinal products: Virticomb<sup>\*</sup> is contraindicated with concomitant use of Pointes, such and trazopa antifungal agents, certain non-sedating antihistaminics (terfenadine, ast

# ADVERSE EFFECTS

ADVERSE EFFELTS Adverse reactions were generally consistent with those seen in previous studies of the individual components. The most frequently reported adverse reactions considered possibly or probably related to Vitricomb<sup>6</sup> were psychiatric disorders, nervous system disorders, and gastrointestinal

triade to vincomo were psychiatre disorders, nervous system disorders, and gastromesnian disorders. Severe skin reactions such as Stevens-Johnson syndrome and erythema multiforme; neuropsychi-atric adverse reactions (including severe depression, death by suicide, psychosis-like behaviour, seizures); severe hepatic events; pancreatitis and lactic acidosis (sometimes fatal) have been also reported.

SetZITES]; severe nepatite events; panereative and neural endosis (sometimes) tana) nave event networks in the properties of the properit

Metabolism and nutrition disorders: hypertriglyceridaemia (common); hypercholesterolaemia (uncommon). Psychiatric disorders: depression, anxiety, abnormal dreams, insomnia (common); suicide attempt, suicide ideation, psychosis, mania, paranoia, hallucination, euphonic mood, affect lability, confusional state, aggression catatonia (uncommon); completed suicide, delusion, neurosis (rare). Nervous system disorders: cerebellar coordination and balance disturbances, somnolence, headache, disturbance in attention, dizziness (common); convulsions, annesia, thinking abnormal, ataxia, coordination abnormal, agitation, tremor (uncommon). Eye disorders: vision blurred (uncommon). Ear and labyrinth disorders: tinnitus, vertigo (uncommon). Gastrointestinal disorders: diarrhoea, vomiting, abdominal pain, nausea (common); pancreatitis (uncommon).

Gastronitestinal disorders: diarrinoca, vomining, auvutinina pain, nuassa (vominor), pravetenior, (uncommon). Hepatobiliary disorders: elevated aspartate aminotransferase (AST), elevated alanine aminotrans-ferase (ALT), elevated gamma-glutamyltransferase (GGT) (common); hepatitis acute (uncommon); hepatic failure (rare). Skin and subcutaneous tissue disorders: rash (very common); pruritus (common); Stevens-Johnson syndrome, erythema multiforme, severe rash (uncommon); photoallergic dermatitis (rare). Reproductive system and breast disorders: gynaecomsatia (uncommon). General disorders and administration site conditions: fatigue (common).

Emtricitabine: Blood and lymphatic system disorders: neutropenia (common); anaemia (uncommon). Immune system disorders: allergic reaction (common). Metabolism and nutrition disorders: hyperglycaemia, hypertriglyceridaemia (common). Psychiatric disorders: aborand dreams, insomnia (common). Nervous system disorders: headache (very common); dizziness (common). Gastrointestinal disorders: diarrhea, nausea (very common); elevated amylase including elevated pancreatic amylase, elevated serum lipase, vomiting, abdominal pain, dyspepsia (common). Hepatobiliary disorders: elevated serum AST and/or elevated serum ALT, hyperbilirbinaemia (common).

Hepatoonary usoroas, cientee and (common). Skin and subcutaneous tissue disorders: vesiculobullous rash, pustular rash, maculopapular rash, rash, pruritus, urticaria, skin discolouration (increased pigmentation) (common); angioedema

resh, purifus, urticaria, skin discolouration (increased pigmentation) (common), dincommon), Musculoskeletal and connective tissue disorders: elevated creatine kinase (very common). <u>General disorders and administration site conditions: pain, asthenia (common). <u>Tenofovir disorders: diadministration site conditions: pain, asthenia (common).</u> <u>Tenofovir disorders: diadministration site conditions: pain, asthenia (very common).</u> <u>Herabolism and nutrition disorders: hypophosphataemia (very common); hypokalaemia (uncommon).</u> <u>Iactia caidosis (rare).</u> Nervous system disorders: diarinea, vomiting, nausea (very common); addominal distension, flatulence (common); pancreatitis (uncommon). Herabolilary disorders: increased transaminases (common). angioedemic (rare). Skin and subcutaneous tissue disorders: rank (very common); angioedemic (rare). <u>Musculoskeletal and connective tissue disorders: rank (very common)</u>, angioedemic (rare), <u>Musculoskeletal and connective tissue disorders: rank very common); as much urak (rare).</u> <u>Musculoskeletal and connective tissue disorders: rank very common); angioedemic trabulary to factures), mvopathy (rare).</u></u>

Musculosketetat and connective as bone pain and infrequently contributing to tractures), myopathy (rarc). Renal and urinary disorders: increased creatinine, proteinuria, proximal renal tubulopathy including Fanconi syndrome (uncommon); renal failure (acute and chronic), acute tubular necrosis, nephritis (including acute interstitial nephritis), nephrogenic diabetes insipidus (rarc). General disorders and administration site conditions: asthenia (very common).

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

Desage Adults The recommended dose of Vitricomb<sup>®</sup> is one tablet taken orally once daily. If a patient misses a dose of Vitricomb<sup>®</sup> within 12 hours of the time it is usually taken, the patient should take Vitricomb<sup>®</sup> as soon as possible and resume the normal dosing schedule. If a patient misses a dose of Vitricomb<sup>®</sup> by more than 12 hours and it is almost time for the next dose, the patient should not take the missed dose and simply resume the usual dosing schedule. If the patient vomits within 1 hour of taken on an empty stomach since food may increase efavirenz exposure and may lead to an increase in the frequency of adverse reactions. In order to improve the tolerability to efavirenz with respect to undesirable effects on the nervous system, bedtime dosing is recommended. It is anticipated that thenofour exposure (AUC) will be approximately 30% lower following It is anticipated that thenofour exposure (AUC) will be approximately 30% lower following

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etavirenz and long intracellular half-lives of emtricitable and tendovir. Because of interpatient variability in these parameters and concerns regarding development of resistance, HIV treatment guidelines should be consulted, also taking into consideration the reason for discontinuation. Dose adjustment: If Viricomb<sup>\*</sup> is co-administered with rifampicin to patients weighing 50 kg or more, an additional 200 mg/day (800 mg total) of efavirenz may be considered . Special populations.

Special populations Elderly: Vitricomb<sup>\*</sup> should be administered with caution to elderly patients. Renal impairment: Vitricomb<sup>\*</sup> is not recommended for patients with moderate or severe renal impairment (creatinine clearance (CrCI) < 50 m/min). Patients with moderate or severe renal impairment require does interval adjustment of emtricitabine and tendorour dissporsit lata cannot

impairment require dose interval adjustment of emtricitabine and tenofovir disoproxil that cannot be achieved with the combination tablet. Hepatic impairment: The pharmacokinetics of Vitricomb<sup>®</sup> have not been studied in patients with hepatic impairment. Patients with mild liver disease (Child-Pugh-Turcotte (CPT), Class A) may be treated with the normal recommended dose of Vitricomb<sup>®</sup>. Patients should be monitored carefully for adverse reactions, especially nervous system symptoms related to efavirenz. . If Vitricomb<sup>®</sup> is discontinued in patients co-infected with HIV and HBV, these patients should be closely monitored for evidence of exacerbation of hepatitis . Paediatric population: The safety and efficacy of Vitricomb<sup>®</sup> in children under the age of 18 years have not been established.

Method of administration: Vitricomb® tablets should be swallowed whole with water, once daily.

OVERDOSAGE Some patients accidentally taking 600 mg efavirenz twice daily have reported increased nervous system symptoms. One patient experienced involuntary muscle contractions. If overdose occurs, the patient must be monitored for evidence of toxicity, and standard supportive treatment applied as necessary.

If overdose occurs, the patient must be monitored for evidence of toxicity, and standard supportive treatment applied as necessary. Administration of activated charcoal may be used to aid removal of unabsorbed efavirenz. There is no specific antidote for overdose with efavirenz. Since efavirenz is highly protein bound, dialysis is unlikely to remove significant quantities of it from blood. Up to 30% of the entricitabine dose and approximately 10% of the tenofovir dose can be removed by haemodialysis. It is not known whether entricitabine or tenofovir can be removed by peritoneal dialysis.

## STORAGE CONDITIONS Store below 30°C. Protect from moisture.

Keep in original pack in intact conditions.

Date of Revision: October 2020

Manufactured by Hetero Labs Limited, India

For Benta S.A.L., Lebanon

This is a medicament - A medicament is a product which affects your health, and its consumption contrary to instructions is dangerous for you - Follow strictly the doctor's prescription, the method of use, and the instructions of the pharmacist are experts in medicament - The doctor and the pharmacist are experts in medicament, its benefits and risks - Do not by yourself interrupt the period of treatment prescribed for you - Do not repeat the same prescription without consulting your doctor - Medicament: keep out of reach of children - Concil of Anh Health Ministers

Council of Arab Health Ministers Union of Arab Pharmacists