

[Emtricitabine + rilpivirine + tenofovir disoproxil fumarate](#)

Le Comité d'experts, après évaluation, refuse d'inscrire le médicament proposé dans la demande.

La Liste Modèle des Médicaments Essentiels fait état des raisons que les membres du Comité ont identifiées pour refuser l'inscription.

Refusée

Section:

[6. Anti-infective medicines 6.4. Antiviral medicines 6.4.2. Antiretrovirals 6.4.2.5. Fixed-dose combinations of antiretrovirals](#)

Codes ATC: [J05AR08](#)

Indication

Human immunodeficiency virus disease without mention of associated disease or condition, clinical stage unspecified

Code ICD11: [1C62.Z](#)

INN

Emtricitabine + rilpivirine + tenofovir

Type de médicament

Chemical agent

Type de liste

Liste de base

Formulations

Oral > Solid: 200 mg + 25 mg + 300 mg (tenofovir disoproxil fumarate equivalent to 245 mg tenofovir disoproxil)

Historique des statuts LME

Demande refusée en 2015 ([TRS 994](#))

Sexe

Tous

Âge

Adolescents et adultes

Équivalence thérapeutique

La recommandation concerne ce médicament spécifique

Renseignements sur le brevet

Lire la suite [sur les brevets](#).

Wikipédia

[Emtricitabine + rilpivirine + tenofovir disoproxil fumarate](#)

DrugBank

[Emtricitabine](#),

[Rilpivirine](#),

[Tenofovir disoproxil fumarate \(Tenofovir disoproxil\)](#)

Résumé des preuves et recommandation du comité d'experts

Applications were submitted by Gilead Sciences Inc. for inclusion of the fixed-dose combination formulations of: ■ cobicistat + elvitegravir + emtricitabine + tenofovir disoproxil fumarate (COBI+EVG+FTC+TDF); and ■ emtricitabine + rilpivirine + tenofovir disoproxil fumarate (FTC+RPV+TDF) on the Model List for treatment of HIV-1 infection in treatment-naïve adult patients. In the case of FTC+RPV+TDF, listing was sought for patients with HIV-1 RNA less than or equal to 100 000 copies/mL at the start of therapy and for virologically suppressed patients (HIV-1 RNA less than 50 copies/mL) on a stable antiretroviral regimen at the start of therapy. Expert reviews of the application were prepared by two members of the Expert Committee. No public comments on the application were received. WHO's Global update on the health sector response to HIV, 2014 reported that, at the end of 2013, there were approximately 12.9 million people receiving ART globally, 11.7 million of whom were in low- and middle-income countries (1). Recommended ART regimens require the use of three or more drugs in combination, and this represents a large pill burden for patients. Fixed-dose combination formulations are recommended and confer multiple benefits, including a reduced pill burden and better adherence to treatment (2). The 2013 WHO Consolidated guidelines on the use of antiretroviral drugs for treating and preventing HIV infection currently recommend that first-line ART in adult patients should consist of two nucleoside reverse transcriptase inhibitors (NRTIs) plus a non-nucleoside reverse transcriptase inhibitor (NNRTI). The guidelines recommend use of integrase inhibitors (INI), second-generation NNRTIs and protease inhibitors (PIs) as part of third-line regimens (3). The Committee noted advice from the WHO Department of HIV/AIDS that current recommendations on preferred antiretroviral drugs and regimens would be revised in June 2015 (for publication in November 2015). The Expert Committee noted that other recent international treatment guidelines recommend first-line ART with two NRTIs and a ritonavir-boosted protease inhibitor (PI/r), an NNRTI or an INI. Specifically, the British HIV Association guidelines, updated in November 2013, recommend that therapy-naïve patients start combination ART containing TDF and FTC as the NRTI backbone, and atazanavir (ATV)/r, darunavir (DRV)/r, efavirenz (EFV), raltegravir (RAL) or EVG+COBI as the third agent (4). The guidelines of the European AIDS Clinical Society, updated in November 2014, include co-formulated COBI+EVG+FTC+TDF as a recommended first-line regimen for ART-naïve adult HIV-positive persons, but state that it should not be initiated in persons with estimated glomerular filtration rate (eGFR) less than 70 mL/min or, unless it is the preferred treatment, in persons with eGFR less than 90 mL/min (5). The US Department of Health and Human Services guidelines (last updated May 2014) recommend COBI+EVG+FTC+TDF as first-line therapy only for ART-naïve patients with pre-ART creatinine clearance greater than 70 mL/min (6). Emtricitabine and tenofovir are NRTIs, rilpivirine is a second-generation NNRTI, elvitegravir is an integrase inhibitor, and cobicistat is a pharmacokinetic enhancer (of elvitegravir). Cobicistat + elvitegravir + emtricitabine + tenofovir disoproxil fumarate (addition) - EML Two randomized, double-blind, active-controlled phase III trials (Study 102 and Study 103) were presented in the application as evidence for efficacy of COBI+EVG+FTC+TDF in ART-naïve patients (7,8). Study 102 compared treatment with COBI+EVG+FTC+TDF with treatment with EFV+FTC+TDF. In Study 103, treatment with COBI+EVG+FTC+TDF was compared with treatment with ATV/r plus FTC+TDF. Both studies assessed non-inferiority of COBI+EVG+FTC+TDF versus the comparator in terms of the proportion of the intention-to-treat population with a viral load less than 50 copies/mL at week 48, with 95% confidence intervals and a prespecified non-inferiority margin of 12%. The Committee noted that the primary efficacy end-point analyses supported the non-

inferiority of COBI+EVG+FTC+TDF to the comparator treatment in terms of virological response at week 48 in treatment-naïve HIV-1 infected patients in both studies. Virological suppression was maintained through to week 96. The application also presented data from three switching studies in treatment-experienced patients, which demonstrated maintenance of virological suppression following a switch to COBI+EVG+FTC+TDF from ritonavir-boosted PI-based regimens (9), NNRTI-based regimens (10) and a regimen of raltegravir and emtricitabine + tenofovir (11). No evidence was presented in the application to support the efficacy of COBI+EVG+FTC+TDF as second- or later-line ART in patients in whom first- or second-line ART had failed. The Committee noted that the results of an integrated analysis of data from Studies 102 and 103 support COBI+EVG+FTC+TDF as being generally well tolerated with a frequency of treatment-emergent adverse effects similar to the comparator regimens. Emtricitabine + rilpivirine + tenofovir (addition) – EML Two randomized, double-blind, active-controlled phase III trials (ECHO and THRIVE) were presented in the application as evidence for the efficacy of FTC/ RPV/TDF in ARV-naïve patients with viral load greater than 5000 copies/mL (12,13). Patients were randomized to 96 weeks' treatment with RPV 25 mg daily or EFV 600 mg daily, plus a fixed-dose background regimen of two NRTIs. The Committee noted that, at 96 weeks, the response rate in pooled analyses of ECHO and THRIVE was 78% in both groups. For patients with HIV-RNA less than or equal to 100 000 copies/mL at baseline, the response rate was 84% with RPV and 80% with EFV (12). Further analysis showed a lower response among RPV-treated patients compared with EFV-treated patients when baseline viral load was greater than 500 000 copies/mL (60% vs 75%; 95% CI: -31.0, 1.8) (14). Safety of FTC/RPV/TDF was assessed in ECHO and THRIVE, and results showed it to be associated with a lower incidence of treatment-related grade 2-4 adverse events compared with EFV + FTC/TDF (14). Overall, the Expert Committee considered that the fixed-dose combination of COBI+EVG+FTC+TDF demonstrated non-inferiority in terms of efficacy and safety compared with TDF+3TC/FTC+EFV, the currently recommended first-line regimen in the WHO guidelines. The Committee acknowledged that a fixed-dose combination formulation offers advantages in terms of reducing pill burden and possibly improving adherence, but noted that no clinical advantage in terms of efficacy and/or safety of COBI+EVG+FTC+TDF over current recommended regimens has been demonstrated. The Committee noted that RPV has been shown to be inferior to EFV in patients with higher viral load and is therefore indicated only for patients with a low viral load (<100 000 copies/mL). The Committee considered that triaging patients according to baseline viral load or switching from one regimen to another following the attainment of virological suppression is not consistent with a public health approach and may not be feasible in resource-limited settings. Moreover, in consideration of patients co-infected with tuberculosis, RPV cannot be co-administered with rifampicin. The Committee noted that both the proposed fixed-dose combination products have wide regulatory approval and marketing authorization in Europe and other high-income countries (including Australia, Japan, the United Kingdom, and USA). The licensing status of these products is under review in numerous low- and middle-income countries. In its application, Gilead advised that it has licensing agreements in place with other manufacturers to produce Gilead HIV medicines at lower cost for low- and middle-income countries. While it acknowledged that the data presented in the applications were supportive of the efficacy of the relevant FDCs being non-inferior to that of the studied comparators, and despite the benefits associated with FDC formulations in treating HIV, the Expert Committee did not recommend the addition of COBI/EVG/FTC/TDF and FTC/RPV/TDF to the Model List of Essential Medicines. The Committee noted that the proposed formulations contain medicines not currently recommended for first-line treatment of HIV infection in WHO guidelines, and considered that there was insufficient evidence of a relevant clinical advantage in terms of efficacy of these FDC combinations over currently recommended first-line treatments that are included on the EML. The Committee noted that the WHO guidelines will be updated later in 2015. References: 1. Global update on the health sector response to HIV, 2014 Geneva: World Health Organization; 2014. 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