

Elbasvir + grazoprevir

REFUSÉE

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.

Section: [6. Anti-infective medicines](#) > [6.4. Antiviral medicines](#) > [6.4.4. Antihepatitis medicines](#) > [6.4.4.2. Medicines for hepatitis C](#) > [6.4.4.2.2. Medicines for hepatitis C > Non-pangenotypic direct-acting antiviral combinations](#)

Codes ATC: J05AP54

Indication	Chronic hepatitis C Code ICD11: 1E91.1
INN	Elbasvir + grazoprevir
Type de médicament	Chemical agent
Type de liste	Liste de base
Formulations	Oral > Solid: 50 mg + 100 mg
Historique des statuts LME	Demande refusée en 2017 (TRS 1006)
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	Elbasvir + grazoprevir
DrugBank	Elbasvir , Grazoprevir

Recommandation du comité d'experts

The Expert Committee did not recommend the addition of the fixed-dose combination of elbasvir + grazoprevir to the core list of the EML for the treatment of chronic hepatitis C virus infection, genotype 1 or 4, in adults. Given the current (and potential future) availability of alternative pan-genotypic direct-acting antiviral combinations, the Committee gave priority to the pangenotypic combinations and recommended listing of sofosbuvir + velpatasvir in preference to the elbasvir + grazoprevir combination. The Committee also noted that the guidance from WHO on hepatitis C will shortly be updated.

Contexte

The application requested addition of the fixed-dose combination of elbasvir + grazoprevir to the core list of the EML for the treatment of chronic hepatitis C virus infection, genotype 1 or 4, in adults. Neither this fixed-dose combination (FDC) nor its individual components have been previously considered by the Expert Committee for addition to the EML.

Pertinence pour la santé publique

Most recent analyses of the global prevalence of chronic hepatitis C indicate that some 115 million persons are HCV antibody-positive, of whom approximately 80 million are chronically infected (1). Prevalence varies greatly by region and population, with the highest burden of chronic infection in sub-Saharan Africa and south and east Asia. Data from the Global Burden of Disease study indicates that the annual number of deaths attributable to HCV has been steadily increasing, from around 330 000 in 1990

to more than 700 000 in 2013 (2). This reflects the lag time between infection and the development of complications such as liver cirrhosis and hepatocellular carcinoma. The number of deaths is projected to increase through several more decades unless there is a rapid scaling-up of accessibility to treatment (3). Scaling-up of screening and treatment using efficacious direct-acting antiviral (DAA) regimens has the potential to reduce the incidence of liver-related complications and mortality in individuals with HCV infection (4, 5). Further, while several new DAA combinations have shown excellent sustained viral response rates at 12 weeks (SVR12), certain groups, including patients who have previously failed treatment, have developed cirrhosis or renal failure, or are coinfecting with HIV, remain difficult to treat. Many DAA-based regimens are not equally effective across all HCV genotypes. The availability of effective, well-tolerated, once-daily (preferably), pan-genotypic and affordable DAAs can facilitate the scaling-up of public health programmes to address HCV, particularly in resource-limited settings where the burden of disease is greatest.

Bénéfices

Genotype 1 Eleven phase 2 and 3 trials evaluated the efficacy of elbasvir + grazoprevir (+/- ribavirin (RBV)) in a total of 1894 individuals with HCV genotype 1: C-SURFER (6), C-EDGE H2H (7), C-EDGE TE (8), C-EDGE TN (9), C-EDGE CO-INFECTED (10), C-EDGE CO-STAR (11), C-WORTHY (12, 13), C-SALVAGE (14), C-SWIFT (15), and C-SWIFT-FINAL (16). The total cohort included both treatment-naïve and treatment-experienced patients, patients coinfecting with HIV and patients with chronic kidney disease. From the intention-to-treat analyses of these trials, 1809 of the 1894 patients achieved a sustained virological response after 12 weeks of treatment (SVR12 95.5%; 95% confidence interval (CI) 94.5–96.4%). Genotype 4 Six phase 2 and 3 trials evaluated the efficacy of elbasvir + grazoprevir (+/- RBV) in 126 patients with HCV genotype 4 disease: C-EDGE H2H (7), C-EDGE TE (8), C-EDGE TN (9), C-EDGE CO-INFECTED (10), C-EDGE CO-STAR (11), and C-SCAPE (17). Like the genotype 1 studies, the total cohort again included treatment-naïve and treatment-experienced patients and patients coinfecting with HIV. From the intention-to-treat analyses of these trials, SVR12 was achieved in 118 of 126 patients (93.7%; 95% CI 87.9–97.2%). Special populations In the C-WORTHY (13) and C-EDGE CO-INFECTED (10) trials. 227 treatment-naïve patients coinfecting with HCV and HIV received elbasvir + grazoprevir for 12 weeks. SVR12 was achieved in 95.3% of individuals. The C-SURFER trial (6) assessed the efficacy and safety of elbasvir + grazoprevir in 122 patients with stage 4 or 5 chronic kidney disease and HCV genotype 1 infection. SVR12 was achieved in 94.3% of individuals. No dosage adjustments are recommended for patients with renal impairment (18). Efficacy of elbasvir + grazoprevir was evaluated in 201 IV drug users using opioid agonist therapy (11). SVR12 was achieved in 91.5% of individuals. Five individuals did not achieve SVR12 because of HCV reinfection. When reinfection was counted as success, SVR12 was achieved in 94.0% of individuals. The application also presented the findings of trials of elbasvir + grazoprevir in other HCV genotypes. As EML listing was not sought for use in these other genotypes, the results are not reported here.

Torts

Safety data from the phase 2 and 3 studies indicate few discontinuations due to adverse events from elbasvir + grazoprevir, and a rate of serious adverse events comparable to that in other treatment regimens. No deaths attributable to the study drug were observed in the trials. As with other DAAs, the most frequently reported adverse effects were headache, nausea, fatigue, decreased appetite, anaemia, pyrexia and ALT elevations. Concurrent use of elbasvir + grazoprevir with most HIV-protease inhibitors is contraindicated because of elevated elbasvir + grazoprevir plasma concentrations and alanine aminotransferase levels. Efavirenz has been shown to reduce elbasvir + grazoprevir concentrations by up to 80% and its concurrent use is also contraindicated. The pharmacokinetic enhancers ritonavir and cobicistat should be used with caution (18). Other agents involved in clinically relevant drug-drug interactions with elbasvir + grazoprevir include ciclosporin and strong inducers and inhibitors of cytochrome P450 3A4, which can affect plasma concentration and lead to reduced therapeutic effects or increased adverse events (19).

Preuves supplémentaires

There is some evidence that the presence of baseline non-structural protein 5A (NS5A) resistance-associated variants (RAVs) in the treated population can be a treatment effect modifier in some patients. Individuals with genotype 1a infection were found to have a lower SVR when baseline NS5A RAVs to elbasvir were detected (69%, versus 96% when NS5A RAVs were not detected). This difference in treatment effect was not observed in individuals with genotype 1b infection (20).

Rapport coût/efficacité

sts/Cost-effectiveness The USA wholesale acquisition cost for a 12-week course of elbasvir + grazoprevir is estimated to be US\$

54 000. Original wholesale costs for other DAAs currently included on the EML were significantly higher at US\$ 150 000 (simeprevir + sofosbuvir), US\$ 94 000 (ledipasvir + sofosbuvir) and US\$ 147 000 (daclatasvir + sofosbuvir) (18). In comparison, the cost of a 12-week treatment course of elbasvir + grazoprevir in the United Kingdom is £36 500 (22). It is not known whether Merck Sharp & Dohme, manufacturer of elbasvir + grazoprevir, have any access strategies in place for facilitating access to this product in low- and middle-income countries.

Directives de l'OMS

Elbasvir + grazoprevir was not considered for inclusion in the 2016 update of the WHO Guidelines for the screening, care and treatment of persons with chronic hepatitis C infection (21) as it did not have stringent regulatory approval at the time. The Guidelines Development Group noted that the initial available data suggested efficacy of elbasvir + grazoprevir in the treatment of HCV, including in patients with HIV coinfection and/or renal impairment. The guidelines noted data suggesting that some populations may not benefit from the elbasvir + grazoprevir combination. The presence of baseline NS5A resistance, which occurs in about 12% of patients, led to a marked decrease in SVR compared with genotype 1a-infected patients without baseline resistance (69% vs 96%, respectively). This combination has not been considered in the guidelines as it had not received stringent regulatory approval at the time of the Guidelines Development Group meeting.

Disponibilité

This FDC is produced by Merck Sharp & Dohme.

Autres considérations

The Committee noted that other DAA FDCs in regulatory pipelines are pan-genotypic and require shorter duration of treatment (8 weeks).

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