

		EMLc	Codes ATC: J05AH02
Indication	Influenza due to identified seasonal influenza virus	Code ICD11: 1E30	
INN	Oseltamivir		
Type de médicament	Chemical agent		
Type de liste	Liste complémentaire (EML) (EMLc)		
Additional notes	Severe illness due to confirmed or suspected influenza virus infection in critically ill hospitalized patients.		
Formulations	Oral > Solid: 30 mg capsule (as phosphate) ; 45 mg capsule (as phosphate) ; 75 mg capsule (as phosphate)		
Historique des statuts LME	Ajouté pour la première fois en 2011 (TRS 965) Modifié en 2013 (TRS 985) Modifié en 2017 (TRS 1006) Modifié en 2019 (TRS 1021) Modifié en 2021 (TRS 1035)		
Sexe	Tous		
Âge	Aussi recommandé pour les enfants		
Équivalence thérapeutique	La recommandation concerne ce médicament spécifique		
Renseignements sur le brevet	Patents have expired in most jurisdictions Lire la suite sur les brevets. 		
Wikipédia	Oseltamivir 		
DrugBank	Oseltamivir 		

Recommandation du comité d'experts

The Expert Committee recommended the deletion of oseltamivir powder for oral liquid 12 mg/mL from the complementary list of the EML and EMLc noting that this formulation has been discontinued by the manufacturer and is no longer marketed. The Committee noted that the capsule formulations of oseltamivir can be manipulated for the preparation of an oral suspension, providing an alternative for patients, particularly young children, who are unable to take a solid dosage form. However, the Committee also recognized the importance of having age-appropriate formulations for children that do not need to be compounded or manipulated. The Committee noted the market availability of a 6 mg/mL oseltamivir powder for oral liquid formulation, and requested that the manufacturer be asked to clarify the status of this particular product.

Contexte

Oseltamivir (capsules 30 mg, 45 mg and 75 mg; oral powder 12 mg/mL) was added to the core list of the EML and EMLc in 2011 for treatment of influenza following the 2009 H1N1 influenza outbreak which was classified at the time as a public health emergency (1). In 2017, the Expert Committee reviewed additional evidence for oseltamivir in seasonal and pandemic influenza which indicated that the beneficial effect of oseltamivir on relevant outcomes of hospital admissions and mortality was lower than previously estimated. The Expert Committee therefore recommended oseltamivir be transferred from the core to the complementary list, and its use be limited to patients with severe illness due to confirmed or suspected influenza virus infection in critically ill hospitalized patients (2).

Pertinence pour la santé publique

Influenza serotypes A and B infect humans and are responsible for an acute febrile infection of the respiratory tract characterized by the sudden onset of cough, fever, headache, malaise and myalgia. Illnesses range from mild to severe and even death. Hospitalization and death occur mainly among high-risk groups. Influenza is a seasonal illness, with epidemic infections occurring annually during cooler months. Annual influenza epidemics are thought to result in between 3 and 5 million cases of severe illness and between 290 000 and 650 000 respiratory deaths worldwide (3). In industrialized countries, most deaths associated with influenza occur among people aged 65 years or older (4). It is estimated that 99% of deaths in children under 5 years with influenza-related lower respiratory tract infections occur in developing countries (5).

Bénéfices

Evidence of the clinical efficacy of oseltamivir was previously reviewed by the Expert Committee in 2011 (1), 2013 (6) and 2017 (2).

Torts

Evidence for the safety of oseltamivir was previously reviewed by the Expert Committee in 2011 (1), 2013 (6) and 2017 (2).

Disponibilité

Roche ceased to manufacture and supply its brand of this formulation (Tamiflu®) in August 2016, with the last commercial supply in February 2017. Global deregistration for Tamiflu 12 mg/mL oral powder is ongoing. The approved labelling for Tamiflu® capsules includes instructions for pharmacists on compounding a 6 mg/mL oral suspension of oseltamivir using the contents of the 30 mg, 45 mg or 75 mg capsule formulations (7). The application stated that generic brands of oseltamivir capsule formulations are widely available in many countries from which oral suspension formulation may be compounded.

Autres considérations

Oseltamivir capsules 30 mg, 45 mg and 75 mg are still included on the Model Lists.

1. The selection and use of essential medicines. Report of the WHO Expert Committee, 2011 (including the 17th WHO Model List of Essential Medicines and the 3rd WHO Model List of Essential Medicines for Children). Geneva: World Health Organization; 2012 (WHO Technical Report Series, No. 965; <https://apps.who.int/iris/handle/10665/44771>, accessed 5 January 2021).
2. The selection and use of essential medicines. Report of the WHO Expert Committee, 2017 (including the 20th WHO Model List of Essential Medicines and the 6th WHO Model List of Essential Medicines for Children). Geneva: World Health Organization; 2017 (WHO Technical Report Series, No. 1006; <https://apps.who.int/iris/handle/10665/259481>, accessed 5 January 2021).
3. Iuliano AD, Roguski KM, Chang HH, Muscatello DJ, Palekar R, Tempia S, et al. Estimates of global seasonal influenza-associated respiratory mortality: a modelling study. *Lancet*. 2018;391(10127):1285–300.
4. Thompson WW, Weintraub E, Dhankhar P, Cheng PY, Brammer L, Meltzer MI, et al. Estimates of US influenza-associated deaths made using four different methods. *Influenza Other Respir Viruses*. 2009;3(1):37–49.
5. Nair H, Brooks WA, Katz M, Roca A, Berkley JA, Madhi SA, et al. Global burden of respiratory infections due to seasonal influenza in young children: a systematic review and meta-analysis. *Lancet*. 2011;378(9807):1917–30.
6. The selection and use of essential medicines. Report of the WHO Expert Committee, 2013 (including the 18th WHO Model List of Essential Medicines and the 4th WHO Model List of Essential Medicines for Children). Geneva: World Health Organization; 2013. (WHO Technical Report Series, No. 985; <https://apps.who.int/iris/handle/10665/112729>, accessed 5 January 2021).
7. Tamiflu 30 mg, 45 mg and 75 mg hard capsules [internet]. emc (electronic medicines compendium); 2020 (<https://www.medicines.org.uk/emc/medicine/20294#>, accessed 5 January 2021).

