

[Fentanyl](#)

Statut de médicament essentiel

Section:

[2. Medicines for pain and palliative care 2.2. Opioid analgesics](#)

Codes ATC: [N01AH01](#)

Indication

Chronic cancer pain Code ICD11: [ML00.10](#)

INN

Fentanyl

Type de médicament

Chemical agent

Type de liste

Liste de base

Additional notes

*For the management of cancer pain

Formulations

Local > Topical > Transdermal patch: 12 µg/hour ; 25 µg/hour ; 50 µg/hour ; 75 µg/hour ; 100 µg/hour

Historique des statuts LME

Ajouté pour la première fois en 2017 ([TRS 1006](#))

Sexe

Tous

Âge

Adolescents et adultes

Équivalence thérapeutique

La recommandation concerne ce médicament spécifique

Renseignements sur le brevet

Patents have expired in most jurisdictions

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

Balises

Cancer

Wikipédia

[Fentanyl](#)

[DrugBank](#)

[Fentanyl](#)

Recommandation du comité d'experts



The Expert Committee accepted that there is a need for additional opioid options for treatment of pain in cancer patients. The Committee therefore recommended the addition of transdermal fentanyl to the EML for treatment of cancer pain. The Committee did not recommend transdermal fentanyl for inclusion on the EMLc because of adverse effects and concerns regarding overdosing. The Committee noted the potential for harms, misuse and abuse associated with residual fentanyl in used patches and appropriate, safe disposal of used patches is essential.

Contexte



Fentanyl has not previously been considered for inclusion on the EML/EMLc. Opioid analgesics included on the EML are codeine and morphine. Only morphine is listed on the EMLc. Hydromorphone and oxycodone are considered alternatives to morphine under a square box listing.

Pertinence pour la santé publique



Cancer is one of the leading causes of morbidity worldwide, with approximately 14 million new cases in 2012 (1). Pain is a frequent and debilitating feature of cancer, occurring across all phases from diagnosis to palliation (2, 3). It is estimated that 31.8% of patients with cancer are undertreated for pain (4). Opioid therapy is the cornerstone of cancer pain management. The burden of cancer is particularly high in low- and middle-income countries, where 70% of deaths from cancer occur. Patients living in these countries often have limited access to morphine, which is the strong opioid of choice for management of moderate to severe cancer pain. This application proposed fentanyl as a treatment alternative to morphine to help increase access to opioid pain relief for cancer patients.

Bénéfices



Fentanyl is a potent synthetic opioid that is suitable for transdermal administration and may provide a useful alternative to morphine for patients with cancer pain. It may be particularly useful for patients unable to take or tolerate oral opioids (e.g. because of malabsorption, dysphagia, vomiting or severe constipation) (5) and in patients with renal impairment. The application presented the findings of a search of the literature published since 2012 on transdermal fentanyl and cancer pain. Only one randomized trial was identified, which compared transdermal fentanyl and pregabalin for neuropathic cancer pain (6). A 2013 Cochrane systematic review of nine trials involving 1244 patients assessed the analgesic efficacy and adverse effects of transdermal fentanyl for moderate to severe cancer pain (7). The quality of evidence in the included studies was limited, with small numbers and failure to report clinically relevant outcomes. However, the findings of the review led the authors to conclude that, for patients able to tolerate treatment and remain in the study until its end and where data were reported, pain was improved within a short time period and the majority had "no worse than mild pain". Lower rates of constipation were observed with transdermal fentanyl compared with sustained-release morphine (risk ratio (RR) 0.61; 95% CI 0.47-0.78). A systematic review (8) of randomized trials on the effectiveness of opioids for cancer pain in which pain relief was the primary outcome measure concluded that there was fair evidence for the efficacy of transdermal fentanyl, based on a single RCT of fentanyl versus paracetamol plus codeine for management of metastatic bone pain (9). Use of transdermal fentanyl in 64 paediatric (age 2-14 years), opioid-naïve cancer patients was analysed in a prospective open-label study (10). There was significant improvement in scores on both the visual analogue scale (from 6.82 at baseline to 1.18 by day 15) and

FACES pain rating scale (from 6.13 at baseline to 1.13 by day 15). No significant side-effects were reported and the authors concluded that transdermal fentanyl was an effective, safe and well-tolerated treatment for paediatric cancer patients.

Torts



Common adverse effects associated with opioid therapy are also seen with fentanyl, including respiratory effects, nausea, vomiting, constipation and somnolence. Rash, application site reactions and itch have also been reported with the transdermal formulation (5). Transdermal fentanyl may cause less constipation than oral morphine (7). Severe diarrhoea associated with transdermal fentanyl during the first 72 hours of treatment has been reported (11).

Preuves supplémentaires



Transdermal fentanyl and sustained-release oral morphine were compared in opioid-naïve patients with moderate to severe cancer pain and in opioid-experienced patients with mild to moderate pain (12). The two drugs showed equal efficacy in terms of pain control and improved sleep quality. Fentanyl was better tolerated than morphine, with fewer fentanyl-treated patients reporting constipation or discontinuing the trial. Patient and investigator global evaluation of treatment also favoured fentanyl for “troublesome side-effects” and “less interruption of daily activities”. The authors concluded that transdermal fentanyl is as effective as, but better tolerated than, sustained-release morphine as first-choice opioid for treatment of cancer pain. Another study compared fentanyl, morphine and methadone in the management of cancer pain (13). All three drugs were found to be similarly effective and well tolerated. There were no differences in pain intensity between the three treatment groups, or in consumption of non-opioid analgesics, at any time point. No relevant differences in quality-of-life scores, symptom intensity or distress scores were observed between treatment groups. Residual fentanyl in used transdermal patches after 72 hours has been reported to be between 28% and 84.4% (14, 15). Potential for harms, misuse and abuse is associated with residual fentanyl in used patches and appropriate, safe disposal is essential.

Rapport coût/efficacité



No information regarding costs or cost-effectiveness was provided in the application. In a cross-sectional study of the global availability and prices of five opioids (morphine, methadone, fentanyl, hydromorphone and oxycodone), oral methadone was found to be the least expensive, with a median price of US\$ 0.5 for 30 days of treatment (17). The median price of transdermal fentanyl for 30 days of treatment was US\$ 2.2 while that of immediate-release oral morphine tablets/capsules was US\$ 18.9.

Directives de l'OMS



The WHO guidelines for management of cancer pain are currently under review. WHO's 2012 guidelines on the pharmacological treatment of persisting pain in children with medical illnesses (16) recommend the use of strong opioid analgesics for the relief of moderate to severe persisting pain in children (strong recommendation, low-quality evidence). Morphine is recommended as the first-line treatment choice. There is insufficient evidence to support recommendation of alternative opioids as first choice. The guidelines go on to recommend switching opioids and/or route of administration in the event of inadequate analgesic effect with intolerable side-effects (strong recommendation, low-quality evidence). Alternative opioids listed in the guidelines are fentanyl, hydromorphone, methadone and oxycodone. Oral administration is recommended.

Disponibilité



Fentanyl, like morphine, is subject to international control under the Single Convention on Narcotic Drugs, 1961.

Autres considérations



WHO is currently developing new cancer pain guidelines, which are due for completion in late 2017 or early 2018.

Afficher les références Masquer les références

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