

# codeine pharmacokinetics and pharmacodynamics

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Monitor vital signs closely. Codeine methylmorphine has analgesic properties that result from its agonist activity at the opiate receptors. Because the duration of action of codeine is longer than that of naloxone, repeated naloxone dosing is needed. Contraindications and precautions Contraindicated in patients hypersensitive to drug. Metabolized mainly in the liver, by demethylation or by conjugation with glucuronic acid. Children ages 6 to Distributed widely throughout the body; it crosses the placental barrier and enters breast milk. Adults and children age 12 and older: Potentiates respiratory and CNS depression, sedation, and hypotensive effects of drug. Overdose and treatment The most common signs and symptoms of overdose are CNS depression, respiratory depression, and miosis pinpoint pupils. Administer activated charcoal via nasogastric tube for further removal of drug in an oral overdose. If patient shows signs and symptoms within 2 hours of ingestion of an oral overdose, empty the stomach immediately by inducing emesis with ipecac syrup or using gastric lavage. Children age 1 and older: Give together for maximum pain relief. Antihistamines, barbiturates, benzodiazepines, CNS depressants, general anesthetics, MAO inhibitors, muscle relaxants, narcotic analgesics, phenothiazines, sedative-hypnotics, tricyclic antidepressants: Available forms Available by prescription only Injection: Children ages 2 to 6: Codeine-containing cough preparations may be hazardous in young children. Use together with extreme caution. Although several studies have addressed the disposition of codeine in plasma and oral fluid after single or multiple doses (7)(24)(25)(26)(27)(28), there remain many questions on codeine oral fluid pharmacokinetics and on the correlation of drug concentration to concurrent physiologic and behavioral effects. Clin Pharmacol Ther. Jan;43(1) Pharmacokinetics and pharmacodynamics of codeine in end-stage renal disease. Guay DR(1), Awni WM, Findlay JW, Halstenson CE, Abraham PA, Opsahl JA, Jones EC, Matzke GR. Author information: (1)Department of Medicine, Hennepin County Medical Center, Minneapolis. Plasma and oral fluid pharmacokinetics and pharmacodynamics after oral codeine administration. Kim I(1), Barnes AJ, Oyler JM, Schepers R, Joseph RE Jr, Cone EJ, Lafko D, Moolchan ET, Huestis MA. Author information: (1)Chemistry and Drug Metabolism, Intramural Research Program, National Institute on Drug. An opioid analgesic related to morphine but with less potent analgesic properties and mild sedative effects. It also acts centrally to suppress cough. of codeine in end-stage renal disease. The pharmacokinetics and pharmacodynamics of codeine and its metabolites codeine glucuronide, morphine, and morphine glucuronide were assessed after the administration of a single 60 mg oral dose of codeine sulfate and a single 60 mg intravenous dose of codeine phosphate. Jan 26, - B. KuKanich. Pharmacokinetics and pharmacodynamics of oral acetaminophen in combination with codeine in healthy Greyhound dogs. J. vet. Pharmacol. Therap. 39, The purpose of this study was to determine the pharmacokinetic and antinociceptive effects of an acetaminophen/codeine. This pathway depicts, in a stylized human liver cell, the principal candidate pharmacogenes involved in the pharmacokinetics of codeine and morphine. Modulation of the pharmacokinetic conversion of codeine to morphine by variation in the CYP2D6 gene is a well-known example of pharmacogenetics. Codeine and. Jump to Pharmacodynamics - It is possible that other metabolites are responsible; there may be a pharmacokinetic mechanism or there may be a small direct analgesic effect of codeine itself. A recent study using a rat animal model has shown that hydrocodone, a possible minor codeine metabolite, has analgesic. Jump to Pharmacodynamics - Pharmacodynamics Codeine binds with stereospecific receptors at many sites within the CNS to alter processes affecting both the perception of pain and the emotional response to pain. Precise sites and mechanisms of action have not been fully determined. It has been proposed. 12 CLINICAL PHARMACOLOGY. Mechanism of Action. Pharmacodynamics. Pharmacokinetics. 13 NONCLINICAL TOXICOLOGY. Carcinogenesis, Mutagenesis, Impairment of Fertility. 16 HOW SUPPLIED/STORAGE AND HANDLING. 17 PATIENT COUNSELING INFORMATION. MEDICATION GUIDE.