



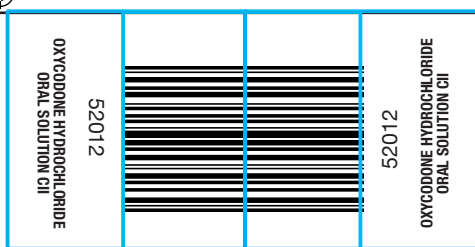
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7 DRUG INTERACTIONS

Table 1 includes clinically significant drug interactions with Oxycodone Hydrochloride Oral Solution

Table 1: Clinically Significant Drug Interactions with Oxycodone Hydrochloride Oral Solution

Table with columns for Inhibitors of CYP3A4 and CYP2D6, CYP3A4 Inducers, Benzodiazepines and other Central Nervous System (CNS) Depressants, Serotonergic Drugs, Monoamine Oxidase Inhibitors (MAOIs), Mixed Agonist/Antagonist and Partial Agonist Opioid Analgesics, Muscle Relaxants, Diuretics, and Anticholinergic Drugs. Each section includes Clinical Impact, Intervention, and Examples.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Risk Summary
Prolonged use of opioid analgesics during pregnancy may cause neonatal opioid withdrawal syndrome...

Animal reproduction studies with oral administrations of oxycodone hydrochloride in rats and rabbits during the period of organogenesis at doses 2.6 and 8.1 times, respectively, the human dose of 60 mg/day did not reveal evidence of teratogenicity or embryo-fetal toxicity...

Anticholinergic Drugs
Clinical Impact: The concomitant use of anticholinergic drugs may increase risk of urinary retention and/or severe constipation...

8.2 Lactation
Risk Summary
Oxycodone is present in breast milk. Published lactation studies report variable concentrations of oxycodone in breast milk...

8.3 Females and Males of Reproductive Potential
Infertility
Chronic use of opioids may cause reduced fertility in females and males of reproductive potential. It is not known whether these effects on fertility are reversible...

8.4 Pediatric Use
The safety and effectiveness of Oxycodone Hydrochloride Oral Solution has not been established in pediatric patients.

8.5 Geriatric Use
Elderly patients (aged 65 years or older) may have increased sensitivity to oxycodone. In general, use caution when selecting a dose

for an elderly patient, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy.

8.6 Hepatic Impairment
Since oxycodone is extensively metabolized in the liver, its clearance may decrease in patients with hepatic impairment. Initiate therapy in these patients with a lower than usual dosage of Oxycodone Hydrochloride Oral Solution and titrate carefully.

8.7 Renal Impairment
Information from oxycodone tablets indicate that patients with renal impairment had higher plasma concentrations of oxycodone than subjects with normal renal function. Initiate therapy with a lower than usual dosage of Oxycodone Hydrochloride Oral Solution and titrate carefully.

9.2 Abuse
Oxycodone Hydrochloride Oral Solution contains oxycodone, a substance with a high potential for abuse similar to other opioids including fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, and tapentadol.

Drug addiction is a cluster of behavioral, cognitive, and physiological phenomena that develop after repeated substance use and includes: a strong desire to take the drug, difficulties in controlling its use, persisting in its use despite harmful consequences, a higher priority given to drug use than to other activities and obligations, increased tolerance, and sometimes a physical withdrawal.

9.3 Dependence
Both tolerance and physical dependence can develop during chronic opioid therapy. Tolerance is the need for increasing doses of opioids to maintain a defined effect such as analgesia (in the absence of disease progression or other external factors).

10 OVERDOSAGE
Clinical Presentation
Acute overdose with Oxycodone Hydrochloride Oral Solution can be manifested by respiratory depression, somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, constricted pupils, and, in some cases, pulmonary edema, bradycardia, hypotension, partial or complete airway obstruction, atypical snoring, and death.

11 DESCRIPTION
Oxycodone Hydrochloride Oral Solution is an agonist, available as a red solution 5 mg/5 mL (1 mg/mL) and a yellow solution 100 mg/5 mL (20 mg/mL) for oral administration.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
Oxycodone is a full opioid agonist and is relatively selective for the mu-opioid receptor, although it can bind to other opioid receptors at higher doses.

12.2 Pharmacodynamics
Effects on the Central Nervous System (CNS)
Oxycodone produces respiratory depression by direct action on brain stem respiratory centers. The respiratory depression involves a reduction in the responsiveness of the brain stem respiratory centers to increased levels of carbon dioxide tension and electrical stimulation.

12.3 Pharmacokinetics
Effects on the Gastrointestinal Tract and Other Smooth Muscle
Oxycodone causes a reduction in motility associated with an increase in smooth muscle tone in the antrum of the stomach and duodenum.

12.4 Hematology
Oxycodone causes myosis, even in total darkness. Pinpoint pupils are a sign of opioid overdose but are not pathognomonic (e.g., pontine lesions of hemorrhagic or ischemic origins may produce similar findings).

12.5 Hematology
Oxycodone produces peripheral vasodilation which may result in orthostatic hypotension or syncope. Manifestations of histamine release and/or peripheral vasodilation may include pruritus, flushing, red eyes and sweating and/or orthostatic hypotension.

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12.10 Hematology
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12.11 Hematology
Oxycodone produces peripheral vasodilation which may result in orthostatic hypotension or syncope. Manifestations of histamine release and/or peripheral vasodilation may include pruritus, flushing, red eyes and sweating and/or orthostatic hypotension.

Effects on the Immune System
Opioids have been shown to have a variety of effects on components of the immune system in in-vitro and animal models. The clinical significance of these findings is unknown.

Concentration-Efficacy Relationships
The minimum effective analgesic concentration will vary widely among patients, especially among patients who have been previously treated with potent opioid agonists.

12.3 Pharmacokinetics
The activity of oxycodone hydrochloride is primarily due to the parent drug oxycodone.
Absorption: About 87% of an oral dose reaches the systemic circulation in comparison to a parenteral dose.

12.4 Pharmacokinetics
Distribution
Following intravenous administration, the volume of distribution (Vd) for oxycodone was 2.6 L/kg. Plasma protein binding of oxycodone at 37°C and a pH of 7.4 was about 45%.

Excretion
Oxycodone and its metabolites are excreted primarily via the kidney. The amounts measured in the urine have been reported as follows: free oxycodone up to 19%; conjugated oxycodone up to 50%; free oxycodone 0%; conjugated oxycodone < 14%; both free and conjugated oxycodone have been found in the urine but not quantified.

12.5 Pharmacokinetics
Specific Populations
Age: Geriatric Population: Information obtained from oxycodone tablets indicate that the plasma concentrations of oxycodone did not appear to be increased in patients over the age of 65.

12.6 Pharmacokinetics
Renal Impairment: Because oxycodone is extensively metabolized in the liver, its clearance may decrease in hepatic-impaired patients. A dose adjustment is recommended in these patients.

12.7 Pharmacokinetics
Drug Interactions
CYP3A4 Inhibitors
CYP3A4 is the major enzyme involved in noroxycodone formation. A published study showed that the co-administration of voriconazole, a CYP3A4 inhibitor, increased oxycodone AUC and Cmax by 3.6 and 1.7 fold, respectively.

12.8 Pharmacokinetics
CYP2D6 Inhibitors
Oxycodone is metabolized in part to oxycodone via the cytochrome P450 isoenzyme CYP2D6. While this pathway may be blocked by a variety of drugs (e.g., certain cardiovascular drugs and antidepressants), such blockade has not yet been shown to be of clinical significance with this agent.

13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Carcinogenesis
Long-term studies in animals to evaluate the carcinogenic potential of oxycodone have not been conducted.

13.2 Mutagenesis
Oxycodone hydrochloride was genotoxic in an in-vitro mouse lymphoma assay in the presence of metabolic activation. There was no evidence of genotoxic potential in an in-vitro bacterial reverse mutation assay (Salmonella typhimurium and Escherichia coli) and in an assay for chromosomal aberrations (in-vivo mouse bone marrow micronucleus assay).

13.3 Impairment of Fertility
Studies in animals to evaluate the potential impact of oxycodone on fertility have not been conducted.

16 HOW SUPPLIED/STORAGE AND HANDLING
Oxycodone Hydrochloride Oral Solution, USP, 5 mg per 5 mL (1 mg per mL) is a red solution, supplied as:
NDC 70752-136-10: Bottle of 100 mL, supplied with a calibrated measuring cup

17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Storage and Disposal
Because of the risks associated with accidental ingestion, misuse, and abuse, advise patients to store Oxycodone Hydrochloride Oral Solution securely, out of sight and reach of children, and in a location not accessible by others, including visitors to the home.

18 ADDITIONAL INFORMATION
Addition, Abuse, and Misuse
Inform patients that the use of Oxycodone Hydrochloride Oral Solution, even when taken as recommended, can result in addiction, abuse, and misuse which can lead to overdose and death.

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