



- Take your prescribed dose every 6 to 8 hours as needed for pain. Do not take more than your prescribed dose. If you miss a dose, take your next dose at your usual time.
- Call your healthcare provider if the dose you are taking does not control your pain.



- If you have been taking Levorphanol Tartrate Tablets regularly, do not stop taking without talking to your healthcare provider.

- Dispose of expired, unwanted, or unused Levorphanol Tartrate Tablets by promptly flushing down the toilet, if a drug take-back option is not readily available. Visit [www.fda.gov/drugdisposal](http://www.fda.gov/drugdisposal) for additional information on disposal of unused medicines.

### While taking Levorphanol Tartrate Tablets DO NOT:

- Drive or operate heavy machinery, until you know how Levorphanol Tartrate Tablets affects you. Levorphanol Tartrate Tablets can make you sleepy, dizzy, or lightheaded.

- Drink alcohol or use prescription or over-the-counter medicines that contain alcohol. Using products containing alcohol during treatment with Levorphanol Tartrate Tablets may cause you to overdose and die.

### The possible side effects of Levorphanol Tartrate Tablets:

- constipation, nausea, sleepiness, vomiting, tiredness, headache, dizziness, abdominal pain. Call your healthcare provider if you have any of these symptoms and they are severe.

### Get emergency medical help or call 911 right away if you have:

- trouble breathing, shortness of breath, fast heartbeat, chest pain, swelling of your face, tongue, or throat, extreme drowsiness, light-headedness when changing positions, feeling faint, agitation, high body temperature, trouble walking, stiff muscles, or mental changes such as confusion.

These are not all the possible side effects of Levorphanol Tartrate Tablets. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-2088. **For more information go to [dailymed.nlm.nih.gov](http://dailymed.nlm.nih.gov).** For more information you can call 1-888-848-3593.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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#### Drug Interactions

#### Benzodiazepines and Other Central Nervous System (CNS) Depressants

Due to additive pharmacologic effect, the concomitant use of benzodiazepines and/or other CNS depressants, including alcohol, and other sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychotics and other opioids, can increase the risk of hypotension, respiratory depression, profound sedation, coma, and death.

Reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required. Inform patients and caregivers of this potential interaction, educate them on the signs and symptoms of respiratory depression (including sedation). If concomitant use is warranted, consider prescribing naloxone for the emergency treatment of opioid overdose [see **WARNINGS**].

#### Serotonergic Drugs

The concomitant use of opioids with other drugs that affect the serotonergic neurotransmitter system, such as selective serotonin reuptake inhibitors (SSRIs), serotonin and norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), triptans, 5-HT3 receptor antagonists, drugs that affect the serotonin neurotransmitter system (e.g., mirtazapine, trazodone, tramadol), and monoamine oxidase (MAO) inhibitors (those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue), has resulted in serotonin syndrome. [see **PRECAUTIONS: Information for Patients**].

If concomitant use is warranted, frequently evaluate the patient, particularly during treatment initiation and dose adjustment. Discontinue Levorphanol Tartrate Tablets if serotonin syndrome is suspected.

#### Mixed Agonist/Antagonist and Partial Opioid Analgesics

The concomitant use of opioid with other opioid analgesics, such as butorphanol, nalbuphine, pentazocine, may reduce the analgesic effect of Levorphanol Tartrate Tablets and precipitate withdrawal symptoms.

Advise patient to avoid concomitant use of these drugs.

#### Muscle Relaxants

Levorphanol may enhance the neuromuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression.

Because respiratory depression may be greater than otherwise expected, decrease the dosage of Levorphanol Tartrate Tablets and/or the muscle relaxant as necessary. Due to the risk of respiratory depression with concomitant use of skeletal muscle relaxants and opioids, consider prescribing naloxone for the emergency treatment of opioid overdose [see **WARNINGS**].

#### Diuretics

Opioids can reduce the efficacy of diuretics by inducing the release of antidiuretic hormone. If concomitant use is warranted, evaluate patients for signs of diminished diuresis and/or effects on blood pressure and increase the dosage of the diuretic as needed.

#### Anticholinergic Drugs

The concomitant use of anticholinergic drugs may increase risk of urinary retention and/or severe constipation, which may lead to paralytic ileus. If concomitant use is warranted, evaluate patients for signs of urinary retention or reduced gastric motility when Levorphanol Tartrate Tablets is used concomitantly with anticholinergic drugs.

#### Carcinogenesis, Mutagenesis, Impairment of Fertility

##### Carcinogenesis

Long-term studies in animals to evaluate the carcinogenic potential of levorphanol have not been conducted.

##### Mutagenesis

Animal studies to evaluate the mutagenic potential of levorphanol have not been conducted.

##### Impairment of Fertility

Animal studies to determine the effect of levorphanol on fertility have not been conducted.

##### Infertility

Use of opioids for an extended period of time may cause reduced fertility in females and males of reproductive potential. It is not known whether these effects on fertility are reversible [see **ADVERSE REACTIONS**].

#### Pregnancy

##### Risk Summary

Use of opioid analgesics for an extended period of time during pregnancy may cause neonatal opioid withdrawal syndrome [see **WARNINGS**]. Available data with Levorphanol Tartrate Tablets in pregnant women are insufficient to inform a drug-associated risk for major birth defects and miscarriage.

In animal reproduction studies, oral levorphanol produced malformations and nearly 50% embryo lethality in mice at 10 and 12 times the human daily dose of 12 mg/day, respectively. Paternal exposure to levorphanol prior to mating to an untreated female resulted in reduced litter birth weights, developmental delays, and aberrant behavior in a swim maze at 34 times the human daily dose of 12 mg/day.

All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

##### Clinical Considerations

###### Fetal/Neonatal Adverse Reactions

Use of opioid analgesics for an extended period of time during pregnancy for medical or nonmedical purposes can result in physical dependence in the neonate and neonatal opioid withdrawal syndrome shortly after birth. Neonatal opioid withdrawal syndrome presents as irritability, hyperactivity and abnormal sleep pattern, high pitched cry, tremor, vomiting, diarrhea, and failure to gain weight. The onset, duration, and severity of neonatal opioid withdrawal syndrome vary based on the specific opioid used, duration of use, timing and amount of last maternal use, and rate of elimination of the drug by the newborn. Observe newborns for symptoms of neonatal opioid withdrawal syndrome and manage accordingly [see **WARNINGS**].

###### Labor or Delivery

Opioids cross the placenta and may produce respiratory depression and psycho-physiologic effects in neonates. An opioid antagonist, such as naloxone, must be available for reversal of opioid-induced respiratory depression in the neonate. Levorphanol Tartrate Tablets are not recommended for use in pregnant women during or immediately prior to labor, when other analgesic techniques are more appropriate. Opioid analgesics, including Levorphanol Tartrate Tablets can prolong labor through actions which temporarily reduce the strength, duration, and frequency of uterine contractions. However, this effect is not consistent and may be offset by an increased rate of cervical dilation, which tends to shorten labor.

Monitor neonates exposed to opioid analgesics during labor for signs of excess sedation and respiratory depression.

###### Animal Data

In a published study, levorphanol has been shown to cause central nervous system malformations consistent with neural tube defects (kinking of the spinal cord, hydromyelia, dilation of the fourth ventricle, and brachyury) in pregnant mice when given a single subcutaneous dose of 25 mg/kg (10 times the human daily dose of 12 mg/day based on a body surface area comparison) on Gestation Day 9. Subcutaneous administration of 30 mg/kg levorphanol to pregnant mice on Gestation Day 9 resulted in approximately 50% mortality of the mouse embryos (12 times the human daily dose of 12 mg/day).

In another published study, male mice were injected subcutaneously twice daily with increasing daily doses of levorphanol up to 42 mg/kg/day (34 times the human daily dose of 12 mg based on body surface area) for 5.5 to 8.5 days prior to mating with an untreated female. Paternal exposure to levorphanol resulted in reduced birth weights of the litters, developmental delays in the offspring, and aberrant swim patterns in the progeny when measured at 6.5 to 8.5 weeks of age.

##### Lactation

##### Risk Summary

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Levorphanol Tartrate Tablets and any potential adverse effects on the breastfed infant from Levorphanol Tartrate Tablets or from the underlying maternal condition.

##### Clinical Considerations

Infants exposed to Levorphanol Tartrate Tablets through breast milk should be monitored for excess sedation and respiratory depression. Withdrawal symptoms can occur in breastfed infants when maternal administration of an opioid analgesic is stopped, or when breastfeeding is stopped.

##### Data

Studies of levorphanol concentrations in breast milk have not been performed. However, morphine, which is structurally similar to levorphanol, is excreted in human milk. Because of the potential for serious adverse reactions from levorphanol in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

##### Pediatric Use

Levorphanol Tartrate Tablets are not recommended in children under the age of 18 years as the safety and efficacy of the drug in this population has not been established.

##### Geriatric Use

Elderly patients (aged 65 years or older) may have increased sensitivity to levorphanol. In general, use caution when selecting a dosage 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. The initial dose of Levorphanol Tartrate Tablets should be reduced by 50% or more in the infirm elderly patient.

Respiratory depression is the chief risk for elderly patients treated with opioids, and has occurred after large initial doses were administered to patients who were not opioid-tolerant or when opioids were coadministered with other agents that depress respiration. Titrate the dosage of Levorphanol Tartrate Tablets slowly in geriatric patients and frequently reevaluate the patient for signs of central nervous system and respiratory depression [see **WARNINGS**].

This drug is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to regularly evaluate renal function.

#### ADVERSE REACTIONS

In approximately 1400 patients treated with Levorphanol Tartrate Tablets in controlled clinical trials, the type and incidence of side effects were those expected of an opioid analgesic, and no unforeseen or unusual toxicity was reported.

Drugs of this type are expected to produce a cluster of typical opioid effects in addition to analgesia, consisting of nausea, vomiting, altered mood and mentation, pruritus, flushing, difficulties in urination, constipation, and biliary spasm. The frequency and intensity of these effects appears to be dose related. Although listed as adverse events these are expected pharmacologic actions of these drugs and should be interpreted as such by the clinician.

The following adverse events have been reported with the use of Levorphanol Tartrate Tablets:

Body as a Whole: abdominal pain, dry mouth, sweating

Cardiovascular System: cardiac arrest, shock, hypotension, arrhythmias including bradycardia and tachycardia, palpitations, extra-systoles

Digestive System: nausea, vomiting, dyspepsia, biliary tract spasm

Nervous System: coma, suicide attempt, convulsions, depression, dizziness, confusion, lethargy, abnormal dreams, abnormal thinking, nervousness, drug withdrawal, hypokinesia, dyskinesia, hyperkinesia, CNS stimulation, personality disorder, amnesia, insomnia

Respiratory System: apnea, cyanosis, hypoventilation

Skin & Appendages: pruritus, urticaria, rash, injection site reaction

Special Senses: abnormal vision, pupillary disorder, diplopia

Urogenital System: kidney failure, urinary retention, difficulty urinating

##### Postmarketing Experience

The following adverse reactions have been identified during post approval use of levorphanol. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- **Serotonin syndrome:** Cases of serotonin syndrome, a potentially life-threatening condition, have been reported during concomitant use of opioids with serotonergic drugs.
- **Adrenal insufficiency:** Cases of adrenal insufficiency have been reported with opioid use, more often following greater than one month of use.

- **Anaphylaxis:** Anaphylaxis has been reported with ingredients contained in Levorphanol Tartrate Tablets.
- **Androgen deficiency:** Cases of androgen deficiency have occurred with use of opioids for an extended period of time [see **CLINICAL PHARMACOLOGY**].
- **Hyperalgesia and Allodynia:** Cases of hyperalgesia and allodynia have been reported with opioid therapy of any duration [see **WARNINGS**].
- **Hypoglycemia:** Cases of hypoglycemia have been reported in patients taking opioids. Most reports were in patients with atleast one predisposing risk factor (e.g., diabetes).

#### DRUG ABUSE AND DEPENDENCE

##### Controlled Substance

Levorphanol Tartrate Tablets contains levorphanol, a Schedule II controlled substance.

##### Abuse

Levorphanol Tartrate Tablets contains levorphanol, a substance with high potential for misuse and abuse, which can lead to the development of substance use disorder, including addiction [see **WARNINGS**].

Misuse is the intentional use, for therapeutic purposes, of a drug by an individual in a way other than prescribed by a healthcare provider or for whom it was not prescribed.

Abuse is the intentional, non-therapeutic use of a drug, even once, for its desirable psychological or physiological effects.

Drug addiction is a cluster of behavioral, cognitive, and physiological phenomena that may include a strong desire to take the drug, difficulties in controlling drug use (e.g., continuing drug use despite harmful consequences, giving a higher priority to drug use than other activities and obligations), and possible tolerance or physical dependence.

Misuse and abuse of Levorphanol Tartrate Tablets increases risk of overdose, which may lead to central nervous system and respiratory depression, hypotension, seizures, and death. The risk is increased with concurrent abuse of Levorphanol Tartrate Tablets with alcohol and other CNS depressants. Abuse of and addiction to opioids in some individuals may not be accompanied by concurrent tolerance and symptoms of physical dependence. In addition, abuse of opioids can occur in the absence of addiction.

All patients treated with opioids require careful and frequent reevaluation for signs of misuse, abuse, and addiction, because use of opioid analgesic products carries the risk of addiction even under appropriate medical use. Patients at high risk of Levorphanol Tartrate Tablets abuse include those with a history of prolonged use of any opioid, including products containing levorphanol, those with a history of drug or alcohol abuse, or those who use Levorphanol Tartrate Tablets in combination with other abused drugs.

“Drug-seeking” behavior is very common in persons with substance use disorders. Drug-seeking tactics include emergency calls or visits near the end of office hours, refusal to undergo appropriate examination, testing, or referral, repeated “loss” of prescriptions, tampering with prescriptions, and reluctance to provide prior medical records or contact information for other treating healthcare provider(s). “Doctor shopping” (visiting multiple prescribers to obtain additional prescriptions) is common among people who abuse drugs and people with substance use disorder. Preoccupation with achieving adequate pain relief can be appropriate behavior in a patient with inadequate pain control.

Levorphanol Tartrate Tablets, like other opioids, can be diverted for nonmedical use into illicit channels of distribution. Careful record-keeping of prescribing information, including quantity, frequency, and renewal requests, as required by state and federal law, is strongly advised.

Proper assessment of the patient, proper prescribing practices, periodic reevaluation of therapy, and proper dispensing and storage are appropriate measures that help to limit abuse of opioid drugs.

##### Risks Specific to Abuse of Levorphanol Tartrate Tablets

Abuse of Levorphanol Tartrate Tablets poses a risk of overdose and death. The risk is increased with concurrent use of Levorphanol Tartrate Tablets with alcohol and/or other CNS depressants.

Parenteral drug abuse is commonly associated with transmission of infectious diseases such as hepatitis and HIV.

##### Dependence

Both tolerance and physical dependence can develop during use of opioid therapy.

Tolerance is a physiological state characterized by a reduced response to a drug after repeated administration (i.e., a higher dose of a drug is required to produce the same effect that was once obtained at a lower dose).

Physical dependence is a state that develops as a result of a physiological adaptation in response to repeated drug use, manifested by withdrawal signs and symptoms after abrupt discontinuation or a significant dose reduction of a drug.

Withdrawal may be precipitated through the administration of drugs with opioid antagonist activity (e.g., naloxone), mixed agonist/antagonist analgesics (e.g., pentazocine, butorphanol, nalbuphine), or partial agonists (e.g., buprenorphine). Physical dependence may not occur to a clinically significant degree until after several days to weeks of continued use.

Do not abruptly discontinue Levorphanol Tartrate Tablets in a patient physically dependent on opioids. Rapid tapering of Levorphanol Tartrate Tablets in a patient physically dependent on opioids may lead to serious withdrawal symptoms, uncontrolled pain, and suicide. Rapid discontinuation has also been associated with attempts to find other sources of opioid analgesics, which may be confused with drug-seeking for abuse.

When discontinuing Levorphanol Tartrate Tablets, gradually taper the dosage using a patient-specific plan that considers the following: the dose of Levorphanol Tartrate Tablets the patient has been taking, the duration of treatment, and the physical and psychological attributes of the patient. To improve the likelihood of a successful taper and minimize withdrawal symptoms, it is important that the opioid tapering schedule is agreed upon by the patient. In patients taking opioids for an extended period of time at high doses, ensure that a multimodal approach to pain management, including mental health support (if needed), is in place prior to initiating an opioid analgesic taper [see **DOSAGE AND ADMINISTRATION, WARNINGS**].

Infants born to mothers physically dependent on opioids will also be physically dependent and may exhibit respiratory difficulties and withdrawal signs [see **PRECAUTIONS: Pregnancy**].

#### OVERDOSAGE

##### Clinical Presentation

Acute overdose with Levorphanol Tartrate Tablets 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, hypoglycemia, partial or complete airway obstruction, atypical snoring, and death. Marked mydriasis rather than miosis may be seen with hypoxia an overdose situations.

##### Treatment of Overdose

In case of overdose, priorities are the reestablishment of a patient and protected airway and institution of assisted or controlled ventilation, if needed. Employ other supportive measures (including oxygen and vasopressors) in the management of circulatory shock and pulmonary edema as indicated. Cardiac arrest or arrhythmias will require advanced life-support measures.

Opioid antagonists, such as naloxone, are specific antidotes to respiratory depression resulting from opioid overdose. For clinically significant respiratory or circulatory depression secondary to resulting from opioid overdose. For clinically significant respiratory or circulatory depression secondary to Levorphanol Tartrate Tablets overdose, administer an opioid antagonist.

Because the duration of opioid reversal is expected to be less than the duration of action of levorphanol in Levorphanol Tartrate Tablets, carefully monitor the patient until spontaneous respiration is reliably reestablished. If the response to an opioid antagonist is suboptimal or only brief in nature, administer additional antagonist as directed by the product's prescribing information.

In an individual physically dependent on opioids, administration of the recommended usual dosage of the antagonist will precipitate an acute withdrawal syndrome. The severity of the withdrawal symptoms experienced will depend on the degree of physical dependence and the dose of the antagonist administered. If a decision is made to treat serious respiratory depression in the physically dependent patient, administration of the antagonist should be initiated with care and by titration with smaller than usual doses of the antagonist.

#### DOSAGE AND ADMINISTRATION

##### Important Dosage and Administration Instructions

Levorphanol Tartrate Tablets should be prescribed only by healthcare professionals who are knowledgeable about the use of opioids and how to mitigate the associated risks.

Use the lowest effective dosage for the shortest duration of time consistent with individual patient treatment goals [see **WARNINGS**]. Because the risk of overdose increases as opioid doses increase, reserve titration to higher doses of Levorphanol Tartrate Tablets for patients in whom lower doses are insufficiently effective and in whom the expected benefits of using a higher dose opioid clearly outweigh the substantial risks.

Many acute pain conditions (e.g., the pain that occurs with a number of surgical procedures or acute musculoskeletal injuries) require no more than a few days of an opioid analgesic. Clinical guidelines on opioid prescribing for some acute pain conditions are available.

There is variability in the opioid analgesic dose and duration needed to adequately manage pain due both to the cause of pain and to individual patient factors. Initiate the dosing regimen for each patient individually, taking into account the patient's underlying cause and severity of pain, prior analgesic treatment and response, and risk factors for addiction, abuse, and misuse [see **WARNINGS**].

Respiratory depression can occur at any time during opioid therapy, especially when initiating and following dosage increases with Levorphanol Tartrate Tablets. Consider this risk when selecting an initial dose and when making dose adjustments [see **WARNINGS**].

##### Patient Access to Naloxone for the Emergency Treatment of Opioid Overdose

Discuss the availability of naloxone for the emergency treatment of opioid overdose with the patient and caregiver and assess the potential need for access to naloxone, both when initiating and renewing treatment with Levorphanol Tartrate Tablets [see **WARNINGS: Life-Threatening Respiratory Depression: PRECAUTIONS, Information for Patients**].

Inform patients and caregivers about the various ways to obtain naloxone as permitted by individual state naloxone dispensing and prescribing regulations (e.g., by prescription, directly from a pharmacist, or as part of a community-based program).

Consider prescribing naloxone, based on the patient's risk factors for overdose, such as concomitant use of CNS depressants, a history of opioid use disorder, or prior opioid overdose. The presence of risk factors for overdose should not prevent the proper management of pain in any given patient [see **WARNINGS: Addiction, Abuse, and Misuse: Life-Threatening Respiratory Depression: Risks from Concomitant Use with Benzodiazepines or Other CNS Depressants**].

Consider prescribing naloxone when the patient has household members (including children) or other close contacts at risk for accidental ingestion or overdose.

##### Initial Dosage

###### Use of Levorphanol Tartrate Tablets as the First Opioid Analgesic

Initiate treatment with Levorphanol Tartrate Tablets in a dosing range of 1 to 2 mg every 6 to 8 hours as needed for pain, and at the lowest dose necessary to achieve adequate analgesia, provided the patient is assessed for signs of hypoventilation and excessive sedation. Titrate the dose based upon the individual patient's response to their initial dose of Levorphanol Tartrate Tablets. If necessary, the dose may be increased to up to 3 mg every 6 to 8 hours, after adequate evaluation of the patient's response. Higher doses may be appropriate in opioid tolerant patients. Dosage should be adjusted according to the severity of the pain; age, weight and physical status of the patient; the patient's underlying diseases; use of concomitant medications; and other factors [see **CLINICAL PHARMACOLOGY: Individualization of Dosage, WARNINGS AND PRECAUTIONS**].

###### Conversion from Other Opioids to Levorphanol Tartrate Tablets

There is inter-patient variability in the potency of opioid drugs and opioid formulations. Therefore, a conservative approach is advised when determining the total daily dosage of Levorphanol Tartrate Tablets. It is safer to underestimate a patient's 24-hour Levorphanol Tartrate Tablets dosage than to overestimate the 24-hour Levorphanol Tartrate Tablets dosage and manage an adverse reaction due to overdose.

The dosage of levorphanol in patients with cancer or with other conditions for which chronic opioid therapy is indicated must be individualized. Levorphanol is 4 to 8 times as potent as morphine and has a longer half-life. Because there is incomplete cross-tolerance among opioids, when converting a patient from morphine to levorphanol, the total *daily* dose of levorphanol should begin at approximately 1/15 to 1/12 of the total *daily* dose of oral morphine that such patients had previously required and then the dose should be adjusted to the patient's clinical response. If a patient is to be placed on fixed-schedule dosing (round-the-clock)

with this drug, care should be taken to allow adequate time after each dose change (approximately 72 hours) for the patient to reach a new steady-state before a subsequent dose adjustment to avoid excessive sedation due to drug accumulation.

Note: As with all controlled substances, abuse by healthcare personnel is possible and the drug should be handled accordingly.

##### Geriatric Patients

Elderly patients (aged 65 years or older) may have increased sensitivity to levorphanol. In general, use caution when selecting a dosage 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. The initial dose of Levorphanol Tartrate Tablets should be reduced by 50% or more in the infirm elderly patient. [see **PRECAUTIONS**].

##### Titration and Maintenance of Therapy

Individually titrate the dose of Levorphanol Tartrate Tablets that provides adequate analgesia and minimizes adverse reactions. Continually reevaluate patients receiving Levorphanol Tartrate Tablets to assess the maintenance of pain control, signs and symptoms of opioid withdrawal and other adverse reactions, as well as reassessing for the development of addiction, abuse, or misuse [see **WARNINGS**]. Frequent communication is important among the prescriber, other members of the healthcare team, the patient, and the caregiver/family during periods of changing analgesic requirements, including initial titration.

If a patient is to be placed on fixed-schedule dosing (round-the-clock) with this drug care should be taken to allow adequate time after each dose change (approximately 72 hours) for the patient to reach a new steady state before a subsequent dose adjustment to avoid excessive sedation due to drug accumulation.

If the level of pain increases after dosage stabilization, attempt to identify the source of increased pain before increasing Levorphanol Tartrate Tablets dosage. If after increasing the dosage, unacceptable opioid-related adverse reactions are observed (including an increase in pain after dosage increase), consider reducing the dosage [see **WARNINGS**]. Adjust the dosage to obtain an appropriate balance between management of pain and opioid-related adverse reactions.

Levorphanol has a long half-life. The duration of pain relief after a single dose cannot always be predicted from pharmacokinetic principles, and the inter-dose interval may have to be adjusted to suit the patient's individual pharmacodynamic response.

##### Safe Reduction or Discontinuation of Levorphanol Tartrate Tablets

Do not abruptly discontinue Levorphanol Tartrate Tablets in patients who may be physically dependent on opioids. Rapid discontinuation of opioid analgesics in patients who are physically dependent on opioids has resulted in serious withdrawal symptoms, uncontrolled pain, and suicide. Rapid discontinuation has also been associated with attempts to find other sources of opioid analgesics, which may be confused with drug-seeking for abuse. Patients may also attempt to treat their pain or withdrawal symptoms with illicit opioids, such as heroin, and other substances.

When a decision has been made to decrease the dose or discontinue therapy in an opioid-dependent patient taking Levorphanol Tartrate Tablets, there are a variety of factors that should be considered, including the total daily dose of opioid (including Levorphanol Tartrate Tablets) the patient has been taking, the duration of treatment, the type of pain being treated, and the physical and psychological attributes of the patient. It is important to ensure ongoing care of the patient and to agree on an appropriate tapering schedule and follow-up plan so that patient and provider goals and expectations are clear and realistic. When opioid analgesics are being discontinued due to a suspected substance use disorder, evaluate and treat the patient, or refer for evaluation and treatment of the substance use disorder. Treatment should include evidence-based approaches, such as medication assisted treatment of opioid use disorder. Complex patients with co-morbid pain and substance use disorders may benefit from referral to a specialist.

There are no standard opioid tapering schedules that are suitable for all patients. Good clinical practice dictates a patient-specific plan to taper the dose of the opioid gradually. For patients on Levorphanol Tartrate Tablets who are physically opioid-dependent, initiate the taper by a small enough increment (e.g., no greater than 10% to 25% of the total daily dose) to avoid withdrawal symptoms, and proceed with dose-lowering at an interval of every 2 to 4 weeks. Patients who have been taking opioids for briefer periods of time may tolerate a more rapid taper.

It may be necessary to provide the patient with lower dosage strengths to accomplish a successful taper. Reassess the patient frequently to manage pain and withdrawal symptoms, should they emerge. Common withdrawal symptoms include restlessness, lacrimation, rhinorrhea, yawning, perspiration, chills, myalgia, and mydriasis. Other signs and symptoms also may develop, including irritability, anxiety, backache, joint pain, weakness, abdominal cramps, insomnia, nausea, anorexia, vomiting, diarrhea, or increased blood pressure, respiratory rate, or heart rate. If withdrawal symptoms arise, it may be necessary to pause the taper for a period of time or raise the dose of the opioid analgesic to the previous dose, and then proceed with a slower taper. In addition, evaluate patients for any changes in mood, emergence of suicidal thoughts, or use of other substances.

When managing patients taking opioid analgesics, particularly those who have been treated for an extended period of time, and/or with high doses for chronic pain, ensure that a multimodal approach to pain management, including mental health support (if needed), is in place prior to initiating an opioid analgesic taper. A multimodal approach to pain management may optimize the treatment of chronic pain, as well as assist with the successful tapering of the opioid analgesic [see **WARNINGS: Withdrawal, DRUG ABUSE AND DEPENDENCE**].

#### HOW SUPPLIED

Levorphanol Tartrate Tablets USP, 2 mg White to off white, scored tablets (Identified V2003)

NDC: 72989-417-10 Bottles of 100 tablets.

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

Dispense in an amber airtight container as defined in the USP.

Store Levorphanol Tartrate Tablets securely and dispose of properly [see **PRECAUTIONS: Information for Patients**].