





## 7 DRUG INTERACTIONS

### Inhibitors of CYP3A4, CYP2B6, CYP2C19, CYP2C9, or CYP2D6

**Clinical Impact:** Methadone undergoes hepatic N-demethylation by several cytochrome P450 (CYP) isoforms, including CYP3A4, CYP2B6, CYP2C19, CYP2C9, and CYP2D6. The concomitant use of methadone hydrochloride tablets and any of these CYP inhibitors may increase the plasma concentration of methadone, resulting in increased or prolonged opioid effects, and may result in a fatal overdose, particularly when an inhibitor is added after a stable dose of methadone hydrochloride tablets is achieved. These effects may be more pronounced with concomitant use of drugs that inhibit more than one of the CYP enzymes listed above.

After stopping a CYP3A4, CYP2B6, CYP2C19, CYP2C9, or CYP2D6 inhibitor, as the effects of the inhibitor decline, the methadone plasma concentration can decrease [see *Clinical Pharmacology* (12.3)], resulting in decreased opioid efficacy or withdrawal symptoms in patients physically dependent on methadone.

**Intervention:** If concomitant use is necessary, consider dosage reduction of methadone hydrochloride tablets until stable drug effects are achieved. Evaluate patients at frequent intervals for respiratory depression and sedation. If a CYP3A4, CYP2B6, CYP2C19, CYP2C9, or CYP2D6 inhibitor is discontinued, consider increasing the methadone hydrochloride tablets dosage until stable drug effects are achieved. Evaluate for signs of opioid withdrawal.

**Examples:** Macrolide antibiotics (e.g., erythromycin), azole-antifungal agents (e.g., ketconazole), protease inhibitors (e.g., ritonavir), fluconazole, fluvoxamine, some selective serotonin reuptake inhibitors (SSRIs) (e.g., sertraline, fluvoxamine).

### Inducers of CYP3A4, CYP2B6, CYP2C19, or CYP2D9

**Clinical Impact:** The concomitant use of methadone hydrochloride tablets and CYP3A4, CYP2B6, CYP2C19, or CYP2C9 inducers can decrease the plasma concentration of methadone [see *Clinical Pharmacology* (12.3)], resulting in decreased opioid efficacy or onset of withdrawal symptoms in patients physically dependent on methadone. These effects could be more pronounced with concomitant use of drugs that can induce multiple CYP enzymes.

After stopping a CYP3A4, CYP2B6, CYP2C19, or CYP2C9 inducer, as the effects of the inducer decline, the methadone plasma concentration can increase [see *Clinical Pharmacology* (12.3)], which could increase or prolong both the therapeutic effects and adverse reactions, and may cause severe respiratory depression, sedation, or death.

**Intervention:** If concomitant use is necessary, consider increasing the methadone hydrochloride tablets dosage until stable drug effects are achieved. Evaluate for signs of opioid withdrawal. If a CYP3A4, CYP2B6, CYP2C19, or CYP2C9 inducer is discontinued, consider methadone hydrochloride tablets dosage reduction and evaluate patients at frequent intervals for respiratory depression and sedation.

**Examples:** Rifampin, carbamazepine, phenytoin, St. John's Wort, Phendolbutal

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

**Clinical Impact:** Due to additive pharmacologic effect, the concomitant use of benzodiazepines or other CNS depressants, including alcohol, can increase the risk of hypotension, respiratory depression, profound sedation, coma, and death.

**Intervention:** For Patients Being Treated for Pain: 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 for pain. Inform patients and caregivers of this potential interaction, educate them on the signs and symptoms of respiratory depression (including sedation). [see *Warnings and Precautions* (5.3)].

If concomitant use is warranted, consider prescribing or recommending an opioid overdose reversal agent. [see *Warnings and Precautions* (5.3.3)].

For Patients Being Treated for Opioid Addiction: Concomitant use of benzodiazepines and other CNS depressants is preferred in most cases of concomitant use. In some cases, monitoring in a higher level of care or other measures may be appropriate. In others, gradually tapering a patient off of a prescribed benzodiazepine or other CNS depressant or decreasing to the lowest effective dose may be appropriate.

Before co-prescribing benzodiazepines for anxiety or insomnia, ensure that patients are appropriately diagnosed and consider alternative medications and non-pharmacologic treatments.

If concomitant use is warranted, consider prescribing or recommending an opioid overdose reversal agent, as is recommended for all patients in treatment for opioid use disorder [see *Warnings and Precautions* (5.1, 5.2, 5.3)].

**Examples:** Benzodiazepines and other sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, anticholinergics, gabapentinoids, other opioids, alcohol.

### Potentially Arrhythmogenic Agents

Pharmacodynamic interactions may occur with concomitant use of methadone and potentially arrhythmogenic agents or drugs capable of inducing electrolyte disturbances (hypomagnesemia, hypokalemia, and hypocalcemia).

**Intervention:** Evaluate patients closely for cardiac conduction changes.

**Examples:** Drugs known to have potential to prolong QT interval: Class I and III antiarrhythmic agents, some neuroleptics and trochic antidepressants, and calcium channel blockers. Drugs capable of inducing electrolyte disturbances: Diuretics, laxatives, and, in rare cases, mineralocorticoid hormones.

### Serotonergic Drugs

**Clinical Impact:** The concomitant use of opioids with other drugs that affect the serotonergic neurotransmitter system has resulted in serotonin syndrome [see *Warnings and Precautions* (5.9)].

**Intervention:** If concomitant use is warranted, frequently evaluate the patient, particularly during treatment initiation and dose adjustment. Discontinue methadone hydrochloride tablets immediately if serotonin syndrome is suspected.

**Examples:** Selective serotonin reuptake inhibitors (SSRIs), serotonin and norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), triptans, 5-HT<sub>3</sub> receptor antagonists (agonists), drugs that affect the serotonergic neurotransmitter system (e.g., mirtazapine, tramadol), central muscarinic relaxants (e.g., cyclobenzaprine, methadone), MAOI inhibitors, and MAOIs intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue.

### Monooamine Oxidase Inhibitors (MAOIs)

**Clinical Impact:** MAOI interactions with opioids may manifest as serotonin syndrome [see *Warnings and Precautions* (5.9)] or opioid toxicity (e.g., respiratory depression, coma). [see *Warnings and Precautions* (5.2)].

**Intervention:** The use of methadone hydrochloride tablets is not recommended for patients taking MAOIs or within 14 days of stopping such agent.

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

**Clinical Impact:** May reduce the analgesic effect of methadone hydrochloride tablets and/or precipitate withdrawal symptoms.

**Intervention:** Avoid concomitant use.

**Examples:** Bupropion, nalbuphine, pentazocine, buprenorphine.

### Muscle Relaxants

**Clinical Impact:** Methadone may enhance the neuromuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression.

**Intervention:** Evaluate patients for signs of respiratory depression that may be greater than otherwise expected and decrease the dose of methadone hydrochloride tablets and/or the muscle relaxant as necessary. Due to the risk of respiratory depression with concomitant use of muscle relaxants and opioids, consider prescribing an opioid overdose reversal agent. [see *Warnings and Precautions* (5.2, 5.3)]

**Examples:** cyclobenzaprine, methadone

### Diuretics

**Clinical Impact:** Opioids can reduce the efficacy of diuretics by inducing the release of antidiuretic hormone.

**Intervention:** Evaluate patients for signs of diminished diuresis and/or effects on blood pressure and increase the dosage of the diuretic as needed.

### Anticholinergic Drugs

**Clinical Impact:** The concomitant use of anticholinergic drugs may increase risk of urinary retention and/or severe constipation, which may lead to paralytic ileus.

**Intervention:** Evaluate patients for signs of urinary retention or reduced gastric motility when methadone hydrochloride tablets are used concomitantly with anticholinergic drugs.

### Paradoxical Effects of Antiretroviral Agents on Methadone Hydrochloride Tablets

Concurrent use of certain antiretroviral agents with CYP3A4 inhibitory activity, alone and in combination, such as abacavir, amprenavir, darunavir, efavirenz, efavirenz, nevirapine, ritonavir, lopinavir, lopinavir+ritonavir, saquinavir, ritonavir, and tipranavir+ritonavir, has resulted in increased plasma levels of methadone. This may result in increased risk of methadone hydrochloride tablets and may precipitate a withdrawal syndrome. Monitor methadone-maintained patients receiving any of these anti-retroviral therapies closely for evidence of withdrawal effects and adjust the methadone dose accordingly.

**Effects of Methadone Hydrochloride Tablets on Antiretroviral Agents**

**Didanosine and Stavudine:** Experimental evidence demonstrated that methadone decreased the area under the concentration-time curve (AUC) and peak levels of didanosine and stavudine, with a more significant decrease for didanosine. Methadone disposition was not substantially altered.

**Zidovudine:** Experimental evidence demonstrated that methadone increased the AUC of zidovudine, which could result in toxic effects.

**Effects of Methadone Hydrochloride Tablets on Antidepressants**

**Desipramine:** Blood levels of desipramine have increased with concurrent methadone administration.

### 8 USE IN SPECIFIC POPULATIONS

#### 8.1 Pregnancy

**Risk Summary**

The majority of available data from clinical trials, observational studies, case series, and case reports on methadone use in pregnancy do not indicate an increased risk of major malformations specifically due to methadone.

Pregnant women involved in methadone maintenance programs have been reported to have improved prenatal care leading to reduced incidence of obstetric and fetal complications and neonatal morbidity and mortality when compared to women using illicit drugs. Several factors, including maternal use of illicit drugs, nutrition, infection and psychosocial conditions, complicate the interpretation of investigations of the children of women who take methadone during pregnancy. Information is limited regarding dose and duration of methadone use during pregnancy, and most maternal exposure in these studies appears to occur after the first trimester of pregnancy [see *Children*].

Neonatal opioid withdrawal syndrome (NOWS) is an expected and treatable outcome of use of opioids for an extended period of time during pregnancy [see *Warnings and Precautions* (5.7)].

In published animal reproduction studies, methadone administered subcutaneously during the early gestational period produced neural tube defects (i.e., exencephaly and cranioschisis) in the hamster at doses 2 times the human daily oral dose of 120 mg/kg in a mg/m<sup>2</sup> basis (HDD) and in mice at doses equivalent to the HDD. Administration of methadone to pregnant animals during organogenesis and through lactation resulted decreased litter size, increased pup mortality, decreased pup body weights, developmental delays, and long-term neurochemical changes in the brain of offspring which correlate with altered behavioral responses that persist through adulthood at exposures comparable to or less than the HDD. Administration of methadone to male rodents prior to mating with untreated females resulted in increased neonatal mortality and significant differences in behavioral tests in the offspring at exposures comparable to and less than the HDD [see *Data*]. Based on animal data, advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. 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**

**Disease-associated Maternal and Embryo-Fetal Risk:** Untreated opioid addiction in pregnancy is associated with adverse obstetrical outcomes such as low birth weight, preterm birth, and fetal death. In addition, untreated opioid addiction often results in continued or relapsing illicit opioid use.

**Dosage Adjustment During Pregnancy:** Dosage adjustment using higher doses or administering the daily dose in divided doses may be necessary in pregnant women treated with methadone hydrochloride tablets. Pregnant women appear to have significantly lower trough plasma methadone concentrations, increased plasma methadone clearance, and shorter methadone half-life than after delivery [see *Dosage and Administration* (2.9) and *Clinical Pharmacology* (12.3)]. Withdrawal signs and symptoms should be closely monitored and the dose adjusted as necessary.

**Fetal/Neonatal Adverse Reactions:** Neonatal opioid withdrawal syndrome may occur in newborn infants of mothers who are receiving treatment with methadone hydrochloride tablets.

Neonatal opioid withdrawal syndrome presents as irritability, hyperactivity and abnormal sleep pattern, high pitched cry, tremor, vomiting, diarrhea, and/or failure to gain weight. Signs of neonatal withdrawal usually occur in the first days after birth. The duration and severity of neonatal opioid withdrawal syndrome may vary. Observe newborns for signs of neonatal opioid withdrawal syndrome and manage accordingly [see *Warnings and Precautions* (5.7)].

**Labor or Delivery:** Opioid-dependent women on methadone maintenance therapy may require additional analgesia during labor. Monitor neonates exposed to opioid analgesics during labor for signs of excess sedation and respiratory depression.

**Data**

**Human Data:** The majority of available data from clinical trials, observational studies, case series, and case reports on methadone use in pregnancy do not indicate an increased risk of major malformations specifically due to methadone. Findings regarding specific major malformations, decreased fetal growth, premature birth and Sudden Infant Death Syndrome have been inconsistent. Children prenatally exposed to methadone have been reported to demonstrate mild but persistent deficits in performance on psychometric and behavioral tests and visual abnormalities.

In a multicenter, double-blind, randomized, controlled trial (Maternal Opioid Treatment: Human Experimental Research (MOTHER)) designed primarily to assess neonatal opioid withdrawal effects, opioid-dependent pregnant women were randomized to buprenorphine (n=89) or methadone (n=89) treatment, with enrollment at an average gestational age of 18.7 weeks in both groups. A total of 28 of the 86 women in the buprenorphine group (33%) and 16 of the 89 women in the methadone group (18%) discontinued treatment before the end of pregnancy.

Among women who remained in treatment until delivery, there was no difference between methadone-treated and buprenorphine-treated groups in the number of neonates requiring NOWS treatment or in the peak severity of NOWS. Buprenorphine-exposed neonates required less morphine (mean total dose, 1.1 mg vs. 10.4 mg), had shorter hospital stays (10.0 days vs. 17.5 days), and shorter duration of treatment for NOWS (4.1 days vs. 9.9 days) compared to the methadone-exposed group. There were no differences between groups in other primary outcomes (neonatal head circumference), or secondary outcomes (weight and length at birth, preterm birth, gestational age at delivery, and 1-minute and 5-minute Apgar scores), or in the rates of maternal or neonatal adverse events. The outcomes among mothers who discontinued treatment before delivery and may have relapsed to illicit opioid use are not known. Because of the imbalance in discontinuation rates between the methadone and buprenorphine groups, the study findings are difficult to interpret.

**Animal Data:** Formal reproductive and developmental toxicity studies for methadone have not been conducted. Exposure margins for the following published study reports are based on a human daily dose (HDD) of 120 mg methadone using a body surface area comparison.

In a published study in pregnant hamsters, a single subcutaneous dose of methadone ranging from 31 mg/kg (2 times the HDD) to 185 mg/kg on Gestation Day 8 resulted in a decrease in the number of fetuses per litter and an increase in the percentage of fetuses exhibiting neural tube defects including exencephaly, cranioschisis, and "various other lesions." The majority of the doses tested also resulted in decreased fetal weight. In a study in pregnant B6D<sub>1F<sub>1</sub></sub> mice, a single subcutaneous dose of 22 to 24 mg/kg methadone (approximately equivalent to the HDD) administered on Gestation Day 9 produced exencephaly in 11% of the embryos. In another study in pregnant mice, subcutaneous doses up to 28 mg/kg/day methadone (equivalent to the HDD) administered from Gestation Day 10 to 15, resulted in no maternal or neonatal adverse effects. In a study in pregnant rats, decreased live fetuses at 10 mg/kg/day or greater (0.4 times the HDD) and decreased ossification and fetal body weight at 20 mg/kg/day or greater (0.8 times the HDD). In a second study of pregnant mice dosed with subcutaneous doses up to 28 mg/kg/day methadone from Gestation Day 10 to 15, there were no maternal or neonatal adverse effects. In a study in pregnant rats, decreased photokinesis and eye opening, increased righting reflexes at 5 mg/kg/day or greater (0.2 times the HDD), and decreased number of live pups at birth and decreased pup weight gain at 20 mg/kg/day or greater (0.2 times the HDD).

No effects were reported in a study of pregnant rats and rabbits at oral doses up to 40 mg/kg (3 and 6 times, respectively, the HDD) administered from Gestation Days 5 to 15 and 6 to 18, respectively.

When pregnant rats were treated with intraperitoneal doses of 2.5, 5, or 7.5 mg/kg methadone from one week prior to mating, through gestation until the end of lactation period, 5 mg/kg or greater (0.4 times the HDD) methadone resulted in decreases in litter size and live pups born and 7.5 mg/kg (0.6 times the HDD) resulted in decreased birth weights. Furthermore, decreased pup viability and pup body weight gain at 2.5 mg/kg or greater (0.2 times the HDD) were noted during the preweaning period.

Additional animal data demonstrate evidence for neurochemical changes in the brains of offspring from methadone-treated pregnant rats, including changes to the cholinergic, dopaminergic, noradrenergic and serotonergic systems at doses below the HDD. Other animal studies have reported that prenatal and/or postnatal exposure to opioids including methadone alters neuronal development and behavior in the offspring including alterations in learning ability, motor activity, thermal regulation, nociceptive responses, and sensitivity to drugs at doses below the HDD. Treatment of pregnant rats subcutaneously with 5 mg/kg methadone from Gestation Day 14 to 19 (0.4 times the HDD) reduced fetal blood testosterone and androstenedione in males.

Published animal data have reported increased neonatal mortality in the offspring of male rats that were treated with methadone at doses comparable to and less than the HDD for 1 to 12 days before and/or during mating with more pronounced effects in the first 4 days. In these studies, the female rodents were not treated with methadone, indicating paternally-mediated developmental toxicity. Specifically, methadone administered to the male rat prior to mating with methadone-naïve females resulted in decreased weight gain in progeny after weaning. The male progeny demonstrated reduced thymus weights,

whereas the female progeny demonstrated increased adrenal weights. Behavioral testing of these male and female progeny revealed significant differences in behavioral tests compared to control animals, suggesting that paternal methadone exposure can produce physiological and behavioral changes in progeny in this model. Examination of uterine contents of methadone-naïve female mice bred to methadone-treated male mice (once a day for three consecutive days) indicated that methadone treatment produced an increase in the rate of preimplantation deaths in all post-mate states at 1 mg/kg/day or greater (0.04 times the HDD). Chromosome analysis revealed a dose-dependent increase in the frequency of chromosomal abnormalities at 1 mg/kg/day or greater.

Studies have demonstrated that methadone treatment of male rats for 2 to 32 days prior to mating with methadone-naïve females did not produce any adverse effects, suggesting that prolonged methadone treatment of the male rat resulted in tolerance to the developmental toxicities noted in the progeny. Mechanistic studies in this rat model suggest that the developmental effects of methadone on the progeny appear to be due to decreased testosterone production. These animal data support the reported clinical findings of decreased testosterone levels in human males on methadone maintenance therapy for opioid addiction and in males receiving chronic intrasplenic opioids.

#### 8.2 Lactation

**Risk Summary**

Based on two small clinical studies, methadone was present in low levels in human milk, but the exposed infants in these studies did not show adverse reactions. Based on an average milk consumption of 150 mL/kg/day, an infant would consume approximately 22 mg/L of milk were reported. Based on an average milk consumption of 150 mL/kg/day, an infant would consume approximately 17.4 mg/kg/day, which is approximately 2 to 3% of the oral maternal dose. Methadone has been detected in very low plasma concentrations in some infants whose mothers were taking methadone.

**8.3 Females and Males of Reproductive Potential**

The effect of methadone hydrochloride tablets on fertility is unknown. 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 *Warnings and Precautions* (6)].

**8.4 Pediatric Use**

The safety, effectiveness, and pharmacokinetics of methadone in pediatric patients below the age of 18 years have not been established.

**Geriatric Use**

Clinical studies of methadone did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently compared to younger subjects. Other reported clinical experience has not identified differences in responses between elderly and younger patients.

Elderly patients aged 65 years or older may have increased sensitivity to methadone. 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.

Respiratory depression is the chief risk for elderly patients treated with opioids, and has been associated with increased mortality in patients who were not opioid tolerant or when opioids were co-administered with other agents that depress respiration. Titrate the dosage of methadone hydrochloride tablets slowly in geriatric patients and frequently reevaluate the patient for signs of central nervous system and respiratory depression [see *Warnings and Precautions* (5.10)].

Methadone 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 dosage selection, and it may be useful to regularly evaluate renal function.

#### 8.5 Hepatic Impairment

Methadone hydrochloride tablets have not been extensively evaluated in patients with hepatic insufficiency. Methadone is metabolized by hepatic pathways; therefore, patients with liver impairment may be at risk of increased systemic exposure to methadone after multiple dosing. Start these patients on lower doses and titrate slowly while carefully monitoring for signs of respiratory and central nervous system depression.

#### 8.6 Renal Impairment

Methadone pharmacokinetics have not been extensively evaluated in patients with hepatic insufficiency. Methadone is metabolized by hepatic pathways; therefore, patients with liver impairment may be at risk of increased systemic exposure to methadone after multiple dosing. Start these patients on lower doses and titrate slowly while carefully monitoring for signs of respiratory and central nervous system depression.

#### 8.7 Renal Impairment

Methadone pharmacokinetics have not been extensively evaluated in patients with renal insufficiency. Since unmetabolized methadone and its metabolites are excreted in urine, a variable degree of renal excretion may occur in patients with impaired dosing intervals and titrate slowly while carefully monitoring for signs of respiratory and central nervous system depression.

#### 9 DRUG ABUSE AND DEPENDENCE

##### 9.1 Controlled Substance

Methadone hydrochloride tablets contain methadone, a Schedule II controlled substance.

##### 9.2 Abuse

Methadone hydrochloride tablets contains methadone, a substance with high potential for abuse and abuse, which can lead to the development of substance use disorder, including addiction [see *Warnings and Precautions* (5.1)].

Abuse 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., use without medical supervision), and compulsive drug taking, giving a higher priority to drug use than other activities (obligations), and possible tolerance or physical dependence.

Misuse and abuse of methadone hydrochloride tablets increases risk of overdose, which may lead to central nervous system depression, respiratory depression, hypoxemia, and death. Opioid abuse may include the use of methadone hydrochloride tablets in combination with alcohol and other CNS depressants. Abuse of and addition to opioids in some individuals may be accompanied by concurrent tolerance and symptoms of physical dependence. In addition, abuse of opioids can lead to 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 after appropriate medical use. Patients at high risk of methadone hydrochloride tablets abuse include those with a history of prolonged use of any opioid, including products containing methadone, those with a history of drug or alcohol abuse, or those who use methadone hydrochloride 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" prescriptions, tampering with prescriptions, and reluctance to provide prior medical records or contact information for other treating healthcare providers. "Doctor shopping" (visiting multiple physicians to obtain additional prescriptions) is common among people who abuse drugs and people with substance use disorders. Preoccupation with achieving adequate pain relief can be appropriate behavior in a patient with inadequate pain control.

Methadone hydrochloride 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.

**Risk Specific to Abuse of Methadone Hydrochloride Tablets**

Abuse of methadone hydrochloride tablets poses a risk of overdose and death. The risk is increased with concurrent use of methadone hydrochloride tablets with alcohol and/or other CNS depressants.

Methadone hydrochloride tablets are approved for oral use only. Inappropriate intravenous, intramuscular, or subcutaneous use of methadone hydrochloride tablets has resulted in increased plasma levels of methadone. This may result in increased risk of methadone hydrochloride tablets and may precipitate a withdrawal syndrome. Monitor methadone-maintained patients receiving any of these anti-retroviral therapies closely for evidence of withdrawal effects and adjust the methadone dose accordingly.

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

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, nalmefene, and antagonist-agonist analgesics (e.g., pentazocine, buprenorphine, or partial agonist, e.g., buprenorphine)).

Some data also indicate that methadone acts as an antagonist at the N-methyl-D-aspartate (NMDA) receptor. The contribution of NMDA receptor antagonism to methadone's efficacy is unknown.

When discontinuing methadone hydrochloride tablets, gradually taper the dosage using a patient-specific plan that considers the following: the dose of methadone hydrochloride 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, approach a pain management, including mental health support (if needed), is in place prior to initiating an opioid analgesic taper [see *Dosage and Administration* (2.6), and *Warnings and Precautions* (5.16)].

Patients who are physically dependent on opioids will also be physically dependent and may exhibit respiratory difficulties and withdrawal signs [see *Use in Specific Populations* (8.1)].

#### 10 OVERDOSAGE

**Clinical Presentation**

Acute overdosage with methadone hydrochloride tablets can be manifested by respiratory depression sometimes 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 has been reported with overdosage and fatal complications and neonatal morbidity and mortality when compared to women using illicit drugs. Several factors, including maternal use of illicit drugs, nutrition, infection and psychosocial conditions, complicate the interpretation of investigations of the children of women who take methadone during pregnancy. Information is limited regarding dose and duration of methadone use during pregnancy, and most maternal exposure in these studies appears to occur after the first trimester of pregnancy [see *Children*].

Neonatal opioid withdrawal syndrome (NOWS) is an expected and treatable outcome of use of opioids for an extended period of time during pregnancy [see *Warnings and Precautions* (5.7)].

In published animal reproduction studies, methadone administered subcutaneously during the early gestational period produced neural tube defects (i.e., exencephaly and cranioschisis) in the hamster at doses 2 times the human daily oral dose of 120 mg/kg in a mg/m<sup>2</sup> basis (HDD) and in mice at doses equivalent to the HDD. Administration of methadone to pregnant animals during organogenesis and through lactation resulted decreased litter size, increased pup mortality, decreased pup body weights, developmental delays, and long-term neurochemical changes in the brain of offspring which correlate with altered behavioral responses that persist through adulthood at exposures comparable to or less than the HDD. Administration of methadone to male rodents prior to mating with untreated females resulted in increased neonatal mortality and significant differences in behavioral tests in the offspring at exposures comparable to and less than the HDD [see *Data*]. Based on animal data, advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. 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**

**Disease-associated Maternal and Embryo-Fetal Risk:** Untreated opioid addiction in pregnancy is associated with adverse obstetrical outcomes such as low birth weight, preterm birth, and fetal death. In addition, untreated opioid addiction often results in continued or relapsing illicit opioid use.

**Dosage Adjustment During Pregnancy:** Dosage adjustment using higher doses or administering the daily dose in divided doses may be necessary in pregnant women treated with methadone hydrochloride tablets. Pregnant women appear to have significantly lower trough plasma methadone concentrations, increased plasma methadone clearance, and shorter methadone half-life than after delivery [see *Dosage and Administration* (2.9) and *Clinical Pharmacology* (12.3)]. Withdrawal signs and symptoms should be closely monitored and the dose adjusted as necessary.

**Fetal/Neonatal Adverse Reactions:** Neonatal opioid withdrawal syndrome may occur in newborn infants of mothers who are receiving treatment with methadone hydrochloride tablets.

Neonatal opioid withdrawal syndrome presents as irritability, hyperactivity and abnormal sleep pattern, high pitched cry, tremor, vomiting, diarrhea, and/or failure to gain weight. Signs of neonatal withdrawal usually occur in the first days after birth. The duration and severity of neonatal opioid withdrawal syndrome may vary. Observe newborns for signs of neonatal opioid withdrawal syndrome and manage accordingly [see *Warnings and Precautions* (5.7)].

**Labor or Delivery:** Opioid-dependent women on methadone maintenance therapy may require additional analgesia during labor. Monitor neonates exposed to opioid analgesics during labor for signs of excess sedation and respiratory depression.

**Data**

**Human Data:** The majority of available data from clinical trials, observational studies, case series, and case reports on methadone use in pregnancy do not indicate an increased risk of major malformations specifically due to methadone. Findings regarding specific major malformations, decreased fetal growth, premature birth and Sudden Infant Death Syndrome have been inconsistent. Children prenatally exposed to methadone have been reported to demonstrate mild but persistent deficits in performance on psychometric and behavioral tests and visual abnormalities.

In a multicenter, double-blind, randomized, controlled trial (Maternal Opioid Treatment: Human Experimental Research (MOTHER)) designed primarily to assess neonatal opioid withdrawal effects, opioid-dependent pregnant women were randomized to buprenorphine (n=89



## Job Specification Form - PI

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Flat Size :		Flat Tolerance :		
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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use METHADONE HYDROCHLORIDE TABLETS safely and effectively. See full prescribing information for METHADONE HYDROCHLORIDE TABLETS.

#### METHADONE HYDROCHLORIDE Tablets, for oral use CII Initial U.S. Approval: 1947

WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF METHADONE HYDROCHLORIDE TABLETS	
<b>See full prescribing information for complete boxed warning.</b>	
• <b>Methadone hydrochloride tablets</b> expose users to risks of addiction, abuse, and misuse, which can lead to overdose and death. Assess risk and implement risk mitigation strategies, including prescriptions, patient education about the behavior and conditions. (5.1)	
• <b>Serious, life-threatening, or fatal respiratory depression</b> may occur. The peak respiratory depressant effect of methadone occurs later, and persists longer than the peak analgesic effect. Monitor closely, especially upon initiation or following a dose increase. (5.2)	
• <b>Accidental ingestion</b> of methadone hydrochloride tablets, especially by children, can result in a fatal overdose of methadone. (5.3)	
• <b>Concomitant use of opioids with benzodiazepines or other central nervous system (CNS) depressants, including alcohol, may result in profound sedation, respiratory depression, coma, and death.</b> (5.3, 7)	
• <b>Neonatal opioid withdrawal syndrome (NOWS)</b> is an expected and treatable outcome of use of methadone hydrochloride tablets during pregnancy. NOWS may be life-threatening if not recognized and treated in the neonate. The balance between risks of NOWS and the benefits of maternal methadone hydrochloride tablets use may differ based on the risks associated with the mother's underlying condition, pain, or addiction. (5.5)	
• <b>To ensure that the benefits of opioid analgesics outweigh the risks of addiction, abuse, and misuse, the Food and Drug Administration (FDA) has required a Risk Evaluation and Mitigation Strategy (REMS) for these products.</b> (5.6)	
• <b>QT interval prolongation and serious arrhythmia (torsades de pointes) have occurred during treatment with methadone.</b> Closely monitor patients with risk factors for development of prolonged QT interval, a history of cardiac conduction abnormalities, and those taking medications affecting cardiac conduction (5.4)	
• <b>Concomitant use with CYP3A4, 2B6, 2C19, 2C9, or 2D6 inhibitors or discontinuation of concomitantly used CYP3A4, 2B6, 2C19, or 2D6 inducers can result in a fatal overdose of methadone.</b> (5.7, 7)	
• <b>Methadone products, when used as the treatment of opioid addiction in detoxification or maintenance programs, must be used only in programs as stipulated in 42 CFR 8.12, (1, 2, 1)</b>	

—RECENT MAJOR CHANGES—	
Boxed Warning	08/2025
Indications and Usage (1)	08/2025
Dosage and Administration (2.3, 2.4, 2.6)	08/2025
Warnings and Precautions (5.1, 5.2, 5.3, 5.14)	08/2025

—INDICATIONS AND USAGE—	
Methadone hydrochloride tablets are an opioid agonist indicated for the:	
1. Methadone hydrochloride tablets are indicated for the management of severe and persistent pain that requires an opioid analgesic and that cannot be adequately treated with alternative opioids, including immediate-release opioids. (1)	
Limitations of Use	
• Because of the risks of addiction, abuse, misuse, overdose, and death, which can occur at any dosage or duration (see Warnings and Precautions (5.1)) and persist over the course of therapy, reserve opioid analgesics, including methadone hydrochloride tablets, for patients for whom alternative treatment options are ineffective, not tolerated, or would be otherwise inadequate to provide sufficient management of pain. (1)	
• Methadone hydrochloride tablets are not indicated as an as-needed (prn) analgesic. (1)	

2. Detoxification treatment of opioid addiction (heroin or other morphine-like drugs).
  3. Maintenance treatment of opioid addiction (heroin or other morphine-like drugs), in conjunction with appropriate social and medical services. (1)
- Limitations of Use
- Methadone products used for the treatment of opioid addiction in detoxification or maintenance programs are subject to the conditions for distribution and use required under 42 CFR 8.12 (1, 2).

- Consider recommending or prescribing an opioid overdose reversal agent (e.g., naloxone, nalmefene) based on the patient's risk factors for overdose (2.5, 5.1, 5.2, 5.3).
- Management of Pain
- Methadone hydrochloride tablets should be prescribed only by healthcare professionals who are knowledgeable about the use of extended-release/long-acting opioids and how to mitigate the associated risks. (2, 1)
  - Use the lowest effective dosage for the shortest duration of time consistent with individual patient treatment goals. Reserve

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#### WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF METHADONE HYDROCHLORIDE TABLETS

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#### WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF METHADONE HYDROCHLORIDE TABLETS

#### Addiction, Abuse, and Misuse

#### Because the use of methadone hydrochloride tablets exposes patients and other users to the risks of opioid addiction, abuse, and misuse, which can lead to overdose and death, assess each patient's risk prior to prescribing and reassess all patients regularly for the development of these behaviors and conditions. See Warnings and Precautions (5.1).

#### Life-Threatening Respiratory Depression

#### Serious, life-threatening, or fatal respiratory depression may occur with use of methadone hydrochloride tablets, especially during initiation or following a dosage increase. To reduce the risk of respiratory depression, proper dosing and titration of methadone hydrochloride tablets are essential. See Warnings and Precautions (5.2).

#### Accidental Ingestion

#### Accidental ingestion, even one dose of methadone hydrochloride tablets, especially by children, can result in a fatal overdose of methadone. See Warnings and Precautions (5.3).

#### Risks from Concomitant Use with Benzodiazepines or Other CNS Depressants

#### Concomitant use of opioids with benzodiazepines or other central nervous system (CNS) depressants, including alcohol, may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing of methadone hydrochloride tablets with benzodiazepines or other CNS depressants for use in patients for whom alternative treatment options are inadequate. See Warnings and Precautions (5.3), Drug Interactions (7.0).

#### Neonatal Opioid Withdrawal Syndrome (NOWS)

#### Neonatal opioid withdrawal syndrome (NOWS) is an expected and treatable outcome of use of methadone hydrochloride tablets during pregnancy. NOWS may be life-threatening if not recognized and treated in the neonate. The balance between the risks of NOWS and the benefits of maternal methadone hydrochloride tablets use may differ based on the risks associated with the mother's underlying condition, pain, or addiction. See Warnings and Precautions (5.5).

#### Opioid Analgesic Risk Evaluation and Mitigation Strategy (REMS)

#### Healthcare providers are strongly encouraged to complete a REMS-compliant education program and to counsel patients and caregivers on serious risks, safe use, and the importance of reading the Medication Guide with each prescription. See Warnings and Precautions (5.6).

#### Life-Threatening QT Prolongation

#### QT interval prolongation and serious arrhythmia (torsades de pointes) have occurred during treatment with methadone. Most cases involve patients being treated for pain with large, multiple daily doses of methadone, although cases have been reported in patients receiving doses commonly used for maintenance treatment of opioid addiction. Closely monitor patients with risk factors for development of prolonged QT interval, a history of cardiac conduction abnormalities, and those taking medications affecting cardiac conduction for changes in cardiac rhythm during initiation and titration of methadone hydrochloride tablets. See Warnings and Precautions (5.4).

#### Cytochrome P450 Interactions

#### The concomitant use of methadone hydrochloride tablets with all cytochrome P450 3A4, 2B6, 2C19, 2C9, or 2D6 inducers may result in an increase in methadone plasma concentrations, which could cause potentially fatal respiratory depression. In addition, discontinuation of concomitantly used cytochrome P450 3A4, 2B6, 2C19, or 2D6 inducers may also result in an increase in methadone plasma concentration. Follow patients closely for respiratory depression and instability during the general requirement for certification to provide opioid agonist treatment. Failure to abide by the requirements in these regulations may result in criminal prosecution, seizure of the drug supply, revocation of the program approval, and injunction precluding operation of the program.

#### Regulatory Exemptions to the General Requirement for Certification to Provide Opioid Agonist Treatment:

- During inpatient care, when the patient was admitted for any condition other than concurrent opioid addiction (pursuant to 21CFR 1306.07(c)), to facilitate the treatment of the primary admitting diagnosis).
- During an emergency use of methadone hydrochloride tablets for the addiction is being sought in an appropriately licensed facility (pursuant to 21CFR 1306.07(b)).

#### 2.2 Important General Information

- The peak respiratory depressant effect of methadone occurs later and persists longer than its peak therapeutic effect.
- A high degree of opioid tolerance does not eliminate the possibility of methadone overdose, iatrogenic or otherwise. Deaths have been reported during conversion to methadone from chronic, high-dose treatment with other opioid agonists and during initiation of methadone treatment in patients previously abusing high doses of other agonists.
- With repeated dosing, methadone is retained in the liver and then slowly released, prolonging the duration of potential toxicity.
- Methadone has a narrow therapeutic index, especially when combined with other drugs.

#### 2.3 Patient Access to an Opioid Overdose Reversal Agent for the Emergency Treatment of Opioid Overdose

Inform patients and caregivers about opioid overdose reversal agents (e.g., naloxone, nalmefene) and discuss the importance of having access to an opioid overdose reversal agent. See Warnings and Precautions (5.2), Overdose (10).

#### For Patients Being Treated for Pain

Discuss the importance of having access to an opioid overdose reversal agent, especially if the patient has risk factors for overdose (e.g., concomitant use of CNS depressants, a history of opioid use disorder, or prior opioid overdose) or if the patient has household members (including children) or other close contacts at risk for accidental ingestion or opioid overdose. The presence of risk factors for overdose should not prevent the proper management of pain in any given patient. (See Warnings and Precautions (5.1, 5.2, 5.3)).

#### For Patients Being Treated for Opioid Use Disorder

Because patients being treated for opioid use disorder have the potential for relapse, putting them at risk for opioid overdose, strongly consider prescribing or recommending an overdose reversal agent for the emergency treatment of relapse. Inform patients and caregivers about opioid overdose reversal agents (e.g., naloxone, nalmefene) and discuss the importance of having access to an opioid overdose reversal agent. See Warnings and Precautions (5.2), Overdose (10).

#### For Patients Being Treated for Opioid Dependence

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