

MORPHINE SULFATE- morphine sulfate capsule, extended release

Upsher-Smith Laboratories, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MORPHINE SULFATE EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for MORPHINE SULFATE EXTENDED-RELEASE CAPSULES.

MORPHINE SULFATE extended-release capsules, for oral use, CII
Initial U.S. Approval: 1941

WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF MORPHINE SULFATE EXTENDED-RELEASE CAPSULES

See full prescribing information for complete boxed warning.

- Morphine sulfate extended-release capsules expose users to risks of addiction, abuse, and misuse, which can lead to overdose and death. Assess each patient's risk before prescribing, and monitor regularly for these behaviors and conditions. (5.1)
- Serious, life-threatening, or fatal respiratory depression may occur. Monitor closely, especially upon initiation or following a dose increase. Instruct patients to swallow morphine sulfate extended-release capsules whole to avoid exposure to a potentially fatal dose of morphine. (5.3)
- Accidental ingestion of morphine sulfate extended-release capsules, especially by children, can result in fatal overdose of morphine. (5.2)
- Instruct patients not to consume alcohol or any products containing alcohol while taking morphine sulfate extended-release capsules because co-ingestion can result in fatal plasma morphine levels. (5.3)
- 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 for use in patients for whom alternative treatment options are inadequate; limit dosages and durations to the minimum required; and follow patients for signs and symptoms of respiratory depression and sedation. (5.3, 7)
- Prolonged use of morphine sulfate extended-release capsules during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated. If prolonged opioid use is required in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available. (5.4)
- 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. (5.5)

----- RECENT MAJOR CHANGES -----

Boxed Warning	9/2023
Indications and Usage (1)	5/2023
Dosage and Administration (2.1, 2.3, 2.4)	5/2023
Warnings and Precautions (5.6)	5/2023

----- INDICATIONS AND USAGE -----

Morphine sulfate extended-release capsules is indicated for the management of severe and persistent pain that requires an extended period with a daily opioid analgesic and for which alternative treatment options are inadequate. (1)

Limitations of Use:

- Because of the risks of addiction, abuse, and misuse with opioids, which can occur at any dosage or duration, and because of the greater risks of overdose and death with extended-release/long-acting opioid formulations, reserve morphine sulfate extended-release capsules for use in patients for whom alternative treatment options (e.g., non-opioid analgesics or immediate-release opioids) are ineffective, not tolerated, or would be otherwise inadequate to provide sufficient management of pain. (1)
- Morphine sulfate extended-release capsules are not indicated as an as-needed (prn) analgesic. (1)

----- **DOSAGE AND ADMINISTRATION** -----

- Morphine sulfate extended-release capsules should be prescribed only by healthcare professionals who are knowledgeable about use of extended-release/long-acting opioids and how to mitigate the associated risks. (2.1)
- Morphine sulfate extended-release 100 mg capsules, a single dose greater than 60 mg, or a total daily dose greater than 120 mg, are only for use in patients in whom tolerance to an opioid of comparable potency has been established. (2.1)
- Patients considered opioid-tolerant are those taking, for one week or longer, at least 60 mg of morphine per day, 25 mcg transdermal fentanyl per hour, 30 mg of oral oxycodone per day, 8 mg of oral hydromorphone per day, 25 mg oral oxymorphone per day, 60 mg oral hydrocodone per day, or an equianalgesic dose of another opioid. (2.1)
- Use the lowest effective dosage for the shortest duration of time consistent with individual patient treatment goals. Reserve titration to higher doses of morphine sulfate extended-release capsules 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. (2.1, 5.1)
- 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. (5.1)
- Respiratory depression can occur at any time during opioid therapy, especially when initiating and following dosage increases with morphine sulfate extended-release capsules. Consider this risk when selecting an initial dose and when making dose adjustments. (2.1, 5.2)
- Instruct patients to swallow morphine sulfate extended-release capsules intact, or to sprinkle the capsule contents on applesauce and immediately swallow without chewing. (2.1, 2.6)
- Instruct patients not to cut, break, chew, crush, or dissolve the pellets in morphine sulfate extended-release capsules to avoid the risk of release and absorption of a potentially fatal dose of morphine. (2.1, 2.6, 5.1)
- Discuss availability of naloxone with the patient and caregiver and assess each patient's need for access to naloxone, both when initiating and renewing treatment with morphine sulfate extended-release capsules. Consider prescribing naloxone based on the patient's risk factors for overdose. (2.2, 5.1, 5.2, 5.3)
- For opioid-naïve patients, initiate treatment using an immediate-release morphine formulation and then convert patients to morphine sulfate extended-release. For opioid non-tolerant patients, initiate with a 30 mg capsule orally every 24 hours. Dosage adjustments may be made every one to two days. (2.3, 2.4)
- Do not abruptly discontinue morphine sulfate extended-release capsules in a physically dependent patient because rapid discontinuation of opioid analgesics has resulted in serious withdrawal symptoms, uncontrolled pain, and suicide. (2.5, 5.14)

----- **DOSAGE FORMS AND STRENGTHS** -----

Extended-release capsules: 10 mg, 20 mg, 30 mg, 50 mg, 60 mg, 80 mg, 100 mg (3)

----- **CONTRAINDICATIONS** -----

- Significant respiratory depression (4)
- Acute or severe bronchial asthma in an unmonitored setting or in the absence of resuscitative equipment (4)
- Concurrent use of monoamine oxidase inhibitors (MAOIs) or use of MAOIs within the last 14 days (4)
- Known or suspected gastrointestinal obstruction, including paralytic ileus (4)
- Hypersensitivity to morphine (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Opioid-Induced Hyperalgesia and Allodynia: Opioid-Induced Hyperalgesia (OIH) occurs when an opioid analgesic paradoxically causes an increase in pain, or an increase in sensitivity to pain. If OIH is suspected, carefully consider appropriately decreasing the dose of the current opioid analgesic, or opioid rotation. (5.6)
- Life-Threatening Respiratory Depression in Patients with Chronic Pulmonary Disease or in Elderly, Cachectic, or Debilitated Patients: Regularly evaluate closely, particularly during initiation and titration. (5.7)
- Adrenal Insufficiency: If diagnosed, treat with physiologic replacement of corticosteroids, and wean patient off the opioid. (5.9)
- Severe Hypotension: Regularly evaluate during dosage initiation and titration. Avoid use of morphine sulfate extended-release capsules in patients with circulatory shock. (5.10)
- Risks of Use in Patients with Increased Intracranial Pressure, Brain Tumors, Head Injury, or Impaired

Consciousness: Monitor for sedation and respiratory depression. Avoid use of morphine sulfate extended-release capsules in patients with impaired consciousness or coma. (5.11)

ADVERSE REACTIONS

Most common adverse reactions (>10%): constipation, nausea, and somnolence. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Upsher-Smith Laboratories, LLC at 1-855-899-9180 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Serotonergic Drugs: Concomitant use may result in serotonin syndrome. Discontinue morphine sulfate extended-release capsules if serotonin syndrome is suspected. (7)
- Monoamine Oxidase Inhibitors (MAOIs): Can potentiate effects of morphine. Avoid concomitant use in patients taking MAOIs or within 14 days of stopping treatment with an MAOI. (7)
- Mixed Agonist/Antagonist and Partial Agonist Opioid Analgesics: Avoid use with morphine sulfate extended-release capsules because they may reduce analgesic effect of morphine sulfate extended-release capsules or precipitate withdrawal symptoms. (5.13, 7)

USE IN SPECIFIC POPULATIONS

- Pregnancy: May cause fetal harm. (8.1)
- Lactation: Not recommended. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF MORPHINE SULFATE EXTENDED-RELEASE CAPSULES

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage and Administration Instructions

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

2.3 Initial Dosage

2.4 Titration and Maintenance of Therapy

2.5 Safe Reduction or Discontinuation of Morphine Sulfate Extended-Release Capsules

2.6 Administration of Morphine Sulfate Extended-Release Capsules

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Addiction, Abuse, and Misuse

5.2 Life-Threatening Respiratory Depression

5.3 Risks from Concomitant Use with Benzodiazepines or Other CNS Depressants

5.4 Neonatal Opioid Withdrawal Syndrome

5.5 Risk Evaluation and Mitigation Strategy (REMS)

5.6 Opioid-Induced Hyperalgesia and Allodynia

5.7 Life-Threatening Respiratory Depression in Patients with Chronic Pulmonary Disease or in Elderly, Cachectic, or Debilitated Patients

5.8 Interaction with Monoamine Oxidase Inhibitors

5.9 Adrenal Insufficiency

5.10 Severe Hypotension

- 5.11 Risks of Use in Patients with Increased Intracranial Pressure, Brain Tumors, Head Injury, or Impaired Consciousness
- 5.12 Risks of Use in Patients with Gastrointestinal Conditions
- 5.13 Increased Risk of Seizures in Patients with Seizure Disorders
- 5.14 Withdrawal
- 5.15 Risks of Driving and Operating Machinery

6 ADVERSE REACTIONS

- 6.1 Clinical Trial Experience
- 6.2 Post-Marketing Experience

7 DRUG INTERACTIONS

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.3 Females and Males of Reproductive Potential
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Hepatic Impairment
- 8.7 Renal Impairment

9 DRUG ABUSE AND DEPENDENCE

- 9.1 Controlled Substance
- 9.2 Abuse
- 9.3 Dependence

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

WARNING: SERIOUS AND LIFE-THREATENING RISKS FROM USE OF MORPHINE SULFATE EXTENDED-RELEASE CAPSULES

Addiction, Abuse, and Misuse

Because the use of morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules, especially during initiation or following a dosage increase. Instruct patients to swallow morphine sulfate extended-release capsules whole or to sprinkle the contents of the capsule on applesauce and swallow immediately without chewing. Crushing, chewing, or dissolving the pellets in morphine sulfate extended-release capsules can cause rapid release and absorption of a potentially fatal dose of morphine. To reduce the risk of respiratory depression, proper dosing and titration of morphine sulfate extended-release capsules are essential [*see Warnings and Precautions (5.2)*].

Accidental Ingestion

Accidental ingestion of even one dose of morphine sulfate extended-release capsules, especially by children, can result in a fatal overdose of morphine [*see Warnings and Precautions (5.2)*].

Interaction with Alcohol

Instruct patients not to consume alcoholic beverages or use prescription or non-prescription products that contain alcohol while taking morphine sulfate extended-release capsules. The co-ingestion of alcohol with morphine sulfate extended-release capsules may result in increased plasma levels and a potentially fatal overdose of morphine [*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 morphine sulfate extended-release capsules and 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)*].

Neonatal Opioid Withdrawal Syndrome (NOWS)

If opioid use is required for an extended period of time in a pregnant woman, advise the patient of the risk of NOWS, which may be life-

threatening if not recognized and treated. Ensure that management by neonatology experts will be available at delivery [see Warnings and Precautions (5.4)].

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 (5.5)].

1 INDICATIONS AND USAGE

Morphine sulfate extended-release capsules are indicated for the management of severe and persistent pain that requires an extended treatment period with a daily opioid analgesic and for which alternative treatment options are inadequate.

Limitations of Use:

- Because of the risks of addiction, abuse, and misuse with opioids, which can occur at any dosage or duration, and because of the greater risks of overdose and death with extended-release opioid formulations [see Warnings and Precautions (5.1)], reserve morphine sulfate extended-release capsules for use in patients for whom alternative treatment options (e.g., non-opioid analgesics or immediate-release opioids) are ineffective, not tolerated, or would be otherwise inadequate to provide sufficient management of pain.
- Morphine sulfate extended-release capsules are not indicated as an as-needed (prn) analgesic.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage and Administration Instructions

Morphine sulfate extended-release capsules 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.

Morphine sulfate extended-release 100 mg capsules, a single dose greater than 60 mg, or a total daily dose greater than 120 mg, are only for use in patients in whom tolerance to an opioid of comparable potency has been established. Patients considered opioid-tolerant are those taking, for one week or longer, at least 60 mg oral morphine per day, 25 mcg transdermal fentanyl per hour, 30 mg oral oxycodone per day, 8 mg oral hydromorphone daily, 25 mg oral oxymorphone per day, 60 mg oral hydrocodone per day, or an equianalgesic dose of another opioid.

- Use the lowest effective dosage for the shortest duration of time consistent with individual patient treatment goals [see Warnings and Precautions (5)]. Because the risk of overdose increases as opioid doses increase, reserve titration to higher doses of morphine sulfate extended-release capsules 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.
- 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 and Precautions (5.1)*].

Respiratory depression can occur at any time during opioid therapy, especially when initiating and following dosage increases with morphine sulfate extended-release capsules. Consider this risk when selecting an initial dose and when making dose adjustments [see *Warnings and Precautions (5)*].

Instruct patients to swallow morphine sulfate extended-release capsules whole [see *Patient Counseling Information (17)*]. Crushing, chewing, or dissolving the pellets in morphine sulfate extended-release capsules will result in uncontrolled delivery of morphine and can lead to overdose or death [see *Warnings and Precautions (5.1)*].

Instruct patients who are unable to swallow morphine sulfate extended-release capsules to sprinkle the capsule contents on applesauce and immediately swallow without chewing [see *Dosage and Administration (2.6)*].

Morphine sulfate extended-release capsules are administered orally at a frequency of either once daily (every 24 hours) or twice daily (every 12 hours).

2.2 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 morphine sulfate extended-release capsules [see *Warnings and Precautions (5.2)*, *Patient Counseling Information (17)*].

Inform patients and caregivers about the various ways to obtain naloxone as permitted by individual state naloxone dispensing and prescribing requirements or guidelines (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 and Precautions (5.1, 5.2, 5.3)*].

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

2.3 Initial Dosage

Use of Morphine Sulfate Extended-Release Capsules as the First Opioid Analgesic (opioid-naïve patients)

There has been no evaluation of morphine sulfate extended-release capsules as an initial opioid analgesic in the management of pain. Because it may be more difficult to titrate a patient to adequate analgesia using an extended-release morphine, begin treatment using an immediate-release morphine formulation and then convert patients to morphine sulfate extended-release capsules as described below.

Use of Morphine Sulfate Extended-Release Capsules in Patients who are not Opioid Tolerant (opioid non-tolerant patients)

The starting dose for patients who are not opioid tolerant is morphine sulfate extended-release capsules 30 mg orally every 24 hours.

Use of higher starting doses in patients who are not opioid tolerant may cause fatal respiratory depression.

Conversion from Other Opioids to Morphine Sulfate Extended-Release Capsules

When morphine sulfate extended-release capsules therapy is initiated, discontinue all other opioid analgesics other than those used on an as needed basis for breakthrough pain when appropriate.

There are no established conversion ratios from other opioids to morphine sulfate extended-release capsules defined by clinical trials. Initiate dosing using morphine sulfate extended-release capsules 30 mg orally every 24 hours.

It is safer to underestimate a patient's 24-hour oral morphine dosage and provide rescue medication (e.g. immediate-release morphine) than to overestimate the 24-hour oral morphine dosage and manage an adverse reaction due to an overdose. While useful tables of opioid equivalents are readily available, there is inter-patient variability in the potency of opioid drugs and formulations.

Close observation and frequent titration are warranted until pain management is stable on the new opioid. Monitor patients for signs and symptoms of opioid withdrawal and for signs of over sedation/toxicity after converting patients to morphine sulfate extended-release capsules.

Conversion from Other Oral Morphine Formulations to Morphine Sulfate Extended-Release Capsules

Patients receiving other oral morphine formulations may be converted to morphine sulfate extended-release capsules by administering one-half of the patient's total daily oral morphine dose as morphine sulfate extended-release capsules twice daily or by administering the total daily oral morphine dose as morphine sulfate extended-release capsules once daily. There is no data to support the efficacy or safety of prescribing morphine sulfate extended-release capsules more frequently than every 12 hours.

Morphine sulfate extended-release capsules are not bioequivalent to other extended-release morphine preparations. Conversion from the same total daily dose of another extended-release morphine product to morphine sulfate extended-release capsules may lead to either excessive sedation at peak or inadequate analgesia at trough. Therefore, monitor patients closely when initiating morphine sulfate extended-release capsules therapy and adjust the dosage of morphine sulfate extended-release capsules as needed.

Conversion from Parenteral Morphine, or Other Opioids to Morphine Sulfate Extended-Release Capsules

When converting from parenteral morphine or other non-morphine opioids (parenteral or oral) to morphine sulfate extended-release capsules, consider the following general points:

Parenteral to Oral Morphine Ratio

Between 2 mg and 6 mg of oral morphine may be required to provide analgesia equivalent to 1 mg of parenteral morphine. Typically, a dose of oral morphine that is

three times the daily parenteral morphine requirement is sufficient.

Other Oral or Parenteral Opioids to Oral Morphine Ratios

Specific recommendations are not available because of a lack of systematic evidence for these types of analgesic substitutions. Published relative potency data are available, but such ratios are approximations. In general, begin with half of the estimated daily morphine requirement as the initial dose, managing inadequate analgesia by supplementation with immediate-release morphine.

Conversion from Methadone to Morphine Sulfate Extended-Release Capsules

Close monitoring is of particular importance when converting from methadone to other opioid agonists. The ratio between methadone and other opioid agonists may vary widely as a function of previous dose exposure. Methadone has a long half-life and can accumulate in the plasma.

2.4 Titration and Maintenance of Therapy

Individually titrate morphine sulfate extended-release capsules to a dose that provides adequate analgesia and minimizes adverse reactions. Continually reevaluate patients receiving morphine sulfate extended-release capsules to assess the maintenance of pain control, signs and symptoms of opioid withdrawal, and other adverse reactions, as well as reassess for the development of addiction, abuse, or misuse [see *Warnings and Precautions (5.1, 5.14)*]. 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. During use of opioid therapy, for an extended period of time, periodically reassess the continued need for the use of opioid analgesics.

Patients who experience breakthrough pain may require a dosage adjustment of morphine sulfate extended-release capsules or may need rescue medication with an appropriate dose of an immediate-release analgesic. If the level of pain increases after dose stabilization, attempt to identify the source of increased pain before increasing the morphine sulfate extended-release capsules dosage. In patients experiencing inadequate analgesia with once daily dosing of morphine sulfate extended-release capsules, consider a twice daily regimen. Because steady-state plasma concentrations are approximated within 24 hours to 36 hours, morphine sulfate extended-release capsules dosage adjustments may be done every 1 to 2 days.

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 and Precautions (5)*]. Adjust the dosage to obtain an appropriate balance between management of pain and opioid-related adverse reactions.

2.5 Safe Reduction or Discontinuation of Morphine Sulfate Extended-Release Capsules

Do not abruptly discontinue morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules, there are a variety of factors that should be considered, including the total daily dose of opioid (including morphine sulfate extended-release capsules) 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 morphine sulfate extended-release capsules 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 and Precautions (5.14)*, *Drug Abuse and Dependence (9.3)*].

2.6 Administration of Morphine Sulfate Extended-Release Capsules

Morphine sulfate extended-release capsules must be taken whole. Crushing, chewing, or dissolving the pellets in morphine sulfate extended-release capsules will result in uncontrolled delivery of morphine and can lead to overdose or death [see *Warnings and Precautions (5.1)*].

Alternatively, the contents of the morphine sulfate extended-release capsules (pellets) may be sprinkled over applesauce and then swallowed. This method is appropriate only

for patients able to reliably swallow the applesauce without chewing. Other foods have not been tested and should not be substituted for applesauce. Instruct the patient to:

- Sprinkle the pellets onto a small amount of applesauce and consume immediately without chewing.
- Rinse the mouth to ensure all pellets have been swallowed.
- Discard any unused portion of the morphine sulfate extended-release capsules after the contents have been sprinkled on applesauce.

The contents of the morphine sulfate extended-release capsules (pellets) may be administered through a French gastrostomy tube.

1. Flush the gastrostomy tube with water to ensure that it is wet.
2. Sprinkle the morphine sulfate extended-release pellets into 10 mL of water.
3. Use a swirling motion to pour the pellets and water into the gastrostomy tube through a funnel.
4. Rinse the beaker with a further 10 mL of water and pour this into the funnel.
5. Repeat rinsing until no pellets remain in the beaker.

Do not administer morphine sulfate extended-release pellets through a nasogastric tube.

3 DOSAGE FORMS AND STRENGTHS

Morphine sulfate extended-release capsules contain white to off-white or tan colored polymer coated pellets, have an outer opaque capsule with colors as identified below and are available in seven dose strengths:

10 mg, size 4, light blue, opaque capsule printed with "UPSHER-SMITH" over "0225" and "10 mg" in black ink.

20 mg, size 4, yellow, opaque capsule printed with "UPSHER-SMITH" over "0226" and "20 mg" in black ink.

30 mg, size 2, blue violet, opaque capsule printed with "UPSHER-SMITH" over "0227" and "30 mg" in black ink.

50 mg, size 2, blue, opaque capsule printed with "UPSHER-SMITH" over "0228" and "50 mg" in black ink.

60 mg, size 1, pink, opaque capsule printed with "UPSHER-SMITH" over "0229" and "60 mg" in black ink.

80 mg, size 1, light orange, opaque capsule printed with "UPSHER-SMITH" over "0230" and "80 mg" in black ink.

100 mg, size 0, green, opaque capsule printed with "UPSHER-SMITH" over "0233" and "100 mg" in black ink.

4 CONTRAINDICATIONS

Morphine sulfate extended-release capsules are contraindicated in patients with:

- Significant respiratory depression [*see Warnings and Precautions (5.2)*]
- Acute or severe bronchial asthma in an unmonitored setting or in the absence of resuscitative equipment [*see Warnings and Precautions (5.7)*]

- Concurrent use of monoamine oxidase inhibitors (MAOIs) or use of MAOIs within the last 14 days [*see Warnings and Precautions (5.8), Drug Interactions (7)*]
- Known or suspected gastrointestinal obstruction, including paralytic ileus [*see Warnings and Precautions (5.12)*]
- Hypersensitivity (e.g., anaphylaxis) to morphine [*see Adverse Reactions (6.2)*]

5 WARNINGS AND PRECAUTIONS

5.1 Addiction, Abuse, and Misuse

Morphine sulfate extended-release capsules contain morphine, a Schedule II controlled substance. As an opioid, morphine sulfate extended-release capsules expose users to the risks of addiction, abuse, and misuse. Because extended-release products such as morphine sulfate extended-release capsules deliver the opioid over an extended period of time, there is a greater risk for overdose and death due to the larger amount of morphine present [*see Drug Abuse and Dependence (9)*].

Although the risk of addiction in any individual is unknown, it can occur in patients appropriately prescribed morphine sulfate extended-release capsules. Addiction can occur at recommended doses and if the drug is misused or abused.

Assess each patient's risk for opioid addiction, abuse, or misuse prior to prescribing morphine sulfate extended-release capsules, and reassess all patients receiving morphine sulfate extended-release capsules for the development of these behaviors and conditions. Risks are increased in patients with a personal or family history of substance abuse (including drug or alcohol abuse or addiction) or mental illness (e.g., major depression). The potential for these risks should not, however, prevent the proper management of pain in any given patient. Patients at increased risk may be prescribed opioids such as morphine sulfate extended-release capsules, but use in such patients necessitates intensive counseling about the risks and proper use of morphine sulfate extended-release capsules along with frequent reevaluation for signs of addiction, abuse, and misuse. Consider prescribing naloxone for the emergency treatment of opioid overdose [*see Dosage and Administration (2.2), Warnings and Precautions (5.2)*].

Abuse or misuse of morphine sulfate extended-release capsules by crushing, chewing, snorting, or injecting the dissolved product will result in the uncontrolled delivery of morphine and can result in overdose and death [*see Overdosage (10)*].

Opioids are sought for nonmedical use and are subject to diversion from legitimate prescribed use. Consider these risks when prescribing or dispensing morphine sulfate extended-release capsules. Strategies to reduce these risks include prescribing the drug in the smallest appropriate quantity and advising the patient on careful storage of the drug during the course of treatment and proper disposal of unused drug. Contact local state professional licensing board or state-controlled substances authority for information on how to prevent and detect abuse or diversion of this product.

5.2 Life-Threatening Respiratory Depression

Serious, life-threatening, or fatal respiratory depression has been reported with the use of opioids, even when used as recommended. Respiratory depression, if not immediately recognized and treated, may lead to respiratory arrest and death. Management of respiratory depression may include close observation, supportive measures, and use of

opioid antagonists, depending on the patient's clinical status [see *Overdosage (10)*]. Carbon dioxide (CO₂) retention from opioid-induced respiratory depression can exacerbate the sedating effects of opioids. While serious, life-threatening, or fatal respiratory depression can occur at any time during the use of morphine sulfate, the risk is greatest during the initiation of therapy or following a dosage increase.

To reduce the risk of respiratory depression, proper dosing and titration of morphine sulfate extended-release capsules are essential [see *Dosage and Administration (2)*]. Overestimating the morphine sulfate dosage when converting patients from another opioid product can result in fatal overdose with the first dose.

Accidental ingestion of even one dose of morphine sulfate, especially by children, can result in respiratory depression and death due to an overdose of morphine.

Educate patients and caregivers on how to recognize respiratory depression and emphasize the importance of calling 911 or getting emergency medical help right away in the event of a known or suspected overdose [see *Patient Counseling Information (17)*].

Opioids can cause sleep-related breathing disorders including central sleep apnea (CSA) and sleep-related hypoxemia. Opioid use increases the risk of CSA in a dose-dependent fashion. In patients who present with CSA, consider decreasing the opioid dosage using best practices for opioid taper [see *Dosage and Administration (2.5)*].

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 morphine sulfate extended-release capsules. Inform patients and caregivers about the various ways to obtain naloxone as permitted by individual state naloxone dispensing and prescribing requirements or guidelines (e.g., by prescription, directly from a pharmacist, or as part of a community-based program). Educate patients and caregivers on how to recognize respiratory depression and emphasize the importance of calling 911 or getting emergency medical help, even if naloxone is administered [see *Patient Counseling Information (17)*].

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. Also consider prescribing naloxone if the patient has household members (including children) or other close contacts at risk for accidental ingestion or overdose. If naloxone is prescribed, educate patients and caregivers on how to treat with naloxone [see *Dosage and Administration (2.2)*, *Warnings and Precautions (5.1, 5.3)*, *Overdosage (10)*].

5.3 Risks from Concomitant Use with Benzodiazepines or Other CNS Depressants

Profound sedation, respiratory depression, coma, and death may result from the concomitant use of morphine sulfate with benzodiazepines and/or other CNS depressants, including alcohol (e.g., non-benzodiazepine sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychotics, other opioids). Because of these risks, reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are inadequate. Observational studies have demonstrated that concomitant use of opioid analgesics and

benzodiazepines increases the risk of drug-related mortality compared to use of opioid analgesics alone. Because of similar pharmacological properties, it is reasonable to expect similar risk with the concomitant use of other CNS depressant drugs with opioid analgesics [see *Drug Interactions (7)*].

If the decision is made to prescribe a benzodiazepine or other CNS depressant concomitantly with an opioid analgesic, prescribe the lowest effective dosages and minimum durations of concomitant use. In patients already receiving an opioid analgesic, prescribe a lower initial dose of the benzodiazepine or other CNS depressant than indicated in the absence of an opioid, and titrate based on clinical response. If an opioid analgesic is initiated in a patient already taking a benzodiazepine or other CNS depressant, prescribe a lower initial dose of the opioid analgesic, and titrate based on clinical response. 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 *Dosage and Administration (2.2)*, *Warnings and Precautions (5.3)*].

Advise both patients and caregivers about the risks of respiratory depression and sedation when morphine sulfate extended-release capsules are used with benzodiazepines or other CNS depressants (including alcohol and illicit drugs). Advise patients not to drive or operate heavy machinery until the effects of concomitant use of the benzodiazepine or other CNS depressant have been determined. Screen patients for risk of substance use disorders, including opioid abuse and misuse, and warn them of the risk for overdose and death associated with the use of additional CNS depressants including alcohol and illicit drugs [see *Drug Interactions (7)*, *Patient Counseling Information (17)*].

Patients must not consume alcoholic beverages or prescription or non-prescription products containing alcohol while on morphine sulfate extended-release capsule therapy. The co-ingestion of alcohol with morphine sulfate extended-release capsules may result in increased plasma levels and a potentially fatal overdose of morphine.

5.4 Neonatal Opioid Withdrawal Syndrome

Use of morphine sulfate extended-release capsules for an extended period of time during pregnancy can result in withdrawal in the neonate. Neonatal opioid withdrawal syndrome, unlike opioid withdrawal syndrome in adults, may be life-threatening if not recognized and treated, and requires management according to protocols developed by neonatology experts. Observe newborns for signs of neonatal opioid withdrawal syndrome and manage accordingly. Advise pregnant women using opioids for an extended period of time of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available [see *Use in Specific Populations (8.1)*, *Patient Counseling Information (17)*].

5.5 Risk Evaluation and Mitigation Strategy (REMS)

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. Under the requirements of the REMS, drug companies with approved opioid analgesic products must make REMS-compliant education programs available to healthcare providers. Healthcare providers are strongly

encouraged to do all of the following:

- Complete a REMS-compliant education program offered by an accredited provider of continuing education (CE) or another education program that includes all the elements of the FDA Education Blueprint for Healthcare Providers Involved in the Management or Support of Patients with Pain.
- Discuss the safe use, serious risks, and proper storage and disposal of opioid analgesics with patients and/or their caregivers every time these medicines are prescribed. The Patient Counseling Guide (PCG) can be obtained at this link: www.fda.gov/OpioidAnalgesicREMSPCG.
- Emphasize to patients and their caregivers the importance of reading the Medication Guide that they will receive from their pharmacist every time an opioid analgesic is dispensed to them.
- Consider using other tools to improve patient, household, and community safety, such as patient-prescriber agreements that reinforce patient-prescriber responsibilities.

To obtain further information on the opioid analgesic REMS and for a list of accredited REMS CME/CE, call 1-800-503-0784, or log on to www.opioidanalgesicrems.com. The FDA Blueprint can be found at www.fda.gov/OpioidAnalgesicREMSBlueprint.

5.6 Opioid-Induced Hyperalgesia and Allodynia

Opioid-Induced Hyperalgesia (OIH) occurs when an opioid analgesic paradoxically causes an increase in pain, or an increase in sensitivity to pain. This condition differs from tolerance, which is the need for increasing doses of opioids to maintain a defined effect [see *Dependence (9.3)*]. Symptoms of OIH include (but may not be limited to) increased levels of pain upon opioid dosage increase, decreased levels of pain upon opioid dosage decrease, or pain from ordinarily non-painful stimuli (allodynia). These symptoms may suggest OIH only if there is no evidence of underlying disease progression, opioid tolerance, opioid withdrawal, or addictive behavior.

Cases of OIH have been reported, both with short-term and longer-term use of opioid analgesics. Though the mechanism of OIH is not fully understood, multiple biochemical pathways have been implicated. Medical literature suggests a strong biologic plausibility between opioid analgesics and OIH and allodynia. If a patient is suspected to be experiencing OIH, carefully consider appropriately decreasing the dose of the current opioid analgesic, or opioid rotation (safely switching the patient to a different opioid moiety) [see *Dosage and Administration (2.5)*; *Warnings and Precautions (5.14)*].

5.7 Life-Threatening Respiratory Depression in Patients with Chronic Pulmonary Disease or in Elderly, Cachectic, or Debilitated Patients

The use of morphine sulfate extended-release capsules in patients with acute or severe bronchial asthma in an unmonitored setting or in the absence of resuscitative equipment is contraindicated.

Patients with Chronic Pulmonary Disease: Morphine sulfate extended-release capsules-treated patients with significant chronic obstructive pulmonary disease or cor pulmonale, and those with a substantially decreased respiratory reserve, hypoxia, hypercapnia, or pre-existing respiratory depression are at increased risk of decreased respiratory drive including apnea, even at recommended dosages of morphine sulfate extended-release capsules [see *Warnings and Precautions (5.2)*].

Elderly, Cachectic, or Debilitated Patients: Life-threatening respiratory depression is more likely to occur in elderly, cachectic, or debilitated patients as they may have altered pharmacokinetics or altered clearance compared to younger, healthier patients [see *Warnings and Precautions (5.2)*].

Regularly evaluate patients, particularly when initiating and titrating morphine sulfate extended-release capsules and when morphine sulfate extended-release capsules are given concomitantly with other drugs that depress respiration [see *Warnings and Precautions (5.2)*, *Drug Interactions (7)*]. Alternatively, consider the use of non-opioid analgesics in these patients.

5.8 Interaction with Monoamine Oxidase Inhibitors

Monoamine oxidase inhibitors (MAOIs) may potentiate the effects of morphine, including respiratory depression, coma, and confusion. Morphine sulfate extended-release capsules should not be used in patients taking MAOIs or within 14 days of stopping such treatment.

5.9 Adrenal Insufficiency

Cases of adrenal insufficiency have been reported with opioid use, more often following greater than one month of use. Presentation of adrenal insufficiency may include non-specific symptoms and signs including nausea, vomiting, anorexia, fatigue, weakness, dizziness, and low blood pressure. If adrenal insufficiency is suspected, confirm the diagnosis with diagnostic testing as soon as possible. If adrenal insufficiency is diagnosed, treat with physiologic replacement doses of corticosteroids. Wean the patient off of the opioid to allow adrenal function to recover and continue corticosteroid treatment until adrenal function recovers. Other opioids may be tried as some cases reported use of a different opioid without recurrence of adrenal insufficiency. The information available does not identify any particular opioids as being more likely to be associated with adrenal insufficiency.

5.10 Severe Hypotension

Morphine sulfate extended-release capsules may cause severe hypotension including orthostatic hypotension and syncope in ambulatory patients. There is increased risk in patients whose ability to maintain blood pressure has already been compromised by a reduced blood volume or concurrent administration of certain CNS depressant drugs (e.g., phenothiazines or general anesthetics) [see *Drug Interactions (7)*]. Regularly evaluate these patients for signs of hypotension after initiating or titrating the dosage of morphine sulfate extended-release capsules. In patients with circulatory shock, morphine sulfate extended-release capsules may cause vasodilation that can further reduce cardiac output and blood pressure. Avoid the use of morphine sulfate extended-release capsules in patients with circulatory shock.

5.11 Risks of Use in Patients with Increased Intracranial Pressure, Brain Tumors, Head Injury, or Impaired Consciousness

In patients who may be susceptible to the intracranial effects of CO₂ retention (e.g., those with evidence of increased intracranial pressure or brain tumors), morphine sulfate extended-release capsules may reduce respiratory drive, and the resultant CO₂ retention can further increase intracranial pressure. Monitor such patients for signs of

sedation and respiratory depression, particularly when initiating therapy with morphine sulfate extended-release capsules.

Opioids may also obscure the clinical course in a patient with a head injury. Avoid the use of morphine sulfate extended-release capsules in patients with impaired consciousness or coma.

5.12 Risks of Use in Patients with Gastrointestinal Conditions

Morphine sulfate extended-release capsules are contraindicated in patients with known or suspected gastrointestinal obstruction, including paralytic ileus.

The morphine in morphine sulfate extended-release capsules may cause spasm of the sphincter of Oddi. Opioids may cause increases in the serum amylase. Regularly evaluate patients with biliary tract disease, including acute pancreatitis, for worsening symptoms.

5.13 Increased Risk of Seizures in Patients with Seizure Disorders

The morphine in morphine sulfate extended-release capsules may increase the frequency of seizures in patients with seizure disorders, and may increase the risk of seizures occurring in other clinical settings associated with seizures. Regularly evaluate patients with a history of seizure disorders for worsened seizure control during morphine sulfate extended-release capsules therapy.

5.14 Withdrawal

Do not abruptly discontinue morphine sulfate extended-release capsules in a patient physically dependent on opioids. When discontinuing morphine sulfate extended-release capsules in a physically dependent patient, gradually taper the dosage. Rapid tapering of morphine in a patient physically dependent on opioids may lead to a withdrawal syndrome and return of pain [*see Dosage and Administration (2.5), Drug Abuse and Dependence (9.3)*].

Additionally, avoid the use of mixed agonist/antagonist analgesics (e.g., pentazocine, nalbuphine, and butorphanol) or partial agonist (e.g., buprenorphine) analgesics in patients who are receiving a full opioid agonist analgesic, including morphine sulfate extended-release capsules. In these patients, mixed agonists/antagonists and partial agonist analgesics may reduce the analgesic effect and/or may precipitate withdrawal symptoms [*see Drug Interactions (7)*].

5.15 Risks of Driving and Operating Machinery

Morphine sulfate extended-release capsules may impair the mental or physical abilities needed to perform potentially hazardous activities such as driving a car or operating machinery. Warn patients not to drive or operate dangerous machinery unless they are tolerant to the effects of morphine sulfate extended-release capsules and know how they will react to the medication [*see Patient Counseling Information (17)*].

6 ADVERSE REACTIONS

The following serious adverse reactions are described, or described in greater detail, in other sections:

- Addiction, Abuse, and Misuse [see Warnings and Precautions (5.1)]
- Life-Threatening Respiratory Depression [see Warnings and Precautions (5.2)]
- Neonatal Opioid Withdrawal Syndrome [see Warnings and Precautions (5.4)]
- Risks from Concomitant Use with Benzodiazepine or Other CNS Depressants [see Warnings and Precautions (5.3)]
- Opioid-Induced Hyperalgesia and Allodynia [see Warnings and Precautions (5.6)]
- Adrenal Insufficiency [see Warnings and Precautions (5.9)]
- Severe Hypotension [see Warnings and Precautions (5.10)]
- Risks of Use in Patients with Gastrointestinal Conditions [see Warnings and Precautions (5.12)]
- Increased Risk of Seizures in Patients with Seizure Disorders [see Warnings and Precautions (5.13)]
- Withdrawal [see Warnings and Precautions (5.14)]

6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In the randomized study, the most common adverse reactions with morphine sulfate therapy were drowsiness, constipation, nausea, dizziness, and anxiety. The most common adverse reactions leading to study discontinuation were nausea, constipation (may be severe), vomiting, fatigue, dizziness, pruritus, and somnolence.

Clinical trial patients with chronic cancer pain (n=227) (AE by Body System as seen in 2% or more of patients)	Percentage %
CENTRAL NERVOUS SYSTEM	28
Drowsiness	9
Dizziness	6
Anxiety	5
Confusion	4
Dry mouth	3
Tremor	2
GASTROINTESTINAL	26
Constipation	9
Nausea	7
Diarrhea	3
Anorexia	3
Abdominal pain	3
Vomiting	2
BODY AS A WHOLE	16
Pain	3
Disease progression	3
Chest pain	2
Diaphoresis	2

Fever	2
Asthenia	2
Accidental injury	2
RESPIRATORY	3
Dyspnea	3
SKIN & APPENDAGES	3
Rash	3
METABOLIC & NUTRITIONAL	3
Peripheral edema	3
HEMIC & LYMPHATIC	4
Anemia	2
Leukopenia	2

In clinical trials in patients with chronic cancer pain, the most common adverse events reported by patients at least once during therapy were drowsiness (9%), constipation (9%), nausea (7%), dizziness (6%), and anxiety (6%). Other less common side effects expected from morphine sulfate extended-release capsules or seen in less than 2% of patients in the clinical trials were:

- Body as a Whole: Headache, chills, flu syndrome, back pain, malaise, withdrawal syndrome
- Cardiovascular: Tachycardia, atrial fibrillation, hypotension, hypertension, pallor, facial flushing, palpitations, bradycardia, syncope
- Central Nervous System: Confusion, anxiety, abnormal thinking, abnormal dreams, lethargy, depression, loss of concentration, insomnia, amnesia, paresthesia, agitation, vertigo, foot drop, ataxia, hypesthesia, slurred speech, hallucinations, vasodilation, euphoria, apathy, seizures, myoclonus
- Endocrine: Hyponatremia due to inappropriate ADH secretion, gynecomastia
- Gastrointestinal: Dysphagia, dyspepsia, stomach atony disorder, gastro-esophageal reflux, delayed gastric emptying, biliary colic
- Hemic and Lymphatic: Thrombocytopenia
- Metabolic and Nutritional: Hyponatremia, edema
- Musculoskeletal: Back pain, bone pain, arthralgia
- Respiratory: Hiccup, rhinitis, atelectasis, asthma, hypoxia, respiratory insufficiency, voice alteration, depressed cough reflex, non-cardiogenic pulmonary edema
- Skin and Appendages: Decubitus ulcer, pruritus, skin flush
- Special Senses: Amblyopia, conjunctivitis, miosis, blurred vision, nystagmus, diplopia
- Urogenital: Urinary abnormality, amenorrhea, urinary retention, urinary hesitancy, reduced libido, reduced potency, prolonged labor

Four-Week Open-Label Safety Study

In the open-label, 4-week safety study, 1,418 patients ages 18 to 85 with chronic, non-malignant pain (e.g., back pain, osteoarthritis, neuropathic pain) were enrolled. The most common adverse events reported at least once during therapy were constipation (12%), nausea (9%), and somnolence (3%). Other less common side effects occurring in less than 3% of patients were vomiting, pruritus, dizziness, sedation, dry mouth, headache, fatigue, and rash.

6.2 Post-Marketing Experience

The following adverse reactions have been identified during post approval use of morphine. 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 morphine sulfate extended-release capsules.

Androgen deficiency: Cases of androgen deficiency have occurred with use of opioids for an extended period of time.

Hyperalgesia and Allodynia: Cases of hyperalgesia and allodynia have been reported with opioid therapy of any duration [see *Warnings and Precautions (5.6)*].

Hypoglycemia: Cases of hypoglycemia have been reported in patients taking opioids. Most reports were in patients with at least one predisposing risk factor (e.g., diabetes).

7 DRUG INTERACTIONS

Table 1 includes clinically significant drug interactions with morphine sulfate extended-release capsules.

Table 1: Clinically Significant Drug Interactions with Morphine Sulfate

Alcohol	
<i>Clinical Impact:</i>	Concomitant use of alcohol with morphine sulfate extended-release capsules can result in an increase of morphine plasma levels and potentially fatal overdose of morphine.
<i>Intervention:</i>	Instruct patients not to consume alcoholic beverages or use prescription or non-prescription products containing alcohol while on morphine sulfate extended-release capsules therapy [see <i>Warnings and Precautions (5.3)</i>].
Benzodiazepines and Other Central Nervous System (CNS) Depressants	
<i>Clinical Impact:</i>	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.
	Reserve concomitant prescribing of these drugs for

<i>Intervention:</i>	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 <i>Dosage and Administration (2.2), Warnings and Precautions (5.1, 5.2, 5.3)</i>].
<i>Examples:</i>	Benzodiazepines and other sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychotics, other opioids, alcohol.
Serotonergic Drugs	
<i>Clinical Impact:</i>	The concomitant use of opioids with other drugs that affect the serotonergic neurotransmitter system has resulted in serotonin syndrome.
<i>Intervention:</i>	If concomitant use is warranted, frequently evaluate the patient, particularly during treatment initiation and dose adjustment. Discontinue morphine sulfate extended-release capsules if serotonin syndrome is suspected.
<i>Examples:</i>	Selective serotonin reuptake inhibitors (SSRIs), serotonin and norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), triptans, 5-HT ₃ receptor antagonists, drugs that effect the serotonin neurotransmitter system (e.g., mirtazapine, trazodone, tramadol), certain muscle relaxants (i.e., cyclobenzaprine, metaxalone), monoamine oxidase (MAO) inhibitors (those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).
Monoamine Oxidase Inhibitors (MAOIs)	
<i>Clinical Impact:</i>	MAOI interactions with opioids may manifest as serotonin syndrome or opioid toxicity (e.g., respiratory depression, coma) [see <i>Warnings and Precautions (5.8)</i>].
<i>Intervention:</i>	Do not use morphine sulfate extended-release capsules in patients taking MAOIs or within 14 days of stopping such treatment.
<i>Examples:</i>	phenelzine, tranylcypromine, linezolid
Mixed Agonist/Antagonist and Partial Agonist Opioid Analgesics	
<i>Clinical Impact:</i>	May reduce the analgesic effect of morphine sulfate extended-release capsules and/or precipitate withdrawal symptoms.
<i>Intervention:</i>	Avoid concomitant use.
<i>Examples:</i>	butorphanol, nalbuphine, pentazocine,

<i>Examples:</i>	buprenorphine
Muscle Relaxants	
<i>Clinical Impact:</i>	Morphine may enhance the neuromuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression.
<i>Intervention:</i>	Because respiratory depression may be greater than otherwise expected, decrease the dosage of morphine sulfate extended-release capsules 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 <i>Dosage and Administration (2.2), Warnings and Precautions (5.2, 5.3)</i>]
<i>Examples:</i>	cyclobenzaprine, metaxalone
Cimetidine	
<i>Clinical Impact:</i>	The concomitant use of cimetidine can potentiate morphine effects and increase risk of hypotension, respiratory depression, profound sedation, coma, and death.
<i>Intervention:</i>	Evaluate patients for signs of respiratory depression that may be greater than otherwise expected and decrease the dosage of morphine sulfate extended-release capsules and/or cimetidine as necessary.
Diuretics	
<i>Clinical Impact:</i>	Opioids can reduce the efficacy of diuretics by inducing the release of antidiuretic hormone.
<i>Intervention:</i>	Evaluate patients for signs of diminished diuresis and/or effects on blood pressure and increase the dosage of the diuretic as needed.
Anticholinergic Drugs	
<i>Clinical Impact:</i>	The concomitant use of anticholinergic drugs may increase risk of urinary retention and/or severe constipation, which may lead to paralytic ileus.
<i>Intervention:</i>	Evaluate patients for signs of urinary retention or reduced gastric motility when morphine sulfate extended-release capsules are used concomitantly with anticholinergic drugs.
P-Glycoprotein (PGP-Inhibitors)	
<i>Clinical Impact:</i>	The concomitant use of PGP-inhibitors can increase the exposure to morphine by about two-fold and can increase risk of hypotension, respiratory depression, profound sedation, coma, and death.
<i>Intervention:</i>	Evaluate patients for signs of respiratory depression that may be greater than otherwise expected and decrease the dosage of morphine sulfate extended-release capsules and/or the PGP-inhibitor as necessary.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Use of opioid analgesics for an extended period of time during pregnancy can cause neonatal opioid withdrawal syndrome [see *Warnings and Precautions (5.4)*]. There are no available data with morphine sulfate extended-release capsules in pregnant women to inform a drug-associated risk for major birth defects and miscarriage. Published studies with morphine use during pregnancy have not reported a clear association with morphine and major birth defects [see *Human Data*]. In published animal reproduction studies, morphine administered subcutaneously during the early gestational period produced neural tube defects (i.e., exencephaly and cranioschisis) at 5 and 16 times the human daily dose of 60 mg based on body surface area (HDD) in hamsters and mice, respectively, lower fetal body weight and increased incidence of abortion at 0.4 times the HDD in the rabbit, growth retardation at 6 times the HDD in the rat, and axial skeletal fusion and cryptorchidism at 16 times the HDD in the mouse. Administration of morphine sulfate to pregnant rats during organogenesis and through lactation resulted in cyanosis, hypothermia, decreased brain weights, pup mortality, decreased pup body weights, and adverse effects on reproductive tissues at 3 to 4 times the HDD; and long-term neurochemical changes in the brain of offspring which correlate with altered behavioral responses that persist through adulthood at exposures comparable to and less than the HDD [see *Animal 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

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 and Precautions (5.4)*].

Labor or Delivery

Opioids cross the placenta and may produce respiratory depression and psychophysiological effects in neonates. An opioid antagonist, such as naloxone, must be available for reversal of opioid-induced respiratory depression in the neonate. Morphine sulfate extended-release capsules are not recommended for use in pregnant women during or immediately prior to labor, when use of shorter-acting analgesics or other

analgesic techniques are more appropriate. Opioid analgesics, including morphine sulfate extended-release capsules, 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.

Data

Human Data

The results from a population-based prospective cohort, including 70 women exposed to morphine during the first trimester of pregnancy and 448 women exposed to morphine at any time during pregnancy, indicate no increased risk for congenital malformations. However, these studies cannot definitely establish the absence of any risk because of methodological limitations, including small sample size and non-randomized study design.

Animal Data

Formal reproductive and developmental toxicology studies for morphine have not been conducted. Exposure margins for the following published study reports are based on human daily dose of 60 mg morphine using a body surface area comparison (HDD).

Neural tube defects (exencephaly and cranioschisis) were noted following subcutaneous administration of morphine sulfate (35 to 322 mg/kg) on Gestation Day 8 to pregnant hamsters (4.7 to 43.5 times the HDD). A no adverse effect level was not defined in this study and the findings cannot be clearly attributed to maternal toxicity. Neural tube defects (exencephaly), axial skeletal fusions, and cryptorchidism were reported following a single subcutaneous (SC) injection of morphine sulfate to pregnant mice (100 to 500 mg/kg) on Gestation Day 8 or 9 at 200 mg/kg or greater (16 times the HDD) and fetal resorption at 400 mg/kg or higher (32 times the HDD). No adverse effects were noted following 100 mg/kg morphine in this model (8 times the HDD). In one study, following continuous subcutaneous infusion of doses greater than or equal to 2.72 mg/kg to mice (0.2 times the HDD), exencephaly, hydronephrosis, intestinal hemorrhage, split supraoccipital, malformed sternbrae, and malformed xiphoid were noted. The effects were reduced with increasing daily dose; possibly due to rapid induction of tolerance under these infusion conditions. The clinical significance of this report is not clear.

Decreased fetal weights were observed in pregnant rats treated with 20 mg/kg/day morphine sulfate (3.2 times the HDD) from Gestation Day 7 to 9. There was no evidence of malformations despite maternal toxicity (10% mortality). In a second rat study, decreased fetal weight and increased incidences of growth retardation were noted at 35 mg/kg/day (5.7 times the HDD) and there was a reduced number of fetuses at 70 mg/kg/day (11.4 times the HDD) when pregnant rats were treated with 10, 35, or 70 mg/kg/day morphine sulfate via continuous infusion from Gestation Day 5 to 20. There was no evidence of fetal malformations or maternal toxicity.

An increased incidence of abortion was noted in a study in which pregnant rabbits were treated with 2.5 (0.8 times the HDD) to 10 mg/kg morphine sulfate via subcutaneous injection from Gestation Day 6 to 10. In a second study, decreased fetal body weights were reported following treatment of pregnant rabbits with increasing doses of morphine (10 to 50 mg/kg/day) during the pre-mating period and 50 mg/kg/day (16 times the HDD) throughout the gestation period. No overt malformations were reported

in either publication; although only limited endpoints were evaluated.

In published studies in rats, exposure to morphine during gestation and/or lactation periods is associated with: decreased pup viability at 12.5 mg/kg/day or greater (2 times the HDD); decreased pup body weights at 15 mg/kg/day or greater (2.4 times the HDD); decreased litter size, decreased absolute brain and cerebellar weights, cyanosis, and hypothermia at 20 mg/kg/day (3.2 times the HDD); alteration of behavioral responses (play, social-interaction) at 1 mg/kg/day or greater (0.2 times the HDD); alteration of maternal behaviors (e.g., decreased nursing and pup retrievals) in mice at 1 mg/kg or higher (0.08 times the HDD) and rats at 1.5 mg/kg/day or higher (0.2 times the HDD); and a host of behavioral abnormalities in the offspring of rats, including altered responsiveness to opioids at 4 mg/kg/day (0.7 times the HDD) or greater.

Fetal and/or postnatal exposure to morphine in mice and rats has been shown to result in morphological changes in fetal and neonatal brain and neuronal cell loss, alteration of a number of neurotransmitter and neuromodulator systems, including opioid and non-opioid systems, and impairment in various learning and memory tests that appear to persist into adulthood. These studies were conducted with morphine treatment usually in the range of 4 to 20 mg/kg/day (0.7 to 3.2 times the HDD).

Additionally, delayed sexual maturation and decreased sexual behaviors in female offspring at 20 mg/kg/day (3.2 times the HDD), and decreased plasma and testicular levels of luteinizing hormone and testosterone, decreased testes weights, seminiferous tubule shrinkage, germinal cell aplasia, and decreased spermatogenesis in male offspring were also observed at 20 mg/kg/day (3.2 times the HDD). Decreased litter size and viability were observed in the offspring of male rats that were intraperitoneally administered morphine sulfate for 1 day prior to mating at 25 mg/kg/day (4.1 times the HDD) and mated to untreated females. Decreased viability and body weight and/or movement deficits in both first- and second-generation offspring were reported when male mice were treated for 5 days with escalating doses of 120 to 240 mg/kg/day morphine sulfate (9.7 to 19.5 times the HDD) or when female mice treated with escalating doses of 60 to 240 mg/kg/day (4.9 to 19.5 times the HDD) followed by a 5-day treatment-free recovery period prior to mating. Similar multigenerational findings were also seen in female rats pre-gestationally treated with escalating doses of 10 to 22 mg/kg/day morphine (1.6 to 3.6 times the HDD).

8.2 Lactation

Risk Summary

Morphine is present in breast milk. Published lactation studies report variable concentrations of morphine in breast milk with administration of immediate-release morphine to nursing mothers in the early postpartum period with a milk-to-plasma morphine AUC ratio of 2.5:1 measured in one lactation study. However, there is insufficient information to determine the effects of morphine on the breastfed infant and the effects of morphine on milk production. Lactation studies have not been conducted with extended-release morphine, including morphine sulfate extended-release capsules.

Because of the potential for serious adverse reactions, including excess sedation and respiratory depression in a breastfed infant, advise patients that breastfeeding is not recommended during treatment with morphine sulfate extended-release capsules.

Clinical Considerations

Monitor infants exposed to morphine sulfate extended-release capsules through breast milk for excess sedation and respiratory depression. Withdrawal symptoms can occur in breastfed infants when maternal administration of morphine is stopped, or when breastfeeding is stopped.

8.3 Females and Males of Reproductive Potential

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 (6.2)*, *Clinical Pharmacology (12.2)*].

In published animal studies, morphine administration adversely effected fertility and reproductive endpoints in male rats and prolonged estrus cycle in female rats [see *Nonclinical Toxicology (13)*].

8.4 Pediatric Use

The safety and efficacy of morphine sulfate extended-release capsules in patients less than 18 years have not been established.

8.5 Geriatric Use

Clinical studies of morphine sulfate extended-release capsules did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

Elderly patients (aged 65 years or older) may have increased sensitivity to morphine. 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 occurred after large initial doses were administered to patients who were not opioid-tolerant or when opioids were co-administered with other agents that depress respiration. Titrate the dosage of morphine sulfate extended-release capsules slowly in geriatric patients and frequently reevaluate the patient for signs of central nervous system and respiratory depression [see *Warnings and Precautions (5.7)*].

Morphine 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.

8.6 Hepatic Impairment

Morphine pharmacokinetics have been reported to be significantly altered in patients with cirrhosis. Start these patients with a lower than usual dosage of morphine sulfate extended-release capsules and titrate slowly while regularly evaluating for signs of respiratory depression, sedation, and hypotension [see *Clinical Pharmacology (12.3)*].

8.7 Renal Impairment

Morphine pharmacokinetics are altered in patients with renal failure. Start these patients

with a lower than usual dosage of morphine sulfate extended-release capsules and titrate slowly while regularly evaluating for signs of respiratory depression, sedation, and hypotension [see *Clinical Pharmacology (12.3)*].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Morphine sulfate extended-release capsules contain morphine, a Schedule II controlled substance.

9.2 Abuse

Morphine sulfate extended-release capsules contain morphine, a substance with high potential for misuse and abuse, which can lead to the development of substance use disorder, including addiction [see *Warnings and Precautions (5.1)*].

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 morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules abuse include those with a history of prolonged use of any opioid, including products containing morphine, those with a history of drug or alcohol abuse, or those who use morphine sulfate extended-release capsules 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.

Morphine sulfate extended-release capsules, 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 Morphine Sulfate Extended-Release Capsules

Abuse of morphine sulfate extended-release capsules poses a risk of overdose and death. This risk is increased with concurrent use of morphine sulfate extended-release capsules with alcohol and/or other CNS depressants. Taking cut, broken chewed, crushed, or dissolved morphine sulfate extended-release capsules enhances drug release and increases the risk of overdose and death. Morphine sulfate extended-release capsules are approved for oral use only. Inappropriate intravenous, intramuscular, or subcutaneous use of morphine sulfate extended-release capsules can result in death, local tissue necrosis, infection, pulmonary granulomas, increased risk of endocarditis, and valvular heart injury, and embolism.

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

With parenteral abuse the inactive ingredients can result in local tissue necrosis, infection, pulmonary granulomas, increased risk of endocarditis and valvular heart injury, embolism, and death.

9.3 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 morphine sulfate extended-release capsules in a patient physically dependent on opioids. Rapid tapering of morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules, gradually taper the dosage using a patient-specific plan that considers the following: the dose of morphine

sulfate extended-release capsules 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 (2.5), Warnings and Precautions (5.14)*].

Infants born to mothers 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 overdose with morphine sulfate extended-release capsules 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 in overdose situations.

Treatment of Overdose

In cases of overdose, priorities are the re-establishment of a patent 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 opioid overdose, administer an opioid antagonist.

Because the duration of reversal would be expected to be less than the duration of action of morphine in morphine sulfate extended-release capsules, carefully monitor the patient until spontaneous respiration is reliably reestablished. Morphine sulfate extended-release capsules will continue to release morphine add to the morphine load for 24 hours to 48 hours or longer following ingestion, necessitating prolonged monitoring. 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.

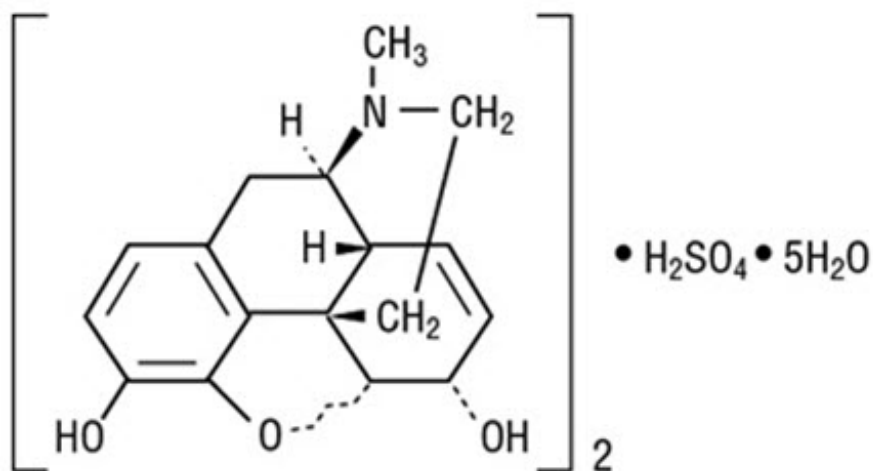
11 DESCRIPTION

Morphine sulfate extended-release capsules, USP, an opioid agonist, are for oral use and contain pellets of morphine sulfate.

Each morphine sulfate extended-release capsule, USP contains either 10 mg, 20 mg, 30 mg, 50 mg, 60 mg, 80 mg, or 100 mg of morphine sulfate, USP. The following inactive ingredients are common to all strengths: hypromellose, microcrystalline cellulose, ethylcellulose, methacrylic acid copolymer, polyethylene glycol, diethyl phthalate, and talc. The capsule shells contain gelatin, titanium dioxide, and black ink. In addition, individual capsules contain: FD&C blue #1, FD&C red #40 (10 mg); D&C yellow #10 (20 mg); FD&C blue #1, FD&C red #40 (30 mg); FD&C blue #1, FD&C red #40 (50 mg); FD&C blue #1, FD&C red #40 (60 mg); FD&C red #40, FD&C yellow #6 (80 mg); FD&C yellow #10, FD&C blue #1 (100 mg).

The chemical name of morphine sulfate is 7,8-didehydro-4,5 α -epoxy-17-methyl-morphinan-3,6 α -diol sulfate (2:1) (salt) pentahydrate. The empirical formula is $(C_{17}H_{19}NO_3)_2 \cdot H_2SO_4 \cdot 5H_2O$ and its molecular weight is 758.85.

Morphine sulfate is an odorless, white, crystalline powder with a bitter taste. It has a solubility of 1 in 21 parts of water and 1 in 1,000 parts of alcohol but is practically insoluble in chloroform or ether. The octanol: water partition coefficient of morphine is 1.42 at physiologic pH and the pK_b is 7.9 for the tertiary nitrogen (mostly ionized at pH 7.4). Its structural formula is:



12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Morphine 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. The principal therapeutic action of morphine is analgesia. Like all full opioid agonists, there is no ceiling effect for analgesia with morphine. Clinically, dosage is titrated to provide adequate analgesia and may be limited by adverse reactions, including respiratory and CNS depression.

The precise mechanism of the analgesic action is unknown. However, specific CNS opioid receptors for endogenous compounds with opioid-like activity have been identified throughout the brain and spinal cord and are thought to play a role in the analgesic

effects of this drug.

12.2 Pharmacodynamics

CNS Depressant/Alcohol Interaction

Additive pharmacodynamic effects may be expected when morphine sulfate is used in conjunction with alcohol, other opioids, or illicit drugs that cause central nervous system depression.

Effects on the Central Nervous System

Morphine produces respiratory depression by direct action on brainstem respiratory centers. The respiratory depression involves a reduction in the responsiveness of the brainstem respiratory centers to both increases in carbon dioxide tension and to electrical stimulation.

Morphine causes miosis, 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). Marked mydriasis rather than miosis may be seen with hypoxia in overdose situations.

Effects on the Gastrointestinal Tract and Other Smooth Muscle

Morphine causes a reduction in motility associated with an increase in smooth muscle tone in the antrum of the stomach and duodenum. Digestion of food in the small intestine is delayed and propulsive contractions are decreased. Propulsive peristaltic waves in the colon are decreased, while tone may be increased to the point of spasm, resulting in constipation. Other opioid-induced effects may include a reduction in biliary and pancreatic secretions, spasm of sphincter of Oddi, and transient elevations in serum amylase.

Effects on the Cardiovascular System

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

Effects on the Endocrine System

Opioids inhibit the secretion of adrenocorticotropic hormone (ACTH), cortisol, and luteinizing hormone (LH) in humans [see *Adverse Reactions (6.2)*]. They also stimulate prolactin, growth hormone (GH) secretion, and pancreatic secretion of insulin and glucagon.

Use of opioids for an extended period of time may influence the hypothalamic-pituitary-gonadal axis, leading to androgen deficiency that may manifest as low libido, impotence, erectile dysfunction, amenorrhea, or infertility. The causal role of opioids in the clinical syndrome of hypogonadism is unknown because the various medical, physical, lifestyle, and psychological stressors that may influence gonadal hormone levels have not been adequately controlled for in studies conducted to date [see *Adverse Reactions (6.2)*].

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. Overall, the effects of opioids appear to be modestly immunosuppressive.

Concentration-Efficacy Relationships

The minimum effective analgesic concentration will vary widely among patients, especially among patients who have been previously treated with opioid agonists. The minimum effective analgesic concentration of morphine for any individual patient may increase over time due to an increase in pain, the development of a new pain syndrome, and/or the development of analgesic tolerance [see *Dosage and Administration (2.1, 2.3)*].

Concentration-Adverse Reaction Relationships

There is a relationship between increasing morphine plasma concentration and increasing frequency of dose-related opioid adverse reactions such as nausea, vomiting, CNS effects, and respiratory depression. In opioid-tolerant patients, the situation may be altered by the development of tolerance to opioid-related adverse reactions [see *Dosage and Administration (2.1, 2.3, 2.4)*].

12.3 Pharmacokinetics

Absorption

Morphine sulfate extended-release capsules contain polymer coated extended-release pellets of morphine sulfate that release morphine significantly more slowly than oral morphine solution. Following the administration of oral morphine solution, approximately 50% of the morphine absorbed reaches the systemic circulation within 30 minutes compared to 8 hours with an equal amount of morphine sulfate. Because of pre-systemic elimination, only about 20% to 40% of the administered dose reaches the systemic circulation.

Both dose-normalized C_{max} and dose-normalized AUC_{0-48hr} values of morphine after a single dose administration of morphine sulfate in healthy volunteers are less than those for morphine oral solution or an extended-release tablet formulation (Table 2).

When morphine sulfate extended-release capsules were given twice daily to 24 patients with chronic pain due to malignancy, steady-state was achieved in about two days. At steady-state, morphine sulfate extended-release capsules have a significantly lower C_{max} and a higher C_{min} than equivalent doses of oral morphine solution given every 4 hrs and an extended-release tablet given twice daily. When given once daily to 24 patients with malignancy, morphine sulfate extended-release capsules have a similar C_{max} and higher C_{min} at steady-state when compared to an extended-release morphine tablets, given twice daily at an equivalent total daily dosage (see Table 2).

The single-dose pharmacokinetics of morphine sulfate extended-release capsules are linear over the dosage range of 30 mg to 100 mg.

Table 2: Mean pharmacokinetic parameters (% coefficient variation) resulting from a fasting single dose study in normal volunteers and a multiple-dose study in patients with cancer pain.

Regimen/Dosage Form	AUC^{*,†} (ng·h/mL)	C_{max}[†] (ng/mL)	T_{max} (h)	C_{min}[†] (ng/mL)	Fluctuation[‡]
Single Dose (n=24)					
Morphine Sulfate	271.0	15.6	0.6		

Extended-Release Capsules	271.0 (19.4)	15.0 (24.4)	0.0 (41.1)	N/A	N/A
Extended-Release Tablet	304.3 (19.1)	30.5 (32.1)	2.5 (52.6)	N/A	N/A
Morphine Solution	362.4 (42.6)	64.4 (38.2)	0.9 (55.8)	N/A	N/A
Multiple Dose (n=24)					
Morphine Sulfate Extended-Release Capsules Once Daily	500.9 (38.6)	37.3 (37.7)	10.3 (32.2)	9.9 (52.3)	3.0 (45.5)
Extended-Release Tablet Twice Daily	457.3 (40.2)	36.9 (42.0)	4.4 (53.0)	7.6 (60.3)	4.1 (51.5)

* For single dose AUC = AUC_{0-48h}, for multiple dose AUC = AUC_{0-24h} at steady-state

† For single dose parameter normalized to 100 mg, for multiple dose parameter normalized to 100 mg per 24 hours

‡ Steady-state fluctuation in plasma concentrations = $C_{max} - C_{min} / C_{min}$

Food Effect:

While concurrent administration of food slows the rate of absorption of morphine sulfate extended-release capsules, the extent of absorption is not affected, and morphine sulfate extended-release capsules can be administered without regard to meals.

Distribution

Once absorbed, morphine is distributed to skeletal muscle, kidneys, liver, intestinal tract, lungs, spleen and brain. The volume of distribution of morphine is approximately 3 L/kg to 4 L/kg. Morphine is 30% to 35% reversibly bound to plasma proteins. Although the primary site of action of morphine is in the CNS, only small quantities pass the blood-brain barrier. Morphine also crosses the placental membranes [see *Use in Specific Populations (8.1)*] and has been found in breast milk [see *Use in Specific Populations (8.2)*].

Elimination

Metabolism

Major pathways of morphine metabolism include glucuronidation in the liver to produce metabolites including morphine-3-glucuronide, M3G (about 50%) and morphine-6-glucuronide, M6G (about 5% to 15%) and sulfation in the liver to produce morphine-3-etheral sulfate. A small fraction (less than 5%) of morphine is demethylated. M3G has no significant contribution to the analgesic activity. Although M6G does not readily cross the blood-brain barrier, it has been shown to have opioid agonist and analgesic activity in humans.

Studies in healthy subjects and cancer patients have shown that the glucuronide metabolite to morphine mean molar ratios (based on AUC) are similar after both single doses and at steady-state for morphine sulfate extended-release capsules, 12-hour extended-release morphine sulfate tablets and morphine sulfate solution.

Excretion

Approximately 10% of a morphine dose is excreted unchanged in the urine. Most of the dose is excreted in the urine as M3G and M6G which are then renally excreted. A small amount of the glucuronide metabolites is excreted in the bile and there is some minor enterohepatic cycling. Seven to 10% of administered morphine is excreted in the feces.

The mean adult plasma clearance of morphine is about 20 to 30 mL/minute/kg. The effective terminal half-life of morphine after IV administration is reported to be approximately 2 hours. The terminal elimination half-life of morphine following a single dose of morphine sulfate extended-release capsules administration is approximately 11 hours to 13 hours.

Specific Populations

Sex

No meaningful differences between male and female patients were demonstrated in the analysis of the pharmacokinetic data from clinical studies.

Race/Ethnicity

Chinese subjects given intravenous morphine in one study had a higher clearance when compared to Caucasian subjects (1852 ± 116 mL/min versus 1495 ± 80 mL/min).

Hepatic Impairment

Morphine pharmacokinetics are altered in patients with alcoholic cirrhosis. Clearance was found to decrease with a corresponding increase in half-life. The M3G and M6G to morphine AUC ratios also decreased in these patients, indicating a decrease in metabolic activity. Adequate studies of the pharmacokinetics of morphine in patients with severe hepatic impairment have not been conducted.

Renal Impairment

Morphine pharmacokinetics are altered in patients with renal failure. The AUC is increased, and clearance is decreased and the metabolites, M3G and M6G, may accumulate to much higher plasma levels in patients with renal failure as compared to patients with normal renal function. Adequate studies of the pharmacokinetics of morphine in patients with severe renal impairment have not been conducted.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

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

Mutagenesis

No formal studies to assess the mutagenic potential of morphine have been conducted. In the published literature, morphine was found to be mutagenic *in vitro* increasing DNA fragmentation in human T-cells. Morphine was reported to be mutagenic in the *in vivo* mouse micronucleus assay and positive for the induction of chromosomal aberrations in mouse spermatids and murine lymphocytes. Mechanistic studies suggest that the *in vivo*

clastogenic effects reported with morphine in mice may be related to increases in glucocorticoid levels produced by morphine in this species. In contrast to the above positive findings, *in vitro* studies in the literature have also shown that morphine did not induce chromosomal aberrations in human leukocytes or translocations or lethal mutations in *Drosophila*.

Impairment of Fertility

No formal nonclinical studies to assess the potential of morphine to impair fertility have been conducted. Several nonclinical studies from the literature have demonstrated adverse effects on male fertility in the rat from exposure to morphine. One study in which male rats were administered morphine sulfate subcutaneously prior to mating (up to 30 mg/kg twice daily) and during mating (20 mg/kg twice daily) with untreated females, a number of adverse reproductive effects including reduction in total pregnancies and higher incidence of pseudo pregnancies at 20 mg/kg/day (3.2 times the HDD) were reported.

Studies from the literature have also reported changes in hormonal levels in male rats (i.e. testosterone, luteinizing hormone) following treatment with morphine at 10 mg/kg/day or greater (1.6 times the HDD).

Female rats that were administered morphine sulfate intraperitoneally prior to mating exhibited prolonged estrous cycles at 10 mg/kg/day (1.6 times the HDD).

Exposure of adolescent male rats to morphine has been associated with delayed sexual maturation and following mating to untreated females, smaller litters, increased pup mortality, and/or changes in reproductive endocrine status in adult male offspring have been reported (estimated 5 times the plasma levels at the HDD).

16 HOW SUPPLIED/STORAGE AND HANDLING

Morphine sulfate extended-release capsules, USP contain white to off-white or tan colored polymer coated pellets of morphine sulfate and are available in seven dose strengths:

10 mg, size 4, light blue, opaque capsule printed with "UPSHER-SMITH" over "0225" and "10 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0225-00
Bottles of 500, NDC 0832-0225-50

20 mg, size 4, yellow, opaque capsule printed with "UPSHER-SMITH" over "0226" and "20 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0226-00
Bottles of 500, NDC 0832-0226-50

30 mg, size 2, blue violet, opaque capsule printed with "UPSHER-SMITH" over "0227" and

"30 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0227-00
Bottles of 500, NDC 0832-0227-50

50 mg, size 2, blue, opaque capsule printed with "UPSHER-SMITH" over "0228" and "50 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0228-00
Bottles of 500, NDC 0832-0228-50

60 mg, size 1, pink, opaque capsule printed with "UPSHER-SMITH" over "0229" and "60 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0229-00
Bottles of 500, NDC 0832-0229-50

80 mg, size 1, light orange, opaque capsule printed with "UPSHER-SMITH" over "0230" and "80 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0230-00
Bottles of 500, NDC 0832-0230-50

100 mg, size 0, green, opaque capsule printed with "UPSHER-SMITH" over "0233" and "100 mg" in black ink. They are supplied as follows:

Bottles of 100 with child-resistant closure, NDC
0832-0233-00
Bottles of 500, NDC 0832-0233-50

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Protect from light and moisture.

Dispense in a sealed, tamper-evident, child-resistant, light-resistant container.

Store morphine sulfate extended-release capsules securely and dispose of properly [see *Patient Counseling Information (17)*].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide and

Instructions for Use).

Advise patients and caregivers that when medicines are no longer needed, they should be disposed of promptly. Expired, unwanted, or unused morphine sulfate extended-release capsules should be disposed of by flushing the unused medication down the toilet if a drug take-back option is not readily available. Inform patients that they can visit www.fda.gov/drugdisposal for a complete list of medicines recommended for disposal by flushing, as well as additional information on disposal of unused medicines.

Addiction, Abuse, and Misuse

Inform patients that the use of morphine sulfate extended-release capsules, even when taken as recommended, can result in addiction, abuse, and misuse, which can lead to overdose and death [see *Warnings and Precautions (5.1)*]. Instruct patients not to share morphine sulfate extended-release capsules with others and to take steps to protect morphine sulfate extended-release capsules from theft or misuse.

Life-Threatening Respiratory Depression

Inform patients of the risk of life-threatening respiratory depression, including information that the risk is greatest when starting morphine sulfate extended-release capsules or when the dosage is increased, and that it can occur even at recommended dosages.

Educate patients and caregivers on how to recognize respiratory depression and emphasize the importance of calling 911 or getting emergency medical help right away in the event of a known or suspected overdose [see *Warnings and Precautions (5.2)*].

Accidental Ingestion

Inform patients that accidental ingestion, especially by children, may result in respiratory depression or death [see *Warnings and Precautions (5.2)*].

Interactions with Alcohol

Instruct patients not to consume alcoholic beverages, or prescription and non-prescription products that contain alcohol, during treatment with morphine sulfate extended-release capsules. The co-ingestion of alcohol with morphine sulfate extended-release capsules may result in increased plasma levels and a potentially fatal overdose of morphine [see *Drug Interactions (7)*].

Interactions with Benzodiazepines and Other CNS Depressants

Instruct patients not to consume alcoholic beverages, as well as prescription and over-the-counter products that contain alcohol, during treatment with morphine sulfate extended-release capsules. The co-ingestion of alcohol with morphine sulfate extended-release capsules may result in increased plasma levels and a potentially fatal overdose of (active opioid) [see *Warnings and Precautions (5.3)*].

Patient Access to Naloxone for the Emergency Treatment of Opioid Overdose

Discuss with the patient and caregiver the availability of naloxone for the emergency treatment of opioid overdose, both when initiating and renewing treatment with morphine sulfate extended-release capsules. Inform patients and caregivers about the various ways to obtain naloxone as permitted by individual state naloxone dispensing and prescribing requirements or guidelines (e.g., by prescription, directly from a pharmacist, or as part of a community-based program) [see *Dosage and Administration*

(2.2), *Warnings and Precautions (5.2)*].

Educate patients and caregivers on how to recognize the signs and symptoms of an overdose.

Explain to patients and caregivers that naloxone's effects are temporary, and that they must call 911 or get emergency medical help right away in all cases of known or suspected opioid overdose, even if naloxone is administered [*see Overdosage (10)*].

If naloxone is prescribed, also advise patients and caregivers:

- How to treat with naloxone in the event of an opioid overdose.
- To tell family and friends about their naloxone and to keep it in a place where family and friends can access it in an emergency.
- To read the Patient Information (or other educational material) that will come with their naloxone. Emphasize the importance of doing this before an opioid emergency happens, so the patient and caregiver will know what to do.

Hyperalgesia and Allodynia

Inform patients and caregivers not to increase opioid dosage without first consulting a clinician. Advise patients to seek medical attention if they experience symptoms of hyperalgesia, including worsening pain, increased sensitivity to pain, or new pain [*see Warnings and Precautions (5.6); Adverse Reactions (6.2)*].

Serotonin Syndrome

Inform patients that opioids could cause a rare but potentially life-threatening condition resulting from concomitant administration of serotonergic drugs. Warn patients of the symptoms of serotonin syndrome and to seek medical attention right away if symptoms develop. Instruct patients to inform their physicians if they are taking, or plan to take serotonergic medications [*see Warnings and Precautions (5.2), Drug Interactions (7)*].

MAOI Interaction

Inform patients not to take morphine sulfate extended-release capsules while using any drugs that inhibit monoamine oxidase. Patients should not start MAOIs while taking morphine sulfate extended-release capsules [*see Warnings and Precautions (5.8), Drug Interactions (7)*].

Important Administration Instructions

Instruct patients how to properly take morphine sulfate extended-release capsules, including the following:

- Swallow morphine sulfate extended-release capsules whole or sprinkling the capsule contents on applesauce and then swallow immediately without chewing [*see Dosage and Administration (2.1, 2.6)*].
- Do not crush, chew, or dissolve the pellets contained in the capsules due to a risk of fatal morphine overdose [*see Dosage and Administration (2.1)*].
- Use morphine sulfate extended-release capsules exactly as prescribed to reduce the risk of life-threatening adverse reactions (e.g., respiratory depression) [*see Warnings and Precautions (5.2)*].

Important Discontinuation Instructions

In order to avoid developing withdrawal symptoms, instruct patients not to discontinue

morphine sulfate extended-release capsules without first discussing a tapering plan with the prescriber [*see Dosage and Administration (2.5)*].

Driving or Operating Heavy Machinery

Inform patients that morphine sulfate extended-release capsules may impair the ability to perform potentially hazardous activities such as driving a car or operating heavy machinery. Advise patients not to perform such tasks until they know how they will react to the medication [*see Warnings and Precautions (5.15)*].

Constipation

Advise patients of the potential for severe constipation, including management instructions and when to seek medical attention [*see Adverse Reactions (6), Clinical Pharmacology (12.2)*].

Adrenal Insufficiency

Inform patients that opioids could cause adrenal insufficiency, a potentially life-threatening condition. Adrenal insufficiency may present with non-specific symptoms and signs such as nausea, vomiting, anorexia, fatigue, weakness, dizziness, and low blood pressure. Advise patients to seek medical attention if they experience a constellation of these symptoms [*see Warnings and Precautions (5.9)*].

Hypotension

Inform patients that morphine sulfate extended-release capsules may cause orthostatic hypotension and syncope. Instruct patients how to recognize symptoms of low blood pressure and how to reduce the risk of serious consequences should hypotension occur (e.g., sit or lie down, carefully rise from a sitting or lying position) [*see Warnings and Precautions (5.10)*].

Anaphylaxis

Inform patients that anaphylaxis has been reported with morphine sulfate extended-release capsules. Advise patients how to recognize such a reaction and when to seek medical attention [*see Contraindications (4), Adverse Reactions (6)*].

Pregnancy

Neonatal Opioid Withdrawal Syndrome

Inform female patients of reproductive potential that use of morphine sulfate extended-release capsules for an extended period of time during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated [*see Warnings and Precautions (5.4), Use in Specific Populations (8.1)*].

Embryo-Fetal Toxicity

Inform female patients of reproductive potential that morphine sulfate extended-release capsules can cause fetal harm and to inform their healthcare provider of a known or suspected pregnancy [*see Use in Specific Populations (8.1)*].

Lactation

Advise patients that breastfeeding is not recommended during treatment with morphine sulfate extended-release capsules [*see Use in Specific Populations (8.2)*].

Infertility

Inform patients that use of opioids for an extended period of time may cause reduced fertility. It is not known whether these effects on fertility are reversible [see *Adverse Reactions (6.2)*].

Storage and Disposal

Because of the risks associated with accidental ingestion, misuse, and abuse, advise patients to store morphine sulfate extended-release capsules securely, out of sight and reach of children, and in a location not accessible by others, including visitors to the home. Inform patients that leaving morphine sulfate extended-release capsules unsecured can pose a deadly risk to others in the home [see *Warnings and Precautions (5.1, 5.2), Drug Abuse and Dependence (9.2)*].

Manufactured by

UPSHER-SMITH LABORATORIES, LLC

Maple Grove, MN 55369

Revised: 2/2024

Medication Guide Morphine Sulfate (mor-feen sul-fate) Extended-Release Capsules, CII

Morphine sulfate extended-release capsules are:
--

- | |
|--|
| <ul style="list-style-type: none">• A strong prescription pain medicine that contains an opioid (narcotic) that is used to manage severe and persistent pain, that requires an extended treatment period with a daily opioid pain medicine, when other pain medicines do not treat your pain well enough or you cannot tolerate them.• A long-acting (extended-release) opioid pain medicine that can put you at risk for overdose and death. Even if you take your dose correctly as prescribed you are at risk for opioid addiction, abuse, and misuse that can lead to death.• Not to be taken on an "as needed" basis. |
|--|

Important information about morphine sulfate extended-release capsules:
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- | |
|--|
| <ul style="list-style-type: none">• Get emergency help or call 911 right away if you take too much morphine sulfate extended-release capsules (overdose). When you first start taking morphine sulfate extended-release capsules, when your dose is changed, or if you take too much (overdose), serious or life-threatening breathing problems that can lead to death may occur. Talk to your healthcare provider about naloxone, a medicine for the emergency treatment of an opioid overdose.• Taking morphine sulfate extended-release capsules with other opioid medicines, benzodiazepines, alcohol, or other central nervous system depressants (including street drugs) can cause severe drowsiness, decreased awareness, breathing problems, coma, and death.• Never give anyone else your morphine sulfate extended-release capsules. They could die from taking it. Selling or giving away morphine sulfate extended-release capsules is against the law.• Store morphine sulfate extended-release capsules securely, out of sight and reach of children, and in a location not accessible by others, including visitors to the home. |
|--|

Do not take morphine sulfate extended-release capsules if you have:
--

- severe asthma, trouble breathing, or other lung problems.
- a bowel blockage or have narrowing of the stomach or intestines.

Before taking morphine sulfate extended-release capsules, tell your healthcare provider if you have a history of:

- head injury, seizures
- liver, kidney, thyroid problems
- problems urinating
- pancreas or gallbladder problems
- abuse of street or prescription drugs, alcohol addiction, opioid overdose, or mental health problems.

Tell your healthcare provider if you are:

- **noticing your pain getting worse.** If your pain gets worse after you take morphine sulfate extended-release capsules, do not take more of morphine sulfate extended-release capsules without first talking to your healthcare provider. Talk to your healthcare provider if the pain that you have increases, if you feel more sensitive to pain, or if you have new pain after taking morphine sulfate extended-release capsules.
- **are pregnant or planning to become pregnant.** Use of morphine sulfate extended-release capsules for an extended period of time during pregnancy can cause withdrawal symptoms in your newborn baby that could be life-threatening if not recognized and treated.
- **breastfeeding.** Not recommended during treatment with morphine sulfate extended-release capsules. It may harm your baby.
- living in a household where there are small children or someone who has abused street or prescription drugs.
- **taking prescription or over-the-counter medicines, vitamins, or herbal supplements.** Taking morphine sulfate extended-release capsules with certain other medicines can cause serious side effects.

When taking morphine sulfate extended-release capsules:

- Do not change your dose. Take morphine sulfate extended-release capsules exactly as prescribed by your healthcare provider. Use the lowest dose possible for the shortest time needed.
- Take your prescribed dose every 12 hours or 24 hours at the same time every day. Do not take more than your prescribed dose in 24 hours. If you miss a dose, take your next dose at your usual time.
- Swallow morphine sulfate extended-release capsules whole. Do not cut, break, chew, crush, dissolve, snort, or inject morphine sulfate extended-release capsules because this may cause you to overdose and die.
- You should not receive morphine sulfate extended-release capsules through a nasogastric tube.
- If you cannot swallow morphine sulfate extended-release capsules, see the detailed Instructions for Use.
- **Call your healthcare provider if the dose you are taking does not control your pain.**
- **Do not stop taking morphine sulfate extended-release capsules without talking to your healthcare provider.**
- Dispose of expired, unwanted, or unused morphine sulfate extended-release

capsules by promptly flushing down the toilet, if a drug take-back option is not readily available. Visit www.fda.gov/drugdisposal for additional information on disposal of unused medicines.

While taking morphine sulfate extended-release capsules DO NOT:

- Drive or operate heavy machinery, until you know how morphine sulfate extended-release capsules affect you. Morphine sulfate extended-release capsules 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 morphine sulfate extended-release capsules may cause you to overdose and die.

The possible side effects of morphine sulfate extended-release capsules are:

- 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 morphine sulfate extended-release capsules. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. **For more information go to dailymed.nlm.nih.gov**

For Medication Guides, please visit www.upsher-smith.com or call 1-888-650-3789.

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

Manufactured by
UPSHER-SMITH LABORATORIES, LLC
Maple Grove, MN 55369

Revised: 2/2024

Instructions For Use
Morphine Sulfate (mor-feen sul-fate)
Extended-Release Capsules, CII

If you cannot swallow morphine sulfate extended-release capsules, tell your healthcare provider. There may be another way to take morphine sulfate extended-release capsules that may be right for you. If your healthcare provider tells you that you can take morphine sulfate extended-release capsules using this other way, follow these steps:

Morphine sulfate extended-release capsules can be opened and the pellets inside the capsule can be sprinkled over applesauce, as follows:



- Open the morphine sulfate extended-release

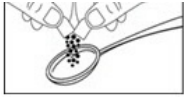


Figure 1

capsule and sprinkle the pellets over about one tablespoon of applesauce (See Figure 1).

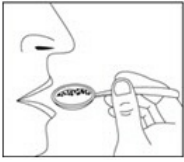


Figure 2

- Swallow all of the applesauce and pellets right away. Do not save any of the applesauce and pellets for another dose (See Figure 2).



Figure 3

- Rinse your mouth to make sure you have swallowed all of the pellets. Do not chew the pellets (See Figure 3).



Figure 4

- Flush the empty capsule down the toilet right away (See Figure 4).

You should not receive morphine sulfate extended-release capsules through a nasogastric tube.

This Instructions For Use has been approved by the U.S. Food and Drug Administration.

Manufactured by

UPSHER-SMITH LABORATORIES, LLC

Maple Grove, MN 55369

Revised: 2/2024

PRINCIPAL DISPLAY PANEL - 10 mg Capsule Bottle Label

NDC 0832-0225-00

Morphine Sulfate

Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

10 mg

PHARMACIST: Dispense the Medication Guide provided separately to each patient.

100 Capsules

Rx only

UPSHER-SMITH

NDC 0832-0225-00

Morphine Sulfate Extended-Release Capsules, USP



(Once or twice Daily Formulation)

10 mg

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 10 mg as
extended-release pellets

Usual Dosage: See package insert for full prescribing information.

The pellets from Morphine Sulfate Extended-
Release Capsules, USP should NOT be chewed,
crushed or dissolved.

This package is child-resistant. Store at
20° to 25°C (68° to 77°F); excursions permitted
to 15° to 30°C (59° to 86°F) [See USP Controlled
Room Temperature]. Protect from light and
moisture. Dispense in a sealed, tamper-
evident, child-resistant, light-resistant container.

Keep out of reach of children.

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112717-03 R1019



3 0832-0225-00 5

PRINCIPAL DISPLAY PANEL - 20 mg Capsule Bottle Label

NDC 0832-0226-00

Morphine Sulfate
Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

20 mg

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

NDC 0832-0226-00

Morphine Sulfate Extended-Release Capsules, USP



(Once or twice Daily Formulation)

20 mg

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 20 mg as
extended-release pellets

Usual Dosage: See package insert for full prescribing information.

The pellets from Morphine Sulfate Extended-
Release Capsules, USP should NOT be chewed,
crushed or dissolved.

This package is child-resistant. Store at
20° to 25°C (68° to 77°F); excursions permitted
to 15° to 30°C (59° to 86°F) [See USP Controlled
Room Temperature]. Protect from light and
moisture. Dispense in a sealed, tamper-
evident, child-resistant, light-resistant container.

Keep out of reach of children.

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3 0832-0226-00 2

PRINCIPAL DISPLAY PANEL - 30 mg Capsule Bottle Label

NDC 0832-0227-00

Morphine Sulfate
Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

30 mg

PHARMACIST: Dispense the Medication Guide
provided separately to each patient.

100 Capsules
Rx only

UPSHER-SMITH

NDC 0832-0227-00

Morphine Sulfate
Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

30 mg

PHARMACIST: Dispense the Medication Guide
provided separately to each patient.

100 Capsules **Rx only**

UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 30 mg as
extended-release pellets

Usual Dosage: See package insert for full prescribing information.
The pellets from Morphine Sulfate Extended-Release Capsules,
USP should NOT be chewed, crushed or dissolved.

This package is child-resistant. Store at
20° to 25°C (68° to 77°F); excursions
permitted to 15° to 30°C (59° to 86°F)
[See USP Controlled Room Temperature].
Protect from light and moisture. Dispense
in a sealed, tamper-evident, child-resistant,
light-resistant container.

Keep out of reach of children.

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0832-0227-00 9

PRINCIPAL DISPLAY PANEL - 50 mg Capsule Bottle Label

NDC 0832-0228-00

Morphine Sulfate
Extended-Release Capsules, USP


CII

(Once or twice Daily Formulation)

50 mg

PHARMACIST: Dispense the Medication Guide
provided separately to each patient.

100 Capsules
Rx only
UPSHER-SMITH

NDC 0832-0228-00
Morphine Sulfate
Extended-Release Capsules, USP 

(Once or twice Daily Formulation)

50 mg

PHARMACIST: Dispense the Medication Guide provided separately to each patient.

100 Capsules **Rx only**


UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 50 mg as extended-release pellets
Usual Dosage: See package insert for full prescribing information.
The pellets from Morphine Sulfate Extended-Release Capsules, USP should NOT be chewed, crushed or dissolved.

This package is child-resistant. Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Protect from light and moisture. Dispense in a sealed, tamper-evident, child-resistant, light-resistant container.

Keep out of reach of children.

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PRINCIPAL DISPLAY PANEL - 60 mg Capsule Bottle Label

NDC 0832-0229-00
Morphine Sulfate
Extended-Release Capsules, USP
CII
(Once or twice Daily Formulation)
60 mg
PHARMACIST: Dispense the Medication Guide provided separately to each patient.
100 Capsules
Rx only
UPSHER-SMITH

NDC 0832-0229-00

Morphine Sulfate
Extended-Release Capsules, USP



(Once or twice Daily Formulation)

60 mg

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 60 mg as
extended-release pellets

Usual Dosage: See package insert for full prescribing information.

The pellets from Morphine Sulfate Extended-Release Capsules,
USP should NOT be chewed, crushed or dissolved.

This package is child-resistant. Store at
20° to 25°C (68° to 77°F); excursions
permitted to 15° to 30°C (59° to 86°F)
[See USP Controlled Room Temperature].
Protect from light and moisture. Dispense
in a sealed, tamper-evident, child-resistant,
light-resistant container.

Keep out of reach of children.

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PRINCIPAL DISPLAY PANEL - 80 mg Capsule Bottle Label

NDC 0832-0230-00

Morphine Sulfate
Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

80 mg

PHARMACIST: Dispense the Medication Guide
provided separately to each patient.

100 Capsules

Rx only

UPSHER-SMITH

NDC 0832-0230-00

Morphine Sulfate
Extended-Release Capsules, USP



(Once or twice Daily Formulation)

80 mg

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

Each capsule contains: Morphine Sulfate, USP 80 mg as
extended-release pellets

Usual Dosage: See package insert for full prescribing information.

The pellets from Morphine Sulfate Extended-Release Capsules,
USP should NOT be chewed, crushed or dissolved.

This package is child-resistant. Store at
20° to 25°C (68° to 77°F); excursions
permitted to 15° to 30°C (59° to 86°F)
[See USP Controlled Room Temperature].
Protect from light and moisture. Dispense
in a sealed, tamper-evident, child-resistant,
light-resistant container.

Keep out of reach of children.

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PRINCIPAL DISPLAY PANEL - 100 mg Capsule Bottle Label

NDC 0832-0233-00

Morphine Sulfate
Extended-Release Capsules, USP

CII

(Once or twice Daily Formulation)

100 mg

For Use in Opioid-Tolerant Patients Only

**PHARMACIST: Dispense the Medication Guide
provided separately to each patient.**

100 Capsules

Rx only

UPSHER-SMITH

NDC 0832-0233-00

Morphine Sulfate Extended-Release Capsules, USP



(Once or twice Daily Formulation)

100 mg

For Use in Opioid-Tolerant Patients Only

PHARMACIST: Dispense the Medication Guide provided separately to each patient.

100 Capsules

Rx only

Each capsule contains: Morphine Sulfate, USP 100 mg as extended-release pellets**Usual Dosage:** See package insert for full prescribing information.

The pellets from Morphine Sulfate Extended-Release Capsules, USP should NOT be chewed, crushed or dissolved.

This package is child-resistant. Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Protect from light and moisture. Dispense in a sealed, tamper-evident, child-resistant, light-resistant container.

Keep out of reach of children.

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MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0225
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII: 76I7G6D29C)	Morphine Sulfate	10 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
polyethylene glycol 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 1 (UNII: H3R47K3TBD)	
FD&C Red No. 40 (UNII: WZB9127XOA)	

Product Characteristics

Color	BLUE (light blue)	Score	no score
Shape	CAPSULE	Size	14mm
Flavor		Imprint Code	UPsher;SMITH;0225;10;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0225-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0225-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0226
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII:76I7G6D29C)	Morphine Sulfate	20 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
D&C Yellow No. 10 (UNII: 35SW5USQ3G)	

Product Characteristics

Color	YELLOW	Score	no score
Shape	CAPSULE	Size	14mm
Flavor		Imprint Code	UPSHER;SMITH;0226;20;mg

Contains**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0226-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0226-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0227
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII:76I7G6D29C)	Morphine Sulfate	30 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 1 (UNII: H3R47K3TBD)	
FD&C Red No. 40 (UNII: WZB9127XOA)	

Product Characteristics

Color	BLUE (blue violet)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	UPSHER;SMITH;0227;30;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0227-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0227-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0228
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII:76I7G6D29C)	Morphine Sulfate	50 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 1 (UNII: H3R47K3TBD)	
FD&C Red No. 40 (UNII: WZB9127XOA)	

Product Characteristics

Color	BLUE	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	UPSHER;SMITH;0228;50;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0228-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0228-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0229
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII:76I7G6D29C)	Morphine Sulfate	60 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	

FD&C Blue No. 1 (UNII: H3R47K3TBD)

FD&C Red No. 40 (UNII: WZB9127XOA)

Product Characteristics

Color	PINK	Score	no score
Shape	CAPSULE	Size	19mm
Flavor		Imprint Code	UPSHER;SMITH;0229;60;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0229-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0229-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0230
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII: 76I7G6D29C)	Morphine Sulfate	80 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talco (UNII: 7SEV7J4R1U)	

GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Red No. 40 (UNII: WZB9127XOA)	
FD&C Yellow No. 6 (UNII: H77VEI93A8)	

Product Characteristics

Color	ORANGE (light orange)	Score	no score
Shape	CAPSULE	Size	19mm
Flavor		Imprint Code	UPSHER;SMITH;0230;80;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0230-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0230-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

MORPHINE SULFATE

morphine sulfate capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-0233
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Morphine Sulfate (UNII: X3P646A2J0) (Morphine - UNII:76I7G6D29C)	Morphine Sulfate	100 mg

Inactive Ingredients

Ingredient Name	Strength
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	

POLYETHYLENE GLYCOL 4000 (UNII: 4R4HFI6D95)	
diethyl phthalate (UNII: UF064M00AF)	
talc (UNII: 7SEV7J4R1U)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 1 (UNII: H3R47K3TBD)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	

Product Characteristics

Color	GREEN	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	UPSHER;SMITH;0233;100;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-0233-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	
2	NDC:0832-0233-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2013	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202104	06/30/2013	

Labeler - Upsher-Smith Laboratories, LLC (047251004)

Establishment

Name	Address	ID/FEI	Business Operations
Upsher-Smith Laboratories, LLC		047251004	ANALYSIS(0832-0225, 0832-0226, 0832-0227, 0832-0228, 0832-0229, 0832-0230, 0832-0233)

Establishment

Name	Address	ID/FEI	Business Operations
Upsher-Smith Laboratories, LLC		079111820	PACK(0832-0225, 0832-0226, 0832-0227, 0832-0228, 0832-0229, 0832-0230, 0832-0233) , MANUFACTURE(0832-0225, 0832-0226, 0832-0227, 0832-0228, 0832-0229, 0832-0230, 0832-0233) , LABEL(0832-0225, 0832-0226, 0832-0227, 0832-0228, 0832-0229, 0832-0230, 0832-0233)