HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use NUCYNTA® ER safely and effectively. See full prescribing information for NUCYNTA® ER.

NUCYNTA® ER (tapentadol) extended-release oral tablets C-II
Initial U.S. Approval: 2008

WARNING: ADDICTION, ABUSE, AND MISUSE; LIFE-THREATENING RESPIRATORY DEPRESSION; ACCIDENTAL INGESTION; NEONATAL OPIOID WITHDRAWAL SYNDROME; and INTERACTION WITH ALCOHOL
See full prescribing information for complete boxed warning.

- NUCYNTA® ER exposes 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 development of these behaviors or 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 NUCYNTA® ER tablets whole to avoid exposure to a potentially fatal dose of tapentadol. (5.2)
- Accidental ingestion of NUCYNTA® ER, especially in children, can result in fatal overdose of tapentadol. (5.2)
- Prolonged use of NUCYNTA ER during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated. If opioid use is required for a prolonged period in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available (5.3).
- Instruct patients not to consume alcohol or any products containing alcohol while taking NUCYNTA® ER because co-ingestion can result in fatal plasma tapentadol levels. (5.4)

Boxed Warning
Indications and Usage (1) 04/2014
Dosage and Administration (2) 04/2014
Warnings and Precautions (5) 04/2014

Recent Major Changes

Recent Major Changes
04/2014

Indications and Usage

NUCYNTA® ER is an opioid agonist indicated for the management of:

- pain severe enough to require daily, around-the-clock, long-term opioid treatment and for which alternative treatment options are inadequate. (1)
- neuropathic pain associated with diabetic peripheral neuropathy (DPN) in adults severe enough to require daily, around-the-clock, long-term opioid treatment and for which alternative treatment options are inadequate. (1)

Limitations of Use

Because of the risks of addiction, abuse, and misuse with opioids, even at recommended doses, and because of the greater risks of overdose and death with extended-release opioid formulations, reserve NUCYNTA® ER 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.

NUCYNTA® ER is not indicated as an as-needed (prn) analgesic. (1)

Dosage and Administration

Individualize dosing based on patient’s prior analgesic treatment experience and risk factors for addiction, abuse, and misuse; titrate as needed to provide adequate analgesia and minimize adverse reactions. (2.1, 2.2)

For use as the first opioid and in opioid non-tolerant patients, initiate with 50 mg tablet orally twice daily (approximately every 12 hours). (2.1)

To convert to NUCYNTA® ER from another opioid, use available conversion factors to obtain estimated dose. (2.1)

Titrate patients with dose increases of 50 mg no more than twice daily every three days. (2.2)

Maximum daily dose is 500 mg per day. (2.1)

- Use a gradual downward titration when NUCYNTA® ER is discontinued in a physically dependent patient. (2.3, 5.12)
- Reduce the dose of NUCYNTA® ER in patients with moderate hepatic impairment. (2.4)
- NUCYNTA® ER use in patients with severe renal impairment is not recommended. (2.5)
- Conservative initial dosing of NUCYNTA® ER in elderly patients is recommended due to possible decreased renal and hepatic function. (2.6)
- Instruct patients to swallow NUCYNTA® ER tablets whole. (2.7)

Dosage Forms and Strengths

Extended-release tablets: 50 mg, 100 mg, 150 mg, 200 mg, 250 mg (3)

Contraindications

- Significant respiratory depression (4)
- Acute or severe bronchial asthma (4)
- Known or suspected paralytic ileus (4)
- Hypersensitivity to tapentadol or to any other ingredients of the product (4)
- Concurrent use of monoamine oxidase inhibitors (MAOI) or use within the last 14 days. (4)

Warnings and Precautions

See Boxed WARNINGS

- Interaction with CNS depressants: Concomitant use may cause profound sedation, respiratory depression, and death. If co-administration is required, consider dose reduction of one or both drugs because of additive pharmacological effects. (5.4, 7.3)
- Elderly, cachectic, debilitated patients, and those with chronic pulmonary disease: Monitor closely because of increased risk for life-threatening respiratory depression. (5.5, 5.6)
- Hypotensive effect: Monitor during dose initiation and titration. (5.7)
- Patients with head injury or increased intracranial pressure: Monitor for sedation and respiratory depression. Avoid use of NUCYNTA® ER in patients with impaired consciousness or coma susceptible to intracranial effects of CO2 retention. (5.8)
- Seizures: Use with caution in patients with a history of seizures. (5.9)
- Serotonin Syndrome: Potentially life-threatening condition could result from concomitant administration of drugs with serotoninergic activity. (5.10)

Adverse Reactions

The most common (≥10%) adverse reactions were nausea, constipation, dizziness, headache, and somnolence. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Janssen Pharmaceuticals, Inc. at 1-800-526-7736 (1-800-JANSSEN) or FDA at 1–800–FDA–1088 or www.fda.gov/medwatch.

Drug Interactions

- Monitor for signs of serotonin syndrome when NUCYNTA® ER is used concurrently with SSRIs, SNRIs, tricyclic antidepressants, or triptans. (7.4)
- Mixed agonist/antagonist opioids (i.e., pentazocine, nalbuphine, and butorphanol): May reduce analgesic effect and/or precipitate withdrawal symptoms. (7.6)

Use in Specific Populations

- Pregnancy: Based on animal data, may cause fetal harm. (8.1)
- Nursing mothers: Closely monitor infants of nursing women receiving NUCYNTA® ER. (8.3)
- Renal or hepatic impairment: Not recommended in patients with severe renal or hepatic impairment. Reduce dose in patients with moderate hepatic impairment. (8.6, 8.7)

See 17 for PATIENT COUNSELING INFORMATION AND MEDICATION GUIDE.

Revised: 04/2014

Reference ID: 3490214
FULL PRESCRIBING INFORMATION: CONTENTS*

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FULL PRESCRIBING INFORMATION

WARNING: ADDICTION, ABUSE, AND MISUSE; LIFE-THREATENING RESPIRATORY DEPRESSION; ACCIDENTAL INGESTION; NEONATAL OPIOID WITHDRAWAL SYNDROME; and INTERACTION WITH ALCOHOL

Addiction, Abuse, and Misuse

NUCYNTA® ER 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 NUCYNTA® ER, and monitor all patients regularly for the development of these behaviors or conditions [see Warnings and Precautions (5.1)].

Life-threatening Respiratory Depression

Serious, life-threatening, or fatal respiratory depression may occur with use of NUCYNTA® ER. Monitor for respiratory depression, especially during initiation of NUCYNTA® ER or following a dose increase. Instruct patients to swallow NUCYNTA® ER tablets whole; crushing, chewing, or dissolving NUCYNTA® ER tablets can cause rapid release and absorption of a potentially fatal dose of tapentadol [see Warnings and Precautions (5.2)].

Accidental Ingestion

Accidental ingestion of even one dose of NUCYNTA® ER, especially by children, can result in a fatal overdose of tapentadol [see Warnings and Precautions (5.2)].

Neonatal Opioid Withdrawal Syndrome

Prolonged use of NUCYNTA® ER during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated, and requires management according to protocols developed by neonatology experts. If opioid use is required for a prolonged period in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available [see Warnings and Precautions (5.3)].

Interaction with Alcohol

Instruct patients not to consume alcoholic beverages or use prescription or non-prescription products that contain alcohol while taking NUCYNTA® ER. The co-ingestion of alcohol with NUCYNTA® ER may result in increased plasma tapentadol levels and a potentially fatal overdose of tapentadol [see Warnings and Precautions (5.4)].

1 INDICATIONS AND USAGE

NUCYNTA® ER (tapentadol) is indicated for the management of:
• pain severe enough to require daily, around-the-clock, long-term opioid treatment and for which alternative treatment options are inadequate.

• neuropathic pain associated with diabetic peripheral neuropathy (DPN) in adults severe enough to require daily, around-the-clock, long-term opioid treatment and for which alternative treatment options are inadequate.

Limitations of Usage

• Because of the risks of addiction, abuse, and misuse with opioids, even at recommended doses, and because of the greater risks of overdose and death with extended-release opioid formulations, reserve NUCYNTA® ER 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.

• NUCYNTA® ER is not indicated as an as-needed (prn) analgesic.

2 DOSAGE AND ADMINISTRATION

2.1 Initial Dosing

NUCYNTA® ER should be prescribed only by healthcare professionals who are knowledgeable in the use of potent opioids for the management of chronic pain.

Initiate the dosing regimen for each patient individually, taking into account the patient's prior analgesic treatment experience and risk factors for addiction, abuse, and misuse [see Warnings and Precautions (5.1)]. Monitor patients closely for respiratory depression, especially within the first 24-72 hours of initiating therapy with NUCYNTA® ER [see Warnings and Precautions (5.2)].

NUCYNTA® ER tablets must be taken whole. Crushing, chewing, or dissolving NUCYNTA® ER tablets will result in uncontrolled delivery of tapentadol and can lead to overdose or death [see Warnings and Precautions (5.2)].

NUCYNTA® ER is administered at a frequency of twice daily (every 12 hours).

Discontinue all other tapentadol and tramadol products when beginning and while taking NUCYNTA® ER [see Warnings and Precautions (5.10)]. Although the maximum approved total daily dose of NUCYNTA® immediate-release formulation is 600 mg per day, the maximum total daily dose of NUCYNTA® ER is 500 mg. Do not exceed a total daily dose of NUCYNTA® ER of 500 mg.

Use of NUCYNTA® ER as the First Opioid Analgesic

Initiate treatment with NUCYNTA® ER with the 50 mg tablet orally twice daily (approximately every 12 hours).
Use of NUCYNTA® ER in Patients who are not Opioid Tolerant
The starting dose for patients who are not opioid tolerant is NUCYNTA® ER 50 mg orally twice daily (approximately every 12 hours). Use of higher starting doses in patients who are not opioid tolerant may cause fatal respiratory depression. Patients who are opioid tolerant are those receiving, 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 per day, 25 mg oral oxymorphone per day or an equianalgesic dose of another opioid.

Conversion from NUCYNTA® to NUCYNTA® ER
Patients can be converted from NUCYNTA® to NUCYNTA® ER using the equivalent total daily dose of NUCYNTA® and dividing it into two equal doses of NUCYNTA® ER separated by approximately 12-hour intervals. As an example, a patient receiving 50 mg of NUCYNTA® four times per day (200 mg/day) may be converted to 100 mg NUCYNTA® ER twice a day.

Conversion from Other Opioids to NUCYNTA® ER
There are no established conversion ratios for conversion from other opioid to NUCYNTA® ER defined by clinical trials. Discontinue all other around-the-clock opioid drugs when NUCYNTA® ER therapy is initiated.

While there are useful tables of opioid equivalents readily available, there is substantial inter-patient variability in the relative potency of different opioid drugs and products. As such, it is safer to underestimate a patient’s 24-hour oral tapentadol requirements and provide rescue medication (e.g., immediate-release opioid) than to overestimate the 24-hour oral tapentadol requirements which could result in adverse reactions.

In general, as with other opioid analgesics, begin with half of the estimated daily tapentadol requirement as the initial dose, managing inadequate analgesia by supplementation with immediate-release rescue medication.

Conversion from Methadone to NUCYNTA® ER
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.

2.2 Titration and Maintenance of Therapy
Individually titrate NUCYNTA® ER to a dose that provides adequate analgesia and minimizes adverse reactions. Continually reevaluate patients receiving NUCYNTA® ER to assess the maintenance of pain control and the relative incidence of adverse reactions, as well as monitoring for the development of addiction, abuse, or misuse. 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 chronic therapy, periodically reassess the continued need for opioid analgesics.

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Titrate patients to adequate analgesia with dose increases of 50 mg no more than twice daily every three days. In clinical studies, efficacy with NUCYNTA® ER was demonstrated relative to placebo in the dosage range of 100 mg to 250 mg twice daily [see Clinical Studies (14)].

Patients who experience breakthrough pain may require a dose increase of NUCYNTA® ER, 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 NUCYNTA® ER dose.

If unacceptable opioid-related adverse reactions are observed, the subsequent doses may be reduced. Adjust the dose to obtain an appropriate balance between management of pain and opioid-related adverse reactions.

2.3 Discontinuation of NUCYNTA® ER
When the patient no longer requires therapy with NUCYNTA® ER tablets, use a gradual downward titration of the dose to prevent signs and symptoms of withdrawal in the physically-dependent patient.

2.4 Patients with Hepatic Impairment
The use of NUCYNTA® ER in patients with severe hepatic impairment (Child-Pugh Score 10-15) is not recommended.

In patients with moderate hepatic impairment (Child-Pugh Score 7 to 9), initiate treatment using 50 mg NUCYNTA® ER and administer no more frequently than once every 24 hours. The maximum recommended dose for patients with moderate hepatic impairment is 100 mg of NUCYNTA® ER per day [see Clinical Pharmacology (12.3)].

No dosage adjustment is recommended in patients with mild hepatic impairment (Child-Pugh Score 5 to 6) [see Warnings and Precautions (5.14) and Clinical Pharmacology (12.3)].

2.5 Patients with Renal Impairment
No dosage adjustment is recommended in patients with mild or moderate renal impairment. Use of NUCYNTA® ER in patients with severe renal impairment is not recommended [see Warnings and Precautions (5.15) and Clinical Pharmacology (12.3)].

2.6 Elderly Patients
In general, recommended dosing for elderly patients with normal renal and hepatic function is the same as for younger adult patients with normal renal and hepatic function. Because elderly patients are more likely to have decreased renal and hepatic function, consideration should be given to starting elderly patients with the lower range of recommended doses [see Clinical Pharmacology (12.3)].
2.7 Administration of NUCYNTA® ER

Instruct patients to swallow NUCYNTA® ER tablets whole. The tablets are not to be cut, crushed, dissolved, or chewed due to the risk of rapid release and absorption of a potentially fatal dose of tapentadol [see Warnings and Precautions (5.1, 5.2)].

Instruct patients to take NUCYNTA® ER one tablet at a time and with enough water to ensure complete swallowing immediately after placing in the mouth [see Warnings and Precautions (5.2), and Patient Counseling Information (17)].

3 DOSAGE FORMS AND STRENGTHS

NUCYNTA® ER 50 mg, 100 mg, 150 mg, 200 mg and 250 mg extended-release tablets are available in the following colors and prints:

- 50 mg extended-release tablets are white oblong-shaped with a black print “OMJ 50” on one side
- 100 mg extended-release tablets are light-blue oblong-shaped with a black print “OMJ 100” on one side
- 150 mg extended-release tablets are blue-green oblong-shaped with a black print “OMJ 150” on one side
- 200 mg extended-release tablets are blue oblong-shaped with a depression in the middle running lengthwise on each side and a black print “OMJ 200” on one side
- 250 mg extended-release tablets are dark blue oblong-shaped with a depression in the middle running lengthwise on each side and a white print “OMJ 250” on one side.

4 CONTRAINDICATIONS

NUCYNTA® ER is contraindicated in:

- Patients with significant respiratory depression
- Patients with acute or severe bronchial asthma or hypercarbia in an unmonitored setting or in the absence of resuscitative equipment
- Patients with known or suspected paralytic ileus
- Patients with hypersensitivity (e.g. anaphylaxis, angioedema) to tapentadol or to any other ingredients of the product [see Adverse Reactions (6.2)].
- Patients who are receiving monoamine oxidase inhibitors (MAOI) or who have taken them within the last 14 days due to potential additive effects on norepinephrine levels which may result in adverse cardiovascular events [see Drug Interactions (7.2)].
5 WARNINGS AND PRECAUTIONS

5.1 Addiction, Abuse, and Misuse

NUCYNTA® ER contains tapentadol, a Schedule II controlled substance. As an opioid, NUCYNTA® ER exposes users to the risks of addiction, abuse, and misuse [see Drug Abuse and Dependence (9)]. As modified-release products such as NUCYNTA® ER deliver the opioid over an extended period of time, there is a greater risk for overdose and death due to the larger amount of tapentadol present.

Although the risk of addiction in any individual is unknown, it can occur in patients appropriately prescribed NUCYNTA® ER and in those who obtain the drug illicitly. 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 NUCYNTA® ER, and monitor all patients receiving NUCYNTA® ER for the development of these behaviors or conditions. Risks are increased in patients with a personal or family history of substance abuse (including drug or alcohol addiction or abuse) or mental illness (e.g., major depression). The potential for these risks should not, however, prevent the prescribing of NUCYNTA® ER for the proper management of pain in any given patient. Patients at increased risk may be prescribed modified-release opioid formulations such as NUCYNTA® ER, but use in such patients necessitates intensive counseling about the risks and proper use of NUCYNTA® ER along with intensive monitoring for signs of addiction, abuse, and misuse.

Abuse or misuse of NUCYNTA® ER by crushing, chewing, snorting, or injecting the dissolved product will result in the uncontrolled delivery of tapentadol and can result in overdose and death [see Overdosage (10)].

Opioid agonists such as NUCYNTA® ER are sought by drug abusers and people with addiction disorders and are subject to criminal diversion. Consider these risks when prescribing or dispensing NUCYNTA® ER. Strategies to reduce these risks include prescribing the drug in the smallest appropriate quantity and advising the patient on the proper disposal of unused drug [see Patient Counseling Information (17)]. 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 modified-release opioids, even when used as recommended. Respiratory depression from opioid use, 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 NUCYNTA® ER, the risk is greatest during the initiation of therapy or following a dose increase. Closely
monitor patients for respiratory depression when initiating therapy with NUCYNTA® ER and following dose increases.

To reduce the risk of respiratory depression, proper dosing and titration of NUCYNTA® ER are essential [see Dosage and Administration (2)]. Overestimating the NUCYNTA® ER dose when converting patients from another opioid product can result in fatal overdose with the first dose.

Accidental ingestion of even one dose of NUCYNTA® ER, especially by children, can result in respiratory depression and death due to an overdose of tapentadol.

### 5.3 Neonatal Opioid Withdrawal Syndrome

Prolonged use of NUCYNTA® ER during pregnancy can result in withdrawal signs 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. If opioid use is required for a prolonged period in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available.

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.

### 5.4 Interactions with Central Nervous System Depressants

Patients must not consume alcoholic beverages or prescription or non-prescription products containing alcohol while on NUCYNTA® ER therapy. The co-ingestion of alcohol with NUCYNTA® ER may result in increased plasma tapentadol levels and a potentially fatal overdose of tapentadol [see Clinical Pharmacology (12.3)].

Hypotension, profound sedation, coma, respiratory depression, and death may result if NUCYNTA® ER is used concomitantly with alcohol or other central nervous system (CNS) depressants (e.g., sedatives, anxiolytics, hypnotics, neuroleptics, other opioids).

When considering the use of NUCYNTA® ER in a patient taking a CNS depressant, assess the duration of use of the CNS depressant and the patient’s response, including the degree of tolerance that has developed to CNS depression. Additionally, evaluate the patient’s use of alcohol or illicit drugs that cause CNS depression. If the decision to begin NUCYNTA® ER is made, start with NUCYNTA® ER 50 mg every 12 hours, monitor patients for signs of sedation and respiratory depression, and consider using a lower dose of the concomitant CNS depressant [see Drug Interactions (7.3)].
5.5 Use in Elderly, Cachectic, and 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. Therefore, closely monitor such patients, particularly when initiating and titrating NUCYNTA® ER and when NUCYNTA® ER is given concomitantly with other drugs that depress respiration [see Warnings and Precautions (5.2)].

5.6 Use in Patients with Chronic Pulmonary Disease

Monitor for respiratory depression those patients with significant chronic obstructive pulmonary disease or cor pulmonale, and patients having a substantially decreased respiratory reserve, hypoxia, hypercarbia, or pre-existing respiratory depression, particularly when initiating therapy and titrating with NUCYNTA® ER, as in these patients, even usual therapeutic doses of NUCYNTA® ER may decrease respiratory drive to the point of apnea [see Warnings and Precautions (5.2)]. Consider the use of alternative non-opioid analgesics in these patients if possible.

5.7 Hypotensive Effect

NUCYNTA® ER may cause severe hypotension. There is an 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 (7.3)]. Monitor these patients for signs of hypotension after initiating or titrating the dose of NUCYNTA® ER. In patients with circulatory shock, NUCYNTA® ER may cause vasodilation that can further reduce cardiac output and blood pressure. Avoid the use of NUCYNTA® ER in patients with circulatory shock.

5.8 Use in Patients with Head Injury or Increased Intracranial Pressure

Monitor patients taking NUCYNTA® ER who may be susceptible to the intracranial effects of CO₂ retention (e.g., those with evidence of increased intracranial pressure or brain tumors) for signs of sedation and respiratory depression, particularly when initiating therapy with NUCYNTA® ER. NUCYNTA® ER may reduce respiratory drive, and the resultant CO₂ retention can further increase intracranial pressure. Opioids may also obscure the clinical course in a patient with a head injury.

Avoid the use of NUCYNTA® ER in patients with impaired consciousness or coma.

5.9 Seizures

NUCYNTA® ER has not been evaluated in patients with a predisposition to a seizure disorder, and such patients were excluded from clinical studies. The active ingredient tapentadol in NUCYNTA® ER may aggravate convulsions in patients with convulsive disorders, and may induce or aggravate seizures in some clinical settings. Monitor patients with a history of seizure disorders for worsened seizure control during NUCYNTA® ER therapy.
5.10 Serotonin Syndrome
Cases of life-threatening serotonin syndrome have been reported with the concurrent use of tapentadol and serotonergic drugs. Serotonergic drugs comprise Selective Serotonin Reuptake Inhibitors (SSRIs), Serotonin and Norepinephrine Reuptake Inhibitors (SNRIs), tricyclic antidepressants (TCAs), triptans, drugs that affect the serotonergic neurotransmitter system (e.g. mirtazapine, trazodone, and tramadol), and drugs that impair metabolism of serotonin (including MAOIs). This may occur within the recommended dose. Serotonin syndrome may include mental-status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g., hyperreflexia, incoordination) and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea) and can be fatal [see Drug Interactions (7.4)].

5.11 Use in Patients with Gastrointestinal Conditions
NUCYNTA® ER is contraindicated in patients with GI obstruction, including paralytic ileus. The tapentadol in NUCYNTA® ER may cause spasm of the sphincter of Oddi. Monitor patients with biliary tract disease, including acute pancreatitis, for worsening symptoms.

5.12 Avoidance of Withdrawal
Avoid the use of mixed agonist/antagonist (i.e., pentazocine, nalbuphine, and butorphanol) or partial agonist (buprenorphine) analgesics in patients who have received or are receiving a course of therapy with a full opioid agonist analgesic, including NUCYNTA® ER. In these patients, mixed agonists/antagonists and partial agonist analgesics may reduce the analgesic effect and/or may precipitate withdrawal symptoms.

When discontinuing NUCYNTA® ER, gradually taper the dose [see Dosage and Administration (2.3)].

5.13 Driving and Operating Heavy Machinery
NUCYNTA® ER 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 NUCYNTA® ER and know how they will react to the medication.

5.14 Hepatic Impairment
A study with an immediate-release formulation of tapentadol in subjects with hepatic impairment showed higher serum concentrations of tapentadol than in those with normal hepatic function. Avoid use of NUCYNTA® ER in patients with severe hepatic impairment. Reduce the dose of NUCYNTA® ER in patients with moderate hepatic impairment [see Dosage and Administration (2.4) and Clinical Pharmacology (12.3)]. Closely monitor patients with moderate hepatic impairment for respiratory and central nervous system depression when initiating and titrating NUCYNTA® ER.
5.15 Renal Impairment
Use of NUCYNTA® ER in patients with severe renal impairment is not recommended due to accumulation of a metabolite formed by glucuronidation of tapentadol. The clinical relevance of the elevated metabolite is not known [see Clinical Pharmacology (12.3)].

6 ADVERSE REACTIONS
The following serious adverse reactions are discussed elsewhere in the labeling:

- 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 (5.3)]
- Interaction with Other CNS Depressants [see Warnings and Precautions (5.4)]
- Hypotensive Effects [see Warnings and Precautions (5.7)]
- Gastrointestinal Effects [see Warnings and Precautions (5.11)]
- Seizures [see Warnings and Precautions (5.9)]
- Serotonin Syndrome [see Warnings and Precautions (5.10)]

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 to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Commonly-Observed Adverse Reactions in Clinical Studies with NUCYNTA® ER in Patients with Chronic Pain due to Low Back Pain or Osteoarthritis
The safety data described in Table 1 below are based on three pooled, randomized, double-blind, placebo-controlled, parallel group, 15-week studies of NUCYNTA® ER (dosed 100 to 250 mg BID after a 50 mg BID starting dose) in patients with chronic pain due to low back pain (LBP) and osteoarthritis (OA). These trials included 980 NUCYNTA® ER-treated patients and 993 placebo-treated patients. The mean age was 57 years old; 63% were female and 37% were male; 83% were White, 10% were Black, and 5% were Hispanic.
The most common adverse reactions (reported by ≥10% in any NUCYNTA® ER dose group) were: nausea, constipation, dizziness, headache, and somnolence.

The most common reasons for discontinuation due to adverse reactions in eight Phase 2/3 pooled studies reported by ≥1% in any NUCYNTA® ER dose group for NUCYNTA® ER- and placebo-treated patients were nausea (4% vs. 1%), dizziness (3% vs. <1%), vomiting (3% vs. <1%), somnolence (2% vs. <1%), constipation (1% vs. <1%), headache (1% vs. <1%), and fatigue (1% vs. <1%), respectively.

<table>
<thead>
<tr>
<th>Adverse Drug Reactions Reported by ≥ 1% of NUCYNTA® ER-Treated Patients and Greater than Placebo-Treated Patients in Pooled Parallel-Group Trials1</th>
<th>NUCYNTA® ER 50 to 250 mg BID2 (n=980)</th>
<th>Placebo (n=993)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nausea</td>
<td>21%</td>
<td>7%</td>
</tr>
<tr>
<td>Constipation</td>
<td>17%</td>
<td>7%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>17%</td>
<td>6%</td>
</tr>
<tr>
<td>Headache</td>
<td>15%</td>
<td>13%</td>
</tr>
<tr>
<td>Somnolence</td>
<td>12%</td>
<td>4%</td>
</tr>
<tr>
<td>Fatigue</td>
<td>9%</td>
<td>4%</td>
</tr>
<tr>
<td>Vomiting</td>
<td>8%</td>
<td>3%</td>
</tr>
<tr>
<td>Dry mouth</td>
<td>7%</td>
<td>2%</td>
</tr>
<tr>
<td>Hyperhidrosis</td>
<td>5%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Pruritus</td>
<td>5%</td>
<td>2%</td>
</tr>
<tr>
<td>Insomnia</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Lethargy</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Asthenia</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Anxiety</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Decreased appetite</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Vertigo</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Hot flush</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Disturbance in attention</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Tremor</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Chills</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Abnormal dreams</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Reference ID: 3490214
<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>NUCYNTA® ER (%)</th>
<th>Placebo (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Vision blurred</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Erectile dysfunction</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

1 MedDRA preferred terms. The trials included forced titration during the first week of dosing.
2 NUCYNTA® ER dosed between 100 and 250 mg BID after a starting dose of 50 mg BID

Commonly-Observed Adverse Reactions in Clinical Studies with NUCYNTA® ER in Patients with Neuropathic Pain Associated with Diabetic Peripheral Neuropathy

The types of adverse reactions seen in the studies of patients with painful diabetic peripheral neuropathy (DPN) were similar to what was seen in the low back pain and osteoarthritis trials. The safety data described in Table 2 below are based on two pooled, randomized withdrawal, double-blind, placebo-controlled, 12-week studies of NUCYNTA® ER (dosed 100 to 250 mg BID) in patients with neuropathic pain associated with diabetic peripheral neuropathy. These trials included 1040 NUCYNTA® ER-treated patients and 343 placebo-treated patients. The mean age was 60 years old; 40% were female and 60% were male; 76% were White, 12% were Black, and 12% were “Other”. The most commonly reported ADRs (incidence ≥ 10% in NUCYNTA® ER-treated subjects) were: nausea, constipation, vomiting, dizziness, somnolence, and headache.

Table 2 lists the common adverse reactions reported in 1% or more of NUCYNTA® ER-treated patients and greater than placebo-treated patients with neuropathic pain associated with diabetic peripheral neuropathy in the two pooled studies.
Table 2: Adverse Drug Reactions Reported by ≥ 1% of NUCYNTA® ER-Treated Patients and Greater than Placebo-Treated Patients in Pooled Trials (Studies DPN-1 and DPN-2) ¹

<table>
<thead>
<tr>
<th></th>
<th>NUCYNTA® ER 50 to 250 mg BID⁺ (n=1040)</th>
<th>Placebo³ (n=343)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nausea</td>
<td>27%</td>
<td>8%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>18%</td>
<td>2%</td>
</tr>
<tr>
<td>Somnolence</td>
<td>14%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Constipation</td>
<td>13%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Vomiting</td>
<td>12%</td>
<td>3%</td>
</tr>
<tr>
<td>Headache</td>
<td>10%</td>
<td>5%</td>
</tr>
<tr>
<td>Fatigue</td>
<td>9%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Pruritus</td>
<td>8%</td>
<td>0%</td>
</tr>
<tr>
<td>Dry mouth</td>
<td>7%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>7%</td>
<td>5%</td>
</tr>
<tr>
<td>Decreased appetite</td>
<td>6%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Anxiety</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td>Insomnia</td>
<td>4%</td>
<td>3%</td>
</tr>
<tr>
<td>Hyperhidrosis</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Hot flush</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Tremor⁴</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td>Abnormal dreams</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td>Lethargy</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td>Asthenia</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Irritability</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Dyspnea</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Nervousness</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Sedation</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Vision blurred</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Pruritus generalized</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Adverse Reaction</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>Vertigo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdominal discomfort</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Hypotension</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Hypoesthesia</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Depression</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Rash</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Chills(^4)</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Feeling cold(^5)</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Drug withdrawal syndrome</td>
<td>1%</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

\(^1\) MedDRA preferred terms.
\(^2\) NUCYNTA® ER dosed between 100 and 250 mg BID after a starting dose of 50 mg BID. It includes ADR reported in the open-label titration period for all subjects and in the double-blind maintenance period for the subjects who were randomized to NUCYNTA® ER.
\(^3\) It includes ADR reported in the double-blind maintenance period for the subjects who were randomized to placebo after receiving NUCYNTA® ER during the open-label titration period.
\(^4\) Tremor was observed in 3.4% of NUCYNTA® ER-treated subjects vs. 3.2% in placebo group, chills- in 1.3% vs.1.2% in placebo, and feeling cold- in 1.3% vs.1.2% in placebo.

Other Adverse Reactions Observed During the Premarketing Evaluation of NUCYNTA® ER

The following additional adverse drug reactions occurred in less than 1% of NUCYNTA® ER-treated patients in ten Phase 2/3 clinical studies:

**Nervous system disorders:** paresthesia, balance disorder, syncope, memory impairment, mental impairment, depressed level of consciousness, dysarthria, presyncope, coordination abnormal

**Gastrointestinal disorders:** impaired gastric emptying

**General disorders and administration site conditions:** feeling abnormal, feeling drunk

**Psychiatric disorders:** perception disturbances, disorientation, confusional state, agitation, euphoric mood, drug dependence, thinking abnormal, nightmare

**Skin and subcutaneous tissue disorders:** urticaria

**Metabolism and nutrition disorders:** weight decreased

**Cardiac disorders:** heart rate increased, palpitations, heart rate decreased, left bundle branch block

**Vascular disorder:** blood pressure decreased

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Respiratory, thoracic and mediastinal disorders: respiratory depression

Renal and urinary disorders: urinary hesitation, pollakiuria

Reproductive system and breast disorders: sexual dysfunction

Eye disorders: visual disturbance

Immune system disorders: drug hypersensitivity

6.2 Postmarketing Experience

The following adverse reactions, not noted in Section 6.1 above, have been identified during post approval use of tapentadol. 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.

Psychiatric disorders: hallucination, suicidal ideation, panic attack

Anaphylaxis, angioedema, and anaphylactic shock have been reported very rarely with ingredients contained in NUCYNTA® ER. Advise patients how to recognize such reactions and when to seek medical attention.

7 DRUG INTERACTIONS

7.1 Alcohol

Concomitant use of alcohol with NUCYNTA® ER can result in an increase of tapentadol plasma levels and potentially fatal overdose of tapentadol. Instruct patients not to consume alcoholic beverages or use prescription or non-prescription products containing alcohol while on NUCYNTA® ER therapy [see Clinical Pharmacology (12.3)].

7.2 Monoamine Oxidase Inhibitors

NUCYNTA® ER is contraindicated in patients who are receiving monoamine oxidase inhibitors (MAOI) or who have taken them within the last 14 days due to potential additive effects on norepinephrine levels, which may result in adverse cardiovascular events [see Contraindications (4)].

7.3 CNS Depressants

The concomitant use of NUCYNTA® ER with other CNS depressants including sedatives, hypnotics, tranquilizers, general anesthetics, phenothiazines, other opioids, and alcohol can increase the risk of respiratory depression, profound sedation, coma and death. Monitor patients receiving CNS depressants and NUCYNTA® ER for signs of respiratory depression, sedation and hypotension.

When combined therapy with any of the above medications is considered, the dose of one or both agents should be reduced [see Dosage and Administration (2.2) and Warnings and Precautions (5.4)].
7.4 Serotonergic Drugs
There have been post-marketing reports of serotonin syndrome with the concomitant use of tapentadol and serotonergic drugs (e.g., SSRIs and SNRIs). Caution is advised when NUCYNTA® ER is co-administered with other drugs that may affect serotonergic neurotransmitter systems such as SSRIs, SNRIs, MAOIs, and triptans. If concomitant treatment of NUCYNTA® ER with a drug affecting the serotonergic neurotransmitter system is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases [see Warning and Precautions (5.10)].

7.5 Muscle Relaxants
Tapentadol may enhance the neuromuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression. Monitor patients receiving muscle relaxants and NUCYNTA® ER for signs of respiratory depression that may be greater than otherwise expected.

7.6 Mixed Agonist/Antagonist Opioid Analgesics
Mixed agonist/antagonist analgesics (i.e., pentazocine, nalbuphine, and butorphanol) and partial agonists (e.g., buprenorphine) may reduce the analgesic effect of NUCYNTA® ER or precipitate withdrawal symptoms. Avoid the use of mixed agonist/antagonist analgesics in patients receiving NUCYNTA® ER.

7.7 Anticholinergics
The use of NUCYNTA® ER with anticholinergic products may increase the risk of urinary retention and/or severe constipation, which may lead to paralytic ileus.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Clinical Considerations
Fetal/neonatal adverse reactions
Prolonged use of opioid analgesics during pregnancy for medical or nonmedical purposes can result in physical dependence in the neonate and neonatal opioid withdrawal syndrome shortly after birth. Observe newborns for symptoms of neonatal opioid withdrawal syndrome, such as poor feeding, diarrhea, irritability, tremor, rigidity, and seizures, and manage accordingly [see Warnings and Precautions (5.3)].

Teratogenic Effects - Pregnancy Category C
There are no adequate and well-controlled studies in pregnant women. NUCYNTA® ER should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Tapentadol HCl was evaluated for teratogenic effects in pregnant rats and rabbits following intravenous and subcutaneous exposure during the period of embryofetal organogenesis. When tapentadol was administered twice daily by the subcutaneous route in rats at dose levels of 10, 20, or 40 mg/kg/day [producing up to 1.36
times the plasma exposure at the maximum recommended human dose (MRHD) of 500 mg/day for NUCYNTA® ER based on an area under the time-curve (AUC) comparison], no teratogenic effects were observed. Evidence of embryofetal toxicity included transient delays in skeletal maturation (i.e., reduced ossification) at the 40 mg/kg/day dose which was associated with significant maternal toxicity. Administration of tapentadol HCl in rabbits at doses of 4, 10, or 24 mg/kg/day by subcutaneous injection [producing 0.3, 0.8, and 2.5 times the plasma exposure at the MRHD based on an AUC comparison, respectively] revealed embryofetal toxicity at doses ≥10 mg/kg/day. Findings included reduced fetal viability, skeletal delays and other variations. In addition, there were multiple malformations including gastroschisis/thoracogastroschisis, amelia/phocomelia, and cleft palate at doses ≥10 mg/kg/day and above, and ablepharia, encephalopathy, and spina bifida at the high dose of 24 mg/kg/day. Embryofetal toxicity, including malformations, may be secondary to the significant maternal toxicity observed in the study.

In a study of pre- and postnatal development in rats, oral administration of tapentadol at doses of 20, 50, 150, or 300 mg/kg/day to pregnant and lactating rats during the late gestation and early postnatal period [resulting in up to 2.28 times the plasma exposure at the MRHD on an AUC basis] did not influence physical or reflex development, the outcome of neurobehavioral tests or reproductive parameters. At maternal tapentadol doses ≥150 mg/kg/day, a dose-related increase in pup mortality was observed to postnatal Day 4. Treatment-related developmental delay was observed in the dead pups, including incomplete ossification. In addition, significant reductions in pup body weights and body weight gains at doses associated with maternal toxicity (150 mg/kg/day and above) were seen throughout lactation.

8.2 Labor and Delivery

Opioids cross the placenta and may produce respiratory depression in neonates. NUCYNTA® ER is not for use in women during and immediately prior to labor, when shorter acting analgesics or other analgesic techniques are more appropriate. Opioid analgesics can prolong labor through actions that 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 dilatation, which tends to shorten labor.

8.3 Nursing Mothers

There is insufficient/limited information on the excretion of tapentadol in human or animal breast milk. Physicochemical and available pharmacodynamic/toxicological data on tapentadol point to excretion in breast milk and risk to the breastfeeding child cannot be excluded.

Because of the potential for adverse reactions in nursing infants from NUCYNTA® ER, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

Withdrawal symptoms can occur in breast-feeding infants when maternal administration of NUCYNTA® ER is stopped.
8.4 Pediatric Use
The safety and efficacy of NUCYNTA® ER in pediatric patients less than 18 years of age have not been established.

8.5 Geriatric Use
Of the total number of patients in Phase 2/3 double-blind, multiple-dose clinical studies of NUCYNTA® ER, 28% (1023/3613) were 65 years and over, while 7% (245/3613) were 75 years and over. No overall differences in effectiveness or tolerability were observed between these patients and younger patients.

In general, recommended dosing for elderly patients with normal renal and hepatic function is the same as for younger adult patients with normal renal and hepatic function. Because elderly patients are more likely to have decreased renal and hepatic function, consideration should be given to starting elderly patients with the lower range of recommended doses [see Clinical Pharmacology (12.3)].

8.6 Renal Impairment
The safety and effectiveness of NUCYNTA® ER have not been established in patients with severe renal impairment (CLCR <30 mL/min). Use of NUCYNTA® ER in patients with severe renal impairment is not recommended due to accumulation of a metabolite formed by glucuronidation of tapentadol. The clinical relevance of the elevated metabolite is not known [see Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment
Administration of tapentadol resulted in higher exposures and serum levels of tapentadol in subjects with impaired hepatic function compared to subjects with normal hepatic function [see Clinical Pharmacology (12.3)]. The dose of NUCYNTA® ER should be reduced in patients with moderate hepatic impairment (Child-Pugh Score 7 to 9) [see Dosage and Administration (2.4)].

Use of NUCYNTA® ER is not recommended in severe hepatic impairment (Child-Pugh Score 10 to 15) [see Warnings and Precautions (5.14)].

9 DRUG ABUSE AND DEPENDENCE
9.1 Controlled Substance
NUCYNTA® ER contains tapentadol, a Schedule II controlled substance with a high potential for abuse similar to fentanyl, methadone, morphine, oxycodone, and oxymorphone. NUCYNTA® ER can be abused and is subject to misuse, addiction, and criminal diversion [see Warnings and Precautions (5.1)]. The high drug content in the extended release formulation adds to the risk of adverse outcomes from abuse and misuse.

9.2 Abuse
All patients treated with opioids require careful monitoring for signs of abuse and addiction, because use of opioid analgesic products carries the risk of addiction even under appropriate medical use.
Drug abuse is the intentional non-therapeutic use of an over-the-counter or prescription drug, even once, for its rewarding psychological or physiological effects. Drug abuse includes, but is not limited to the following examples: the use of a prescription or over-the-counter drug to get “high”, or the use of steroids for performance enhancement and muscle build up.

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

“Drug-seeking” behavior is very common to addicts and drug abusers. Drug-seeking tactics include emergency calls or visits near the end of office hours, refusal to undergo appropriate examination, testing or referral, repeated claims of loss of prescriptions, tampering with prescriptions and reluctance to provide prior medical records or contact information for other treating physician(s). “Doctor shopping” (visiting multiple prescribers) to obtain additional prescriptions is common among drug abusers, and people suffering from untreated addiction. Preoccupation with achieving pain relief can be appropriate behavior in a patient with poor pain control.

Abuse and addiction are separate and distinct from physical dependence and tolerance. Physicians should be aware that addiction may not be accompanied by concurrent tolerance and symptoms of physical dependence in all addicts. In addition, abuse of opioids can occur in the absence of true addiction.

NUCYNTA® ER, like other opioids, can be diverted for non-medical use into illicit channels of distribution. Careful record-keeping of prescribing information, including quantity, frequency, and renewal requests, as required by law, is strongly advised.

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

9.3 Dependence
Both tolerance and physical dependence can develop during chronic opioid therapy. Tolerance is the need for increasing doses of opioids to maintain a defined effect such as analgesia (in the absence of disease progression or other external factors). Tolerance may occur to both the desired and undesired effects of drugs, and may develop at different rates for different effects.

Physical dependence results in withdrawal symptoms after abrupt discontinuation or a significant dose reduction of a drug. Withdrawal also may be precipitated through the administration of drugs with opioid antagonist activity, e.g., naloxone, nalmefene, mixed agonist/antagonist analgesics (pentazocine, butorphanol, nalbuphine), or partial agonists (buprenorphine). Physical dependence may not occur to a clinically significant degree until after several days to weeks of continued opioid usage.
NUCYNTA® ER should not be abruptly discontinued [see Dosage and Administration (2.3)]. If NUCYNTA® ER is abruptly discontinued in a physically-dependent patient, an abstinence syndrome may occur. Some or all of the following can characterize this syndrome: restlessness, lacrimation, rhinorrhea, yawning, perspiration, chills, piloerection, myalgia, mydriasis, irritability, anxiety, backache, joint pain, weakness, abdominal cramps, insomnia, nausea, anorexia, vomiting, diarrhea, increased blood pressure, respiratory rate, or heart rate.

Infants born to mothers physically dependent on opioids will also be physically dependent and may exhibit respiratory difficulties and withdrawal symptoms [see Use in Specific Populations (8.1, 8.2)].

10 OVERDOSAGE

10.1 Clinical Presentation

Acute overdosage with opioids can be manifested by respiratory depression, somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, constricted pupils, and sometimes pulmonary edema, bradycardia, hypotension and death. Marked mydriasis rather than miosis may be seen due to severe hypoxia in overdose situations.

10.2 Treatment of Overdose

In case 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, vasopressors) in the management of circulatory shock and pulmonary edema as indicated. Cardiac arrest or arrhythmias will require advanced life support techniques.

The opioid antagonists, naloxone or nalmefene, are specific antidotes to respiratory depression resulting from opioid overdose. Opioid antagonists should not be administered in the absence of clinically significant respiratory or circulatory depression secondary to tapentadol overdose. Such agents should be administered cautiously to patients who are known, or suspected to be, physically dependent on NUCYNTA® ER. In such cases, an abrupt or complete reversal of opioid effects may precipitate an acute withdrawal syndrome.

Because the duration of reversal would be expected to be less than the duration of action of tapentadol in NUCYNTA® ER, carefully monitor the patient until spontaneous respiration is reliably re-established. NUCYNTA® ER will continue to release tapentadol adding to the tapentadol load for up to 24 hours after administration necessitating prolonged monitoring. If the response to opioid antagonists is suboptimal or not sustained, additional antagonist should be given as directed in the product’s prescribing information.

In an individual physically dependent on opioids, administration of an opioid receptor antagonist may precipitate an acute withdrawal. The severity of the withdrawal produced 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 begun with care and by titration with smaller than usual doses of the antagonist.
11 DESCRIPTION
NUCYNTA® ER (tapentadol) is a mu-opioid receptor agonist, supplied in extended-release film-coated tablets for oral administration, containing 58.24, 116.48, 174.72, 232.96, and 291.20 mg of tapentadol hydrochloride in each tablet strength, corresponding to 50, 100, 150, 200, and 250 mg of tapentadol free-base, respectively. The chemical name is 3-[(1R,2R)-3-(dimethylamino)-1-ethyl-2-methylpropyl]phenol monohydrochloride. The structural formula is:

![Structural formula of Tapentadol](image)

The molecular weight of tapentadol HCl is 257.80, and the molecular formula is C\textsubscript{14}H\textsubscript{23}NO•HCl. The n-octanol: water partition coefficient log P value is 2.89. The pKa values are 9.36 and 10.45. In addition to the active ingredient tapentadol HCl, tablets also contain the following inactive ingredients: alpha-tocopherol (vitamin E), hypromellose, polyethylene glycol, and polyethylene oxide. The film coating is comprised of polyvinyl alcohol, polyethylene glycol, talc, titanium dioxide, and the colorant FD&C Blue #2 aluminum lake is used for 100, 150, 200, and 250 mg strengths; and additionally, yellow iron oxide is used in 150 mg tablets. Printing inks contain shellac glaze and propylene glycol for all strengths, and black iron oxide (50, 100, 150 and 200 mg tablets) or titanium dioxide (250 mg tablets).

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
Tapentadol is a centrally-acting synthetic analgesic. The exact mechanism of action is unknown. Although the clinical relevance is unclear, preclinical studies have shown that tapentadol is a mu-opioid receptor (MOR) agonist and a norepinephrine reuptake inhibitor (NRI). Analgesia in animal models is derived from both of these properties.

12.2 Pharmacodynamics
Tapentadol is 18 times less potent than morphine in binding to the human mu-opioid receptor and is 2-3 times less potent in producing analgesia in animal models. Tapentadol has been shown to inhibit norepinephrine reuptake in the brains of rats resulting in increased norepinephrine concentrations. In preclinical models, the analgesic activity due to the mu-opioid receptor agonist activity of tapentadol can be antagonized by selective mu-opioid antagonists (e.g., naloxone), whereas the norepinephrine reuptake inhibition is sensitive to norepinephrine modulators. Tapentadol exerts its analgesic effects without a pharmacologically active metabolite.
Concentration-Efficacy Relationships
The minimum effective plasma concentration of tapentadol for analgesia varies widely among patients, especially among patients who have been previously treated with agonist opioids. As a result, individually titrate patients to achieve a balance between therapeutic and adverse effects. The minimum effective analgesic concentration of tapentadol for any individual patient may increase over time due to an increase in pain, progression of disease, development of a new pain syndrome and/or potential development of analgesic tolerance.

Concentration-Adverse Experience Relationships
There is a general relationship between increasing opioid plasma concentration and increasing frequency of adverse experiences such as nausea, vomiting, CNS effects, and respiratory depression.

Effects on the Cardiovascular System
There was no effect of therapeutic and supratherapeutic doses of tapentadol on the QT interval. In a randomized, double-blind, placebo- and positive-controlled crossover study, healthy subjects were administered five consecutive immediate-release formulation doses of tapentadol 100 mg every 6 hours, tapentadol 150 mg every 6 hours, placebo and a single oral dose of moxifloxacin. Similarly, the immediate-release formulation tapentadol had no relevant effect on other ECG parameters (heart rate, PR interval, QRS duration, T-wave or U-wave morphology).

Tapentadol produces peripheral vasodilation which may result in orthostatic hypotension.

Effects on the Central Nervous System (CNS)
The principal therapeutic action of tapentadol is analgesia. Tapentadol causes respiratory depression, in part by a direct effect on the brainstem respiratory centers. The respiratory depression involves a reduction in the responsiveness of the brain stem respiratory centers to both increases in carbon dioxide tension and electrical stimulation. Tapentadol depresses the cough reflex by direct effect on the cough center in the medulla.

Tapentadol 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 origin may produce similar findings). Marked mydriasis rather than miosis may be seen with hypoxia in overdose situations [see Overdosage (10)]. Other effects of tapentadol include anxiolysis, euphoria, and feeling of relaxation, drowsiness and changes in mood.

Effects on the Gastrointestinal Tract and on Other Smooth Muscle
Gastric, biliary and pancreatic secretions are decreased by tapentadol. Tapentadol causes a reduction in motility and is associated with an increase in 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 is increased to the point of spasm. The end result is constipation. Tapentadol can cause a marked increase in biliary tract pressure as a result of spasm of the sphincter of Oddi,
and transient elevations in serum amylase. Tapentadol may also cause spasm of the sphincter of the urinary bladder.

**Effects on the Endocrine System**

Opioid agonists have been shown to have a variety of effects on the secretion of hormones. Opioids inhibit the secretion of ACTH, cortisol, and luteinizing hormone (LH) in humans. They also stimulate prolactin, growth hormone (GH) secretion, and pancreatic secretion of insulin and glucagon.

**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.

**CNS Depressant/Alcohol Interaction**

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

### 12.3 Pharmacokinetics

**Absorption**

The mean absolute bioavailability after single-dose administration (fasting) of NUCYNTA® ER is approximately 32% due to extensive first-pass metabolism. Maximum serum concentrations of tapentadol are observed between 3 and 6 hours after administration of NUCYNTA® ER. Dose proportional increases for AUC have been observed after administration of NUCYNTA® ER over the therapeutic dose range.

Steady-state exposure of tapentadol is attained after the third dose (i.e., 24 hours after first twice daily multiple dose administration). Following dosing with 250 mg every 12 hours, minimal accumulation was observed.

**Food Effect**

The AUC and C_{max} increased by 6% and 17%, respectively, when NUCYNTA® ER tablet was administered after a high-fat, high-calorie breakfast. NUCYNTA® ER may be given with or without food.

**Distribution**

Tapentadol is widely distributed throughout the body. Following intravenous administration, the volume of distribution (Vz) for tapentadol is 540 +/- 98 L. The plasma protein binding is low and amounts to approximately 20%.

**Metabolism**

In humans, about 97% of the parent compound is metabolized. Tapentadol is mainly metabolized via Phase 2 pathways, and only a small amount is metabolized by Phase 1 oxidative pathways. The major pathway of tapentadol metabolism is conjugation with glucuronic acid to produce glucuronides. After oral administration approximately 70% (55% O-glucuronide and 15% sulfate of tapentadol) of the dose is excreted in urine in the conjugated form. A total of 3% of drug was excreted in urine as unchanged drug. Tapentadol is additionally
metabolized to N-desmethyl tapentadol (13%) by CYP2C9 and CYP2C19 and to hydroxy tapentadol (2%) by CYP2D6, which are further metabolized by conjugation. Therefore, drug metabolism mediated by cytochrome P450 system is of less importance than phase 2 conjugation.

None of the metabolites contribute to the analgesic activity.

**Excretion**  
Tapentadol and its metabolites are excreted almost exclusively (99%) via the kidneys. The terminal half-life is on average 5 hours after oral administration. The total clearance of tapentadol is 1603 +/-227 mL/min.

**Specific Populations**  
**Geriatric Patients**  
The mean exposure (AUC) to tapentadol was similar in elderly subjects compared to young adults, with a 16% lower mean C\text{max} observed in the elderly subject group compared to young adult subjects.

**Renal Impairment**  
AUC and C\text{max} of tapentadol were comparable in subjects with varying degrees of renal function (from normal to severely impaired). In contrast, increasing exposure (AUC) to tapentadol-O-glucuronide was observed with increasing degree of renal impairment. In subjects with mild (CL\text{CR} = 50 to <80 mL/min), moderate (CL\text{CR} = 30 to <50 mL/min), and severe (CL\text{CR} <30 mL/min) renal impairment, the AUC of tapentadol-O-glucuronide was 1.5-, 2.5-, and 5.5-fold higher compared with normal renal function, respectively.

**Hepatic Impairment**  
Administration of tapentadol resulted in higher exposures and serum levels to tapentadol in subjects with impaired hepatic function compared to subjects with normal hepatic function. The ratio of tapentadol pharmacokinetic parameters for the mild hepatic impairment group (Child-Pugh Score 5 to 6) and moderate hepatic impairment group (Child-Pugh Score 7 to 9) in comparison to the normal hepatic function group were 1.7 and 4.2, respectively, for AUC; 1.4 and 2.5, respectively, for C\text{max}; and 1.2 and 1.4, respectively, for t\text{1/2}. The rate of formation of tapentadol-O-glucuronide was lower in subjects with increased liver impairment.

**Pharmacokinetic Drug Interactions**  
Tapentadol is mainly metabolized by Phase 2 glucuronidation, a high capacity/low affinity system; therefore, clinically relevant interactions caused by Phase 2 metabolism are unlikely to occur. Naproxen and probenecid increased the AUC of tapentadol by 17% and 57%, respectively. These changes are not considered clinically relevant and no change in dose is required.

No changes in the pharmacokinetic parameters of tapentadol were observed when acetaminophen and acetylsalicylic acid were given concomitantly.

*In vitro* studies did not reveal any potential of tapentadol to either inhibit or induce cytochrome P450 enzymes. Only a minor amount of tapentadol is metabolized via the oxidative pathway. Thus, clinically relevant interactions mediated by the cytochrome P450 system are unlikely to occur.
The pharmacokinetics of tapentadol were not affected when gastric pH or gastrointestinal motility were increased by omeprazole and metoclopramide, respectively.

Plasma protein binding of tapentadol is low (approximately 20%). Therefore, the likelihood of pharmacokinetic drug-drug interactions by displacement from the protein binding site is low.

**Drug Interaction/Alcohol Interaction**

NUCYNTA® ER may be expected to have additive effects when used in conjunction with alcohol, other opioids, or illicit drugs that cause central nervous system depression, because respiratory depression, hypotension, hypertension, and profound sedation, coma or death may result [see Warnings and Precautions (5.4)].

An in vivo study examined the effect of alcohol (240 mL of 40%) on the bioavailability of a single dose of 100 mg and 250 mg of NUCYNTA® ER tablet in healthy, fasted volunteers. After co-administration of a 100 mg NUCYNTA® ER tablet and alcohol, the mean $C_{max}$ value increased by 48% compared to control with a range of 0.99-fold to 4.38-fold. The mean tapentadol $AUC_{last}$ and $AUC_{inf}$ were increased by 17%; the $T_{max}$ and $t_{1/2}$ were unchanged. After co-administration of a 250 mg NUCYNTA® ER tablet and alcohol, the mean $C_{max}$ value increased by 28% compared to control with a range of 0.90-fold to 2.67-fold. The mean tapentadol $AUC_{last}$ and $AUC_{inf}$ were increased by 16%; the $T_{max}$ and $t_{1/2}$ were unchanged.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

**Carcinogenesis**

Tapentadol was administered to rats (diet) and mice (oral gavage) for two years.

In mice, tapentadol HCl was administered by oral gavage at dosages of 50, 100 and 200 mg/kg/day for 2 years (up to 0.34 times in the male mice and 0.25 times in the female mice the plasma exposure at the maximum recommended human dose [MRHD] for NUCYNTA® ER on an area under the time-curve [AUC] basis). No increase in tumor incidence was observed at any dose level.

In rats, tapentadol HCl was administered in diet at dosages of 10, 50, 125 and 250 mg/kg/day for two years (up to 0.20 times in the male rats and 0.75 times in the female rats the plasma exposure at the MRHD on an AUC basis). No increase in tumor incidence was observed at any dose level.

**Mutagenesis**

Tapentadol did not induce gene mutations in bacteria, but was clastogenic with metabolic activation in a chromosomal aberration test in V79 cells. The test was repeated and was negative in the presence and absence of metabolic activation. The one positive result for tapentadol was not confirmed in vivo in rats, using the two endpoints of chromosomal aberration and unscheduled DNA synthesis, when tested up to the maximum tolerated dose.

Reference ID: 3490214
Impairment of Fertility
Tapentadol HCl was administered intravenously to male or female rats at dosages of 3, 6, or 12 mg/kg/day (representing exposures of up to approximately 0.56 times in the male rats and 0.50 times in the female rats the exposure at the MRHD on an AUC basis, based on extrapolation from toxicokinetic analyses in a separate 4-week intravenous study in rats). Tapentadol did not alter fertility at any dose level. Maternal toxicity and adverse effects on embryonic development, including decreased number of implantations, decreased numbers of live conceptuses, and increased pre- and post-implantation losses occurred at dosages ≥6 mg/kg/day.

13.2 Animal Toxicology and/or Pharmacology
In toxicological studies with tapentadol, the most common systemic effects of tapentadol were related to the mu-opioid receptor agonist and norepinephrine reuptake inhibition pharmacodynamic properties of the compound. Transient, dose-dependent and predominantly CNS-related findings were observed, including impaired respiratory function and convulsions, the latter occurring in the dog at plasma levels (C_{max}), which are in the range associated with the maximum recommended human dose (MRHD).

14 CLINICAL STUDIES
The efficacy of NUCYNTA® ER was studied in five studies in patients with moderate to severe chronic pain and DPN. Efficacy was demonstrated in one randomized, double-blind, placebo- and active-controlled study in patients with chronic low back pain (LBP), and two randomized, double-blind, placebo-controlled studies in patients with pain related to diabetic peripheral neuropathy (DPN-1 and DPN-2).

14.1 Moderate to Severe Chronic Low Back Pain
In the LBP study, patients 18 years of age or older with chronic low back pain and a baseline pain score of ≥5 on an 11-point numerical rating scale (NRS), ranging from 0 to 10 were enrolled and randomized to 1 of 3 treatments: NUCYNTA® ER, active-control (an extended-release Schedule II opioid analgesic), or placebo.

Patients randomized to NUCYNTA® ER initiated therapy with a dose of 50 mg twice daily for three days. After three days, the dose was increased to 100 mg twice daily. Subsequent titration was allowed over a 3-week titration period to a dose up to 250 mg twice daily, followed by a 12-week maintenance period. There were 981 patients randomized. The mean age of the study population was 50 (range 18 to 89) years; the mean baseline pain intensity score was 8 (SD 1). Approximately half of the patients were opioid-naïve (had not taken opioids during the three months prior to the screening visit).

The number of patients completing the study was 51% in the placebo group, 54% in the NUCYNTA® ER group and 43% in the active-control group. Lack of efficacy was the most common reason for discontinuation among placebo-treated patients (21%), whereas adverse events were the most common reason for discontinuation among the active treatment groups (17% and 32% for NUCYNTA® ER and active-control, respectively).

After 15 weeks of treatment, patients taking NUCYNTA® ER had a significantly greater pain reduction compared to placebo. The proportion of patients with various degrees of improvement is shown in Figure 1.
The figure is cumulative, such that patients, whose change from baseline is, for example 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement.

Figure 1: Percentage of Patients Achieving Various Levels of Improvement in Pain Intensity - Study LBP

1 The last week of Study LBP was Week 15.

14.2 Neuropathic Pain Associated with Diabetic Peripheral Neuropathy

In the two DPN studies, patients 18 years of age or older with pain due to diabetic peripheral neuropathy and a pain score of ≥5 on an 11-point numerical rating scale (NRS) ranging from 0 (no pain) to 10 (worst possible pain) were enrolled. Following an open-label treatment period in which NUCYNTA® ER was administered to all patients for three weeks and titrated to an individually stable dose, patients who had tolerated the drug and demonstrated at least a 1-point improvement in pain intensity on the NRS at the end of the open-label titration period were randomized to either continue the NUCYNTA® ER dose (100 mg to 250 mg twice a day) reached during the open-label titration period, or receive placebo for 12 weeks of maintenance treatment. During the first 4 days of the double-blind maintenance period patients were permitted to take tapentadol ER 25 mg up to two times a day as additional medication. After the first 4 days, patients were allowed to take tapentadol ER 25 mg once daily as needed for pain, in addition to the patient’s assigned study drug. Patients recorded their pain in a diary twice daily.

Study DPN-1: A total of 591 patients entered open-label treatment and 389 patients met the criteria for randomization into the double-blind treatment period. The mean age of the randomized population was 60 (range 29 to 87) years; approximately two-thirds of the patients were opioid-naïve (had not taken opioids during the three months prior to the screening visit).
During the titration period, 34% of patients discontinued open-label NUCYNTA® ER. The most common reasons for discontinuation in the double-blind treatment period were lack of efficacy in the placebo group (14%) and adverse events in the NUCYNTA® ER group (15%).

After 12 weeks of treatment, NUCYNTA® ER provided a significantly greater reduction in pain intensity from baseline to the end of the 12-week double-blind period compared to placebo. Figure 2 displays the proportion of randomized patients achieving various degrees of improvement in pain intensity from the start of the open-label titration period to the last week of the randomized withdrawal period. The figure is cumulative, such that patients, whose change from baseline is, for example 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement.

Figure 2: Percentage of Patients Achieving Various Levels of Improvement in Pain Intensity - DPN-1

Study DPN-2: A total of 459 patients entered open-label treatment and 320 patients met the criteria for randomization into the double-blind treatment period. The mean age of the randomized population was 59 (range 28 to 83) years; approximately two-thirds of the patients were opioid-naïve (had not taken opioids during the three months prior to the screening visit).
During the titration period, 22% of patients discontinued open-label NUCYNTA® ER and 6% of patients were not subsequently randomized because they failed to have at least 1-point improvement in pain intensity. The most common reason for discontinuation in the double-blind treatment period was adverse events in both the placebo group (9%) and the NUCYNTA® ER group (14%).

After 12 weeks of treatment, NUCYNTA® ER provided a significantly greater reduction in pain intensity from baseline to the end of the 12-week double-blind period compared to placebo. Figure 3 displays the proportion of randomized patients achieving various degrees of improvement in pain intensity from the start of the open-label titration period to the last week of the randomized withdrawal period. The figure is cumulative, such that patients, whose change from baseline is, for example 50%, are also included at every level of improvement below 50%. Patients who did not complete the study were assigned 0% improvement.

![Figure 3: Percentage of Patients Achieving Various Levels of Improvement in Pain Intensity-DPN-2](image)

**16 HOW SUPPLIED/STORAGE AND HANDLING**

NUCYNTA® ER tablets are available in the following strengths and packages:

50 mg extended-release tablets are white oblong-shaped with a black print “OMJ 50” on one side and are available in bottles of 60 with child-resistant closure (NDC 50458-860-01) and unit dose blister packs of 100 (10 blister strips of 10 tablets each), for hospital use only (NDC 50458-860-02).

100 mg extended-release tablets are light-blue oblong-shaped with a black print “OMJ 100” on one side and are available in bottles of 60 with child-resistant closure (NDC 50458-861-01) and unit dose blister packs of 100 (10 blister strips of 10 tablets each), for hospital use only (NDC 50458-861-02).
150 mg extended-release tablets are blue-green oblong-shaped with a black print “OMJ 150” on one side and are available in bottles of 60 with child-resistant closure (NDC 50458-862-01) and unit dose blister packs of 100 (10 blister strips of 10 tablets each), for hospital use only (NDC 50458-862-02).

200 mg extended-release tablets are blue oblong-shaped with a depression in the middle running lengthwise on each side and with a black print “OMJ 200” on one side, and are available in bottles of 60 with child-resistant closure (NDC 50458-863-01) and unit dose blister packs of 100 (10 blister strips of 10 tablets each), for hospital use only (NDC 50458-863-02).

250 mg extended-release tablets are dark blue oblong-shaped with a depression in the middle running lengthwise on each side and with a white print “OMJ 250” on one side, and are available in bottles of 60 with child-resistant closure (NDC 50458-864-01) and unit dose blister packs of 100 (10 blister strips of 10 tablets each), for hospital use only (NDC 50458-864-02).

**Storage and Handling**
Store up to 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature].

Protect from moisture.

Keep NUCYNTA® ER in a secure place out of reach of children.

NUCYNTA® ER tablets that are no longer needed should be destroyed by flushing down the toilet.

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

*Addiction, Abuse, and Misuse*
Inform patients that the use of NUCYNTA® ER, even when taken as recommended, can result in addiction, abuse, and misuse, which can lead to overdose or death [see Warnings and Precautions (5.1)]. Instruct patients not to share NUCYNTA® ER with others and to take steps to protect NUCYNTA® ER 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 NUCYNTA® ER or when the dose is increased, and that it can occur even at recommended doses [see Warnings and Precautions (5.2)]. Advise patients how to recognize respiratory depression and to seek medical attention if breathing difficulties develop.

*Accidental Ingestion*
Inform patients that accidental ingestion, especially by children, may result in respiratory depression or death [see Warnings and Precautions (5.2)]. Instruct patients to take steps to store NUCYNTA® ER securely and to dispose of unused NUCYNTA® ER by flushing the tablets down the toilet.
Neonatal Opioid Withdrawal Syndrome
Inform female patients of reproductive potential that prolonged use of NUCYNTA® ER during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated [see Warnings and Precautions (5.3)].

Interactions with Alcohol 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 NUCYNTA® ER. The co-ingestion of alcohol with NUCYNTA® ER may result in increased plasma tapentadol levels and a potentially fatal overdose of tapentadol [see Warnings and Precautions (5.4)].

Inform patients that potentially serious additive effects may occur if NUCYNTA® ER is used with alcohol or other CNS depressants, and not to use such drugs unless supervised by a health care provider.

Concurrent use of MAOI
Inform patients not to take NUCYNTA® ER while using any drugs that inhibit monoamine oxidase. Patients should not start MAOIs while taking NUCYNTA® ER.

Seizures
Inform patients that NUCYNTA® ER could cause seizures if they are at risk for seizures or have epilepsy. Patients should be advised to stop taking NUCYNTA® ER if they have a seizure while taking NUCYNTA® ER and call their healthcare provider right away.

Serotonin Syndrome
Inform patients that NUCYNTA® ER could cause a rare but potentially life-threatening condition resulting from concomitant administration of serotonergic drugs (including Serotonin Reuptake Inhibitors, Serotonin and Norepinephrine Reuptake Inhibitors and tricyclic antidepressants). 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 additional medications including CNS Depressants, MAO inhibitors, mixed agonists/antagonist opioid analgesics, anticholinergics, SSRIs, SNRIs, or tricyclic antidepressants.

Important Administration Instructions
Instruct patients how to properly take NUCYNTA® ER, including the following:

- Swallowing NUCYNTA® ER tablets whole
- Not cutting, crushing, chewing, or dissolving the tablets
- Using NUCYNTA® ER exactly as prescribed to reduce the risk of life-threatening adverse reactions (e.g., respiratory depression)
- Not discontinuing NUCYNTA® ER without first discussing the need for a tapering regimen with the prescriber
• To take each tablet with enough water to ensure complete swallowing immediately after placing in mouth.

**Hypotension**
Inform patients that NUCYNTA® ER 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).

**Driving or Operating Heavy Machinery**
Inform patients that NUCYNTA® ER 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.

**Constipation**
Advise patients of the potential for severe constipation, including management instructions and when to seek medical attention.

**Anaphylaxis**
Inform patients that anaphylaxis has been reported with ingredients contained in NUCYNTA® ER. Advise patients how to recognize such a reaction and when to seek medical attention.

**Pregnancy**
Advise female patients that NUCYNTA® ER can cause fetal harm and to inform the prescriber if they are pregnant or plan to become pregnant.

**Disposal of Unused NUCYNTA® ER**
Advise patients to flush the unused tablets down the toilet when NUCYNTA® ER is no longer needed.

Manufactured by:
Janssen Ortho, LLC
Gurabo, PR 00778

Manufactured for:
Janssen Pharmaceuticals, Inc.
Titusville, NJ 08560

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NUCYNTA® ER is:

• A strong prescription pain medicine that contains an opioid (narcotic) that is used to manage pain severe enough to require daily around-the-clock, long-term treatment with an opioid, when other pain treatments such as non-opioid pain medicines or immediate-release opioid medicines do not treat your pain well enough or you cannot tolerate them.

• Also used to manage pain from damaged nerves (neuropathic pain) that happens with diabetes and is severe enough to require daily around-the-clock, long-term treatment with an opioid, when other pain treatments such as non-opioid 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 used to treat pain that is not around-the-clock pain.

Important information about NUCYNTA® ER:

• Get emergency help right away if you take too much NUCYNTA® ER (overdose). When you first start taking NUCYNTA® ER, 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.

• Never give anyone your NUCYNTA® ER. They could die from taking it. Store NUCYNTA® ER away from children and in a safe place to prevent stealing or abuse. Selling or giving away NUCYNTA® ER is against the law.

Do not take NUCYNTA® ER if you have:

• severe asthma, trouble breathing, or other lung problems.

• a bowel blockage or have narrowing of the stomach or intestines.

Before taking NUCYNTA® ER, tell your healthcare provider if you have a history of:

• head injury, seizures

• problems urinating

• abuse of street or prescription drugs, alcohol addiction, or mental health problems.

Tell your healthcare provider if you are:

• pregnant or planning to become pregnant. Prolonged use of NUCYNTA® ER during pregnancy can cause withdrawal symptoms in your newborn baby that could be life-threatening if not recognized and treated.

• breastfeeding. NUCYNTA® ER passes into breast milk and may harm your baby.

• taking prescription or over-the-counter medicines, vitamins, or herbal supplements. Taking NUCYNTA® ER with certain other medicines can cause serious side effects.

When taking NUCYNTA® ER:

• Do not change your dose. Take NUCYNTA® ER exactly as prescribed by your healthcare provider.

• Take your prescribed dose every 12 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 NUCYNTA® ER whole. Do not cut, break, chew, crush, dissolve, snort, or inject NUCYNTA® ER because this may cause you to overdose and die.

• Call your healthcare provider if the dose you are taking does not control your pain.

• Do not stop taking NUCYNTA® ER without talking to your healthcare provider.

• After you stop taking NUCYNTA® ER, flush any unused tablets down the toilet.

While taking NUCYNTA® ER DO NOT:

• Drive or operate heavy machinery until you know how NUCYNTA® ER affects you. NUCYNTA® ER can make you sleepy, dizzy, or lightheaded.

• Drink alcohol, or use prescription or over-the-counter medicines containing alcohol. Using products containing alcohol during treatment with NUCYNTA® ER may cause you to overdose and die.

The possible side effects of NUCYNTA® ER 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 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, or you are feeling faint.

• agitation, hallucinations, coma, feeling overheated, or heavy sweating.

These are not all the possible side effects of NUCYNTA® ER. Call your doctor 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


Reference ID: 3490214