## Osteoporosis Treatment Guidance Changing

BY JOYCE FRIEDEN

Associate Editor, Practice Trends

CHICAGO — Endocrinologists are "behind the curve" when it comes to treating osteoporosis, Dr. Nelson B. Watts said at the annual meeting of the American Association of Clinical Endocrinologists.

There is roughly the same number of rheumatologists as endocrinologists in the United States," said Dr. Watts, director of the osteoporosis and bone health program at the University of Cincinnati. "In academic centers, endocrinologists are often the 'boneheads,' but in clinical practice, rheumatologists compared with endocrinologists are twice as fast as we are in taking up ownership of densitometry or prescribing osteoporosis drugs.

Osteoporosis groups are "in pretty good agreement" on several of the guidelines for treatment of the disorder, according to Dr. Watts, who consults for and receives grants from a number of pharmaceutical companies. "The National Osteoporosis Foundation, AACE, and the North American Menopause Society are all in agreement that patients with T scores of -1.5 or above are rarely candidates for pharmacologic treatment," he said. "And they all agree that those with T scores of -2.5 or below should be treated even in the absence of risk factors. It's that zone in between where there's disagreement."

The National Osteoporosis Foundation says that if the patient has risk factors for

osteoporosis—such as previous fractures and advanced age—and her T score is between -1.5 and -2, the physician should go ahead and treat the patient. The doctor also should treat the patient if the T score is –2 or below, even in the absence of risk factors, the foundation says. AACE suggests treating patients whose T scores are between -1.5 and -2.5 only if risk factors are present, while the North American Menopause Society advocates no treatment if the T score is between -1.5 and -2 but suggests that patients between -2 and –2.5 should be treated if risk factors are present, Dr. Watts said.

How should physicians handle this "gray zone"? The problem with treating only patients with T scores of -2.5 or below "is that there are patients above -2.5 who actually have a fairly high 10-year probability of fracture, and unless we're smart enough to know by intuition what the right risk factors are, many of those patients aren't being treated," said Dr. Watts.

The most recent thinking is toward moving away from T scores to something called "absolute fracture risk" or "absolute fracture probability," he continued. "This will consider bone density, but in countries that have little or no access to bone density [measurement], this will be based solely on clinical risk factors." In addition to age and history of fractures, other risk factors that are likely to be included are corticosteroid use, cigarette smoking, alcohol use, and rheumatoid arthritis. Also, patients who self-rate their health as poor or fair are almost twice as likely to fracture as are those who say their health is good or excellent.

Dr. Watts offered these tips on managing patients with a high fracture risk:

► Consider hip protectors and assistive devices. There are conflicting data on whether using hip protectors reduces the risk of fracture. But physicians who are interested in recommending them can easily find them on the Internet.

▶ Be judicious with pharmacologic therapy. Dr. Watts said bone drugs such as alendronate, raloxifene, ibandronate, risedronate, and calcitonin are only shown to reduce the risk of fracture in patients with low bone density, and are not appropriate if the risk is due to poor eyesight, poor hearing, poor balance, and muscle weakness.

► Advocate exercise. "Weight-bearing exercise is important," he said. "I recommend patients walk for 30-40 minutes a session, 3-4 sessions per week."

▶ Remember that when it comes to calcium, more is not always better. The optimal calcium intake is 1,200 mg per day for adults aged 50 and older, he noted. The average adult gets only half of what is needed from the diet, so most people do need a supplement; 700-1,000 mg per day should be adequate. But many people take too much. "I see patients who are taking in 3,000-3,500 mg of calcium per day. So I spend a fair amount of time telling patients to take less calcium by way of supplements, rather than more.

Consider recommending vitamin D. "An adequate 25-hydroxyvitamin D level is 30 ng/mL or more," he said. "Many patients require 1,000-2,000 IU of vitamin D per day to achieve this level."

## ULTRAM® ER

Is, only

BRIEF SUMMARY. CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION.

MDICATIONS AND USAGE: ULTRAM ER is indicated for the management of moderate to moderately severe chronic pain in adults who require around-the-clock treatment of their pain for an extended period of time.

CONTRAINDICATIONS: ULTRAM ER should not be administered to patients who have previously demonstrated hypersensitivity to tramadol, any other component of this product or opioids. ULTRAM ER is contraindicated in any situation where opioids are contraindicated, including acute intoxication with any of the following: alcohol, hypnotics, narrotics, centrally acting analgesics, opioids or psychotrogrups. ULTRAM ER may worsen central nervous system and respiratory depression in these patients.

drugs. ULIRAM EH may worsen central nervous system and respiratory depression in these patients. WARNINGS: Seizure Risk: Seizures have been reported in patients receiving tramadol within the recommended dosage range. Spontaneous post-marketing reports indicate that seizure risk is increased with doses of tramadol above the recommended range. Concomitant use of tramadol increases the seizure risk in patients taking: 1. Selective serotonin re-uptake inhibitors (SSRI antidepressants or anorectics), 2. Tricyclic antidepressants (TCAs), and other tricyclic compounds (e.g., cyclobenzgarine, promethazine, etc.), or 3. Other opioids. Administration of tramadol may enhance the seizure risk in patients taking: 1. MAO inhibitors (see also WARNINGS - Use with MAO Inhibitors), 2. Neuroleptics, or 3. Other drugs that reduce the seizure threshold. Risk of convulsions may also increase in patients with epilepsy, those with a history of seizures, or in patients with a recognized risk for seizure (such as head trauma, metabolic disorders, alcohol and drug withdrawal, CNS infections). In tramadol overdose, naloxone administration may increase the risk of seizure.

may increase the risk of seizure.

Suicide Risk: 1. Do not prescribe ULTRAM ER for patients who are suicidal or addiction-prone. 2. Prescribe ULTRAM ER with caution for patients taking tranquilizers or antidepressant drugs and patients who use alcohol in excess. 3. Tell your patients not to exceed the recommended dose and to limit their intake of alcohol.

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Tramadol products in excessive doses, either alone or in combination with other CNS depressants, including alcohol, are a major cause of drug-related deaths. Fatalities within the first hour of overdosage are not uncommon. Tramadol should not be taken in doses higher than those recommended by the physician. The judicious prescribing of tramadol is essential to the safe use of this drug. With patients who are depressed or suicidal, consideration should be given to the use of non-narcotic analgesics. Patients should be cautioned about the concomitant use of tramadol products and alcohol because of potentially serious CNS-additive effects of these agents. Because of its added depressant effects, tramadol should be prescribed with caution for those patients whose medical condition requires the concomitant administration of sedatives, tranquilizers, muscle relaxants, antidepressants, or other CNS-depressant drugs. Patients should be advised of the additive depressant effects of these combinations. Many of the tramadol-related deaths have occurred in patients with previous histories of emotional disturbances or suicidal ideation or attempts as well as histories of emotional disturbances or suicidal ideation or attempts as well as histories of emotional disturbances or suicidal ideation or attempts as well as histories of misuse of tranquilizers, alcohol, and other CNS-active drugs. Some deaths have occurred as a consequence of the accidental ingestion of excessive quantities of tramadol alone or in combination with other drugs. Patients taking tramadol should be warned not to exceed the dose recommended by their physician.

Anaphylactoid Reactions: Serious and rarely fatal anaphylactoid reactions have been reported in patients receiving therapy with tramadol. When these events do occur it is often following the first dose. Other reported allergic

Interaction With Central Nervous System (CNS) Depressants: ULTRAM ER should be used with caution and in reduced dosages when administered to snould be used with caution and in reduced dosages when administered to patients receiving CNS depressants such as alcohol, opioids, anesthetic agents, narcotics, phenothiazines, tranquilizers or sedative hypnotics. ULTRAM ER increases the risk of CNS and respiratory depression in these patients.

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Increased Intracranial Pressure or Head Trauma: ULTRAM ER should be used with caution in patients with increased intracranial pressure or head injury. The respiratory depressant effects of opioids include carbon dioxide retention and secondary elevation of cerebrospinal fluid pressure, and may be markedly exaggerated in these patients. Additionally, pupillary changes (miosis) from tramadol may obscure the existence, extent, or course of intracranial pathology. Clinicians should also maintain a high index of suspicion for adverse drug reaction when evaluating altered mental status in these patients if they are receiving ULTRAM ER (see WARNINGS - Respiratory Depression).

Use in Ambulatory Patients: ULTRAM ER may impair the mental and or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. The patient using this drug should be cautioned accordingly.

cautioned accordingly. **Use With MAD (Inhibitors and Serotonin Re-uptake Inhibitors:** Use ULTRAM ER with great caution in patients taking monoamine oxidase inhibitors. Animal studies have shown increased deaths with combined administration. Concomitant use of ULTRAM ER with MAD (inhibitors or SSRIs increases the risk of adverse events, including seizure and serotonin syndrome.

studies have shown increased deaths with combined administration. Concomitant use of ULTRAM ER with Mol inhibitors or SSRIs increases the risk of adverse events, including seizure and serotonin syndrome.

Withdrawal: Withdrawal symptoms may occur if ULTRAM ER is discontinued abruptly. These symptoms may include: anxiety, sweating, insomnia, rigors, pain, nausea, tremors, diarrhea, upper respiratory symptoms, piloerection, and rarely hallucinations. Clinical experience suggests that withdrawal symptoms may be reduced by tapering ULTRAM ER.

Misuse, Abuse and Diversion of Opioids: Tramadol is an opioid agonist of the morphine-type. Such drugs are sought by drug abusers and people with addiction disorders and are subject to criminal diversion. Tramadol can be abused in amanner similar to other opioid agonists, legal or illicit. This should be considered when prescribing or dispensing ULTRAM ER in situations where the physician or pharmacist is concerned about an increased risk of misuse, abuse, or diversion. ULTRAM ER could be abused by crushing, chewing, snorting, or injecting the dissolved product. These practices will result in the uncontrolled delivery of the opioid and pose a significant risk to the abuser that could result in overdose and death (see WARNINGS and DRUG ABUSE AND ADDICTION). Concerns about abuse, addiction, and diversion should not prevent the proper management of pain. The development of addiction to opioid analgesics in properly managed patients with pain has been reported to be rare. However, data are not available to establish the true incidence of addiction in chronic pain patients. Healthcare professionals should contact their State Professional Licensing Board, or State Controlled Substances Authority for information on how to prevent and detect abuse or diversion of this product.

Interactions with Alcohol and Drugs of Abuse: Tramadol may be expected to have additive effects when used in conjunction with alcohol, other opioids, or illicit drugs that cause central nervous system depressi

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 physician(s). "Doctor shopping" to obtain additional prescriptions is common among drug abusers and people suffering from untreated addiction. 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 and is characterized by misuse for non-medical purposes, often in combination with other psychoactive substances. ULTRAM ER, like other opioids, may be diverted for non-medical use. Careful record-keeping of prescribing information, including quantity, frequency, and renewal requests 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.

ULTRAM ER, is intended for oral use only. The crushed tablet poses a hazard of overdose and death. This risk is increased with concurrent abuse of alcohol and other substances. With parenteral abuse, the tablet excipients can be expected to result in local tissue necrosis, infection, pulmonary granulomas, and increased risk of endocarditis and valvular heart injury. Parenteral drug abuse is commond associated with transmission of infectious diseases such as hepatitis and HIV.

Risk of Overdosage: Serious potential consequences of overdosage with ITRAM ER are central enqus system devenues.

Risk of Overdosage: Serious potential consequences of overdosage with ULTRAM ER are central nervous system depression, respiratory depression and death. In treating an overdose, primary attention should be given to maintaining adequate ventilation along with general supportive treatment (see OVERDOSAGE).

adequate ventilation along with general supportive treatment (see OVERDOSAGE).

Use in Renal and Hepatic Disease: Impaired renal function results in a decreased rate and extent of excretion of tramadol and its active metabolite, M1.

ULTRAM ER has not been studied in patients with severe renal impairment (CLcr < 30 ml/min). The limited availability of does strengths and once daily dosing of ULTRAM ER do not permit the dosing flexibility required for safe use in patients with severe renal impairment. Therefore, ULTRAM ER should not be used in patients with severe renal impairment. See CLINICAL PHARMACOLORY in full Prescribing Information and DOSAGE AND ADMINISTRATION). Metabolism of tramadol and M1 is reduced in patients with advanced cirrhosis of the liver. The pharmacokinetics of ULTRAM ER has not been studied in patients with severe hepatic impairment. The limited availability of dose strengths and once daily dosing of ULTRAM ER do not permit the dosing flexibility required for safe use in patients with severe hepatic impairment. Therefore, ULTRAM ER should not be used in patients with severe hepatic impairment (see CLINICAL PHARMACOLOGY in full Prescribing information and DOSAGE AND ADMINISTRATION).

PRECAUTIONS: Acute Abdominal Condition: The administration of ULTRAM ER may complicate the clinical assessment of patients with acute abdominal conditions. INFORMATION FOR PATIENTS: 1. Patients should be informed that ULTRAM ER is

may complicate the clinical assessment of patients with acute abdominal conditions. INFORMATION FOR PATIENTS: 1. Patients should be informed that ULTRAM ER is for oral use only and should be swallowed whole. The tablets should not be chewed, crushed, or split. 2. Patients should be informed that ULTRAM ER may impair mental or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. 3. Patients should be informed that ULTRAM ER should not be taken with alcohol containing beverages. 4. Patients should be informed that ULTRAM ER should be used with caution when taking medications such as tranquilizers, hypnotics or other opiate containing analgesics. 5. Female patients should be instructed to inform the prescriber if they are pregnant, think they might become pregnant, or are trying to become pregnant (see PRECAUTIONS, Labor and Delivery). 6. Patients should be educated regarding the single-dose and 24-hour dosing regimen, as exceeding these recommendations can result in respiratory depression, seizures or death. Use in Drug and Alcohol Addiction: ULTRAM ER is an opioid with no approved Use in Drug and Alcohol Addiction: UTRAM En is an opiniod with no approved use in the management of addictive disorders. Its proper usage in individuals with drug or alcohol dependence, either active or in remission, is for the management of polici analyses.

Drug Interactions: Use With Carbamazepine: Patients taking carbamazepine, a CVP3A4 inducer, may have a significantly reduced analgesic effect of tramadol. Because carbamazepine increases tramadol metabolism and because of the seizure risk associated with tramadol, concomitant administration of ULTRAM ER and carbamazepine is not recommended.

and carbanazepine is no recommended.

Wes With Quinidine: Coadministration of quinidine with ULTRAM ER resulted in a 50-60% increase in tramadol exposure and a 50-60% decrease in M1 exposure (see CLINICAL PHARMACOLOGY, Drug Interactions in full Prescribing Information). The clinical consequences of these findings are unknown.

Use With MAO Inhibitors: Interactions with MAO Inhibitors, due to interference with detoxification mechanisms, have been reported for some centrally acting drugs (see WARNINGS, Use With MAO Inhibitors and Serotonin Re-uptake Inhibitors)

(see WARNINGS, Use With MAO Inhibitors and Serotonin Re-uptake Inhibitors). Use With Digoxin and Warfarin: Post-marketing surveillance of tramadol has revealed rare reports of digoxin toxicity and alteration of warfarin effect, including elevation of prothrombin times.

Potential for Other Drugs to Affect Tramadol: In vitro drug interaction studies in human liver microsomes indicate that concomitant administration with inhibitors of CYP2D6 such as fluoxetine, paroxetine, and amitriplyline could result in some inhibition of the metabolism of tramadol. Administration of CYP3A4 inhibitors, such as ketoconazole and erythromycin, or inducers, such as rifampin and St. John's Wort, with ULTRAM ER may affect the metabolism of tramadol leading to altered tramadol exposure.

Potential for Tramadol to Affect Other Drugs: In vitro drug interaction studies in human liver microsomes indicate that tramadol has no effect on quinibilite metabolism. In vitro studies indicate that tramadol is unlikely to inhibitit the

mannan nver microsomes indicate that tramadol has no effect on quinidine tabolism. In vitro studies indicate that tramadol is unlikely to inhibit the 79A4-mediated metabolism of other drugs when administered concomitantly therapeutic doses. Tramadol is a mild inducer of selected drug metabolism

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY: No CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY acraning on a carcinogenic effect of tramadol was observed in p53(4-4-)-heterozygous nice at oral doses up to 150 mg/kg/day (approximately 2-fold maximum daily human dose MDHD) of 400 mg/kg/d for a 60 kg adult based on body surface conversion for 26 weeks and in rats at oral doses up to 75 mg/kg/day for males and 100 mg/kg/day for females (approximately 2-fold MDHD) for two years. However, the excessive decrease in body weight gain observed in the rat study might have reduced their sensitivity to any potential carcinogenic effect of the drug. Tramadol was not mutagenic in the following assays: a bacterial reverse mutation assay using Salmonella and E. coli, a mouse lymphoma assay (in the absence of metabolic activation), and a bone marrow micronucleus test in mice. Mutagenic results occurred in the presence of metabolic activation in the mouse lymphoma assay. Overall, the weight of evidence from these tests indicates that tramadol does not pose a genotoxic risk to humans. No effects on fertility were observed for tramadol at oral dose levels up to 50 mg/kg/day in male and female rats (approximately equivalent to MDHD).

Pregnancy: Teratogenic Effects: Pregnancy Category C: Tramadol was not

(approximately equivalent to MDHD).

Pregnancy: Tractagenic Effects: Pregnancy Category C: Tramadol was not teratogenic at oral dose levels up to 50 mg/kg/day (approximately equivalent to MDHD) in rats and 100 mg/kg (approximately 5-fold MDHD) in rabbits during organogenesis. However, embryo-fetal lethality, reductions in fetal weight and skeletal ossification, and increased supernumerary ribs were observed at a maternal toxic dose of 140 mg/kg in mice (approximately 2-fold MDHD). 80 mg/kg in rats (2-fold MDHD) or 300 mg/kg in rabbits (approximately 15-fold MDHD).

Mon-teratogenic Effects: Transaclo caused a reduction in neonatal body weight and survival at an oral dose of 80 mg/kg (approximately 2-fold MDHD) when rats were treated during late gestation throughout lactation period. There are no adequate and well-controlled studies in pregnant women. ULTRAM ER should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Neonatal scizures, neonatal withdrawal syndrome, fetal death and still birth have been reported during post-marketing reports with tramadol HCl immediate-release products. Labor and Delivery: ULTRAM ER should not be used in pregnant women prior to or during labor unless the potential benefits outweigh the risks. Safe use in pregnancy has not been established. Chronic use during pregnancy may lead to physical dependence and post-partum withdrawal symptoms in the newborn (see

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RUG ABUSE AND ADDICTION). Tramadol has been shown to cross ne mean ratio of serum tramadol in the umbilical veins compare eins was 0.83 for 40 women treated with tramadol HCl during lab

rier mean rauu oi serum tramaooi in the umoliical veins compared to maternal veins was 0.38 for 40 women treated with tramadol HCI during labor. The effect of ULTRAM ER, if any, on the later growth, development, and functional maturation of the child is unknown.

Nursing Mothers: ULTRAM ER is not recommended for obstetrical preoperative medication or for post-delivery analgesia in nursing mothers because its safety in infants and newborns has not been studied. Following a single IV 100-mg dose of tramadol, the cumulative excretion in breast milk within sixteen hours postdose was 100 µg of tramadol (0.1% of the maternal dose) and 27 µg of M1.

Pediatric Use: The safety and efficacy of ULTRAM ER in patients under 18 years of age have not been established. The use of ULTRAM ER in the pediatric population is not recommended.

Geriatric Use: Nine-hundred-one elderly (65 years of age or older) subjects were exposed to ULTRAM ER in clinical trials. Of those subjects, 156 were 75 years of age and older. In general, higher incidence rates of adverse events were observed for patients older than 65 years of age compared with patients 65 years and younger, particularly for the following adverse events: constipation, ratigue, evalences, postural hypotension and dyspepsia. For this reason, ULTRAM ER should be used with great caution in patients older than 75 years of age (see CLINICAL PHARMACOLOGY in full Prescribing Information and DOSAGE AND DAMINISTRATION).

ADVERSE REACTIONS: ULTRAM ER was administered to a total of 3108 patients

great cauton in patients outer than 7 years or age; see "CLINICA" PTAINMECTOR' In full Prescribing Information and DOSAGE AND ADMINISTRATION).

ADVERSE REACTIONS: ULTRAM ER was administered to a total of 3108 patients uring studies conducted in the U.S. These included four double-blind studies in patients with osteoarthritis and/or chronic low back pain and one open-label study in patients with chronic non-malignant pain; an A total of 901 patients were 65 years or older. Adverse events increased with dose from 100 mg to 400 mg in the two pooled, twelve-week, randomized, double-blind, placebo-controlled studies a patients with chronic non-malignant pain (see Table 1). Table 1: Incidence (%) of patients with diverse event rates ≥ 5% from two 12-week placebo-controlled studies in patients with moderate to moderately severe chronic pain by dose. MedDRA Preferred Term first; followed by ULTRAM ER 100 mg (N=400) n (%) second; ULTRAM ER 400 mg (N=202) n (%) fifth; and Placebo-controlled studies in patients with moderate to moderately severe chronic pain by dose. MedDRA Preferred Term first; followed by ULTRAM ER 100 mg (N=400) n (%) second; ULTRAM ER 400 mg (N=202) n (%) fifth; and Placebo (M=400) n (%) second; ULTRAM ER 400 mg (N=202) n (%) fifth; and Placebo (M=400) n (%) second; ULTRAM ER 300 mg (N=400) n (%) sixth: Dizziness (not vertigo); 64 (15.9) a1 (20.3) s 12 (23.9) 3 (22.) 5; (28.2), 28 (6.9); Nausea: 61 (15.1) 90 (22.5), 150 (25.5), 53 (26.2), 32 (7.9); Constipation: 49 (12.2), 68 (17.0), 85 (21.3), 60 (29.7), 17 (4.2); Somnolence: 33 (8.2), 45 (11.3), 29 (7.3), 41 (20.3), 7 (1.7); Flushing; 31 (7.7), 40 (10.0), 35 (8.8), 32 (15.8), 13 (3.2); Asthenia: 14 (3.5), 24 (6.0), 26 (6.5), 32 (8.0), 36 (0.0), 36 (0.0), 25 (10.9), 13 (3.2); Asthenia: 14 (3.5), 24 (6.0), 26 (6.5), 31 (8.0), 7 (1.7); Postural hypotension; 7 (1.7), 17 (4.3), 8 (2.0), 11 (5.4), 9 (2.2); Merexia: 3 (0.7), 7 (1.8), 10 (2.0); Dispora; documents with incidence rates of 1.0% to 4.50%. Eye disorders: dominical plan upper, dyspepsia, addomin ADVERSE REACTIONS: ULTRAM ER was administered to a total of 3108 patients during studies conducted in the U.S. These included four double-blind studies in

cougn, sneezing; skin and subcutaneous tissule aisoraers: weating increased, dermatitis; Vascular disorders; postural hypotension, hot flashes, vasodilatation. 
Adverse events with incidence rates <1.0%: Cardiac disorders: palpitations, myocardial infarction; Ear and labyrinth disorders: tinnitus; Castrointestinal disorders: flatulence, constipation aggravated, toothache, pancreatitis; General disorders: fleeling jittery, oedema lower limb, shivering, joint swelling, malaise, drug withdrawal syndrome, peripheral swelling; Hepato-bilingry disorders: cholelithiasis, cholecystitis; Infactions and infestations: appendicitis, cellulitis, ear infection, gastroenteritis, Infactions and infestations: appendicitis, cellulitis, ear infection, gastroenteritis, Infections and infestations: appendicitis, cellulitis, ear infection, gastroenteritis, increased, blood pressure increased, alanine aminotransferease, aspartate aminotransferance, increased, blood glucose increased, dipit decreased, Musculoskeletal, connective tissue and bone disorders: joint stiffness, myalgia, muscle cramps, muscle styliching, ostecantfritis aggravated, Vervous system disorders: migraine, syncope, disturbance in attention, dizziness aggravated, vertigo, sedation, Psychiatric disorders: irritability, libido decreased, euphoric mood, sleep disorder, signitation, disorientation, abnormal dreams; Renal and urinary disorders: difficulty in micturition, urinary frequency, urinary retention, dysuria, haematuria; Respiratory, thoracic and mediastinal disorders: yawning; Skin and subcutaneous tissue disorders: contusion, clamminess, night sweats, urticaria, piloerection; Vascular disorders: hypertension, peripheral ischaemia.

contusion, ciammiess, night sweats, urticana, piloerection; vascular disorders: hypertension aggravated, hypertension, peripheral ischaemia.

OVERDOSAGE: Acute overdosage with tramadol can be manifested by respiratory depression, somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, constricted pupils, bradycardia, hypotension, and death. Deaths due to overdose have been reported with abuse and misuse of tramadol, by ingesting, inhaling, or injecting the crushed tablets. Review of case reports has indicated that the risk of fatal overdose is further increased when tramadol is abused concurrently with alcohol or other CNS depressants, including other opioids. In the treatment of tramadol overdosage, primary attention should be given to the re-establishment of a patent airway and institution of assisted or controlled ventilation. Supportive measures (including oxygen and vasopressors) should be employed in the management of circulatory shock and pulmonary edema accompanying overdose as indicated. Cardiac arrest or arrhythmias may require cardiac massage or defibrillation. While naloxone will reverse some, but old, symptoms caused by overdosage with tramadol, the risk of seizures is also increased with naloxone administration. In animals convulsions following the administration of toxic doses of ULTRAM ER could be suppressed with barbiturates or benzodiazepines but were increased with naloxone. Naloxone administration did not change the lethality of an overdose in mice. Hemodialysis is not expected to be helpful in an overdose because it removes less than 7% of the administrationed dose in a 4-hour dialysis period.

DOSAGE AND ADMINISTRATION: LLTRAM ER should not be used in patients with:

is not expected to be helpful in an overdose because it removes less than 7% of the administered dose in a 4-hour dialysis period.

DOSAGE AND ADMINISTRATION: ULTRAM ER should not be used in patients with: 1. creatinine clearance less than 30 mL/min, 2. severe hepatic impairment (Child-Pugli Classe). Clic See WARNINGS, Use in Renal and Hepatic Disease). ULTRAM ER must be swallowed whole and must not be chewed, crushed, or split (see WARNINGS, Misuse, Abuse and Diversion of Opioids and DRUG ABUSE AND ADDICTION). Adults (18 years of age and over): ULTRAM ER should be initiated at a dose of 100 mg once daily and titrated up as necessary by 100-mg increments every five days to relief of pain and depending upon tolerability. ULTRAM ER should not be administered at a dose exceeding 300 mg per day. Individualization of Dose: Good pain management practice dictates that the dose be individualized according to patient need using the lowest beneficial dose. Start at the lowest possible dose and titrate upward as tolerated to achieve an adequate effect. Clinical studies of ULTRAM ER have not demonstrated a clinical benefit at a total daily dose exceeding 300 mg. In general, dosing of an elderly patient (over 65 years of age) should be initiated cautiously, 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. ULTRAM ER should be administered with even greater requiency of adverse events seen in this population.

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