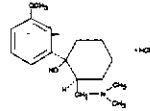


N 75964

TRAMADOL HYDROCHLORIDE TABLETS
50 mg
Rx only

DESCRIPTION

Tramadol hydrochloride tablet is a centrally acting analgesic. The chemical name for tramadol hydrochloride is (±)-2-(4-(dimethylamino)methyl-1-(3-methoxyphenyl) cyclohexanol) hydrochloride. Its structural formula is:



Molecular formula is $C_{18}H_{25}NO_2 \cdot HCl$. The molecular weight of tramadol hydrochloride is 299.8. Tramadol hydrochloride is a white, bitter, crystalline and odorless powder. It is readily soluble in water and ethanol and has a pKa of 3.41. The n-octanol/water log partition coefficient (logP) is 1.35 at pH7. Tramadol hydrochloride tablets for oral administration contain 50 mg of tramadol hydrochloride. In addition, each tablet contains the following inactive ingredients: pregelatinized starch, hydroxypropyl methylcellulose, lactose anhydrous, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, titanium dioxide, iron oxide yellow, iron oxide black and iron oxide red.

CLINICAL PHARMACOLOGY

Pharmacodynamics
Tramadol hydrochloride is a centrally acting synthetic opioid analgesic. Although its mode of action is not completely understood, from animal tests, at least two complementary mechanisms appear applicable: binding of parent and M1 metabolite to μ -opioid receptors and weak inhibition of reuptake of norepinephrine and serotonin.

Opioid activity is due to both low affinity binding of the parent compound and higher affinity binding of the O-demethylated metabolite M1 to μ -opioid receptors. In animal models, M1 is up to 8 times more potent than tramadol in producing analgesia and 200 times more potent in μ -opioid binding. Tramadol-induced analgesia is only partially antagonized by the opiate antagonist naloxone in several animal tests. The relative contribution of both tramadol and M1 to human analgesia is dependent upon the plasma concentrations of each compound (see CLINICAL PHARMACOLOGY, Pharmacokinetics).

Tramadol has been shown to inhibit reuptake of norepinephrine and serotonin *in vitro*, as have some other opioid analgesics. These mechanisms may contribute independently to the overall analgesic profile of tramadol hydrochloride tablets. Analgesia in humans begins approximately within one hour after administration and reaches a peak in approximately two to three hours.

Apart from analgesia, tramadol hydrochloride tablets administration may produce a constellation of symptoms (including dizziness, somnolence, nausea, constipation, sweating and pruritus) similar to that of other opioids. In contrast to morphine, tramadol has not been shown to cause histamine release. At therapeutic doses, tramadol hydrochloride tablets have no effect on heart rate, left-ventricular function or cardiac index. Orthostatic hypotension has been observed.

Pharmacokinetics

The analgesic activity of tramadol hydrochloride tablets is due to both parent drug and the M1 metabolite (see CLINICAL PHARMACOLOGY, Pharmacodynamics). Tramadol is administered as a racemate and both the (-) and (+) forms of both tramadol and M1 are detected in the circulation. Tramadol is well absorbed orally with an absolute bioavailability of 75%. Tramadol has a volume of distribution of approximately 2.7 L/kg and is only 20% bound to plasma proteins. Tramadol is extensively metabolized by a number of pathways, including CYP2D6 and CYP3A4, as well as by conjugation of parent and metabolites. One metabolite, M1, is pharmacologically active in animal models. The formation of M1 is dependent on CYP2D6 and as such is subject to inhibition which may affect the therapeutic response (see PRECAUTIONS-Drug Interactions). Tramadol and its metabolites are excreted primarily in the urine with observed plasma half-lives of 8.3 and 7.4 hours for tramadol and M1, respectively. Linear pharmacokinetics have been observed following multiple doses of 50 and 100 mg to steady-state.

Absorption

Racemic tramadol is rapidly and almost completely absorbed after oral administration. The mean absolute bioavailability of a 100 mg oral dose is approximately 75%. The mean peak plasma concentration of racemic tramadol and M1 occurs at two and three hours, respectively, after administration in healthy adults. In general, both enantiomers of tramadol and M1 follow a parallel time course in the body following single and multiple doses although small differences (~10%) exist in the absolute amount of each enantiomer present.

Steady-state plasma concentrations of both tramadol and M1 are achieved within two days with q.i.d. dosing. There is no evidence of self-induction (see Figures 1 and Table 1 below).

Figure 1: Mean Tramadol and M1 Plasma Concentration Profiles after a Single 100 mg Oral Dose and after Twenty-Nine 100 mg Oral Doses of Tramadol HCl given q.i.d.

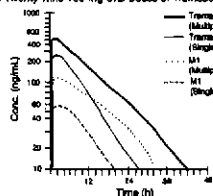


Table 1 Mean (%CV) Pharmacokinetic Parameters for Racemic Tramadol and M1 Metabolite

Population/ Doseage Regimen	Parent Drug/ Metabolite	Peak Conc. (ng/mL)	Time to Peak (hrs)	Clearance/FB (mL/min/kg)	$t_{1/2}$ (hrs)
Healthy Adults, 100 mg q.i.d., MD p.o.	Tramadol	592 (30)	2.3 (91)	5.00 (25)	8.7 (18)
	M1	110 (20)	2.4 (46)	c	7.0 (14)
Healthy Adults, 100 mg SD p.o.	Tramadol	309 (25)	1.9 (63)	8.50 (31)	5.6 (20)
	M1	56.0 (36)	3.0 (51)	c	8.7 (18)
Geriatric, (> 75 yrs) 50 mg SD p.o.	Tramadol	208 (31)	2.1 (19)	6.88 (25)	7.0 (23)
	M1	d	d	c	d
Hepatic Impaired 30 mg SD p.o.	Tramadol	217 (11)	1.9 (18)	4.23 (58)	13.3 (11)
	M1	18.4 (12)	8.8 (20)	c	18.5 (15)
Renal Impaired CL_{CR} 10-30 mL/min 100 mg SD I.v.	Tramadol	c	c	4.23 (54)	10.6 (31)
	M1	c	c	c	11.6 (40)
Renal Impaired CL_{CR} <5 mL/min 100 mg SD I.v.	Tramadol	c	c	3.73 (17)	11.0 (29)
	M1	c	c	c	16.9 (18)

a SD = Single dose, MD = Multiple dose, p.o. = Oral administration, I.v. = Intravenous administration, d = Four times daily
b F represents the oral bioavailability of tramadol
c Not applicable
d Not measured

Food Effects: Oral administration of tramadol hydrochloride tablets with food does not significantly affect its rate or extent of absorption, therefore, tramadol hydrochloride tablets can be administered without regard to food.

Distribution: The volume of distribution of tramadol was 2.6 and 2.9 liters/kg in male and female subjects, respectively, following a 100 mg intravenous dose. The binding of tramadol to human plasma proteins is approximately 20% and binding also appears to be independent of concentration up to 10 μ M. Saturation of plasma protein binding occurs only at concentrations outside the clinically relevant range.

Metabolism: Tramadol is extensively metabolized after oral administration. Approximately 30% of the dose is excreted in the urine as unchanged drug, whereas 90% of the dose is excreted as metabolites. The remainder is excreted either as unidentified or as unextractable metabolites. The major metabolic pathways appear to be N- and O-demethylation and glucuronidation or sulfation in human plasma. Metabolite [O-demethyltramadol, denoted M1] is pharmacologically active in animal models. Formation of M1 is dependent on the CYP2D6 and as such is subject to inhibition, which may affect the therapeutic response (see PRECAUTIONS-Drug Interaction).

Approximately 7% of the population has reduced activity of the CYP2D6 isoenzyme of cytochrome P-450. These individuals are "poor metabolizers" of debrisoquine, dextromethorphan, tricyclic antidepressants, among other drugs. Based on a population PK analysis of Phase I studies in healthy subjects, concentrations of tramadol were approximately 20% higher in "poor metabolizers"

versus "extensive metabolizers", while M1 concentrations were 40% lower. Concomitant therapy with other CYP2D6 substrates such as fluoxetine and its metabolite norfluoxetine, amitriptyline and quinidine inhibit the metabolism of tramadol to various degrees, suggesting that concomitant administration of these compounds could result in increases in tramadol concentrations and decreased concentrations of M1. The pharmacological impact of these alterations in terms of either efficacy or safety is unknown. Concomitant use of SEROTONIN re-uptake INHIBITORS and MAO INHIBITORS may enhance the risk of adverse events, including seizure (see WARNINGS) and serotonin syndrome.

Elimination:

Tramadol is eliminated primarily through metabolism by the liver and the metabolites are eliminated primarily by the kidneys. The mean terminal plasma elimination half-lives of racemic tramadol and racemic M1 are 8.3 \pm 1.4 and 7.4 \pm 1.4 hours, respectively. The plasma elimination half-life of racemic tramadol increased from approximately six hours to seven hours upon multiple dosing.

Special Populations

Renal:

Impaired renal function results in a decreased rate and extent of excretion of tramadol and its active metabolite, M1. In patients with creatinine clearances of less than 30 mL/min, adjustment of the dosing regimen is recommended (see DOSAGE AND ADMINISTRATION). The total amount of tramadol and M1 removed during a 4-hour dialysis period is less than 7% of the administered dose.

Hepatic:

Metabolism of tramadol and M1 is reduced in patients with advanced cirrhosis of the liver, resulting in both a larger area under the concentration-time curve for tramadol and longer tramadol and M1 elimination half-lives (13 hrs. for tramadol and 19 hrs. for M1). In cirrhotic patients, adjustment of the dosing regimen is recommended (see DOSAGE AND ADMINISTRATION).

Geriatric:

Healthy elderly subjects aged 65 to 75 years have plasma tramadol concentrations and elimination half-lives comparable to those observed in healthy subjects less than 65 years of age. In subjects over 75 years, maximum serum concentrations are elevated (208 vs. 182 ng/mL) and the elimination half-life is prolonged (7 vs. 6 hours) compared to subjects 65 to 75 years of age. Adjustment of the daily dose is recommended for patients older than 75 years (see DOSAGE AND ADMINISTRATION).

Gender:

The absolute bioavailability of tramadol was 73% in males and 79% in females. The plasma clearance was 6.4 mL/min/kg in males and 5.7 mL/min/kg in females following a 100 mg IV dose of tramadol. Following a single oral dose, and after adjusting for body weight, females had a 12% higher peak tramadol concentration and a 25% higher area under the concentration-time curve compared to males. The clinical significance of this difference is unknown.

Clinical Studies

Tramadol hydrochloride tablets have been given in single oral doses of 50, 75, and 100 mg to patients with pain following surgical procedures and pain following oral surgery (extraction of impacted molars).

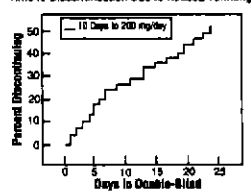
In single-dose models of pain following oral surgery, pain relief was demonstrated in some patients at doses of 50 mg and 75 mg. A dose of 100 mg tramadol hydrochloride tablets tended to provide analgesia superior to codeine sulfate 60 mg, but it was not as effective as the combination of aspirin 650 mg with codeine phosphate 60 mg.

Tramadol hydrochloride tablets have been studied in three long-term controlled trials involving a total of 620 patients, with 530 patients receiving tramadol hydrochloride tablets. Patients with a history of chronic pain conditions were studied in double-blind trials of one to three months duration. Average daily doses of approximately 250 mg of tramadol hydrochloride tablets in divided doses were generally comparable to five doses of acetaminophen 300 mg with codeine phosphate 30 mg (TYLENOL[®] with Codeine #3) daily, five doses of aspirin 325 mg with codeine phosphate 30 mg daily, or two to three doses of acetaminophen 500 mg with oxycodone hydrochloride 5 mg (TYLXO[®]) daily. IYLENOL[®] is the registered trademark of McNeil Consumer Healthcare and TYLXO[®] is the registered trademark of RW Johnson.

Titration Trials:

In a randomized, blinded clinical study with 129 to 132 patients per group, a 10-day titration to a daily tramadol hydrochloride dose of 400 mg (50 mg q.i.d.), attained in every patient every 3 days, was found to result in fewer discontinuations due to dizziness or vertigo than titration over only 4 days or no titration.

Figure 2: Protocol CAP85-047
Time to Discontinuation Due to Nausea/Vomiting



INDICATIONS AND USAGE

Tramadol hydrochloride tablets are indicated for the management of moderate to moderately severe pain in adults.

CONTRAINDICATIONS

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

WARNINGS

Seizure Risk

Seizures have been reported in patients receiving tramadol hydrochloride tablets within the recommended dosage range. Spontaneous post-marketing reports indicate that seizure risk is increased with doses of tramadol hydrochloride tablets above the recommended range. Concomitant use of tramadol hydrochloride tablets with the seizure risk in patients taking:

- Selective serotonin reuptake inhibitors (SSRI antidepressants or serotonics),
- Tricyclic antidepressants (TCAs), and other tricyclic compounds (e.g., cyclobenzaprine, promethazine, etc.), or
- Other opioids.

Administration of tramadol hydrochloride tablets may enhance the seizure risk in patients taking:

- MAO inhibitors (see also WARNINGS - Use with MAO Inhibitors),
- Neuroleptics, or
- 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 seizures (such as head trauma, metabolic disorders, alcohol and drug withdrawal, CNS infections). In tramadol hydrochloride tablets overdose, naloxone administration may increase the risk of seizure.

Anaphylactoid Reactions

Serious and rarely fatal anaphylactoid reactions have been reported in patients receiving therapy with tramadol hydrochloride tablets. When these events do occur it is often following the first dose. Other reported allergic reactions include pruritus, hives, bronchospasm, and angioedema, toxic epidermal necrolysis and Stevens-Johnson syndrome. Patients with a history of anaphylactoid reactions to codeine and other opioids may be at increased risk and therefore should not receive tramadol hydrochloride tablets (see CONTRAINDICATIONS).

Respiratory Depression

Administer tramadol hydrochloride tablets cautiously in patients at risk for respiratory depression. In these patients alternative non-opioid analgesics should be considered. When large doses of tramadol hydrochloride tablets are administered with anesthetic medications or alcohol, respiratory depression may result. Respiratory depression should be treated as an overdose. If naloxone is to be administered, use cautiously because it may precipitate seizures (see WARNINGS, Seizure Risk and OVERDOSAGE).

Interaction with Central Nervous System (CNS) Depressants

Tramadol should 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. Tramadol increased the risk of CNS and respiratory depression in these patients.

Increased Intracranial Pressure or Head Trauma

Tramadol hydrochloride tablets should be used with caution in patients with increased intracranial pressure or with a history of opiate dependence. Side effects include carbon dioxide retention and secondary elevation of cerebrospinal fluid pressure, and may be markedly exaggerated in those 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 tramadol hydrochloride tablets. (See Respiratory Depression)

Use in Ambulatory Patients

Tramadol 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 patients using this drug should be cautioned accordingly.



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Use with MAO inhibitors and serotonergic agents... Tramadol hydrochloride tablets with great caution in patients taking monoamine oxidase inhibitors...

Withdrawal symptoms may occur if tramadol hydrochloride tablets are discontinued abruptly... These symptoms may include: anxiety, sweating, insomnia, rigors, pain, nausea, tremors, diarrhea, upper respiratory symptoms, piloerection, and rarely hallucinations...

Physical Dependence and Abuse: Tramadol hydrochloride tablets may induce psychic and physical dependence of the morphine-type (opioid) (See DRUG ABUSE AND DEPENDENCE). Tramadol hydrochloride has been shown to inhibit physical dependence in some patients that have been previously dependent on other opioids...

Risk of Overdose: Serious potential consequences of overdose with tramadol hydrochloride tablets 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...

Acute Abdominal Conditions: The administration of tramadol hydrochloride tablets may complicate the clinical assessment of patients with acute abdominal conditions.

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. In patients with creatinine clearances of less than 30 mL/min, dosing reduction is recommended...

Information for Patients: Tramadol hydrochloride tablets may impair mental or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery.

Drug Interactions: In vitro studies indicate that tramadol is unlikely to inhibit the CYP3A4-mediated metabolism of other drugs when tramadol is administered concomitantly at therapeutic doses.

Use with Carbamazepine: Patients taking carbamazepine may have a significantly reduced analgesic effect of tramadol hydrochloride tablets...

Use with Quinidine: Tramadol is metabolized to M1 by CYP2D6. Quinidine is a selective inhibitor of that isoenzyme, so that concomitant administration of quinidine and tramadol hydrochloride tablets results in increased concentrations of tramadol and reduced concentrations of M1.

Use with Inhibitors of CYP2D6: In vitro drug interaction studies in human liver microsomes indicate that tramadol has no effect on quinidine metabolism.

Use with Cimetidine: Concomitant administration of tramadol hydrochloride tablets with cimetidine does not result in clinically significant changes in tramadol pharmacokinetics.

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).

Use with Digoxin and Warfarin: Post-marketing surveillance has revealed rare reports of digoxin toxicity and alteration of warfarin effect, including elevation of prothrombin times.

Cardiomyopathy, Myofasciitis, Impairment of Fertility: Tramadol was not mutagenic in the following assays: Ames Salmonella/microsome activation test, CHO/HPT rat lymphoma cell assay, mouse lymphoma assay...

Reproductive Effects: Pregnancy Category C. Tramadol has been shown to be embryotoxic and fetotoxic in mice, rats and rabbits...

Non-teratogenic Effects: Tramadol was evaluated in peri- and post-natal studies in rats. Prognosis of dams receiving oral (gavage) doses levels of 50 mg/kg (300 mg/m²) or 1.2 times the maximum daily human tramadol dosage...

Laboratory Tests: There are no adequate and well-controlled studies in pregnant women. Tramadol hydrochloride tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor and Delivery: Tramadol hydrochloride tablets 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.

Nursing Mothers: Tramadol hydrochloride tablets are not recommended for obstetrical preoperative medication or for postoperative analgesia in nursing mothers because its safety in infants and newborns has not been studied.

Patients Use: The safety and efficacy of tramadol hydrochloride tablets in patients under 18 years of age have not been established. The use of tramadol in the pediatric population is not recommended.

Geriatric Use: In general, dose selection for an elderly patient should be cautious, 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.

How Supplied: Tramadol hydrochloride tablet, 50 mg are available as brownish yellow colored, capsule shaped film coated tablets, debossed with "377" on one side and plain on the other side.

A total of 450 elderly (65 years of age or older) subjects were exposed to tramadol hydrochloride tablets... In studies including geriatric patients, treatment-limiting adverse events were higher in subjects over 75 years of age compared to those under 65 years of age.

ADVERSE REACTIONS: Tramadol hydrochloride tablets were administered to 550 patients during the double-blind or open-label extension periods in U.S. studies of chronic nonmalignant pain.

Table 2: Cumulative Incidence of Adverse Reactions for Tramadol Hydrochloride Tablets in Chronic Trials of Nonmalignant Pain (N=427)

	Up to 7 Days	Up to 30 Days	Up to 60 Days
Stair, Fall	28%	31%	33%
Dizziness/Vertigo	24%	24%	24%
Nausea	24%	24%	24%
Constipation	14%	20%	25%
Headache	14%	20%	25%
Somnolence	14%	20%	25%
Vomiting	8%	10%	17%
Pruritus	8%	10%	11%
"CNS Stimulation" ¹	7%	11%	14%
Anorexia	6%	11%	12%
Swelling	6%	7%	9%
Dyspepsia	6%	7%	12%
Dry Mouth	6%	8%	10%
Diarrhea	6%	8%	10%

¹ "CNS Stimulation" is a composite of nervousness, anxiety, agitation, tremor, spasticity, euphoria, emotional lability and hallucinations.

Incidence 1% to less than 5%, possibly causally related: the following lists adverse reactions that occurred with an incidence of 1% to less than 5% in clinical trials, and for which the possibility of a causal relationship with tramadol hydrochloride tablets exists.

Body as a Whole: Malaise. Cardiovascular: Vasodilation. Central Nervous System: Anxiety, Confusion, Coordination disturbance, Euphoria, Miosis, Narcolepsy, Sleep disorder. Gastrointestinal: Abdominal pain, Anorexia, Flatulence. Musculoskeletal: Myalgia.

Special Senses: Visual disturbance. Urogenital: Menopausal symptoms, Urinary frequency, Urinary retention.

Incidence less than 1%, possibly causally related: the following lists adverse reactions that occurred with an incidence of less than 1% in clinical trials and/or reported in post-marketing experience.

Body as a Whole: Accidental injury, Allergic reaction, Anaphylaxis, Death, Sudden tendency, Weight loss, Serotonin syndrome (mental status change, hyperreflexia, fever, shivering, tremor, agitation, diaphoresis, seizures and coma). Cardiovascular: Orthostatic hypotension, Syncope, Tachycardia.

Central Nervous System: Abnormal gait, Anorexia, Cognitive dysfunction, Depression, Difficulty in concentration, Hallucinations, Parosmia, Seizure (See WARNINGS), Tremor. Respiratory: Dyspnea. Central Nervous System: Stevens-Johnson syndrome/Toxic epidermal necrolysis, Urticaria, Vesicles. Special Senses: Dry eye. Urogenital: Dysuria, Menstrual disorder.

Other adverse experiences, causal relationship unknown: A variety of other adverse events were reported infrequently in patients taking tramadol hydrochloride tablets during clinical trials and/or reported in post-marketing experience. A causal relationship between tramadol hydrochloride tablets and these events has not been determined.

Cardiovascular: Abnormal ECG, Hypertension, Hypotension, Myocardial ischemia, Palpitations, Premature atrial, Pulmonary embolism. Central Nervous System: Micros, Speech disorder. Gastrointestinal: Gastrointestinal bleeding, Hepatitis, Stomatitis, Liver failure. Laboratory Abnormalities: Creatinine increase, Elevated liver enzymes, Hemoglobin decrease, Prothrombin time. Sensory: Cataracts, Deafness, Tinnitus.

DRUG ABUSE AND DEPENDENCE: Tramadol hydrochloride tablets may induce psychic and physical dependence of the morphine-type (opioid). (See WARNINGS). Dependence and abuse, including drug-seeking behavior and taking illicit efforts to obtain the drug are not limited to those patients with prior history of opioid dependence.

OVERDOSE: Serious potential consequences of overdose are respiratory depression, lethargy, coma, seizure, cardiac arrest and death. (See WARNINGS). Fatalities have been reported in post-marketing experience in association with both intentional and unintentional overdose with tramadol hydrochloride tablets.

DOSE AND ADMINISTRATION: Adults (17 years of age and over): For patients with moderate to moderately severe chronic pain not requiring rapid onset of analgesic effect, the tolerability of tramadol hydrochloride can be improved by initiating therapy with a titration regimen.

Individualization of Dose: Good pain management practice dictates that the dose be individualized according to patient need using the lowest beneficial dose.

in all patients with creatinine clearances less than 30 mL/min, it is recommended that the dosing interval of tramadol hydrochloride tablets be increased to 12 hours, with a maximum daily dose of 200 mg. Since only 7% of an administered dose is removed by hemodialysis, dialysis patients can receive their regular dose on the day of dialysis.

The recommended dose for adults patients with cirrhosis is 50 mg every 12 hours. In general, dose selection for an elderly patient over 65 years old should be cautious, 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.

HOW SUPPLIED: Tramadol hydrochloride tablet, 50 mg are available as brownish yellow colored, capsule shaped film coated tablets, debossed with "377" on one side and plain on the other side.

Dispense in light container. Store at 25°C (77°F); excursions permitted to 15 - 30°C (59 - 86°F). U.S. Pat. 5,243,101; 5,243,102.



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Tramadol Hydrochloride Tablets, 50 mg
Container Labels
100 count

Pharmacist Information:
Dispense in light, light-resistant
containers as defined in USP.

Store at controlled room
temperature 15°-30°C (59°-86°F)

Each Tablet contains:
Tramadol Hydrochloride.....50 mg

NDC 57664-377-08

**Tramadol Hydrochloride
Tablets**

USUAL DOSAGE:
See Package insert for
complete product
information

100 Tablets
Rx Only

 **CARACO**
PHARMACEUTICAL
LABORATORIES, LTD.
DETROIT, MI 48202

G.S.No. 5242L01
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APPROVED

