HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the infor needed to use ZOLPIDEM TARTRATE TABLETS safely and effectively. See full prescribing information for ZOLPIDEM TARTRATE TABLETS.

ZOLPIDEM TARTRATE tablets, for oral use C-IV nitial U.S. Approval: 1992

WARNING: COMPLEX SLEEP BEHAVIORS

See full prescribing information for complete boxe warning. Complex sleep behaviors including sleep-walkin sleep-driving, and engaging in other activities while not fully awake may occur following use of zolpidem tartrate tablets. Some of these events may result in serious injuries, including death. Discontinu zolpidem tartrate tablets immediately if a patie experiences a complex sleep behavior (4, 5.1).

---RECENT MAJOR CHANGES--Dosage and Administration (2.1)

Warnings and Precautions (5.5) 2/2022 Warnings and Precautions (5.7) 2/2022 --INDICATIONS AND USAGE--Zolpidem tartrate tablets, USP a gamma-aminobutyric acid (GABA) A receptor positive modulator, is indicated for the short-term treatment of insomnia characterized by difficulties with sleep initiation. (1) ----DOSAGE AND ADMINISTRATION-----

Use the lowest dose effective for the patient and must

- not exceed a total of 10 mg daily (2.1) Treatment should be as short as possible (2.1) Recommended initial dose is a single dose of 5 mg for
- women and a single dose of 5 or 10 mg for me mmediately before bedtime with at least 7 to 8 hours remaining before the planned time of awakening (2.1)
- Geriatric patients and patients with mild to moderate hepatic impairment: Recommended dose is 5 mg for men and women (2.2)
- Lower doses of CNS depressants may be necessary when taken concomitantly with zolpidem tartrate
- tablets (2.3) The effect of zolpidem tartrate tablets may be slowed if
- taken with or immediately after a meal (2.4)
- 5 mg and 10 mg tablets. Tablets not scored. (3)
- -CONTRAINDICATIONS-Patients who have experienced complex sleep
- ors after taking zolpidem tartrate tablets (4) Known hypersensitivity to zolpidem (4)
- ----WARNINGS AND PRECAUTIONS----
- CNS-Depressant Effects: Impaired alertness and motor coordination including risk of morning impairment. Risk increases with dose and use with other CNS depressants and alcohol. Caution patients against driving and other activities requiring mental

alertness the morning after use. Instruct patients on correct use. (5.2)

8097495

Zolpidem tartrate

tablets USP.

for oral use, C-IV

20769615

EM 15947/a

FULL PRESCRIBING INFORMATION: CONTENTS* NING: COMPLEX SLEEP BEHAVIORS

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WARNING: COMPLEX SLEEP BEHAVIORS

Complex sleep behaviors including sleep-walking, sleep-driving, and engaging in other activities while not fully awake may occur following use of zolpidem tartrate tablets. Some of these events may result in serious injuries, including death. Discontinue zolpidem tartrate tablets immediately if a patient experiences a complex slee havior [see Contraindications (4) and Warnings and Precautions (5.1)].

INDICATIONS AND USAGE

Colpidem tartrate tablets, USP are indicated for the short-term treatment of inso initiation. Zolpidem tartrate tablets, USP have been shown to decrease sleep latency for up to 35 days in controlled clinical studies [see Clinical Studies (14)]. The clinical trials performed in support of efficacy were 4 to 5 weeks in duration with the final formal assessments of sleep

- tency performed at the end of treatment DOSAGE AND ADMINISTRATION
- 2.1 Dosage in Adults

Use the lowest effective dose for the patient. The recommended initial dose is 5 mg for women and either 5 or 10 mg for mer

taken only once per night immediately before bedime with at least 7 to 8 hours remaining before the planned time of awakening. If the 5 mg dose is not effective, the dose can be increased to 10 mg. In some patients, the higher morning blood evels following use of the 10 mg dose increase the risk of next-day impairment of driving and other activities that require full alertness [see Warnings and Precautions (5.2)]. The total dose of zolpidem tartrate tablets should not exceed 10 mg once immediately before bedtime. Zolpidem tartrate tablets should be taken as a single dose and should not b eadministered during the same night he recommended initial doses for women and men are different because zolpidem clearance is lower in women.

Long-term use of zolpidem is not recommended. Treatment should be as short as possible. Extended treatment should not take place without re-evaluation of the patient's status because the risk of abuse and dependence increases with the duration of treatment *[see Drug Abuse and Dependence (9.3)]*.

2.2 Special Populations

Need to Evaluate for Comorbid Diagnoses: Reevaluate

if insomnia persists after 7 to 10 days of use. (5.3)

Severe Anaphylactic/Anaphylactoid Reactions

Angioedema and anaphylaxis have been reported. Do not rechallenge if such reactions occur. (5.4)

Abnormal Thinking and Behavioral Changes: Changes

including decreased inhibition, bizarre behavior agitation, and depersonalization have been reported

changes, (5,5)

function. (5.7)

diarrhea

(7.2)

trimester. (8.1)

Medication Guide

8.2 Lactation

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10 OVERDOSAGE

1 DESCRIPTION

8.4 Pediatric Use

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9 DRUG ABUSE AND DEPENDENCE

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12.1 Mechanism of Action 12.2 Pharmacodynamics

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13 NONCLINICAL TOXICOLOGY

Fertility

14 CLINICAL STUDIES

information are not listed.

Dependence

10.2 Recommended Tre

12 CLINICAL PHARMACOLOGY

2/202

Immediately evaluate any new onset behavioral

Depression: Worsening of depression or suicidal

thinking may occur. Prescribe the least amount of

Respiratory Depression: Consider this risk before

prescribing in patients with compromised respiratory

Hepatic Impairment: Avoid zolpidem tartrate tablets

Withdrawal Effects: Symptoms may occur with rapid

use in patients with severe hepatic impairment. (5.8)

-----ADVERSE REACTIONS-----

Most commonly observed adverse reactions were: Short-term (<10 nights): Drowsiness, dizziness, and

Long-term (28 to 35 nights): Dizziness and drugged

feelings (6.1) To report SUSPECTED ADVERSE REACTIONS, contact

Forrent Pharma Inc. at 1-800-912-9561 or FDA at

-----DRUG INTERACTIONS------

CNS depressants, including alcohol: Possible adverse

Opioids: Concomitant use may increase risk of respiratory depression (5.7, 7.1)

CYP3A4 inducers (rifampin or St. John's wort)

Ketoconazole: Combination use may increase effect

Pregnancy: May cause respiratory depression and

Lactation: A lactating woman may pump and discard

breast milk during treatment and for 23 hours after zolpidem tartrate tablets administration. (8.2)

Pediatric use: Safety and effectiveness not established

Hallucinations (incidence rate 7%) and other psychiatric and/or nervous system adverse reactions

were observed frequently in a study of pediatric

patients with Attention-Deficit/Hyperactivity Disorder

8.6 Gender Difference in Pharmacokinetics

13.1 Carcinogenesis, Mutagenesis, Impairment of

14.3 Studies Pertinent to Safety Concerns for

* Sections or subsections omitted from the full prescribing

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17 PATIENT COUNSELING INFORMATION

Revised: 8/2024

sedation in neonates with exposure late in the third

-- USE IN SPECIFIC POPULATIONS------

mazine: Impaired alertness and psychomotor

Imipramine: Decreased alertness observed (7.1)

ombination use may decrease effect (7.2)

1-800-FDA-1088 or http://www.fda.gov/medwatch.

additive CNS- depressant effects (5.2, 7.1)

performance observed (7.1)

dose reduction or discontinuation. (5.9, 9.3)

tablets feasible to avoid intentional overdose. (5.6)

Iderly or debilitated patients may be especially sensitive to the effects of zolpidem tartrate. The recommended dose of zolpidem tartrate in these patients is 5 mg once daily immediately before bedtime [see Warnings and Precautions (5.2), Use in Specific Populations (8.5)1.

Patients with mild to moderate hepatic impairment do not clear the drug as rapidly as normal subjects. The reco dose of zolpidem tartrate tablets in these patients is 5 mg once daily immediately before bedtime. Avoid zolpidem tartrate tablets use in patients with severe hepatic impairment as it may contribute to encephalopathy [see Warnings and Precautions (5.8), Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

2.3 Use with CNS Depressants Dosage adjustment may be necessary when zolpidem tartrate tablets are combined with other CNS-depressant drugs because of the potentially additive effects [see Warnings and Precautions (5.2, 5.7)].

2.4 Administration ect of zolpidem tartrate tablets may be slowed by ingestion with or immediately after a meal

DOSAGE FORMS AND STRENGTHS em tartrate tablets are available in 5 mg and 10 mg strength tablets for oral administration. Tablets are not scored.

em tartrate 5 mg tablets are red colored, capsule shaped tablets with the Torrent logo debossed on one side and '5 MG'

debossed on the other side. Zolpidem tartrate 10 mg tablets are peach-yellow colored, capsule shaped tablets with the Torrent logo debossed on one ide and '10 MG' debossed on the other side.

CONTRAINDICATIONS Zolpidem tartrate tablets are contraindicated in patients

who have experienced complex sleep behaviors after taking zolpidem tartrate tablets [see Warnings and Precautions (5.1)]. with known hypersensitivity to zolpidem. Observed reactions include anaphylaxis and angioedema [see Warnings and

Precautions (5.4)].

WARNINGS AND PRECAUTIONS 5.1 Complex Sleep Behaviors

plex sleep behaviors, including sleep-walking, sleep-driving, and engaging in other activities while not fully awake, may occur following the first or any subsequent use of zolpidem tartrate tables. Patients can be seriously injured or injure others during complex sleep behaviors . Such injuries may result in a fatal outcome. Other complex sleep behaviors (e.g., preparing and eating food, making phone calls, or having sex) have also been reported. Patients usually do not remember these events Postmarketing reports have shown that complex sleep behaviors may occur with zolpidem tartrate tablets alone at recommended doses, with or without the concomitant use of alcohol or other Central Nervous System (CNS) depressants [see Drug Interactions (7.1)]. Discontinue zolpidem tartrate tablets immediately if a patient experiences a complex sleep behavior [see Contraindications (4)].

5.2 CNS-Depressant Effects and Next-Day Impairment

Zolpidem tartrate tablets, like other sedative-hypnotic drugs, has CNS-depressant effects. Coadministration with other CNS depressants (e.g., benzodiazepines, opioids, tricyclic and/depressants, alcohol) increases the risk of CNS depression (see Drug Interactions (7.1)]. Dosage adjustments of zolpidem tartrate tablets and of other concomitant CNS depressants may be necessary when zolpidem tartrate tablets are administered with such agents because of the potentially additive effects. The use of zolpidem tartrate tablets with other sedative-hypnotics (including other zolpidem products) at bedtime or the middle of e night is not recommended [see Dosage and Administration (2.3)].

The risk of next-day psychomotor impairment, including impaired driving, is increased if zolpidem tartrate tablets are taken with less than a full night of sleep remaining (7 to 8 hours); if a higher than the recommended dose is taken; if coadministered with other CNS depressants or alcohol; or if coadministered with other drugs that increase the blood levels of zolpidem. Patients should be warned against driving and other activities requiring complete mental alertness if zolpidem tartrate tablets are taken in these circumstances *(see Dosage and Administration (2), Clinical Studies (14.3))*. shicle drivers and machine operators should be warned that, as with other hypnotics, there may be a possible risk of

adverse reactions including drowsiness, prolonged reaction time, dizziness, sleepiness, blurred/double vision, reduced alertness, and impaired driving the morning after therapy. In order to minimize this risk a full night of sleep (7 to 8 hours) is Because zolpidem tartrate tablets can cause drowsiness and a decreased level of consciousness, patients, particularly the

elderly, are at higher risk of falls.

5.3 Need to Evaluate for Comorbid Diagnoses See 17 for PATIENT COUNSELING INFORMATION and

Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomati treatment of insomnia should be initiated only after a careful evaluation of the patient. The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical illness that should be evaluated. Worsening of insomnia or the emergence of new thinking or behavior abnormalities may be the consequence of an unrecognized psychiatric or physical disorder. Such findings have emerged during the course of treatment with sedative/hypnotic drugs, including zolpidem. 5.4 Severe Anaphylactic and Anaphylactoid Reactions

ases of angioedema involving the tongue, glottis or larynx have been reported in patients after taking the first or subsequent doses of sedative-hypnotics, including zolpidem. Some patients have had additional symptoms such as dyspnea, throat closing or nausea and vomiting that suggest anaphylaxis. Some patients have required medical therapy in the emergency department. If angioedema involves the throat, glottis or larynx, airway obstruction may occur and be fatal. Patients who develop angioedema after treatment with zolpidem should not be rechallenged with the drug. 5.5 Abnormal Thinking and Behavioral Changes

Abnormal finitiking and behavior changes have been reported in patients treated with sedative/hypnotics, including zolpidem tartrate tablets. Some of these changes included decreased inhibition (e.g., aggressiveness and extroversion that seemed out of character), bizarre behavior, agitation and depersonalization. Visual and auditory hallucinations have been reported. In a clinical trial, 7% of pediatric patients treated with zolpidem tartrate tablets 0.25 mg/kg taken at bettime <1% of adults 0.25 mg/kg taken at bettime reported hallucinations. hallucinations versus 0% treated with placebo [see Use in Specific Populations (8.4)]. There have been postmarketing reports of delirium with zolpidem use [Adverse Reactions (6.2)]. It can rarely be determined with certainty whether a particular instance of the abnormal behaviors listed above is drug

nduced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and imm 5.6 Use in Patients with Depression

In primarily depressed patients treated with sedative-hypnotics, worsening of depression, and suicidal thoughts and actions including conjusted suicides), have been reported. Suicidal tendencies may be present in such patients and protectiv measures may be required. Intentional overdosage is more common in this group of patients; therefore, the lowest number of tablets that is feasible should be prescribed for the patient at any one time. 5.7 Respiratory Depression

ough studies with 10 mg zolpidem tartrate did not reveal respiratory depressant effects at hypnotic doses in healthy subjects or in patients with mild to moderate chronic obstructive pulmonary disease (COPD), a reduction in the Total Arousa ndex, together with a reduction in lowest oxygen saturation and increase in the times of oxygen desaturation below 80% and by, was observed in patients with mild to moderate sleep apnea when treated with collider compared to placebo. Since edative-hypnotics have the capacity to depress respiratory drive, precautions should be taken if zolpidem tartrate tablets prescribed to patients with compromised respiratory function or concomitant use with opioids or other CNS depressants stmarketing reports of respiratory insufficiency in patients receiving 10 mg of zolpidem tartrate, most of whom had pre-isting respiratory impairment, have been reported. The risk of respiratory depression should be considered prior to scribing zolpidem tartrate tablets in patients with respiratory impairment including sleep apnea and myasthenia gravis o with concomitant opioid use [see Dosage and Administration (2.3), Drug Interactions (7.1)] 5.8 Precipitation of Hepatic Encephalopathy

Drugs affecting GABA receptors, such as zolpidem tartrate, have been associated with precipitation of hepatic ncephalopathy in patients with hepatic insufficiency. In addition, patients with hepatic insufficiency do not clear zolpiden artrate as rapidly as patients with normal hepatic function. Avoid zolpidem tartrate tablets use in patients with severe hepatic impairment as it may contribute to encephalopathy [see Dosage and Administration (2.2). Use in Specific Populations (8.7). Clinical Pharmacology (12.3)]. 5.9 Withdrawal Effects

re have been reports of withdrawal signs and symptoms following the rapid dose decrease or abrupt discontinuation of bidem. Monitor patients for tolerance, abuse, and dependence [see Drug Abuse and Dependence (9.2, 9.3)]. ADVERSE REACTIONS

- he following serious adverse reactions are discussed in greater detail in other sections of the labeling:
- Complex Sleep Behaviors [see Warnings and Precautions (5.1)] CNS-Depressant Effects and Next-Day Impairment [see Warnings and Precautions (5.2)]
- Severe Anaphylactic and Anaphylactoid Reactions [see Warnings and Precautions (5.4)]
- Abnormal Thinking and Behavior Changes *[see Warnings and Precautions (5.5)]*
- Withdrawal Effects [see Warnings and Precautions (5.9)]
- 6.1 Clinical Trials Experience

Associated with Discontinuation of Treatment Approximately 4% of 1,701 patients who received zolpidem at all doses (1.25 to 90 mg) in U.S. premarketing clinical trials discontinued treatment because of an adverse reaction. Reactions most commonly associated with discontinuation from IIS trials (0.5%) dizziness (0.4%) h a (0.6%) and ting (0.5%) Approximately 4% of 1,959 patients who received zolpidem at all doses (1 to 50 mg) in similar foreign trials discontinued Approximately 4% of 1,959 patients who received zopiolem at an doses (1 to 50 mg) in similar to regin trans obscinuted treatment because of an adverse reaction. Reactions most commonly associated with discontinuation from these trials were dynamic downsiness (1.1%), diziness/vertigo (0.8%), annesia (0.5%), nausea (0.5%), headache (0.4%), and falls (0.4%). Data from a clinical study in which selective serotonin reuptake inhibitor (SSRI)-treated patients were given zolpidem to service and the second study of the second study in the second study of the second stu daytime drowsiness (1.1%), dizzlness/vertigo (0.8%), amnesia (0.5%), nausea (0.5%), headache (0.4%), and falls (0.4%). Data from a clinical study in which selective serotonin reuptake inhibitor (SSRI)-treated patients were given zolpidem

revealed that four of the seven discontinuations during double-blind treatment with zolpidem (n=95) were associated with

stupor, tremor, Rare; abnormal gait, abnormal thinking, aggressive reaction, apathy, appetite increased, decreased libido, manic reaction, neuralgia, neuritis, neuropathy, neurosis, panic attacks, paresis, personality disorder, somnambulism,

535 mm

hemorrhage, tooth caries.

	Artwork Code	Item Code	Outsert - F & B
	EM 15947/a	20769615	Size : L 535 mm X H 305 mm
	Prepared by :		Date : 06-08-2024
5/	Approved by :		Date :
	Remarks		

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Zolpidem Outsert (Front) | Open Size : 535 x 305 mm | Folded Size : 32 x 32 mm | Paper : 40gsm Bible Paper | Gluing : Yes | Date : 28.07.2023

was discontinued after an attempted suicide. Most Commonly Observed Adverse Reactions in Controlled Trials During short-term treatment (up to 10 nights) with zolpidem tartrate tablets at doses up to 10 mg, the most commonly observed adverse reactions associated with the use of zolpidem and seen at statistically significant differences from placebo-treated patients were drowsiness (reported by 2% of zolpidem patients), dizziness (1%), and diarrhea (1%). During longer-term treatment (28 to 35 nights) with zolpidem at doses up to 10 mg, the most commonly observed adverse reactions associated with the use of zolpidem and seen at statistically significant differences from placebo-treated patients were s (5%) and drugged feelings (3%). Adverse Reactions Observed at an Incidence of $\geq 1\%$ in Controlled Trials

The following tables enumerate treatment-emergent adverse reactions frequencies that were observed at an incidence equal to 1% or greater among patients with insomnia who received zolpidem tartrate and at a greater incidence than placebo in U.S. placebo-controlled trials. Events reported by investigators were classified utilizing a modified World Health Skin and appendages: Infrequent: pruritus. Rare: acne, bullous eruption, dermatitis, furunculosis, injection-site inflammation, photosensitivity reaction, urticaria. Organization (WHO) dictionary of preferred terms for the nurnose of establishing event frequencies. The prescriber should be Special senses: Frequent: diplopia, vision abnormal. Infrequent: eye irritation, eye pain, scleritis, taste perversion, tinnitus. organization (who) including of predict the incidence of side infloed free of the course of usual medical practice, in which patient characteristics and other factors differ from those that prevailed in these clinical trials. Similarly, the cited Rare: conjunctivitis, corneal ulceration, lacrimation abnormal, parosmia, photopsia, Jrogenital system: Frequent: urinary tract infection. Infrequent: cystitis, urinary incontinence. Rare: acute renal failure. frequencies cannot be compared with figures obtained from other clinical investigators involving related drug products and suria, micturition frequency, nocturia, polyuria, pyelonephritis, renal pain, urinary retention is since each group of drug trials is conducted under a different set of conditions. However, the cited figures provide the 6.2 Postmarketing Experience hysician with a basis for estimating the relative contribution of drug and nondrug factors to the incidence of side effects in he following adverse reactions have been identified during postapproval use of zolpidem tartrate tablets. Because these the population studied.

The following table was derived from results of 11 placebo-controlled short-term U.S. efficacy trials involving zolnidem in frequency or establish a causal relationship to drug exposure. doses ranging from 1.25 to 20 mg. The table is limited to data from doses up to and including 10 mg, the highest dose iver and biliary system; acute benatocellular, cholestatic or mixed liver injury with or without jaundice (i.e., bilirubin >2 x ULN, alkaline phosphatase $\geq 2 \times ULN$, transaminase $\geq 5 \times ULN$). Table 1: Incidences of Treatment-Emergent Adverse Reactions in Placebo-Controlled Clinical Trials Lasting up to 10 Psychiatric disorders: delirium DRUG INTERACTIONS

ginto (percentage or patients rep	Joi ting/	
	Zolpidem	Placebo
Body System	(<u>≤</u> 10 mg)	
Adverse Reaction*	(N=685)	(N=473)
Central and Peripheral Nervo	ous System	
Headache	7	6
Drowsiness	2	-
Dizziness	1	-
Gastrointestinal System		

Diarrhea Reactions reported by at least 1% of patients treated with zolpidem tartrate tablets and at a greater frequency than placebo The following table was derived from results of three placebo-controlled long-term efficacy trials involving zolpidem tartrate tablets. These trials involved patients with chronic insomnia who were treated for 28 to 35 nights with zolpidem at doses of 5, 10, or 15 mg. The table is limited to data from doses up to and including 10 mg, the highest dose recommended for use. The

les only adverse events occurring at an incidence of at least 1% for zolpidem patients Table 2: Incide nce of Treatment-Emergent Adverse Experiences in Placebo-Controlled Clinical Trials Lasting up to

	Zolpidem	Placebo
Body System	(<u><</u> 10 mg)	
Adverse Event*	(N=152)	(N=161)
Autonomic Nervous System		
Dry mouth	3	1
Body as a Whole		
Allergy	4	1
Back Pain	3	2
Influenza-like symptoms	2	-
Chest pain	1	-
Cardiovascular System		
Palpitation	2	-
Central and Peripheral Nervous System		
Drowsiness	8	5
Dizziness	5	1
Lethargy	3	1
Drugged feeling	3	-
Lightheadedness	2	1
Depression	2	1
Abnormal dreams	1	-
Amnesia	1	-
Sleep disorder	1	-
Gastrointestinal System		
Diarrhea	3	2
Abdominal pain	2	2
Constipation	2	1
Respiratory System		
Sinusitis	4	2
Pharyngitis	3	1
Skin and Appendages		
Rash	2	1

Adverse Event Incidence Across the Entire Preapproval Database

were not necessarily caused by it.

increased, weight decrease.

leactions reported by at least 1% of patients treated with zolpidem tartrate tablets and at a greater frequency than placebo. Dose Relationship for Adverse Reactions Drace is evidence from does comparison trials suggesting a dose relationship for many of the adverse reactions associated with zolpidem use, particularly for certain CNS and gastrointestinal adverse events.

impaired concentration, continuing or approvated depression, and manic reaction; one patient treated with placebo (n=97)

pidem tartrate tablets were administered to 3,660 subjects in clinical trials throughout the U.S., Canada, and Europe. Zopicem and are tablets were aufinitiseted to 3,000 subjects in clinical main stricturg to 0.5., callada, and curper, Treatment-emergent adverse events associated with clinical trial participation were recorded by clinical investigators using terminology of their own choosing. To provide a meaningful estimate of the proportion of individuals experiencing treatmentemergent adverse events, similar types of untoward events were grouped into a smaller number of standardized event

altegories and classified utilizing a modified World Health Organization (WHO) dictionary of preferred terms. The frequencies presented, therefore, represent the proportions of the 3,660 individuals exposed to zolpidem, at all doses, who experienced an event of the type cited on at least one occasion while receiving zolpidem. All reported treatmentemergent adverse events are included, except those already listed in the table above of adverse events in placebo-controlled studies, those coding terms that are so general as to be uninformative, and those events where a drug cause was remote. It is important to emphasize that, although the events reported did occur during treatment with zolpidem tartrate tablets, they

events are further classified within body system categories and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are defined as those occurring in greater than 1/100 subjects; infrequent adverse events are those occurring in 1/100 to 1/1,000 patients; rare events are those occurring in less than 1/1,000

Autonomic nervous system: Infrequent: increased sweating, pallor, postural hypotension, syncope. Rare: abnormal accommodation, altered saliva, flushing, glaucoma, hypotension, impotence, increased saliva, tensemus. Body as a whole: Frequent: asthenia. Infrequent: edema, falling, fatigue, fever, malaise, trauma. Rare: allergic reaction, allergy aggravated, anaphylactic shock, face edema, hot flashes, increased ESR, pain, restless legs, rigors, tolerance

Cardiovascular system: Infrequent: cerebrovascular disorder, hypertension, tachycardia, Rare; angina pectoris,

arrhythmia, arteritis, circulatory failure, extrasystoles, hypertension aggravated, myocardial infarction, phlebitis, pulmonary embolism, pulmonary edema, varicose veins, ventricular tachycardia. Central and peripheral pervous system: Frequent: staxia confusion euphoria headache insomnia vertigo Infrequent:

agitation, anxiety, decreased cognition, detached, difficulty concentrating, dysarthria, emotional lability, hal hypoesthesia, illusion, leg cramps, migraine, nervousness, paresthesia, sleeping (after davtime dosing), speech disorder, Hematologic and lymphatic system: Rare: anemia, hyperhemoglobinemia, leukopenia, lymphadenopathy, macrocytic

mmunologic system: Infrequent: infection. Rare: abscess herpes simplex herpes zoster, otitis externa, otitis media. Liver and billary system: Infrequent: abnormal hepatic function, increased SGPT. Rare: billrubinemia, increased SGOT. Metabolic and nutritional: Infrequent: hyperglycemia, thirst. Rare: gout, hypercholesteremia, hyperlipidemia, increased

alkaline phosphatase, increased BUN, periorbital edema. Musculoskeletal system: Frequent: arthralgia, myalgia. Infrequent: arthritis. Rare: arthrosis, muscle weakness, sciatica,

Reproductive system: Infrequent: menstrual disorder, vaginitis. Rare: breast fibroadenosis, breast neoplasm, breast pain. Respiratory system: Frequent: upper respiratory infection, lower respiratory infection. Infrequent: bronchitis, coughing, dyspnea, rhinitis. Rare: bronchospasm, respiratory depression, epistaxis, hypoxia, laryngitis, pneumonia.

eactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their

.1 CNS-Active Drugs

CNS Depressants

inistration of zolpidem with other CNS depressants increases the risk of CNS depression. Concomitant use of zolpidem with these drugs may increase drowsiness and psychomotor impairment, including impaired driving ability [see Warnings and Precautions (5.1, 5.2)]. Zolpidem tartrate was evaluated in healthy volunteers in single-dose interaction tudies for several CNS drugs Alcohol

An additive adverse effect on psychomotor performance between alcohol and oral zolpidem was demonstrated [see Warnings and Precautions (5.1, 5.2)].

<u>Opioids</u> The concomitant use of zolpidem tartrate tablets with opioids may increase the risk of respiratory depression. Limit dosage and duration of concomitant use of zolpidem tartrate tablets and opioids [see Dosage and Administration (2.3), Warnings an Precautions (5.7)].

Imipramine, Chlorpromazine ination with zolpidem produced no pharmacokinetic interaction other than a 20% decrease in peak levels of imipramine, but there was an additive effect of decreased alertness. Similarly, chlorpromazine in combination with zolpidem produced no pharmacokinetic interaction, but there was an additive effect of decreased alertness and nance [see Clinical Pharmacology (12.3)]

Sertraline Concomitant administration of zolpidem and sertraline increases exposure to zolpidem [see Clinical Pharmacology (12.3)]

After multiple doses of zolpidem tartrate and fluoxetine an increase in the zolpidem half-life (17%) was observed. There was no evidence of an additive effect in psychomotor performance [see Clinical Pharmacology (12.3)].

Haloperidol A study involving ha ridol and zolpidem revealed no effect of haloperidol on the pharmacokinetics or pharmac of zolpidem. The lack of a drug interaction following single-dose administration does not predict the absence of an effect

following chronic administration [see Clinical Pharmacology (12.3)]. 7.2 Drugs that Affect Drug Metabolism via Cytochrome P450 Some compounds known to induce or inhibit CYP3A may affect exposure to zolpidem. The effect of drugs that induce or

inhibit other P450 enzymes on the (CYP3A4 Inducers

Rifampin, a CYP3A4 inducer, significantly reduced the exposure to and the pharmacodynamic effects of zolpidem. Use of Rifampin in comb ination with zolpidem may decrease the efficacy of zolpidem and is not recommended [see Clinica Pharmacology (12.3)].

St. John's wor Use of St. John's wort, a CYP3A4 inducer, in combination with zolpidem may decrease blood levels of zolpidem and is not

CYP3A4 Inhibitors

Ketoconazole, a potent CYP3A4 inhibitor, increased the exposure to and pharmacodynamic effects of zolpidem. Consideration should be given to using a lower dose of zolpidem when a potent CYP3A4 inhibitor and zolpidem are given ogether *[see Clinical Pha* coloay (12,3)]

USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

Risk Summary Neonates born to mothers using zolpidem late in the third trimester of pregnancy have been reported to experience symptoms of respiratory depression and sedation [see Clinical Considerations and Data]. Published data on the use of olpidem during pregnancy have not reported a clear association with zolpidem and major birth defects [see Data]. Ora administration of zolpidem to pregnant rats and rabbits did not indicate a risk for adverse effects on fetal development at clinically relevant doses *[see Datai*

The estimated background risk of major birth defects and miscarriage for the indicated populations are unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the stimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% o 20%, respectivel

Clinical Considerations etal/neonatal adverse reactions

colpidem crosses the placenta and may produce respiratory depression and sedation in neonates. Monitor neonates exposed to zolpidem tartrate tablets during pregnancy and labor for signs of excess sedation, hypotonia, and respiratory depression and manage accordingly.

Published data from observational studies, birth registries, and case reports on the use of zolpidem during pregnancy do not

report a clear association with zolpidem and major birth defects. There are limited postmarking reports of severe to moderate cases of respiratory depression that occurred after birth in neonates whose mothers had taken zolpidem during pregnancy. These cases required artificial ventilation or intratracheal intubation. The majority of neonates recovered within hours to a few weeks after birth once treated. Zolpidem has been shown to cross the placenta.

. nimal data

Oral administration of zolpidem to pregnant rats during the period of organogenesis at 4, 20, and 100 mg base/kg/day, which are approximately 5, 25, and 120 times the maximum recommended human dose (MRHD) of 10 mg/day (8 mg zolpiden the opportunities of the second secon Oral administration of zolpidem to pregnant rabbits during the period of organogenesis at 1, 4, and 16 mg base/kg/day,

which are approximately 2.5, 10, and 40 times the MRH0 of 10 mg/day (8 mg zolpidem base) based on mg/m² body surface area caused embryo-fetal death and delayed fetal development (incomplete fetal skeletal ossification) at a maternally toxic ecreased body weight gain) dose 40 times the MRHD based on mg/m² body surface area.

Oral administration of zolpidem to pregnant rats from day 15 of gestation through lactation at 4, 20, and 100 mg base/kg/day, which are approximately 5, 25, and 120 times the MRHD of 10 mg/day (8 mg zolpidem base) based on mg/m² body surface area, delayed offspring growth and decreased survival at doses 25 and 120 times, respectively, the MRHD based on mg/m 8.2 Lactation

Risk Summary

published literature report the presence of zolpidem in human milk. There are reports of excess sedation infants exposed to zolpidem through breastmilk [see Clinical Considerations]. There is no information on the effects of zolpidem on milk production. The developmental and health benefits of breastfeeding should be considered along with the nother's clinical need for zolpidem tartrate tablets and any potential adverse effects on the breastfed infant from zolpi m the underlying maternal condition

Infants exposed to zolpidem tartrate tablets through breastmilk should be monitored for excess sedation, hypotonia, and respiratory depression. A lactating woman may consider interrupting breastfeeding and pumping and discarding breast milk during treatment and for 23 hours (approximately 5 elimination half-lives) after zolpidem tartrate tablets administration in order to minimize drug exposure to a breast fed infant.

8.4 Pediatric Use Zolpidem tartrate tablets are not recommended for use in children. Safety and effectiveness of zolpidem in pediatric patients

below the age of 18 years have not been established.

below intege of operation of the operation of the operation of the operation of the operative operation of the operative opera compared to placebo. Psychiatric and nervous system disorders comprised the most frequent (>5%) treatment emerger adverse reactions observed with zolpidem versus placebo and included dizziness (23.5% vs 1.5%), headache (12.5% vs 9.2%), and hallucinations were reported in 7% of the pediatric patients who received zolpidem; none of the pediatric patients who received placebo reported hallucinations [see Warnings and Precautions (5.5)]. Ten patients on zolpidem (7.4%) discontinued treatment due to an adverse reaction.

A total of 154 patients in U.S. controlled clinical trials and 897 patients in non-U.S. clinical trials who received zolpidem were 260 years of age. For a pool of U.S. patients receiving zolpidem at doses of \leq 10 mg or placebo, there were three adverse reactions occurring at an incidence of at least 3% for zolpidem and for which the zolpidem incidence was at least twice the blacebo incidence (i.e., they could be considered drug related).

Zolpidem	Placebo
3%	0%
5%	2%
3%	1%
	3% 5%

A total of 30/1,959 (1.5%) non-U.S. patients receiving zolpidem reported falls, including 28/30 (93%) who were \geq 70 years of 28/30 (93\%) age. Of these 28 patients, 23 (82%) were receiving zolpidem doses >10 mg. A total of 24/1.959 (1.2%) non-U.S. patients section and the section of the sect The dose of zolpidem tartrate tablets in elderly patients is 5 mg to minimize adverse effects related to impaired motor and/or

ve performance and unusual sensitivity to sedative/hypnotic drugs *[see Warnings and Precautions (5.2)*] 8.6 Gender Difference in Pharmacokinetics

approximately 45% higher at the same dose in female subjects compared with male subjects. Given the higher blood levels of zolpidem tartrate in women compared to men at a given dose, the recommended initial dose of zolpidem tartrate tablets for adult women is 5 mg, and the recommended dose for adult men is 5 or 10 mg. n geriatric patients, clearance of zolpidem is similar in men and women. The recommended dose of zolpidem tartrate tablets

n geriatric patients is 5 mg regardless of gender 8.7 Hepatic Impairment nded dose of zolpidem tartrate tablets in patients with mild to moderate hepatic impairment is 5 mg once daily

immediately before bedtime. Avoid zolpidem tartrate tablets use in patients with severe hepatic impairment as it may contribute to encephalopathy [see Dosage and Administration (2.2), Warnings and Precautions (5.8), Clinical Pharmacology

DRUG ABUSE AND DEPENDENCE

.1 Controlled Substance n tartrate is classified as a Schedule IV controlled substance by federal regulation.

9.2 Abuse

Abuse and addiction are separate and distinct from physical dependence and tolerance. Abuse is characterized by misuse of The drug for non-medical purposes, often in combination with other syschactive substances. Tolerance is a state of adaptation in which exposure to a drug induces changes that result in a diminution of one or more of the drug effects over time. Tolerance may occur to both desired and undesired effects of drugs and may develop at different rates for different

Addiction is a primary, chronic, neurobiological disease with genetic, psychosocial, and environmental factors influencing its development and manifestations. It is characterized by behaviors that include one or more of the following: impaired control over drug use, compulsive use, continued use despite harm, and craving. Drug addiction is a treatable disease, using a ary approach, but relapse is cor

Studies of abuse potential in former drug abusers found that the effects of single doses of zolpidem tartrate 40 mg were similar, but not identical, to diazepam 20 mg, while zolpidem tartrate 10 mg was difficult to distinguish from placebo. Because persons with a history of addiction to, or abuse of, drugs or alcohol are at increased risk for misuse, abuse and tion of zolpidem, they should be r 9.3 Dependence

Use of zolpidem tartrate tablets may lead to the development of physical and/or psychological dependence. The risk of creases with dose and duration of treatment. The risk of abuse and dependence is also greater in patients with a history of alcohol or drug abuse.

Zolpidem tartrate tablets should be used with extreme caution in patients with current or past alcohol or drug abuse Explorement and access back of adaptation that is manifested by a specific withdrawal syndrome that can be produced by abrupt cessation, rapid dose reduction, decreasing blood level of the drug, and/or administration of an antagonist. Sedative/hypnotics have produced withdrawal signs and symptoms following abrupt discontinuation. These reported symptoms range from mild dysphoria and insomial to a withdrawal syndrome that may include abdominal and muscle cramps, vomiting, sweating, tremors, and convulsions and delirium. The following adverse events, which are considered to meet the DSM-III-R criteria for uncomplicated sedative/hypotoic

withdrawal, were reported, during clinical trials with zolpidem tartrate following placebo substitution occurring within 48 hours following last zolpidem treatment: fatigue, nausea, flushing, lightheadedness, uncontrolled crying, emesis, stomach cramps, panic attack, nervousness, and abdominal discomfort. These reported adverse events occurred at an incidence of 1% or less. However, available data cannot provide a reliable estimate of the incidence, if any, of dependence during treatment at recommended doses. There have been postmarketing reports of abuse, dependence, and withdrawal with

10 OVERDOSAGE 10.1 Signs and Sympton

In postmarketing experience of overdose with zolpidem tartrate alone, or in combination with CNS-depressant agents, impairment of consciousness ranging from somnolence to coma, cardiovascular and/or respiratory compromise, and fatal outcomes have been reported

General symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate.

Intravenous fluids should be administered as needed. Zolpidem's sedative hypnotic effect was shown to be reduced by flumazenil and therefore may be useful; however, flumazenil administration may contribute to the appearance of neurological symptoms (convulsions). As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and general supportive measures employed. Hypotension and CNS depression appointer agris should be mixed as a propriate medical intervention. Sedating drugs should be motioned and treated by appropriate medical intervention. Sedating drugs should be withheld following zolpidem overdosage, even if excitation occurs. The value of dialysis in the treatment of overdosage has not been determined, although hemodialysis studies in patients with renal failure receiving therapeutic doses have demonstrated that zolpidem is not

s with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poison control center for up-to-date information on the management of hypnotic drug product overdosage. 1 DESCRIPTION

olpidem tartrate, a gamma-aminobutyric acid (GABA) A receptor positive modulator of the imidazopyridine class. Zolpidem tartrate is available in 5 mg and 10 mg strength tablets for oral administration Chemically, zolpidem is N,N,6-trimethyl-2-p-tolylimidazo[1,2-a] pyridine-3-acetamide L-(+)-tartrate (2:1). It has the following structure:

н-с-он но-с-н COOF

Zolpidem tartrate, USP is a white to off-white crystalline powder that is sparingly soluble in water, alcohol, and propylene glycol. It has a molecular weight of 764.88. Each zolpidem tartrate tablet, USP includes the following inactive ingredients: hypromellose, lactose monohydrate, microcrystalline cellulose, magnesium stearate, polyethylene glycol, sodium starch glycolate, titanium dioxide and ferric le red: the 10 mg tablet al ontains ferric oxide yellow

12.1 Mechanism of Action

insomnia through binding to the benzodiazepine site of a subunit containing GABA A receptors, increasing the frequency of chloride channel opening resulting in the inhibition of neuronal excitation

colpidem binds to GABA A receptors with greater affinity for $\alpha 1$ subunit relative to $\alpha 2$ and $\alpha 3$ subunit containing receptors.

and a short elimination half-life (T_{12}) in healthy subjects. In a single-dose crossover study in 45 healthy subjects administered 5 and 10 mg zolpidem tartrate tablets, the mean pea

5 mm



2 CLINICAL PHARMACOLOGY

olpidem is a GABA A receptor positive modulator presumed to exert its therapeutic effects in the short-term treatment of

relative absence of myorelaxant effects in animal studies. Zolpidem has no appreciable binding affinity for dopaminergic D2.

serotonergic 5HT2, adrenergic, histaminergic or muscarinic receptors.

12.3 Pharmacokinetics The pharmacokinetic profile of zolpidem tartrate tablets is characterized by rapid absorption from the gastrointestinal tract

concentrations (C_) were 59 (range: 29 to 113) and 121 (range: 58 to 272) ng/mL, respectively, occurring at a mean time T_{max}) of 1.6 hours for both. The mean zolpidem tartrate tablets elimination half-life was 2.6 (range: 1.4 to 4.5) and 2.5 (range: 1.4 to 3.8) hours, for the 5 and 10 mg tablets, respectively. Zolpidem tartrate tablets are converted to inactive metabolites that are eliminated primarily by renal excession. Jobje and that rate tables denotes are converted to inactive the data of th 40 and 790 ng/mL. Zolpidem did not accumulate in young adults following nightly dosing with 20 mg zolpidem tartrate tablets for 2 weeks

A food-effect study in 30 healthy male subjects compared the pharmacokinetics of zolpidem tartrate tablets 10 mg wher administered while fasting or 20 minutes after a meal. Results demonstrated that with food, mean AUC and C_{max} were decreased by 15% and 25%, respectively, while mean T____ was prolonged by 60% (from 1.4 to 2.2 hr). The half-life remained unchanged. These results suggest that, for faster sleep onset, zolpidem tartrate tablets should not be administered with or immediately after a meal. Special Populations

In the elderly, the dose for zolpidem tartrate tablets should be 5 mg (see Warnings and Precautions (5), Dosage and Administration (2). This recommendation is based on several studies in which the mean C_{max} T_{1/2}, and AUC were significantly increased when compared to results in young adults. In one study of eight elderly subjects (>70 years), the means for C_{max} T_{1/22} and AUC significantly increased by 50% (255 vs 384 ng/mL), 32% (2.2 vs 2.9 hr), and 64% (955 vs 1,562 ng-hr/mL), respectively, as compared to younger adults (20 to 40 years) following a single 20 mg oral dose. Zolpidem tartrate tablets did not accumulate in elderly subjects following nightly oral dosing of 10 mg for 1 week.

Hepatic impairment The pharmacokinetics of zolpidem tartrate tablets in eight patients with chronic hepatic insufficiency was compared to results in healthy subjects. Following a single 20 mg oral zolpidem tartrate dose, mean Cmar and AUC were found to be two times (250 vs 499 ng/mL) and five times (788 vs 4,203 ng hr/mL) higher, respectively, in hepatically compromised patients. T_{max} did not change. The mean half-life in cirrhotic patients of 9.9 hr (range: 4.1 to 25.8 hr) was greater than that observed in jormal subjects of 2.2 hr (range: 1.6 to 2.4 hr) Isee Dosage and Administration (2.2). Warnings and Precautions (5.8). Use in Specific Populations (8.7)].

Renal impairment The pharmacokinetics of zolpidem tartrate was studied in 11 patients with end-stage renal failure (mean $Cl_{c} = 6.5 \pm 1.5$ mL/min) undergoing hemodialysis three times a week, who were dosed with zolpidem tartrate 10 mg orally each day for 14 or 21 days. No statistically significant differences were observed for C___, T___, half-life, and AUC between the first and last day of drug administration when baseline concentration adjustments were made. Zolpidem was not hemodialyzable. No accumulation of unchanged drug appeared after 14 or 21 days. Zolpidem pharmacokinetics was not significantly different in renally impaired patients. No dosage adjustment is necessary in patients with compromised renal function.

Drug Interactions CNS depressants

Coadministration of zolpidem with other CNS depressants increases the risk of CNS depression [see Warnings and Precautions (5.2). Zolpidem tartrate was evaluated in healthy volunteers in single-dose interaction studies for several CNS drugs. Imipramine in combination with zolpidem produced no pharmacokinetic interaction other than a 20% decrease in peak levels of impramine, but there was an additive effect of decreased alertness. Similarly, chlororomazine in combinatio with zolpidem produced no pharmacokinetic interaction, but there was an additive effect of decreased alertness and osychomotor performance. A study involving haloperidol and zolpidem revealed no effect of haloperidol on the pharmacokinetics or pharmacodynamics

of zolpidem. The lack of a drug interaction following single-dose administration does not predict the absence of an effect ving chronic admin An additive adverse effect on psychomotor performance between alcohol and oral zolpidem was demonstrated [see

Warnings and Precautions (5.2)]. Following five consecutive nightly doses at bedtime of oral zolpidem tartrate 10 mg in the presence of sertraline 50 mg (17 consecutive daily doses, at 7:00 am, in healthy female volunteers), zolpidem C---- was significantly higher (43%) and T--- was

significantly decreased (-53%). Pharmacokinetics of seriraline and N-chemethyle methods and the series of the seri did not demonstrate any clinically significant pharmacokinetic or pharmacodynamic interactions. When multiple doses of solpidem and fluoxetine were given at steady state and the concentrations evaluated in healthy females, an increase in the zolpidem half-life (17%) was observed. There was no evidence of an additive effect in psychomotor performance. Drugs that affect drug metabolism via cytochrome P450

ompounds known to inhibit CYP3A may increase exposure to zolpidem. The effect of inhibitors of other P450 enzymes A single-dose interaction study with zolpidem tartrate 10 mg and itraconazole 200 mg at steady-state levels in male

volunteers resulted in a 34% increase in AUCnot of zolpidem tartrate. There were no pharmacodynamic effects of zolpidem detected on subjective drowsiness, postural sway, or psychomotor performance. A single-dose interaction study with zolpidem tartrate 10 mg and rifampin 600 mg at steady-state levels in female subjects

showed significant reductions of the AUC (-73%), C_{max} (-58%), and T_{v2} (-36%) of zolpidem together with significant reductions in the pharmacodynamic effects of zolpidem tartrate. Rifampin, a CYP3A4 inducer, significantly reduced the exposure to and the pharmacodynamic effects of zolpidem [see Drug Interactions (7.2)]. Similarly, SL John's wort, a CVP3A4 induced may also decrease the blood levels of zolpidem. A single-dose interaction study with zolpidem tartrate 5 mg and ketoconazole, a potent CVP3A4 inhibitor, given as 200 mg

twice daily for 2 days increased C_{my} of zolpidem (30%) and the total AUC of zolpidem (70%) compared to zolpidem alone and prolonged the elimination half-life (30%) along with an increase in the pharmacodynamic effects of zolpidem [see Drug Interactions (7.2)]. Additionally, fluvoxamine (a strong inhibitor of CYP1A2 and a weak inhibitor of CYP3A4 and CYP2C9) and ciprofloxacin (a

strong inhibitor of CYP1A2 and a moderate inhibitor of CYP3A4) are also likely to inhibit zolpidem's metabolic pathw potentially leading to an increase in zolpidem exposure.

Other drugs with no interactions with zolpidem

A study involving cimetidine/zolpidem tartrate and ranitidine/zolpidem tartrate combinations revealed no effect of either drug on the pharmacokinetics or pharmacodynamics of zolpidem. Zolpidem tartrate had no effect on digoxin pharmacokinetics and did not affect prothrombin time when given with warfarin in

nealthy subjects 13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

idem was administered to mice and rats for 2 years at oral doses of 4, 18, and 80 mg base/kg/day. In mice, these doses are approximately 2.5, 10, and 50 times the MRHD of 10 mg/day (8 mg zolpidem base) based on mg/m² body surface area and in rats, these doses are approximately 5, 20, and 100 times the MRHD based on mg/m² body surface area. No evidence of carcinogenic potential was observed in mice. In rats, renal tumors (lipoma, liposarcoma) were seen at the mid and high

Mutagenesis

olpidem was negative in in vitro (bacterial reverse mutation, mouse lymphoma, and chromosomal aberration) and in vivo (mouse micronucleus) genetic toxicology assays.

Impairment of Fertility tered to rats at 4. 20. and 100 mg base/kg/day, which are approximately 5, 25, and 120 times the MRHD of 10 mg/day (8 mg zolpidem base) based on mg/m² body surface area, prior to and during mating, and continuing in females through postpartum day 25. Zolpidem caused irregular estrus cycles and prolonged precoital intervals at the highest lose tested, which is approximately 120 times the MRHD based on mg/m² body surface area. The NOAEL for these effects is 25 times the MRHD based on a mg/m² body surface area. There was no impairment of fertility at any dose tested.

14 CLINICAL STUDIES

Normal adults experiencing transient insomnia (n=462) during the first night in a sleep laboratory were evaluated in a double-blind, parallel group, single-night trial comparing two doses of zolpidem (7.5 and 10 mg) and placebo. Both zolpidem doses were superior to placebo on objective (polysomnographic) measures of sleep latency, sleep duration, and number of awakenings.

Normal elderly adults (mean age 68) experiencing transient insomnia (n=35) during the first two nights in a sleep laborator were evaluated in a double-bind, crossover, 2-night trial comparing four doses of zolpidem (5, 10, 15 and 20 mg) and placebo. All zolpidem doses were superior to placebo on the two primary PSG parameters (sleep latency and efficiency) and all four subjective outcome measures (sleep duration, sleep latency, number of awakenings, and sleep quality). 14.2 Chronic Insomnia

dem was evaluated in two controlled studies for the treatment of patients with chronic insomnia (most closed

resembling primary insomnia, as defined in the APA Diagnostic and Statistical Manual of Mental Disorders, DSM-IVTM). Adult outpatients with chronic insomnia (n=75) were evaluated in a double-blind, parallel group, 5-week trial comparing two does of zopidem tartrate and placebo on objective (polysomnographic) measures of sleep latency and sleep efficiency zolpidem 10 mg was superior to placebo on sleep latency for the first 4 weeks and on sleep efficiency for weeks 2 and 4 Colpidem was comparable to placebo on number of awakenings at both doses studied.

Adult outpatients (n=141) with chronic insomnia were also evaluated, in a double-blind, parallel group, 4-week trial comparing two doses of zolpidem and placebo. Zolpidem 10 mg was superior to placebo on a subjective mea atency for all 4 weeks, and on subj

ncreased wakefulness during the last third of the night as measured by polysomnography has not been observed in clinical

rials with zolpidem tartrate tablets 14.3 Studies Pertinent to Safety Concerns for Sedative/Hypnotic Drugs

Next-Day Residual Effects

Next-day residual effects of zoloidem tartrate tablets were evaluated in seven studies involving normal subjects. In three studies in adults (including one study in a phase advance model of transient insomnia) and in one study in elderly subjects, a small but statistically significant decrease in performance was observed in the Digit Symbol Substitution Test (DSST) when compared to placebo. Studies of zolpidem tartrate tablets in non-elderly patients with insomnia did not detect evidence of next-day residual effects using the DSST, the Multiple Sleep Latency Test (MSLT), and patient ratings of alertnes Rebound Effects

There was no objective (polysomnographic) evidence of rebound insomnia at recommended doses seen in studies evaluating sleep on the nights following discontinuation of zolpidem tartrate tablets. There was subjective evidence of impaired sleep in the elderly on the first post-treatment night at doses above the recommended elderly dose of 5 mg. Memory Impairment

Controlled studies in adults utilizing objective measures of memory yielded no consistent evidence of next-day memory impairment following the administration of zolpidem tartrate tablets. However, in one study involving zolpidem does of 10 and 20 mg, there was a significant decrease in next-morning recall of information presented to subjects during peak drug effect (90 minutes post dose), i.e., these subjects experienced anterograde amnesia. There was also subjective evidence from adverse event data for anterograde amnesia occurring in association with the administration of zolpidem tartrate tablets, predominantly at doses above 10 mg. Effects on Sleep Stages

In studies that measured the percentage of sleep time spent in each sleep stage, zolpidem tartrate tablets have generally In additional that measures the particular step in the sport in the card step and a step, control in the card step step in the sport in the step state. Step step step step step step in the sport in state state and 4 (deep step) was found comparable to place only inconsistent, minor changes in REM (paradoxical) step at the recommended dose. 16 HOW SUPPLIED/STORAGE AND HANDLING

20 joildem tartrate 5 mg tablets, USP are red colored, capsule shaped tablets with the Torrent logo debossed on one side and '5 MG' debossed on the other side and supplied as: NDC Nu

NDC Number	Size
13668-007-01	bottle of 100
13668-007-05	bottle of 500
13668-007-10	bottle of 1000
Zolpidem tartrate 10 mg tab	lets, USP are peach-yellow colored, capsule shaped tablets with the Torrent logo debossed on
one side and '10 MG' deboss	ed on the other side and supplied as:
NDC Number	Size



13668-008-10 Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. 17 PATIENT COUNSELING INFORMATION

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

Inform patients and their families about the benefits and risks of treatment with zolpidem tartrate tablets. Inform patients of the availability of a Medication Guide and instruct them to read the Medication Guide prior to initiating treatment with zolpidem tartrate tablets and with each prescription refill. Review the zolpidem tartrate tablets Medication Guide with every patient prior to initiation of treatment. Instruct patients or caregivers that zolpidem tartrate tablets should be taken only as prescribed

Complex Sleep Behaviors Instruct patients and their families that zolpidem tartrate tablets may cause complex sleep behaviors, including sleepwalking, sleep-driving, preparing and eating food, making phone calls, or having sex while not being fully awake. Serious training, such of the second death have occurred during complex sleep behavior episodes. Tell patients to discontinue zolpidem tartrate tablets and notify their healthcare provider immediately if they develop any of these symptoms *[see Boxed Warning,*

Warnings and Precautions (5.1)].

Non-memory and in control of the second seco dosing instructions are not carefully followed. Tell patients to wait for at least 8 hours after dosing before driving or engaging today in advocument of the carbon provide the providet the providet the providet the providet the providet the pro

Warnings and Precautions (5.2)].

Anaphylactic and Anaphylactoid Reactions Inform patients that severe anaphylactic and anaphylactoid reactions have occurred with zolpidem. Describe the signs/symptoms of these reactions and advise patients to seek medical attention immediately if any of them occur /see gs and Precautions (5.4)].

tients to immediately report any suicidal thoughts.

Alcohol and other Drugs

Ask patients about alcohol consumption, medicines they are taking, and drugs they may be taking without a prescription. Advise patients not to use zolpidem tartrate tablets if they drank alcohol that evening or before been mitant Use with Opioids

patients and caregivers that potentially serious additive effects may occur if zolpidem tartrate tablets is used with opioids and not to use such drugs concomitantly unless supervised by a healthcare provider [see Warnings and Precautions (5.2. 5.7). Drug Interactions (7.1)].

Tolerance, Abuse, and Dependence Tell patients not to increase the dose of zolpidem tartrate tablets on their own, and to inform you if they believe the drug "does

stration Instructions Patients should be counseled to take zolpidem tartrate tablets right before they get into bed and only when they are able to stay in bed a full night (7 to 8 hours) before being active again. Zolpidem tartrate tablets should not be taken with or ately after a meal. Advise patients NOT to take zolpidem tartrate tablets if they drank alcohol that evening.

Pregnancy Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during treatment with zolpidem tarrate tablets. Advise patients that use of zolpidem tarrate tablets late in the third trimester may cause respiratory depression and sedation in neonates. Advise mothers who used zolpidem tarrate tablets during the late third trimester of pregnancy to monitor neonates for signs of sleepiness (more than usual), breathing difficulties, or limpness [see Use in Specific Populations (8.1)].

Lactation Advise breastfeeding mothers using zolpidem tartrate tablets to monitor infants for increased sleepiness, breathing difficulties, or limpness. Instruct breastfeeding mothers to seek immediate medical care if they notice these signs. A lactating woman may consider pumping and discarding breastmilk during treatment and for 23 hours after zolpidem tartrate tablets administration to minimize drug exposure to a breastfed infant [see Use in Specific Populations (8.2)].

MEDICATION GUIDE

Zolpidem Tartrate (zole-PI-dem TAR-trate) Tablets USP, for oral use C-IV

What is the most important information I should know about zolpidem tartrate tablets?

- Zolpidem tartrate tablets may cause serious side effects, including: Complex sleep behaviors. After taking zolpidem tartrate tablets, you
- may get up out of bed while not being fully awake and do an activity that you do not know you are doing. The next morning, you may not remember that you did anything during the night. These activities may happen with zolpidem tartrate tablets whether or not you drink alcohol or take other medicines that make you sleepy. Some of these complex sleep behaviors have caused serious injury and death. People taking
- zolpidem tartrate tablets have reported:
- o sleep-walking
- sleep-driving
- $\circ~$ making and eating food
- \circ talking on the phone
- having sex

- It is not known if zolpidem tartrate tablets is safe and eff children under the age of 18 years. Zolpidem tartrate table recommended for use in children under the age of 18 years.
- Zolpidem tartrate tablets are a federally controlled su (C-IV) because it can be abused or lead to dependent zolpidem tartrate tablets in a safe place to protect it from the give your zolpidem tartrate tablets to anyone else because it m death or harm them. Selling or giving away this medicine is ag law.

Do not take zolpidem tartrate tablets if you:

- have had complex sleep behaviors that happened after taking tartrate tablets in the past. See "What is the most i information I should know about zolpidem tartrate tablets
- are allergic to zolpidem or any of the ingredients in zolpiden tablets. See the end of this Medication Guide for a comple ingredients in zolpidem tartrate tablets.

Before taking zolpidem tartrate tablets, tell your healthcare about all of your medical conditions, including if you:

- have a history of depression, mental illness, or suicidal th actions
- have a history of drug or alcohol abuse or addiction
- have kidney or liver disease
- have a lung disease or breathing problems
- have sleep apnea
- have myasthenia gravis
- are pregnant or plan to become pregnant. Taking zolpider tablets in the third trimester of pregnancy may harm your unbo Tell your healthcare provider if you become pregnant
- become pregnant during treatment with zolpidem tartrate Babies born to mothers who take zolpidem tartrate tablets
- third trimester of pregnancy may have symptoms of problems and sedation (such as sleepiness or low muscle to are breastfeeding or plan to breastfeed. Zolpidem tartrate pa
- your breast milk and may harm your baby. Talk to your h provider about the best way to feed your baby during treatment zolpidem tartrate tablets.

Fell your healthcare provider about all of the medicines including prescription and over-the-counter medicines, vitar herbal supplements.

Zolpidem tartrate tablets and other medicines can interact with e causing serious side effects. Zolpidem tartrate tablets may affect other medicines work, and other medicines may affect how tartrate tablets works.

Especially tell your healthcare provider if you:

- take benzodiazepines
- take opioids as it may increase the risk of breathing (respiratory depression)
- take tricyclic antidepressants
- take other medicines that can make you sleepy or affect your I (including other zolpidem medicines)
- drink alcohol

You can ask your pharmacist for a list of medicines that inte zolpidem tartrate tablets. Know the medicines you take. Keep a li to show your healthcare provider and pharmacist when you medicine.

How should I take zolpidem tartrate tablets?

- Take zolpidem tartrate tablets exactly as prescribed. Do n your dose on your own. Tell your healthcare provider if **zolpidem tartrate tablets** is not working for you.
- Zolpidem tartrate tablets is for short-term use only. Treat zolpidem tartrate tablets should be as short as possible because of dependence increases the longer you are being treated.

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Stop taking zolpidem tartrate tablets and tell your healthcare	Take 1 zolpidem tartrate tablet at night right before bedtime.	(59° to 86°F) [see USP Controlled Room Temperature].
provider right away if you find out that you have done any of the above activities after taking zolpidem tartrate tablets.	 Do not take zolpidem tartrate tablets if you are not able to stay in bed a full night (7 to 8 hours) before you must be active again. 	Keep zolpidem tartrate tablets and all medicines out of reach of children.
hat are zolpidem tartrate tablets?	 You should not take zolpidem tartrate tablets with or right after a meal. 	
lpidem tartrate tablets is a prescription sleep medicine used for the	Zolpidem tartrate tablet may help you fall asleep faster if you take it on	General Information about the safe and effective use of zolpidem
ort-term treatment of adults who have trouble falling asleep (insomnia).	an empty stomach.	tartrate tablets. Medicines are sometimes prescribed for purposes other than those listed
It is not known if zolpidem tartrate tablets is safe and effective in children under the age of 18 years. Zolpidem tartrate tablets is not	Do not take zolpidem tartrate tablets if you drank alcohol that evening or before bed.	in a Medication Guide. Do not use zolpidem tartrate tablets for a condition
children under the age of 18 years. Zolpidem tartrate tablets is not recommended for use in children under the age of 18 years.	 Call your healthcare provider if your sleep problems get worse or do not 	for which it was not prescribed. Do not give zolpidem tartrate tablets to
Zolpidem tartrate tablets are a federally controlled substance	get better within 7 to 10 days. This may mean that there is another	other people, even if they have the same symptoms that you have. It may
(C-IV) because it can be abused or lead to dependence. Keep	condition causing your sleep problems.	harm them. You can ask your healthcare provider or pharmacist for information about zolpidem tartrate tablets that is written for healthcare
zolpidem tartrate tablets in a safe place to protect it from theft. Never	 If you take too much zolpidem tartrate tablets, call your healthcare provider or go to the nearest hospital emergency room right away. 	professionals.
give your zolpidem tartrate tablets to anyone else because it may cause death or harm them. Selling or giving away this medicine is against the	What are the possible side effects of zolpidem tartrate tablets?	What are the ingredients in zolpidem tartrate tablets?
law.	Zolpidem tartrate tablets may cause serious side effects, including:	
o not take zolpidem tartrate tablets if you:		Active Ingredient: Zolpidem tartrate, USP
have had complex sleep behaviors that happened after taking zolpidem	See "What is the most important information I should know about	Inactive Ingredients: hypromellose, lactose monohydrate, microcrystalline cellulose, magnesium stearate, polyethylene glycol, sodium starch
tartrate tablets in the past. See "What is the most important	zolpidem tartrate tablets?"	glycolate, titanium dioxide and ferric oxide red; the 10 mg tablet also
information I should know about zolpidem tartrate tablets?" are allergic to zolpidem or any of the ingredients in zolpidem tartrate	Zolpidem tartrate tablets can make you sleepy or dizzy and can	contains ferric oxide yellow.
tablets. See the end of this Medication Guide for a complete list of	slow your thinking and motor skills. Because zolpidem tartrate	For more information call 1-800-912-9561.
ingredients in zolpidem tartrate tablets.	tablets can make you sleepy or dizzy you are at a higher risk for falls.	Trademarks are the property of their respective owners.
fore taking zolpidem tartrate tablets, tell your healthcare provider	\circ Do not drive, operate heavy machinery, or do other dangerous	Dispense with Medication Guide available at:
out all of your medical conditions, including if you:	activities until you know how zolpidem tartrate tablets affects you.	https://torrentpharma.com/pi/usa/products/
have a history of depression, mental illness, or suicidal thoughts or actions		Manufactured by:
have a history of drug or alcohol abuse or addiction	 Do not drink alcohol or take opioids or other medicines that may 	Manufactured by: Piramal Pharma Limited
have kidney or liver disease	make you sleepy or dizzy while taking zolpidem tartrate tablets without first talking to your healthcare provider. When taken with	Pithampur - 454775, India.
have a lung disease or breathing problems	alcohol or other medicines that cause sleepiness or dizziness,	
have sleep apnea	zolpidem tartrate tablets may make your sleepiness or dizziness	torrent
have myasthenia gravis are pregnant or plan to become pregnant. Taking zolpidem tartrate	much worse.	
tablets in the third trimester of pregnancy may harm your unborn baby.	Severe allergic reactions. Symptoms include swelling of the tongue or	Manufactured for:
\circ Tell your healthcare provider if you become pregnant or plan to	throat, trouble breathing, and nausea and vomiting. Get emergency	Torrent Pharma INC.
become pregnant during treatment with zolpidem tartrate tablets.	medical help right away if you develop any of these symptoms during	Basking Ridge, NJ 07920.
 Babies born to mothers who take zolpidem tartrate tablets during the third trimester of pregnancy may have symptoms of breathing 	treatment with zolpidem tartrate tablets.	8097495 Revised: August 2024
problems and sedation (such as sleepiness or low muscle tone).	Abnormal thoughts and behavior. Symptoms include more outgoing or aggressive behavior than normal, confusion (delirium), acting	
are breastfeeding or plan to breastfeed. Zolpidem tartrate passes into	strangely, agitation, hallucinations, worsening of depression, and	This Medication Guide has been approved by the U.S. Food and Drug
your breast milk and may harm your baby. Talk to your healthcare	suicidal thoughts or actions.	Administration.
provider about the best way to feed your baby during treatment with zolpidem tartrate tablets.	• Risk of suicide and worsening of depression. Worsening of	
Il your healthcare provider about all of the medicines you take,	depression, including suicidal thoughts and actions can happen during treatment with medicines like zolpidem tartrate tablets. Call your	
cluding prescription and over-the-counter medicines, vitamins, and	healthcare provider right away if you develop any thoughts of suicide,	
rbal supplements.	dying, or worsening depression during treatment with zolpidem tartrate	
lpidem tartrate tablets and other medicines can interact with each other	tablets.	
using serious side effects. Zolpidem tartrate tablets may affect the way	• Breathing problems. See "Before taking zolpidem tartrate tablets, tell your healthcare provider about all of your medical conditions,	
her medicines work, and other medicines may affect how zolpidem	including if you:" Call your healthcare provider or get emergency	
trate tablets works.	medical help right away if you develop breathing problems during	
pecially tell your healthcare provider if you:	treatment with zolpidem tartrate tablets.	
take benzodiazepines	 Problems with your nervous system caused by severe liver disease (hepatic encephalopathy). 	
take opioids as it may increase the risk of breathing problems	 Withdrawal symptoms. You may have withdrawal symptoms if you 	
(respiratory depression)	stop taking zolpidem tartrate tablets suddenly. Withdrawal symptoms	
take tricyclic antidepressants take other medicines that can make you sleepy or affect your breathing	can be serious and include stomach and muscle cramps, vomiting,	
(including other zolpidem medicines)	sweating, shakiness, seizures, and confusion (delirium). Talk to your healthcare provider about slowly stopping zolpidem tartrate tablets to	
drink alcohol	avoid withdrawal symptoms.	
u can ask your pharmacist for a list of medicines that interact with		
lpidem tartrate tablets. Know the medicines you take. Keep a list of them	The most common side effects of zolpidem tartrate tablets include	
show your healthcare provider and pharmacist when you get a new edicine.	sleepiness, dizziness, diarrhea, and grogginess or feeling like you have been drugged.	
w should I take zolpidem tartrate tablets?	Soon di uggod.	
Take zolpidem tartrate tablets exactly as prescribed. Do not change	These are not all the side effects of zolpidem tartrate tablets.	
your dose on your own. Tell your healthcare provider if you think	Coll your deater for medical advice about side offects. You may see that the	
zolpidem tartrate tablets is not working for you.	Call your doctor for medical advice about side effects. You may report side effects to FDA at 1–800–FDA–1088.	
Zolpidem tartrate tablets is for short-term use only. Treatment with zolpidem tartrate tablets should be as short as possible because the risk	How should I store zolpidem tartrate tablets?	
of dependence increases the longer you are being treated.	 Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C 	
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