

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

 **TRIAZOLAM**

Triazolam

Tablets, 0.25 mg and Oral

USP

ATC code: N05CD05

Hypnotic

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RECENT MAJOR LABEL CHANGES

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

TRIAZOLAM (Triazolam Tablets USP) is indicated for

- the symptomatic relief of transient and short-term insomnia in patients who have difficulty falling asleep. Triazolam is not recommended for early morning awakenings.

The use of hypnotics should be restricted for insomnia where disturbed sleep results in impaired daytime functioning.

1.1 Pediatrics

Pediatrics (<18 years): Based on the data submitted and reviewed by Health Canada, the safety and efficacy of TRIAZOLAM in pediatric patients has not been established; therefore, Health Canada has not authorized an indication for pediatric use. See [7 WARNINGS AND PRECAUTIONS](#).

1.2 Geriatrics

Long-term use of TRIAZOLAM should be avoided in elderly patients. Enhanced monitoring is recommended. See [7 WARNINGS AND PRECAUTIONS](#), [Falls and fractures](#); [4.1 Dosing considerations](#).

2 CONTRAINDICATIONS

- TRIAZOLAM is contraindicated in patients with known hypersensitivity to this drug, other benzodiazepines, or to any ingredient in the formulation, including any non-medical ingredient, or component of the container. For a complete listing, see [6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING](#).
- Triazolam is contraindicated in patients who in the past manifested paradoxical reactions to alcohol and/or sedative medications, and in subjects with a history of substance or alcohol abuse.
- Triazolam is contraindicated in pregnant women. Benzodiazepines may cause fetal damage when administered during pregnancy. During the first trimester of pregnancy, several studies have suggested an increased risk of congenital malformations associated with the use of benzodiazepines. During the last weeks of pregnancy, ingestion of therapeutic doses of a benzodiazepine hypnotic has resulted in neonatal CNS depression due to transplacental distribution. If triazolam is prescribed to women of child-bearing potential, the patient should be warned of the potential risk to a fetus and advised to consult her physician regarding the discontinuation of the drug if she intends to become pregnant.
- Triazolam is contraindicated in patients who have myasthenia gravis or a history of uncorrected narrow-angle glaucoma.
- Triazolam is contraindicated with medications that significantly impair the oxidative metabolism mediated by cytochrome P450 3A (CYP 3A) including cimetidine, erythromycin, ketoconazole, itraconazole, nefazodone, and several HIV protease inhibitors, (see [7 WARNINGS and PRECAUTIONS](#); [9.4 Drug-Drug Interactions](#)).

3 SERIOUS WARNINGS AND PRECAUTIONS BOX

Serious Warnings and Precautions

Addiction, Abuse and Misuse

The use of benzodiazepines, including TRIAZOLAM, can lead to abuse, misuse, addiction, physical dependence and withdrawal reactions. Abuse and misuse can result in overdose or death, especially when benzodiazepines are combined with other medicines, such as opioids, alcohol or illicit drugs.

- Assess each patient's risk prior to prescribing TRIAZOLAM
- Monitor all patients regularly for the development of these behaviours or conditions.
- TRIAZOLAM should be stored securely to avoid theft or misuse.

Withdrawal

Benzodiazepines, like TRIAZOLAM, can produce severe or life-threatening withdrawal symptoms.

- Avoid abrupt discontinuation or rapid dose reduction of TRIAZOLAM.
- Terminate treatment with TRIAZOLAM by gradually tapering the dosage schedule under close monitoring.

See [7 WARNINGS AND PRECAUTIONS, Dependence/Tolerance](#).

Risks from Concomitant use with Opioids

Concomitant use of TRIAZOLAM and opioids may result in profound sedation, respiratory depression, coma and death. See [7 WARNINGS AND PRECAUTIONS, General, Concomitant use with opioids](#) Concomitant use with opioids Concomitant use with opioids Concomitant use with opioids Concomitant use with opioids Concomitant use with opioids.

- Reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are not possible.
- Limit dosages and durations to the minimum required.
- Follow patients for signs and symptoms of respiratory depression and sedation.

Memory disturbance

- Anterograde amnesia of varying severity has been reported following therapeutic doses of benzodiazepines including triazolam. Anterograde amnesia is a dose-related phenomenon and elderly subjects may be at a particular risk. Data from several sources suggest that anterograde amnesia and next day memory loss may occur at a higher rate with triazolam than with other benzodiazepines.
- Cases of transient global amnesia and "traveller's amnesia" have also been reported in association with triazolam, the latter in individuals who have taken the drug to induce sleep while travelling. Transient global amnesia and traveller's amnesia are unpredictable and not necessarily dose-related phenomena. Patients should be warned not to take triazolam under circumstances in which a full night's sleep and clearance of the drug from the body are not possible before they need again to resume full activity (e.g., an overnight flight of less than 7-8 hours).

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

- TRIAZOLAM should always be prescribed at the lowest effective dose for the shortest duration possible.

- Treatment with triazolam should usually not exceed 7-10 consecutive days. Use for more than 2-3 consecutive weeks requires complete reevaluation of the patient.
- TRIAZOLAM can produce withdrawal signs and symptoms or rebound phenomena following abrupt discontinuation or rapid dose reduction. See [3 SERIOUS WARNINGS AND PRECAUTIONS BOX, Withdrawal](#); [7 WARNINGS AND PRECAUTIONS, Dependence/Tolerance](#). Abrupt discontinuation should be avoided and treatment - even if only of short duration - should be terminated by gradually tapering the dosage schedule under close monitoring.
- Tapering should be tailored to the specific patient. Special attention should be given to patients with a history of seizure. See [3 SERIOUS WARNINGS AND PRECAUTIONS BOX, Withdrawal](#); [7 WARNINGS AND PRECAUTIONS, Error! Reference source not found.](#)
- If a patient experiences withdrawal signs and symptoms, consider postponing the taper or raising the benzodiazepine to the previous dosage prior to proceeding with a gradual taper.
- Geriatric patients in particular may be more sensitive to benzodiazepines. See [7 WARNINGS AND PRECAUTIONS, Falls and fractures](#).
- Long-term use of TRIAZOLAM should be avoided in elderly patients. Enhanced monitoring is recommended.

4.2 Recommended Dose and Dosage Adjustment

The starting dose in all patients should be 0.125 mg; for many patients this dose immediately before retiring should be sufficient. In most adults, a dose of 0.25 mg should not be exceeded. A dose of 0.5 mg should be used only for exceptional patients who do not respond adequately to a trial of the lower dose since the risk of several adverse reactions increases with the size of the dose administered.

For elderly, or debilitated patients and patients with disturbed liver/kidney function, the dose should not exceed 0.125 mg before retiring. The 0.25 mg dose should be used only for exceptional patients who do not respond to a trial of the lower dose.

Caution and consideration of dose reduction are recommended during coadministration of CYP 3A inhibitors with triazolam. See [9.4 Drug-Drug Interactions](#).

Health Canada has not authorized an indication for pediatric use.

4.5 Missed Dose

If the patient misses a dose, inform the patient to skip the missed dose and take the next dose at the regular dosing schedule.

5 OVERDOSAGE

Manifestations of TRIAZOLAM overdose include extensions of its pharmacological effects, namely somnolence, confusion, impaired coordination, slurred speech, and ultimately coma. Respiratory depression and apnea have been reported with overdoses of triazolam.

Death has been reported in association with overdoses of triazolam by itself, as it has with other benzodiazepines. In addition, fatalities have been reported in patients who have overdosed with a combination of alcohol and a single benzodiazepine, including triazolam. In some of these cases, blood levels of the benzodiazepine and alcohol were lower than those usually associated with reports of fatalities with either substance alone.

As in all cases of drug overdose, respiration, pulse and blood pressure should be monitored and supported by general measures when necessary. ~~Immediate gastric lavage should be performed.~~ An adequate airway should be maintained. Intravenous fluids may be administered. As with the management of intentional overdose with any drug, the physician should bear in mind that multiple agents may have been ingested by the patient.

The benzodiazepine antagonist, flumazenil ('Anexate'), is a specific antidote in known or suspected benzodiazepine overdose. (For conditions of use see 'Anexate ' Product Monograph).

Experiments in animals have indicated that cardiopulmonary collapse can occur with massive intravenous doses of triazolam. This could be reversed with positive mechanical respiration and intravenous infusion of norepinephrine bitartrate or metaraminol bitartrate. Hemodialysis and forced diuresis are probably of little value.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 - Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	Tablet 0.25 mg	croscarmellose sodium, FD&C blue #2, lactose, magnesium stearate, microcrystalline cellulose.

TRIAZOLAM is available as oval, flat-faced with beveled edge, scored tablets. Powder blue 0.25 mg tablets are identified as "0.25". Available in cartons containing 70 unit of use blister strips of 7 tablets each (490 tablets/carton).

7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#).

General

Sleep disturbance may be the presenting manifestation of a physical and/or psychiatric disorder. Consequently, a decision to initiate symptomatic treatment of insomnia should only be made after the patient has been carefully evaluated.

The failure of insomnia to remit after 7-10 days of treatment may indicate the presence of a primary psychiatric and/or medical illness.

Worsening of insomnia or the emergence of new abnormalities of thinking or behavior may be the consequence of an unrecognized psychiatric or physical disorder. These have also been reported to occur in association with the use of TRIAZOLAM.

Concomitant use with opioids: Concomitant use of benzodiazepines, including TRIAZOLAM, and opioids may result in profound sedation, respiratory depression, coma, and death. Because of these risks, reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are not possible. See [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#), [Risks from Concomitant use with Opioids](#); [9.1 Serious Drug Interactions](#).

Observational studies have demonstrated that concomitant use of opioid analgesics and

benzodiazepines increases the risk of drug-related mortality compared to use of opioid analgesics alone. Because of similar pharmacological properties, it is reasonable to expect similar risk with the concomitant use of other CNS depressant drugs with benzodiazepines.

If a decision is made to prescribe TRIAZOLAM concomitantly with opioids, prescribe the lowest effective dosages and minimum durations of concomitant use. In patients already receiving an opioid analgesic, prescribe a lower initial dose of TRIAZOLAM than indicated, and titrate based on clinical response. If an opioid analgesic is initiated in a patient already taking TRIAZOLAM, prescribe a lower initial dose of the opioid analgesic and titrate based on clinical response. Follow patients closely for signs and symptoms of respiratory depression and sedation. See [5 OVERDOSAGE](#).

Advise both patients and caregivers about the risks of respiratory depression and sedation when TRIAZOLAM is used with opioids.

Advise patients not to drive or operate heavy machinery with concomitant use of the opioid.

Interaction with drugs that inhibit metabolism via cytochrome P450 3A: The initial step in triazolam metabolism is hydroxylation catalyzed by cytochrome P450 3A (CYP 3A). Drugs that inhibit this metabolic pathway may have a profound effect on the clearance of triazolam. Consequently, triazolam should be avoided in patients receiving very potent inhibitors of CYP 3A. With drugs inhibiting CYP 3A to a lesser but still significant degree, triazolam should be used only with caution and consideration of appropriate dosage reduction.

Dependence/Tolerance

Use of benzodiazepines, such as TRIAZOLAM, can lead to abuse, misuse, addiction, physical dependence (including tolerance) and withdrawal reactions. Abuse and misuse can result in overdose or death, especially when benzodiazepines are combined with other medicines, such as opioids, alcohol, or illicit drugs.

The risk of dependence increases with higher doses and longer term use but can occur with short-term use at recommended therapeutic doses. The risk of dependence is greater in patients with a history of psychiatric disorders and/or substance (including alcohol) use disorder.

- Discuss the risks of treatment with TRIAZOLAM with the patient, considering alternative (including non-drug) treatment options.
- Carefully evaluate each patient's risk of abuse, misuse and addiction, considering their medical condition and concomitant drug use, prior to prescribing TRIAZOLAM. In individuals prone to substance use disorder, TRIAZOLAM should only be administered if deemed medically necessary, employing extreme caution and close supervision.
- TRIAZOLAM should always be prescribed at the lowest effective dose for the shortest duration possible.
- All patients receiving benzodiazepines should be routinely monitored for signs and symptoms of misuse and abuse. If a substance use disorder is suspected, evaluate the patient and refer them for substance abuse treatment, as appropriate.

Withdrawal

Benzodiazepines, such as TRIAZOLAM, can produce withdrawal signs and symptoms, ranging from mild to severe and even life threatening, following abrupt discontinuation or rapid dose reduction. Other factors that may precipitate withdrawal are switching from a long-acting to a short-acting benzodiazepine, decreasing blood levels of the drug or administration of an antagonist. The risk of withdrawal is higher with higher dosages and/or prolonged use, but can occur with short-term use at recommended therapeutic doses.

The onset of withdrawal signs and symptoms can range from hours to weeks following drug cessation and occur even with tapered dosage. Some symptoms can persist for months. Since symptoms are often similar to those for which the patient is being treated, it may be difficult to distinguish from a relapse of the patient's condition.

Severe or life-threatening signs and symptoms of withdrawal include catatonia, delirium tremens, depression, dissociative effects (e.g. hallucinations), mania, psychosis, seizures (including status epilepticus) and suicidal ideation and behaviour.

Other withdrawal signs and symptoms include abdominal cramps, cognitive impairment, diarrhea, dysphoria, extreme anxiety or panic attacks, headache, hypersensitivity to light, noise and physical contact, insomnia, irritability, muscle pain or stiffness, paresthesia, restlessness, sweating, tension, tremors and vomiting. There is also a possibility of rebound anxiety or rebound insomnia.

- Abrupt discontinuation should be avoided and treatment - even if only of short duration - should be terminated by gradually tapering the dosage schedule under close monitoring.
- Tapering should be tailored to the specific patient. Special attention should be given to patients with a history of seizure.
- If a patient experiences withdrawal symptoms, consider postponing the taper or raising the benzodiazepine to the previous dosage prior to proceeding with a gradual taper.
- Inform patients of risk of discontinuing abruptly, reducing dosage rapidly or switching medications.
- Stress the importance of consulting with their health care professional in order to discontinue safely.
- Patients experiencing withdrawal symptoms should seek immediate medical attention.

See [3 SERIOUS WARNINGS AND PRECAUTIONS BOX, Addiction, Abuse and Misuse, Withdrawal; 4.1 Dosing Considerations.](#)

Driving and Operating Machinery

Patients requiring mental alertness: Because of triazolam's CNS depressant effect, patients receiving the drug should be cautioned against engaging in hazardous occupations requiring complete mental alertness such as operating machinery or driving a motor vehicle. For the same reason, patients should be warned against the concomitant ingestion of triazolam and alcohol or CNS depressant drugs.

Falls and fractures

There have been reports of falls and fractures among benzodiazepine users due to adverse reactions such as sedation, dizziness and ataxia. The risk is increased in those taking concomitant sedatives (including alcoholic beverages), the elderly or debilitated patients.

Hepatic/Biliary/Pancreatic

Patients with specific conditions: Triazolam should be given with caution to patients with impaired hepatic function.

Immune

Severe Anaphylactic and Anaphylactoid Reactions: Rare cases of angioedema involving the tongue, glottis or larynx have been reported in patients after taking the first or subsequent doses of sedative-hypnotics, including TRIAZOLAM. 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 TRIAZOLAM should not be rechallenged with the drug.

Psychiatric

Abnormal thinking and psychotic behavioral changes have been reported to occur in association with the use of benzodiazepine hypnotics including triazolam. Some of the changes may be characterized by decreased inhibition, e.g., aggressiveness or extroversion that seem excessive, similar to that seen with alcohol and other CNS depressants (e.g., sedative/hypnotics). Particular caution is warranted in patients with a history of violent behaviour. Psychotic behavioral changes that have been reported include bizarre behaviour, hallucinations, and depersonalization. Abnormal behaviours associated with triazolam have been reported more with chronic use or high doses.

It can rarely be determined with certainty whether a particular instance of the abnormal behaviours listed above is drug induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nevertheless, the emergence of any new behavioural sign or symptom of concern requires careful and immediate evaluation.

Confusion: the benzodiazepines affect mental efficiency, e.g., concentration, attention and vigilance. The risk of confusion is greater in the elderly and in patients with cerebral impairment.

Anxiety, restlessness: an increase in daytime anxiety (interdose rebound anxiety) and/or restlessness have been observed during treatment with triazolam. This may be a manifestation of interdose withdrawal, due to the very short elimination half-life of the drug.

Depression: caution should be exercised if triazolam is prescribed to patients with signs or symptoms of depression that could be intensified by hypnotic drugs. Suicidal tendencies e.g., intentional overdose, is more common in these patients, thus the least amount of drug that is feasible should be available to them at any one time.

Complex sleep-related behaviours: Complex sleep-related behaviours such as “sleep-driving” (i.e., driving while not fully awake after ingestion of a sedative-hypnotic, with amnesia for the event) have been reported in patients who have taken TRIAZOLAM. Other potentially dangerous behaviours have been reported in patients who got out of bed after taking a sedative-hypnotic and were not fully awake, including preparing and eating food, making phone calls, leaving the house, etc. As with “sleep-driving”, patients usually do not remember these events. The use of alcohol and other CNS-depressants with TRIAZOLAM appears to increase the risk of such behaviours, as does the use of TRIAZOLAM at doses exceeding the maximum recommended dose. TRIAZOLAM is not to be taken with alcohol. Caution is needed with concomitant use of other CNS depressant drugs. Due to the risk to the patient and the community, discontinuation of TRIAZOLAM should be strongly considered for patients who report any such complex sleep-related behaviours.

Renal

Patients with specific conditions: Triazolam should be given with caution to patients with impaired renal function.

Reproductive Health: Female and Male Potential

• Teratogenic Risk

Teratogenic effects

TRIAZOLAM is contraindicated in pregnant women. See [2 CONTRAINDICATIONS](#)

Nonteratogenic effects

It is to be considered that the child born of a mother who is on benzodiazepines may be at some risk for withdrawal symptoms from the drug, during the postnatal period. Also, neonatal flaccidity has been reported in an infant born of a mother who had been receiving benzodiazepines.

Respiratory

Patients with specific conditions: Triazolam should be given with caution to patients with severe pulmonary insufficiency, or sleep apnea.

Respiratory depression and apnea have been reported in patients with compromised respiratory function.

7.1 Special Populations

7.1.1 Pregnant Women

For teratogenic effects. See [2 CONTRAINDICATIONS](#). Non-teratogenic effects: a child born to a mother who is on benzodiazepines may be at some risk for withdrawal symptoms from the drug during the postnatal period. Also, neonatal flaccidity has been reported in an infant born to a mother who had been receiving benzodiazepines.

7.1.2 Breast-feeding

Human studies have not been performed but studies in rats have shown that triazolam and its metabolites are secreted in the milk. Therefore, administration of triazolam to nursing mothers is not recommended.

7.1.3 Pediatrics

Pediatrics (<18 years): No data are available to Health Canada; therefore, Health Canada has not authorized an indication of pediatric use.

7.1.4 Geriatrics

Long-term use of TRIAZOLAM should be avoided in elderly or debilitated patients who may be more sensitive to benzodiazepines. There is an increased risk of cognitive impairment, delirium, falls, fractures, hospitalizations and motor vehicle accidents in these users. Enhanced monitoring is recommended in this population.

Elderly patients are especially susceptible to dose-related adverse effects, such as drowsiness, dizziness, or impaired coordination. Therefore, the lowest possible dose should be used in these subjects.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The most frequent adverse reactions associated with the use of TRIAZOLAM are extensions of the pharmacological effects of the drug, e.g., sedation (morning drowsiness, somnolence), dizziness, nervousness/irritability and impaired coordination.

The most serious adverse reactions which may occur include memory impairment, abnormal thinking/behavior, confusion, anxiety, and depression. See [7 WARNINGS AND PRECAUTIONS](#).

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

The incidence of adverse reactions among patients receiving triazolam or placebo is listed in the

table. The figures cannot be used to predict precisely the incidence of untoward events in the course of usual medical practice where patient characteristics and other factors often differ from those in clinical trials. Comparison of the cited figures, however, can provide the prescriber with some basis for estimating the relative contributions of drug and nondrug factors to the untoward event incidence rate in the population studied.

PERCENT OF PATIENTS REPORTING ADVERSE REACTIONS (≥0.5%)

The adverse reaction profile of triazolam observed in controlled clinical trials illustrates the dose-dependency of most of the adverse reactions. **At present, the higher dose range is not recommended.** See [4 DOSAGE AND ADMINISTRATION](#).

Body system Adverse Reaction	<u>Triazolam</u> 0.1-0.3 mg n = 1002	<u>Triazolam</u> 0.4-0.6 mg n = 2370	placebo n = 2036
CARDIOVASCULAR			
palpitations	0.5	0.4	0.4
CNS			
drowsiness/ sedation	9.5	18.6	14.5
headache	5.9	8.1	6.2
dizziness	4.4	9.0	5.8
nervousness/irritability	3.7	4.6	6.4
impaired coordination	1.7	4.3	1.2
insomnia	1.0	1.2	2.8
confusion	0.7	1.0	0.5
mood changes	0.7	0.8	0.7
depression	0.5	1.1	0.7
memory impairment	0.2	1.0	0
GASTROINTESTINAL			
nausea/vomiting	2.9	3.8	3.5
dry mouth	0.5	0.9	1.4
abdominal pain/discomfort	0.4	0.6	0.5
diarrhea	0.2	0.8	0.4
METABOLIC/NUTRITION			
appetite change	0	0.5	0.6
MUSCULOSKELETAL			
musculoskeletal/ joint pain	0.8	0.9	0.7
RESPIRATORY			
respiratory infection	1.1	1.7	0.9
SPECIAL SENSES			
visual disturbance	0.4	0.7	0.2
taste alteration	0.4	0.6	0.3

The adverse reactions reported in the table were observed in controlled clinical trials conducted by The Upjohn Company.

8.3 Less Common Clinical Trial Adverse Reactions

Rare (i.e., less than 0.5%) adverse reactions include:

Cardiac disorders: syncope, dyspnea

Ear and labyrinth disorders: hearing impairment, tinnitus

Eye disorders: eye irritation/redness

Gastrointestinal disorders: constipation, flatulence, oral irritation

General disorders and administration site conditions: edema, chest pain, hot/cold flashes, malaise

Investigations: Elevated levels of SGOT, bilirubin and alkaline phosphatase have also been noted.

Musculoskeletal and connective tissue disorders: muscular cramps, muscular weakness

Nervous system disorders: dysesthesia/paresthesia, dream abnormalities, muscle tone disorder, tremor

Psychiatric disorders: drug abuse/habituation, drug withdrawal symptoms, hallucinations, sexual dysfunction

Renal and urinary disorders: micturition difficulties

Respiratory, thoracic and mediastinal disorders: dyspnea

Skin and subcutaneous tissue disorders: dermatitis, diaphoresis

Vascular disorders: hypertension

8.5 Post-Market Adverse Reactions

Injury, Poisoning and Procedural Complications: There have been reports of falls and fractures in benzodiazepine users due to adverse reactions such as sedation, dizziness and ataxia. The risk is increased in those taking concomitant sedatives (including alcoholic beverages), the elderly and debilitated patients.

Dependence/Withdrawal: Development of physical dependence and withdrawal following discontinuation of therapy has been observed with benzodiazepines such as TRIAZOLAM. Severe and life-threatening symptoms have been reported. See [3 SERIOUS WARNINGS AND PRECAUTIONS BOX, Addiction, Abuse and Misuse](#); [7 WARNINGS AND PRECAUTIONS, Dependence/Tolerance](#).

9 DRUG INTERACTIONS

9.1 Serious Drug Interactions

Serious Drug Interactions

Concomitant use of TRIAZOLAM and opioids may result in profound sedation, respiratory depression, coma and death.

- Reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are not possible.
- Limit dosages and durations to the minimum required.
- Follow patients for signs and symptoms of respiratory depression and sedation.

See 7 [WARNINGS AND PRECAUTIONS, General, Concomitant use with opioids](#).

TRIAZOLAM is contraindicated with medications that significantly impair the oxidative metabolism mediated by cytochrome P450 3A (CYP 3A).

See 2 [CONTRAINDICATIONS](#); 7 [WARNINGS AND PRECAUTIONS, General, Interaction with drugs that inhibit metabolism via cytochrome P450 3A](#) ; 9.4 [Drug-Drug Interactions](#)

9.4 Drug-Drug Interactions

TRIAZOLAM produces additive CNS depressant effects when co-administered with alcohol, antihistamines, anticonvulsants, or psychotropic medications which themselves can produce CNS depression.

Pharmacokinetic interactions can occur when triazolam is administered along with drugs that interfere with its metabolism via CYP3A. Concomitant use of triazolam with potent CYP 3A inhibitors is contraindicated. For concomitant use of triazolam with less potent CYP 3A inhibitors caution and dose reduction are recommended. Examples include cimetidine or erythromycin which when co-administered with triazolam cause an approximate doubling of the plasma levels and elimination half-life of triazolam. Consequently, contraindication for potent CYP 3A inhibitors and consideration of dose reduction for less potent CYP 3A inhibitors may be appropriate when patients are treated concomitantly with triazolam.

9.5 Drug-Food Interactions

Interactions with food have not been established.

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

TRIAZOLAM is a benzodiazepine hypnotic with a very short elimination half-life (about 3 hours).

In sleep laboratory studies of one to 21 days duration, triazolam significantly decreased sleep

latency, increased the duration of sleep and decreased the number of nocturnal awakenings. However, after two weeks of consecutive nightly administration, the drug's effect on total wake time was decreased, and the values recorded in the last third of the night approached baseline levels. On the first and/or second night after drug discontinuance (first or second post-drug night), total time asleep, and percentage of time spent sleeping frequently were significantly decreased, and sleep latency significantly increased when compared to baseline (predrug) nights. This effect is referred to as "**rebound**" insomnia.

The duration of hypnotic effect and the profile of unwanted effects may be influenced by the alpha (distribution) and beta (elimination) half-lives of the administered drug and any active metabolites formed. When half-lives are long, the drug or metabolites may accumulate during periods of nightly administration and be associated with impairments of cognitive and motor performance during waking hours. If half-lives are short, the drug and metabolites will be cleared before the next dose is ingested, and carry-over effects related to sedation or CNS depression should be minimal or absent. However, during nightly use and for an extended period, pharmacodynamic tolerance or adaptation to some effects of benzodiazepine hypnotics may develop. If the drug has a very short elimination half-life, it is possible that a relative deficiency (i.e., in relation to the receptor site) may occur at some point in the interval between each night's use. This sequence of events may account for two clinical findings reported to occur after several weeks of nightly use of rapidly eliminated benzodiazepine hypnotics: (1) increased wakefulness during the last third of the night and (2) the appearance of increased day-time anxiety. See [7 WARNINGS AND PRECAUTIONS](#).

When sedation and psychomotor performance were compared in healthy elderly and young subjects, in response to 0.125 and 0.25 mg doses of triazolam, the degree of sedation was greater and the impairment of psychomotor performance more pronounced in the elderly. The age-dependent difference was closely associated with the correspondingly higher plasma triazolam concentrations measured in elderly subjects.

Patients with severe liver disease also demonstrated greater psychomotor impairment than control subjects or patients with minimal liver dysfunction.

10.2 Pharmacodynamics

Triazolam antagonized chemically induced seizures in mice, rats, and cats, but like other benzodiazepines, it was much less effective against electroshock-induced seizures.

In tests measuring potential muscle-relaxant activity, triazolam antagonized strychnine lethality, inhibited the traction response in mice, and depressed spinal reflexes in the decerebrate cat.

Triazolam was found to potentiate a number of central nervous system depressant agents, as measured by the loss of righting reflex in mice. No loss of righting reflex was noted with triazolam alone, except at toxic doses.

Triazolam significantly lowered the LD₅₀'s of chlorpromazine, diphenylhydantoin, glutethimide, and pentobarbital, while having little or no effect on the LD₅₀'s of a number of other drugs.

Triazolam was more active than diazepam in antagonizing foot-shock-induced aggressive behaviour in mice, in inhibiting aggressive behaviour in monkeys, and in suppressing conflict behaviour in rats. Cross dependence studies with barbiturates, direct physical dependence studies, and self-administration studies indicated little potential for physical dependence with triazolam in the animal systems tested.

Triazolam produced changes in EEG activity of monkeys characteristic of those seen with other benzodiazepines.

Triazolam did not influence plasma warfarin levels or alter prothrombin time in rats or dogs.

Triazolam and diazepam caused similar changes in cardiovascular and pulmonary parameters of cats

and dogs at considerably higher doses than those producing central nervous system effects.

10.3 Pharmacokinetics

Pharmacokinetics

Triazolam is rapidly absorbed and peak plasma levels are reached within 2 hours following oral administration. Peak plasma concentration (C_{max}) and area under the plasma-concentration curve (AUC) increase in proportion to the dose, while the time to peak plasma concentration (T_{max}), elimination half-life ($t_{1/2\beta}$), and clearance are independent of dose. Triazolam has a short half-life; the range is reported to be 1.5 to 5.5 hours.

Triazolam is metabolised via hepatic microsomal oxidation. The hydroxylated metabolites, which are inactive, are excreted primarily in the urine as conjugated glucuronides. The two primary metabolites account for approximately 80% of urinary excretion.

Repeated administration of triazolam for 7 days does not lead to accumulation and does not alter the rate of elimination.

Absorption

Triazolam, administered orally to man as a compressed tablet, had a minimal absorption of 82% and a peak plasma level at 1.5 hours. Triazolam had a half-life of 2.7 hours and this was consistent with the absence of accumulated triazolam in the plasma 24 hours after each dose for seven consecutive 1 mg doses. Studies of blood and plasma indicated no accumulation of triazolam related material in the formed elements of the blood.

Distribution:

Tissue distribution of ^{14}C -triazolam radioactivity was studied in the mouse by whole-body section autoradiography. Following oral or intravenous administration, triazolam and/or its metabolites were rapidly and widely distributed throughout the body. The concentration of drug-related material in most organs and tissues had reached a maximum within 1 hr. of dosing, and decreased rapidly thereafter. The ^{14}C concentration in the brain was reasonably well reflected by the blood ^{14}C concentration.

At 37°C, triazolam was 89% bound in human serum. Binding to albumin accounted for only a portion of the total binding observed, since binding in a physiological concentration of human serum albumin amounted to only 49%.

Triazolam crossed the blood-brain barrier in mice after intraperitoneal administration. Brain levels of norepinephrine and dopamine in mice were essentially unchanged by either triazolam or diazepam. Both slowed the utilization of dopamine by the brain and also decreased the incorporation of C14 tyrosine into norepinephrine and dopamine.

Triazolam had no significant effect on serotonin turnover.

Metabolism:

The pharmacokinetics of triazolam were also examined in the rat and dog. Twelve metabolites were found in rat, and 10 metabolites in dog urine. All metabolites found in human urine were also present in rat urine, indicating a qualitative similarity of triazolam metabolism in human and rat. The two major human metabolites were also the major urinary metabolites in the dog, but not the rat.

Urine from humans dosed orally with triazolam - ^{14}C contained small amounts of unmetabolized triazolam as well as 6 metabolites. The two metabolites found in highest concentration in human urine were 1,-hydroxy-triazolam and 4-hydroxy-triazolam which accounted for 69% and 11% of the urinary radioactivity respectively.

Elimination

In the rat, triazolam-related materials were excreted primarily in the faeces, whereas the urinary and fecal excretion were approximately equivalent in the dog. The elimination kinetics of the rat were similar to those of man, whereas in the dog they were more complex.

In man, approximately 85% of drug related materials following oral administration of triazolam -¹⁴C was excreted in the urine whereas approximately 8% was excreted in the faeces. Biliary excretion appeared relatively unimportant in man. Urinary excretion of drug-related materials was quite rapid in man and could be described by two exponentials. The initial excretion rate was equivalent to a mean excretion half-time of about 6 hours and the mean excretion half-time for the terminal excretion phase was about 36 hours.

Special Populations and Conditions

- Geriatrics:** The kinetics of triazolam are significantly influenced by age (see table). Following single oral doses of 0.125 mg and 0.25 mg of triazolam, peak plasma concentrations and area under the curve were significantly higher and clearance significantly lower in elderly subjects (mean age: 69 years) than in younger ones (mean age: 30 years). Age, however, did not influence the time to peak plasma levels and differences in elimination half-life were small.

Mean (\pm standard deviation) pharmacokinetic parameters following single oral doses of triazolam in young and elderly volunteers.				
	Triazolam 0.125 mg		Triazolam 0.25 mg	
	Young (n=26)	Elderly (n=21)	Young (n=26)	Elderly (n=21)
C_{max} (ng/mL)	1.08 \pm 0.08	1.67 \pm 0.16*	2.02 \pm 0.15	3.06 \pm 0.22*
T_{max} (hr)	0.88 \pm 0.08	0.95 \pm 0.11	0.96 \pm 0.10	0.88 \pm 0.07
AUC (ng/ml·hr)	3.85 \pm 0.45	6.24 \pm 0.82*	7.01 \pm 0.68	12.03 \pm 1.11*
$(T_{1/2\beta})$ (hr)	2.94 \pm 0.4	3.03 \pm 0.25	2.43 \pm 0.16	3.00 \pm 0.24*
Clearance (ml/min/kg)	11.4 \pm 2.2	6.8 \pm 0.9*	10.5 \pm 1.0	5.8 \pm 0.4*
* $p < 0.05$				

- **Pregnancy and Breast-feeding:** When triazolam was given to pregnant mice two days before term, drug-related material was found uniformly distributed in the fetus with concentrations approximately the same as in the brain of the mother. When ¹⁴C-triazolam was given orally to lactating rats, triazolam appeared mainly as metabolites in the milk samples obtained at 6 and 24 hours post-administration.
- **Hepatic Insufficiency:** Following oral administration of triazolam, 0.25 mg, triazolam clearance was reduced in eight subjects with biopsy- proven cirrhosis (4.99 ± 3.14 mL/min/kg) as compared to seven normal subjects (6.69 ± 2.52 mL/min/kg). Peak plasma levels and time to peak concentration were not different between the groups. The reduction in triazolam clearance in subjects with cirrhosis correlated with the severity of liver dysfunction.
- **Renal Insufficiency:** Following oral administration of triazolam, 0.5 mg, peak plasma triazolam concentrations were lower in eleven patients with renal failure undergoing dialysis (4.04 ± 1.83 ng/mL) than in patients with normal renal function (6.54 ± 1.70 ng/mL). Other pharmacokinetic parameters were not significantly different between patients with impaired and normal renal function.

11 STORAGE, STABILITY AND DISPOSAL

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

Keep out of reach and sight of children.

TRIAZOLAM should never be disposed of in household trash. Disposal via a pharmacy take back program is recommended.

12 SPECIAL HANDLING INSTRUCTIONS

None

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name:	triazolam
Chemical name:	8-chloro-6(o-chlorophenyl)-1-methyl-4H-S-triazolo(4,3-a), (1,4) benzodiazepine
Molecular formula and molecular mass:	C ₁₇ H ₁₂ Cl ₂ N ₄ and 343.21
Structural formula:	



Physicochemical properties:	Triazolam is a white to off-white, practically odourless, crystalline powder. It is soluble in chloroform; slightly soluble in alcohol; practically insoluble in ether and in water.
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14 CLINICAL TRIALS

This information is not available for this drug product.

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology:

Acute Toxicity: The oral LD₅₀'s in the rat were found to be greater than 5000 mg/kg. The oral LD₅₀ in the mouse was greater than 5000 mg/kg. Signs of toxicity included lethargy, ataxia, reduced motor activity, piloerection, ptosis, hunched back and abdominal distention.

Necropsy of the two rats who died revealed reddening of the pyloric antrum in one case and gaseous distention of the GI tract in the other.

Necropsy of the one mouse that died revealed no visible tissue abnormalities.

Necropsy of animals killed routinely at the conclusion of the study revealed no visible abnormality.

Subacute and Chronic Toxicity: Triazolam was administered orally or intravenously to rats for

periods of 14 days, 86 days and 2 years. In the two 14-day studies (0, 500 and 1000 mg/kg/day p.o.; 0, 0.5, 1.0 and 2.0 mg/kg/day i.v.), triazolam produced sedation, drowsiness and ataxia. In the 86-day study (0, 30, 100 and 300 mg/kg/day p.o.), sedation was observed after dosing.

However, toward the end of the study, only the 300 mg/kg rats appeared to be affected. The higher doses produced increased kidney and adrenal weights in both sexes and increased liver weights in females. In the two-year study (0, 10, 30 and 100 mg/kg/day p.o.), the pharmacologic effects noted were drowsiness, increased aggressiveness in females and some unsteadiness. Male rats receiving the two higher dose levels had shorter mean survival times than did low dose and control animals. These early deaths were associated with urinary calculi and chronic progressive nephrosis. The overall incidence of chronic progressive nephrosis was the same for all males, but developed early in rats receiving the higher triazolam doses.

Seven treated rats developed large thrombi, mainly in the heart. Similarly, 10 treated animals had microscopic foreign body granulomas in their lungs. Triazolam tended to aggravate the incidence and extent of hepatic necrosis. Serum cholesterol levels increased slightly with increasing doses.

Dogs were administered triazolam for periods of 9 days, 13 days, 3 months and one year. In the 9-day study (0 and 100-300 mg/kg/day p.o.), anxiety, ataxia and sedation were seen for the first two days and polydipsia was the only consistent observation throughout the study. In the 13-day study (0, 0.1, 0.5 and 1.0 mg/kg/day i.v.), triazolam produced relaxation and ataxia and a dose-related increase in SGOT, cholesterol and BUN. One dog in the mid-dose group had marked elevation of liver enzymes, hepatocellular degeneration with focal necrosis and raised BSP. In the 3-month study (0, 0.5, 10 and 50 mg/kg/day p.o.), indications of tolerance development were seen and the dose was altered on the thirteenth day (0, 10, 30 and 100 mg/kg/day). Hyperactivity, hyperexcitability, ataxia, sedation and polydipsia were observed. Despite increased food consumption, treated dogs showed lower weight gain than controls. Dogs treated with the two higher triazolam doses had elevated alkaline phosphatase and slightly increased liver weights.

Two out of four dogs at the highest dose had reduced liver glycogen and one had a suggestion of bile duct proliferation. In the one-year study (0, 3, 10 and 30 mg/kg/day p.o. 6 days/wk), triazolam caused ataxia, ptosis, hyperactivity, increased food consumption and loose stools. Dogs in all treated groups had raised alkaline phosphatase levels and decreased prothrombin times. Liver weights were increased in the mid-dose group. At the two higher dose levels, elevation of platelet and leukocyte counts was observed. One high-dose dog was sacrificed at one year after being moribund and convulsing for 24 hours and was found to have acute myocardial degeneration.

Reproductive and Developmental Toxicology:

Reproduction and Teratology Studies: Significant drug-related abnormalities were not seen in the offspring of female rats treated orally with 2 and 5 mg/kg/day of triazolam in the diet prior to mating and throughout the subsequent pregnancy. Similarly, the same regimen administered to males prior to mating had no effect on the pregnancies sired by those males.

Triazolam given orally to pregnant rats from day 6 through day 15 at dosage levels of 10 and 30 mg/kg/day did not adversely affect the reproductive parameters studied with the exception of a slight increase in the average number of resorption sites per litter at the 30 mg/kg level. Some skeletal growth retardation occurred at the 30 mg level as indicated by a higher incidence of 5th metacarpals absent and minor sternbrae variations (mostly incomplete ossification). One fetus from the 30 mg level exhibited a hypoplastic mandible and premaxilla. Another fetus from the same litter lacked all ribs and vertebrae below the 3rd thoracic vertebrae with the exception of one sacral vertebra.

Triazolam administered orally to pregnant rabbits at 10 and 30 mg/kg/day on gestation days 6

through 18 did not adversely affect the reproductive parameters studied. The results of examinations for visceral and skeletal malformations in triazolam treated rabbits revealed minor alterations in rib numbers accompanied by a low incidence of rib and sternbrae malformations suggesting teratogenic activity in this species. The lowest dose level at which the alterations occurred with triazolam was 10 mg/kg/day.

Treatment of pregnant rabbits on gestation days 6 through 18 by gastric intubation of triazolam at 0.2, 0.5, 2 and 5 mg/kg/day or diazepam at 8, 20, 25 and 50 mg/kg/day did not affect the reproductive parameters studied.

The incidence of anatomical variations and abnormalities observed were comparable to current or previous control groups with this strain of rabbit or were considered spontaneous due to their isolated nature. No dose-related teratogenic activity was observed following treatment with triazolam or diazepam under the conditions of this study.

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

TRIAZOLAM

Triazolam tablets

Read this carefully before you start taking **TRIAZOLAM** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **TRIAZOLAM**.

Serious Warnings and Precautions

Addiction, Abuse and Misuse:

Even if you take TRIAZOLAM exactly as you were told to, you are at risk for abuse, misuse, addiction, physical dependence and withdrawal. Abuse and misuse can result in overdose or death, especially if you take TRIAZOLAM with:

- opioids
- alcohol or
- illicit drugs

Your healthcare professional should:

- talk to you about the risks of treatment with TRIAZOLAM as well as other treatment (including non-drug) options
- assess your risk for these behaviours before prescribing TRIAZOLAM
- monitor you while you are taking TRIAZOLAM for the signs and symptoms of misuse and abuse. If you feel like you are craving TRIAZOLAM, or not using it as directed, talk to your healthcare professional right away.

Store TRIAZOLAM in a secure place to avoid theft or misuse.

Withdrawal:

If you suddenly stop taking TRIAZOLAM, lower your dose too fast, or switch to another medication, you can experience severe or life-threatening withdrawal symptoms (see Other warnings you should know about)

- Always contact your healthcare professional before stopping, or lowering your dose of TRIAZOLAM or changing your medicine=

TRIAZOLAM with Opioids:

Taking TRIAZOLAM with opioid medicines can cause:

- severe drowsiness
- decreased awareness
- breathing problems
- coma
- death

Memory loss:

- Even if you take TRIAZOLAM exactly as your healthcare professional tells you, it may increase your risk of experiencing a certain type of memory loss called amnesia. This is when you cannot recall events that happened during a period of time, usually several hours after taking the medicine.

- This memory loss is usually not a problem since you should be asleep during this time. However, it can be a problem if you take TRIAZOLAM to induce sleep while travelling, such as during an airplane flight. This is because you may wake up before the effect of the medicine is gone. This has been called “traveller's amnesia”. TRIAZOLAM is more likely than other benzodiazepine sleeping pills to cause this problem.

What is TRIAZOLAM used for?

TRIAZOLAM is used in adults to relieve the symptoms of:

- transient and short-term insomnia (difficulty falling or staying asleep, or waking up too early in the morning)

It should be used only in patients for whom their daytime activities are affected by their insomnia.

If you are 65 years or older, talk to your doctor before starting TRIAZOLAM. TRIAZOLAM may not be an effective treatment for you and you may be more sensitive to experiencing side effects.

How does TRIAZOLAM work?

TRIAZOLAM belongs to a group of medicines known as benzodiazepines. It has hypnotic (sleep-inducing) properties, which help in the treatment of insomnia. TRIAZOLAM works by decreasing the time required to fall asleep and the number of times you wake up during sleep.

What are the ingredients in TRIAZOLAM?

Medicinal ingredients: triazolam

Non-medicinal ingredients: croscarmellose sodium, FD&C blue #2, lactose, magnesium stearate, and microcrystalline cellulose.

TRIAZOLAM comes in the following dosage forms:

Tablets: 0.25 mg

Do not use TRIAZOLAM if:

- you are allergic to the group of medicines known as benzodiazepines (such as diazepam, clonazepam, chlordiazepoxide, bromazepam or flurazepam)
- you are allergic to triazolam or to any other ingredients in TRIAZOLAM or its packaging
- you have had unexpected reactions to alcohol or sedative (calming) medicines in the past
- you have a history of drug or alcohol abuse
- you are pregnant, think you might be pregnant or are planning to become pregnant
- you have myasthenia gravis (a chronic disease that causes muscle weakness)
- you have a history of narrow-angle glaucoma (a disease of the eye which causes progressive vision loss)
- you are taking the following medicines:
 - cimetidine, a medicine used to treat heartburn and stomach ulcers
 - erythromycin, a medicine used to treat bacterial infections
 - ketoconazole or itraconazole, which are medicines used to treat fungal infections
 - nefazodone, a medicine used to treat depression
 - certain medicines used to treat HIV/AIDS

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take TRIAZOLAM. Talk about any health conditions or problems you may have, including if you:

- have ever had a problem with:
 - substance use, including prescribed or illegal drugs, or
 - alcohol
- have ever had seizures or convulsions (violent uncontrollable shaking of the body with or without loss of consciousness)
- take opioids, which are used to treat pain
- take medicines that can make you sleepy such as those for the treatment of depression, anxiety or insomnia
- have signs or a history of depression, mood problems, mental illness, suicidal thoughts or behavioural problems
- have a history of violent behaviours
- have liver or kidney problems
- have a lung disease or breathing problems
- have problems thinking, confusion or any other type of brain damage
- are 65 years of age or older
- have a condition that causes weakness or frailty
- are breastfeeding, or planning to breast-feed. TRIAZOLAM is not recommended for use during breast-feeding.
- are lactose intolerant. TRIAZOLAM contains lactose.

Other warnings you should know about:

Behavioural Problems:

- Changes in thinking and behaviour may happen while you take TRIAZOLAM. This may happen especially if you take it regularly or at high doses. This can include aggressiveness, extroversion, confusion, strange behaviour, anxiety, restlessness, delusions, hallucinations, feeling like you are not yourself, worsening of insomnia or worsening of depression, including suicidal thinking.
- You may find it helpful to ask a relative or close friend to read this leaflet and tell you if they are worried about any changes in your behaviour. If you develop any unusual or disturbing thoughts or behaviour while taking TRIAZOLAM, talk to your healthcare professional **right away**.

Severe allergic reactions: In rare cases, TRIAZOLAM may cause severe or life threatening allergic reactions. Symptoms of a severe allergic reaction include swelling of the tongue or throat, trouble breathing, nausea, and vomiting. If you experience any of these symptoms, stop taking TRIAZOLAM and tell your healthcare professional **right away**.

Somnambulism (sleepwalking):

- There have been reports of people getting out of bed while not fully awake after taking TRIAZOLAM and doing activities they don't remember. These activities included driving a car ("sleep-driving"), leaving the house, making and eating food, and talking on the phone. This may put you and people around you in danger.
- This unusual behaviour is more likely to occur when TRIAZOLAM is taken with alcohol or other medicines that can make you sleepy such as those for the treatment of depression or anxiety.

- You may find it helpful to ask a relative or close friend to read this leaflet and tell you if they are worried about any changes in your behaviour when you are sleeping. If you find out that you have done any such activities for which you have no memory, tell your healthcare professional **right away**.

Withdrawal: If you suddenly stop your treatment, lower your dose too fast, or switch to another medication, you can experience withdrawal symptoms that can range from mild symptoms to severe or life threatening. Some of your withdrawal symptoms can last for months after you stop TRIAZOLAM.

Your risk of going through withdrawal is higher if you are taking TRIAZOLAM for a long time or at high doses. However, symptoms can still occur if you are taking TRIAZOLAM as directed for a short period of time or slowly reducing the dose.

The symptoms of withdrawal often resemble the condition that you are being treated for. After stopping your treatment, it may be hard to tell if you are experiencing withdrawal or a return of your condition (relapse).

Tell your healthcare professional **right away** if you experience any symptoms of withdrawal after changing or stopping your treatment.

Severe symptoms of withdrawal include:

- feeling like you cannot move or respond (catatonia)
- severe confusion, shivering, irregular heart rate and excessive sweating (delirium tremens)
- feeling depressed
- feeling disconnected from reality (dissociation)
- seeing or hearing things that are not there (hallucinations)
- overactive behavior and thoughts (mania)
- believing in things that are not true (psychosis)
- convulsions (seizures), including some that do not stop
- thoughts or actions of suicide

For other symptoms of withdrawal, see the **Serious side effects and what to do about them** table (below).

To reduce your chances of going through withdrawal:

- always contact your healthcare professional before stopping or reducing your dose of TRIAZOLAM or changing medications
- always follow your healthcare professional's instructions on how to reduce your dose carefully and safely
- tell your healthcare professional **right away** if you experience any unusual symptoms after changing or stopping your treatment

TRIAZOLAM with Opioids: Taking TRIAZOLAM with opioid medicines can cause severe drowsiness and breathing problems.

Tell your healthcare professional if you:

- are taking opioid medicines
- are prescribed an opioid medicine after you start taking TRIAZOLAM

Do NOT drive or operate heavy machinery or do tasks that require special attention if you are taking an opioid medicine and TRIAZOLAM.

Falls and Fractures: Benzodiazepines like TRIAZOLAM can cause you to feel sleepy, dizzy and affect your balance. This increases your risks of falling, which can cause fractures or other fall related-injuries, especially if you:

- take other sedatives
- consume alcohol
- are elderly or
- have a condition that causes weakness or frailty

Driving and using machines: TRIAZOLAM may affect your ability to be alert. This may be made worse if you drink alcohol or take other sedatives. Do not drive or use machinery while you are taking TRIAZOLAM until you know how it affects you. Avoid driving or using machinery if taking TRIAZOLAM with other sedatives.

Pregnancy: Do **not** take TRIAZOLAM if you are pregnant. Benzodiazepines like TRIAZOLAM have been linked to birth defects when taken during the early months of pregnancy. TRIAZOLAM may also cause side effects and withdrawal symptoms in your baby after birth. Talk to your healthcare professional **right away** if you think you are pregnant or become pregnant while taking TRIAZOLAM.

Breastfeeding: It is not known if TRIAZOLAM can pass into breast milk and harm a breastfed baby. Therefore, TRIAZOLAM is **not** recommended during breastfeeding. Talk to your healthcare professional about ways to feed your baby while taking TRIAZOLAM.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

Serious Drug Interactions

Taking TRIAZOLAM and opioids may cause:

- severe drowsiness
- trouble breathing
- coma
- death

Do not take TRIAZOLAM with:

- cimetidine, a medicine used to treat heartburn and stomach ulcers
- erythromycin, a medicine used to treat bacterial infections
- ketoconazole or itraconazole, which are medicines used to treat fungal infections
- nefazodone, a medicine used to treat depression
- certain medicines used to treat HIV/AIDS

Taking TRIAZOLAM with any of these medicines may cause serious drug interactions. Ask your healthcare professional if you are unsure.

The following may interact with TRIAZOLAM:

- alcohol
- medicines used to treat allergies, such as antihistamines
- medicines used to treat seizures or epilepsy
- medicines that can have an effect on brain function. This includes medicines used to treat mental illnesses or behavioural problems such as depression, anxiety, attention or mood problems, and psychosis

- cimetidine, a medicine used to treat heartburn and stomach ulcers
- erythromycin, a medicine used to treat bacterial infections
- ketoconazole or itraconazole, which are medicines used to treat fungal infections
- nefazodone, a medicine used to treat depression
- certain medicines used to treat HIV/AIDS

How to take TRIAZOLAM:

- Take TRIAZOLAM:
 - exactly as your healthcare professional tells you to
 - immediately before your usual bedtime
 - **only if you know you will have at least 7 to 8 hours of uninterrupted sleep. Do not take TRIAZOLAM while travelling (e.g. during an airplane flight).**
- TRIAZOLAM is usually taken for a short period of time (7 to 10 days). If your insomnia continues for a longer period of time, talk to your healthcare professional to see if you need other treatment.

Usual dose:

- Your healthcare professional will decide the right dose for you based on your medical condition and how you respond to TRIAZOLAM.
- Do **not** change your dose without first talking to your healthcare professional.
- Your healthcare professional will slowly decrease your dose and will tell you when to stop taking TRIAZOLAM. Always follow your healthcare professional's instructions on how to lower your dose carefully and safely to avoid experiencing withdrawal symptoms.

Overdose:

Symptoms of an overdose include:

- extreme sleepiness
- confusion
- loss of balance and coordination
- slurred speech
- breathing problems
- coma

It is **not** recommended to drink alcohol while taking TRIAZOLAM. The combination of alcohol and TRIAZOLAM increases your risk of overdose.

If you think you, or a person you are caring for, have taken too much TRIAZOLAM, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you forget or miss a dose, skip the missed dose and take your next dose at the usual time.

What are possible side effects from using TRIAZOLAM?

These are not all the possible side effects you may have when taking TRIAZOLAM. If you experience any side effects not listed here, tell your healthcare professional.

Common side effects include:

- drowsiness
- dizziness
- loss of balance or coordination
- headache
- nausea
- vomiting
- constipation
- gas
- respiratory infection
- confusion

Uncommon side effects include:

- change in taste
- diarrhea
- joint pain

Rare side effects include:

- skin rash
- abnormal dreams
- high blood pressure
- eye irritation or redness
- chest pain
- shortness of breath
- hot or cold flashes
- excessive sweating
- muscle pain, cramps or weakness
- feeling unwell (malaise)
- decreased sex drive

Unknown frequency side effects include:

- falls and fractures

TRIAZOLAM can cause abnormal blood test results. Your healthcare professional will decide when to perform blood tests and will interpret the results.

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
UNCOMMON			
Problems with hearing or seeing: visual disturbance, ringing in the ears, hearing loss		✓	
RARE			
Depression: depressed mood, thoughts of death or suicide		✓	
Edema: unusual swelling of the			✓

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
arms, hands, legs, feet and ankles, face or airway passages			
Memory loss		✓	
Mental and behavioural changes: Unexpected reactions such as agitation, hyperactivity, excitement, hallucination, worsened insomnia, feeling nervous, irritable, increased muscle spasticity, aggressiveness, rages, psychoses and violent behaviour		✓	
Severe allergic reactions: swelling of the tongue or throat, trouble breathing, nausea, and vomiting			✓
Syncope (fainting): a temporary loss of consciousness due to a sudden drop in blood pressure		✓	
Burning or prickling sensation of the skin	✓		
Difficulty urinating	✓		
VERY RARE			
Somnambulism (sleep-walking): getting out of bed while not fully awake, including preparing and eating food, making phone calls, leaving the house, etc.		✓	
UNKNOWN FREQUENCY			
Overdose: extreme sleepiness, confusion, slurred speech, slow reflexes, slow shallow breathing, coma, loss of balance and coordination, uncontrolled rolling of the eyes, and low blood pressure.			✓
Respiratory Depression: slow, shallow or weak breathing.			✓
Withdrawal: Severe symptoms include: Catatonia: feeling like you cannot move or respond Delirium Tremens: severe confusion, shivering, irregular heartrate and excessive sweating Feeling depressed Dissociation: feeling disconnected from reality		✓	

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<p>Hallucinations: seeing or hearing things that are not there</p> <p>Mania: overactive behaviour and thoughts</p> <p>Psychosis: believing in things that are not true</p> <p>Convulsions: (seizures – including some that do not stop): loss of consciousness with uncontrollable shaking</p> <p>Thoughts or actions of suicide</p> <p>Other symptoms include: Stomach cramps; trouble remembering or concentrating; diarrhea; feeling uneasy or restless; severe anxiety or panic-attacks; headache; sensitivity to light, noise or physical contact; shaking; vomiting; trouble sleeping; feeling irritable; muscle pain or stiffness; a burning or prickling feeling in the hands, arms, legs or feet; sweating.</p>			

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Store at room temperature (15°C - 30°C).
- If your healthcare professional tells you to stop taking TRIAZOLAM, please return any leftover medicine to your pharmacist. TRIAZOLAM should never be disposed of in your household trash.

- Keep out of reach and sight of children.

If you want more information about TRIAZOLAM:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website <https://www.aapharma.ca/en/>, or by calling 1-877-998-9097.

This leaflet was prepared by AA Pharma Inc.

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