

SCHEDULING STATUS:

SS

PROPRIETARY NAME AND DOSAGE FORM:

BIO ZOPICLONE 7,5 (Film coated tablet)

COMPOSITION:

Each film coated tablet contains zopiclone 7,5 mg.

BIO ZOPICLONE 7,5 contains the following inactive ingredients: glycerol, hypromellose, magnesium stearate, maize starch, mannitol, microcrystalline cellulose, polysorbate 80, povidone, sucrose and the colourant titanium dioxide.

BIO ZOPICLONE 7,5 film-coated tablets contain mannitol and sucrose.

PHARMACOLOGICAL CLASSIFICATION:

A 2.2 Sedatives, hypnotics

PHARMACOLOGICAL ACTION:**Pharmacodynamic properties**

Zopiclone is a cyclopentolone hypnotic agent. It has sedative, anxiolytic, muscle relaxant, hypnotic and anticonvulsant properties. These effects are related to a specific agonist action at central receptors belonging to the gamma-aminobutyric acid (GABA) macromolecular complex in the brain, modulating the opening of the chloride ion channel.

Pharmacokinetic properties**Absorption:**

Zopiclone is rapidly absorbed. Peak concentrations (30 to 60 ng/ml after doses of 3,75 mg and 7,5 mg) are reached within 1,5 to 2 hours. Absorption is not affected by co-administration with food.

Distribution:

Plasma protein binding is weak (approximately 45 %) and non-saturable. Zopiclone is distributed into breast milk, its concentration being approximately 50 % that of plasma concentrations.

Metabolism:

Zopiclone is extensively metabolised in humans to two major metabolites, N-oxide zopiclone (pharmacologically active in animals) and N-desmethyl zopiclone (pharmacologically inactive in animals). An in vitro study indicates that cytochrome P450 (CYP3A4) is the major isoenzyme involved in the metabolism of zopiclone to both metabolites, and that CYP2C8 is also involved with N-desmethyl zopiclone formation.

Elimination:

At recommended doses, the elimination half-life of the zopiclone is approximately 5 hours. Approximately 80 % of zopiclone is eliminated renally, mainly in the form of free metabolites (N-oxide and N demethyl). Faecal elimination is approximately 16 %.

After repeated administration there is no accumulation of zopiclone and its metabolites. Inter-individual variations appear to be low.

Special Population:

In renal insufficiency, no accumulation of zopiclone or its metabolites has been detected after prolonged administration.

In cirrhotic patients, the plasma clearance of zopiclone is reduced by approximately 40 % in relation to the decrease of the demethylation process. Therefore dosage will have to be modified in these patients.

In elderly patients, notwithstanding a slight decrease in hepatic metabolism and lengthening of elimination half-life to approximately 7 hours, various studies have not shown plasma accumulation of the medicine on repeated dosing.

INDICATIONS:

BIO ZOPICLONE 7,5 is indicated for the short-term treatment of insomnia in adults when the disorder is severe, disabling or subjecting the individual to extreme stress.

CONTRAINDICATIONS:**BIO ZOPICLONE 7,5 is contraindicated in patients with:**

Hypersensitivity to zopiclone or any of the other ingredients in this product. Respiratory failure.

Severe sleep apnoea syndrome.

Severe hepatic insufficiency.

Myasthenia gravis.

BIO ZOPICLONE 7,5 should not be used in children under the age of 18 years.

Safety in pregnancy and lactation has not been established (see PREGNANCY AND LACTATION).

Pre-existing central nervous system depression and coma.

WARNINGS AND SPECIAL PRECAUTIONS:

BIO ZOPICLONE 7,5 may lead to drowsiness and impaired concentration, which may be aggravated by simultaneous intake of alcohol or other central nervous system depressants. Patients should be warned against driving motor vehicles or operating machinery or performing potentially hazardous tasks where loss of concentration may lead to accidents.

BIO ZOPICLONE 7,5 should be used with extreme caution in patients with a history of drug or alcohol abuse.

Dependence:

There is a potential for abuse and the development of physical and psychological dependence, especially with prolonged use and high doses. The risk of dependence is also greater in patients with a history of alcohol or drug abuse. Once physical dependence has developed, abrupt termination of therapy will result in a withdrawal syndrome presenting with headaches, muscle pain, extreme anxiety, tension, restlessness, confusion and irritability. In severe cases the following symptoms may occur: derealisation, depersonalisation, hyperacusis (abnormal acute hearing), numbness and tingling of extremities, hypersensitivity to light, noise and physical contact, hallucinations or epileptic seizures.

Rebound insomnia and withdrawal phenomena:

A risk of such phenomena is greater after abrupt discontinuation of BIO ZOPICLONE 7,5, especially after prolonged treatment. It is, therefore, recommended to decrease the dosage gradually and to advise patient accordingly (see also SIDE EFFECTS).

Some loss of efficacy of BIO ZOPICLONE 7,5 may develop after repeated use. To minimise the risk of anterograde amnesia and mental confusion, BIO ZOPICLONE 7,5 should be taken only when the patient's schedule will allow for a full night's sleep (7 to 8 hours).

BIO ZOPICLONE 7,5 should not be used alone to treat depression or anxiety with depression, as suicide may be precipitated in these patients.

BIO ZOPICLONE 7,5 is not recommended for primary treatment of psychotic illness.

Effects on ability to drive and use machines:

BIO ZOPICLONE 7,5 may adversely affect the ability to drive or use machines. The risk is increased by concomitant intake of alcohol (see WARNINGS AND SPECIAL PRECAUTIONS above).

PREGNANCY AND LACTATION:

Insufficient data is available on BIO ZOPICLONE 7,5 to assess its safety during human pregnancy and lactation. If BIO ZOPICLONE 7,5 is used during the last three months of pregnancy or during labour, due to pharmacological action of the product, effects on the neonate, such as hypothermia, hypotonia, and respiratory depression can be expected.

The use of BIO ZOPICLONE 7,5 during pregnancy is not recommended (see CONTRAINDICATIONS).

If BIO ZOPICLONE 7,5 is prescribed to a woman of childbearing potential, she should be warned to contact her medical practitioner regarding discontinuation of the product if she intends to become or suspects that she is pregnant.

BIO ZOPICLONE 7,5 is distributed in the breast milk. BIO ZOPICLONE 7,5 should not be used by breastfeeding mothers. (See CONTRAINDICATIONS)

DOSAGE AND DIRECTIONS FOR USE:

BIO ZOPICLONE 7,5 therapy should be used for as short a time as possible. Generally the duration of treatment varies from a few days to two weeks, with a maximum, including tapering off process, of four weeks. Use for any longer periods requires re-evaluation of the patient.

Treatment should be started with the lowest recommended dose and the maximum dose should not be exceeded.

Adults: 7,5 mg orally, shortly before retiring. This dose should not be exceeded.

Elderly patients and patients with impaired hepatic function or chronic respiratory insufficiency: The lower dose of 3,75 mg BIO ZOPICLONE 7,5 should be used initially in these patients, and if necessary, the dose may be increased to 7,5 mg.

Renal insufficiency: Patients with impaired function should start treatment with 3,75 mg, although accumulation of BIO ZOPICLONE 7,5 or its metabolites has not been seen during treatment of insomnia in patients with renal insufficiency.

SIDE EFFECTS:**Nervous system disorders**

Frequent: Dizziness, headache, confusion, residual somnolence, impaired coordination, anterograde amnesia (especially when sleep is interrupted, or when tablet is taken too early before retiring), (see WARNINGS AND SPECIAL PRECAUTIONS). Drowsiness and incoordination on waking, mental depression. Dysarthria (slowed/slurred speech).

Less frequent: Nightmares, irritability, hallucinations, aggressiveness and inappropriate behaviour possibly associated with amnesia, drowsiness, abnormal thoughts, asthenia, speech disorders, tremor, agitation, anxiety, nervousness.

Gastrointestinal disorders

Frequent: Bitter taste in the mouth, dry mouth, dyspepsia, anorexia, weight loss or gain, constipation.

Less frequent: Nausea, vomiting.

Skin and subcutaneous tissue disorders:

Less frequent: Pruritus, rash (may be a sign of hypersensitivity), paraesthesia.

Respiratory, thoracic and mediastinal disorders

Less frequent: Dyspnoea (difficulty breathing)

Cardiac disorders

Less frequent: Palpitations

Vascular disorders

Less frequent: Hypotension

Blood and the lymphatic system disorders

Less frequent: Blood disorders

Renal and urinary disorders

Less frequent: Urinary retention, incontinence

Reproductive system and breast disorders

Less frequent: Changes in libido

Hepato-biliary disorders

Less frequent: Jaundice

Immune system disorders

Less frequent: Hypersensitivity reactions

General disorders

Less frequent: Chills, sweating.

Other

The following side effects have been reported and frequencies are unknown:

Rebound effects: Discontinuation of treatment of BIO ZOPICLONE 7,5 may result in a transient syndrome of anxiety, restlessness and mood changes, as well as an enhancement of symptoms that led to the treatment with BIO ZOPICLONE 7,5 (see DIRECTIONS FOR USE)

KNOWN SYMPTOMS OF OVERDOSAGE AND PARTICULARS OF ITS TREATMENT:**Symptoms of overdose:**

(See SIDE EFFECTS)

Overdose is usually manifested by varying degrees of central nervous system depression according to the quantity ingested. In mild cases, symptoms include drowsiness, confusion, and lethargy; in more serious cases, symptoms may include ataxia, hypotonia, hypotension, respiratory depression and coma. Overdose may be life-threatening especially when combined with other CNS depressants (including alcohol). Other risk factors such as the presence of concomitant illness and the debilitated state of the patient may contribute to the severity of the symptoms and can result in fatal outcome.

Treatment of overdose:

Symptomatic and supportive treatment in an adequate clinical environment is recommended, with special attention being paid to respiratory and cardiovascular functions.

Gastric lavage is only useful when performed soon after ingestion.

Haemodialysis is of no value due to the large volume of distribution of BIO ZOPICLONE 7,5. Flumazenil may be a useful antidote.

IDENTIFICATION:

White, almost white film coated oblong, bulged tablets with breaking notch on both sides.

PRESENTATION:

BIO ZOPICLONE 7,5 are packed as 30 tablets in white HDPE container with white HDPE cap or in white opaque PVC/PVC/Aluminium blister strips, kept in an outer carton, each strip containing ten tablets.

STORAGE INSTRUCTIONS:

Store in a cool, dry place at or below 25 °C. Protect from light.

For HDPE Container: Keep well closed

Do not remove blisters from outer container until required for use.

KEEP OUT OF THE REACH OF CHILDREN.

REGISTRATION NUMBER:

42/2/0537

NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE CERTIFICATE OF REGISTRATION:

Biotech Laboratories (Pty) Ltd

Ground Floor, Block K West, Central Park

400 16th Road, Randjespark, Midrand, 1685

South Africa

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PI420537-2

SKEDULERINGSTATUS:

SS

EIENDOMSNAAM EN DOSEERVORM:

BIO ZOPICLONE 7,5 (Filmbedekte tablet)

SAMESTELLING:

Elke filmbedekte tablet bevat zopiclone 7,5 mg.

BIO ZOPICLONE 7,5 bevat die volgende onaktiewe bestanddele: gliserol, hipromellose, magnesium stearate, maize starch, mannitol, mikrokrystalagtige cellulose, polysorbate 80, povidone, sukrose en titaandiksel as kleurmiddel.

BIO ZOPICLONE 7,5 filmbedekte tablete bevat mannitol en sucrose.

FARMAKOLOGIESE KLASIFIKASIE:

A.2.2 Kalmeermiddels, verdowingsmiddels

FARMAKOLOGIESE WERKING:**Farmakodinamiese eienskappe**

Zopiclone is 'n siklopiroktoniese verdowingsmiddel. Dit het kalmerende, ansiolitiese, spiersverlaagende, hypnotise en antikonvulsante eienskappe. Hierdie effek hou verbaal met 'n spesifieke agonistiese aktie by die sentrale resptors wat tot die gamma-aminobutyric acid (GABA) makromolekulêre kompleks in die brein behoort, wat die opening van die chloried-ion kanaal moduleer.

Farmakokinetiese eienskappe**Absorpse:**

Zopiclone word vinnig absorbeer. Piek konsentrasies (30 tot 60 ng/ml na dosisse van 3,75 mg en 7,5 mg) word binne 1,5 tot 2 ure bereik. Absorpse word nie geaffekteer deur die gelyktydige innname van voedsel nie.

Distribusie:

Plasmaproteien binding is swak (ongeveer 45 %) en is onversadigbaar. Zopiclone versprei na borsmelk, in konsentrasies van ongeveer 50 % van die plasmakonsentrasie.

Metabolisme:

Zopiclone word grootliks in mense metaboliseer deur twee hoof metaboliote, naamlik N-oksied zopiclone (farmakologiese aktief in diere) en N-desmetyl zopiclone (farmakologiese onaktief in diere). 'n In vitro studie toon aan dat sitochroom P450 (CYP3A4) die hoof iso-ensieme is wat betrokke is by die metabolisme van zopiclone tot beide metaboliote en dat CYP2C8 ook betrokke is by die formasie van N-demetyl zopiclone.

Uitskeding:

Teen die gedoseerde dosisse is die halfleeftyd van zopiclone ongeveer 5 ure. Ongeveer 80 % van zopiclone word uriner uitgeskei, hoofsaaklik in die vorm van ryke metaboliote (N-oksies en N-demetyl). Fekale uitskeding is ongeveer 16 %.

Na herhaalde toediening is daar geen akkumulasie van zopiclone of sy metaboliote nie. Inter-individuale variasies blyk laag te wees.

Uitskendingsroep:

In renale ontoreikendheid is geen akkumulasie van zopiclone of sy metaboliote waargeneem na langdurige toediening nie.

In siroteuse pasiënte word die plasmaopklaring van zopiclone verminder met ongeveer 40 % met betrekking tot die afname van die demetileeringsproses, dus moet die dosis in hierdie pasiënte aangepas word.

In bejaarde pasiënte, nienteenaande 'n geringe afname in hepatiese metabolisme en die verlenging van uitskendingshalfleeftyd tot ongeveer 7 ure, het verskeie studies geen plasma akkumulasie van die medisyne na herhaalde toediening getoon nie.

INDIKASIES:

BIO ZOPICLONE 7,5 is aangedui vir die korttermyn behandeling van slapeloosheid in volwassenes wanneer die versturing die individu aan geweldige stress blootstel, hewig of stremmend is.

KONTRA-INDIKASIES:

BIO ZOPICLONE 7,5 word gekontra-indikeer in pasiënte met:

Hipersensitiviteit vir zopiclone of enige van die ander bestanddele van hierdie produk.

Respiratoriese versaking.**Erge slaapapnee syndroom.****Erge hepatiese ontoreikendheid.****Myasthenia gravis.**

BIO ZOPICLONE 7,5 behoort nie deur kinders onder die ouderdom van 18 jaar gebruik nie.

Veiligheid tydens gesigstryke.

Veiligheid tydens gesigstryke word nie aanbeveel nie.

Die gebruik van zopiclone word in gesigstryke met 'n geskiedenis van dwelmissbrauk of dwelmissbrauk.

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