

SCHEDULING STATUS

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PROPERTY NAME AND DOSAGE FORM

BIO NIFEDIPINE XL 30 (controlled release tablet)

BIO NIFEDIPINE XL 60 (controlled release tablet)

COMPOSITION

BIO NIFEDIPINE XL 30: Each controlled release tablet contains 30 mg nifedipine.

BIO NIFEDIPINE XL 60: Each controlled release tablet contains 60 mg nifedipine.

Inactive ingredients: Polyethylene oxide, hypromellose, potassium chloride, methyl alcohol, isopropyl alcohol, magnesium stearate, colloidal silicon dioxide, sodium chloride, ferric oxide red, cellulose acetate, polyethylene glycol, purified water, opadry brown (consisting of Hypromellose, iron oxide red, iron oxide yellow, polyethylene glycol and titanium dioxide), opacode black.

SUGAR FREE

PHARMACOLOGICAL CLASSIFICATION

A.7.1 Vasodilators; hypotensive medicines.

PHARMACOLOGICAL ACTION

Pharmacodynamic properties

Nifedipine is a calcium channel antagonist and a peripheral arterial vasodilator which acts directly on vascular smooth muscle with a resultant reduction in peripheral resistance.

Pharmacokinetic properties

General characteristics

The mechanism of release of nifedipine from BIO NIFEDIPINE XL is by membrane-controlled, osmotic push-pull process; nifedipine is released at a zero-order rate over 24 hours. The rate of delivery is not influenced by gastrointestinal pH or motility. After swallowing the excipients of the tablet remain intact and are eliminated as an insoluble shell in the faeces.

Absorption

Administration in the presence of food does not influence the availability of nifedipine.

Distribution

Nifedipine is about 95 % bound to plasma protein (albumin).

Biotransformation

Nifedipine is metabolised in the gut wall and liver, primarily by oxidative processes. The metabolites are predominantly eliminated by the kidneys, with approximately 5-15 % being excreted via the bile in the faeces.

Elimination

The terminal half-life of nifedipine osmotic push-pull release process does not represent a meaningful parameter as a plateau-like plasma concentration is maintained during release from the tablets and absorption.

Hepatic impairment

The elimination half-life is distinctly prolonged and the total clearance is reduced in patients with impaired hepatic function. BIO NIFEDIPINE XL should not be administered to these patients.

INDICATIONS

BIO NIFEDIPINE XL is indicated in following conditions:

- Mild to moderate hypertension
- Prophylaxis of chronic stable angina pectoris.

CONTRAINDICATIONS

Hypersensitivity to nifedipine or to any of the ingredients of BIO NIFEDIPINE XL.

Pregnancy and lactation.

Porphyria.

Clinically significant aortic stenosis, cardiovascular shock, unstable angina.

During or within one month of a myocardial infarction.

Hepatic impair.

History of gastrointestinal obstruction, oesophageal obstruction or any degree of decreased lumen diameter of the gastrointestinal tract.

Inflammatory bowel disease.

Concomitant use with rifampicin (see "Interactions").

Safety and efficacy in children has not been established.

The use of BIO NIFEDIPINE XL in men involved with in vitro fertilisation is contraindicated as nifedipine has been associated with reversible biochemical changes in the spermatozoa's head section that may result in impaired sperm function.

WARNINGS and SPECIAL PRECAUTIONS

Concomitant administration of BIO NIFEDIPINE XL with β-receptor blockers and diuretics can enhance the antihypertensive effect (see "Interactions"). The patients should be carefully monitored.

Grapefruit juice inhibits the metabolism of BIO NIFEDIPINE XL (see "Interactions").

As BIO NIFEDIPINE XL can cause an increase in blood glucose, care must be taken in patients with diabetes mellitus.

Diabetic patients with malignant hypertension and irreversible kidney failure with hypovolaemia should be closely monitored as a marked fall in blood pressure may occur.

Symptoms of gastrointestinal obstruction have occurred in patients with a history of gastrointestinal disorders.

BIO NIFEDIPINE XL should be used with caution in patients with poor cardiac reserve and in angina patients with hypotension; as well in patients with heart failure.

BIO NIFEDIPINE XL must not be used in patients with Kock pouch (ileostomy after proctocolectomy)

Effects on ability to drive and use machines

BIO NIFEDIPINE XL can impair the ability to drive or to operate machinery, especially during the start of treatment, changing the dose and in combination with alcohol. The intensity of the reaction to BIO NIFEDIPINE XL varies from patient to patient.

INTERACTIONS

Nifedipine, such as contained in BIO NIFEDIPINE XL is metabolised via the cytochrome P450 3A4 system, located both in the intestinal mucosa and in the liver. Medicines that are known to either inhibit or to induce this enzyme system may therefore alter the first pass (after oral administration) or the clearance of nifedipine.

The extent as well as the duration of interactions should be taken into account when administering BIO NIFEDIPINE XL together with the following medicines:

Rifampicin

The co-administration of rifampicin and BIO NIFEDIPINE XL, distinctly reduces the bioavailability of BIO NIFEDIPINE XL and thus lowering the efficacy. The use of rifampicin with BIO NIFEDIPINE XL is therefore contraindicated (see "Contraindications").

Macrolide antibiotics

Macrolide antibiotics are known to inhibit the cytochrome P450 3A4 mediated metabolism of other medicines. The potential for increase in nifedipine concentrations upon co-administration should be borne in mind.

Amprunavir, indinavir, neflavir, ritonavir, saquinavir

This class of medicines is known to inhibit the cytochrome P450 3A4 system. In vitro, indinavir and ritonavir have been shown to inhibit the cytochrome P450 3A4 mediated metabolism of nifedipine. When administered together with BIO NIFEDIPINE XL, a substantial increase in plasma concentrations of nifedipine due to a decreased first pass metabolism and a decreased elimination cannot be excluded. If co-administered, blood pressure should be monitored and if necessary a dose reduction of BIO NIFEDIPINE XL be considered.

Ketconazole, itraconazole, fluconazole

This class of medicine inhibits the cytochrome P450 3A4 system. When administered orally together with BIO NIFEDIPINE XL a substantial increase in bioavailability of nifedipine due to decreased first pass metabolism cannot be excluded. If co-administered, blood pressure should be monitored and if necessary a dose reduction of BIO NIFEDIPINE XL be considered.

Fluoxetine

Fluoxetine has been shown to inhibit the cytochrome P450 3A4 mediated metabolism of nifedipine. Therefore an increase in plasma concentrations of nifedipine upon co-administration cannot be excluded. If co-administered, blood pressure should be monitored and if necessary a dose reduction of BIO NIFEDIPINE XL be considered.

Nefazodone

Nefazodone is known to inhibit the cytochrome P450 3A4 system. In vitro, nefazodone have been shown to inhibit the cytochrome P450 3A4 mediated metabolism of other medicines. Therefore when both medicines are co-administered an increase in plasma concentrations of nifedipine cannot be excluded. If co-administered, blood pressure should be monitored and if necessary a dose reduction of BIO NIFEDIPINE XL be considered.

Valproic acid

As valproic acid has been shown to increase in plasma concentrations of the structurally similar calcium channel nimodipine due to enzyme inhibition, an increase in plasma concentration of nifedipine and hence an increase in efficacy cannot be excluded.

Cimetidine

As cimetidine inhibits the cytochrome P450 3A4 system, the co-administration of cimetidine with BIO NIFEDIPINE XL can increase the bioavailability of BIO NIFEDIPINE XL.

Cisapride

Concomitant administration of cisapride and BIO NIFEDIPINE XL can lead to increased BIO NIFEDIPINE XL concentrations; a dosage reduction may be required.

Carbamazepine and phenobarbitone

As carbamazepine and phenobarbitone have been shown to reduce the plasma concentrations of the structurally similar calcium channel blocker nimodipine due to enzyme induction, a decrease in plasma concentrations of nifedipine and hence a decrease in efficacy cannot be excluded.

Effects of BIO NIFEDIPINE XL on other medicines

When administered concomitantly, BIO NIFEDIPINE XL may increase the blood pressure lowering effect of anti-hypertensives such as:

Diuretics,

β-Blockers,

ACE-Inhibitors,

Angiotensin receptor blockers,

Other calcium channel antagonists,

α-adrenergic blocking agents,

PDE5 inhibitors,

o-methylopa.

Severe hypotension has been reported in patients receiving BIO NIFEDIPINE XL and β-receptor blockers simultaneously (see "Warnings and Special Precautions"). Caution is advised as administration of these two agents together can lead to heart failure. The use of any other antihypertensive medication with BIO NIFEDIPINE XL can lead to severe hypotension.

Digoxin

Concomitant administration of BIO NIFEDIPINE XL and digoxin can reduce digoxin clearance and hence an increase in plasma concentrations. The patient should be closely monitored for digoxin overdose.

Phenytoin

Phenytoin induces the cytochrome P450 3A4 system. Upon co-administration with phenytoin, the bioavailability of BIO NIFEDIPINE XL is reduced and thus its efficacy weakened. When both medicines are concomitantly administered, the clinical response to BIO NIFEDIPINE XL should be monitored and, if necessary, an increase of the BIO NIFEDIPINE XL dose considered. If the dose of BIO NIFEDIPINE XL is increased during co-administration of both medicines, a reduction of the BIO NIFEDIPINE XL dose should be considered when the treatment with phenytoin is discontinued.

Quinidine

BIO NIFEDIPINE XL and quinidine probably have a common metabolic pathway in the liver and might be expected to interact if given concurrently. The blood pressure should be carefully monitored if quinidine is added to existing BIO NIFEDIPINE XL. If necessary, the dose of BIO NIFEDIPINE XL should be reduced.

Tacrolimus

Tacrolimus has been shown to be metabolised via the cytochrome P450 3A4 system. Upon co-administration of BIO NIFEDIPINE XL and tacrolimus the tacrolimus plasma concentrations should be monitored and if necessary a reduction in the dose of tacrolimus considered.

Quinupristin/dalfopristin

Concomitant administration of quinupristin/dalfopristin and BIO NIFEDIPINE XL may lead to increased concentrations of BIO NIFEDIPINE XL. If necessary, the dose of BIO NIFEDIPINE XL should be reduced.

Diltiazem

Diltiazem reduces the hepatic metabolism of BIO NIFEDIPINE XL. The co-administration of these agents should be carefully monitored and a reduction in dosage for both agents may be required.

Grapefruit juice

Grapefruit juice inhibits the cytochrome P450 isoenzyme CYP3A4, particularly in the intestinal wall; this results in increased bioavailability of BIO NIFEDIPINE XL.

Barium

BIO NIFEDIPINE XL can interfere with the results of barium contrast X-ray procedures.

PREGNANCY AND LACTATION

BIO NIFEDIPINE XL is contraindicated during pregnancy and lactation (see "Contraindications").

DOSAGE AND DIRECTIONS FOR USE

The recommended initial dose is BIO NIFEDIPINE XL 30 once daily. If necessary, the dosage can be increased according to individual requirements up to a maximum of 90 mg once daily. BIO NIFEDIPINE XL should be swallowed whole, and not bitten, chewed or halved. The tablets should be taken at approximately 24 hour intervals; at the same time every day, preferably in the morning. BIO NIFEDIPINE XL can be taken with or without food with a glass of water. Elderly and patients with renal impairment do not usually require dosage adjustments.

SIDE EFFECTS

Frequently experienced side effects, associated with its vasodilator action are dizziness, flushing, headache, hypotension, peripheral oedema, tachycardia and palpitations.

General disorders and administrative site conditions

Frequent: Asthenia, oedema, headache.
Less frequent: Malaise, pain, dry mouth.

Immune system disorders

Less frequent: Hypersensitivity reaction, chills, fever, allergic reactions, angioedema, anaphylactic reaction.

Cardiac disorders

Frequent: Palpitations.

Less frequent: Chest pain, syncope, tachycardia, chest pain substernal, angina pectoris (excl. unstable).

Vascular disorders

Frequent: Peripheral oedema, vasodilatation.

Less frequent: Hypotension, postural hypotension, cardiovascular disorder.

Gastrointestinal disorders

Frequent: Constipation.

Less frequent: Abdominal pain, diarrhoea, dyspepsia, flatulence and nausea, dry mouth, eructation, gastrointestinal disorder, gingivitis, gum hyperplasia, vomiting, bezoar, dysphagia, oesophagitis, gum disorders, intestinal obstruction, intestinal ulcer, gastro-oesophageal reflux.

Metabolism and nutrition disorders

Less frequent: Anorexia, hyperglycaemia, weight loss.

Nervous system disorders

Frequent: Dizziness.

Less frequent: Insomnia, nervousness, paraesthesia, dysaesthesia, somnolence, vertigo, anxiety, hyposthesia, sleep disorder, tremor.

Musculoskeletal, connective tissue and bone disorders

Less frequent: Leg cramps and pain, arthralgia, joint disorder, myalgia, muscle cramps.

Respiratory, thoracic and mediastinal disorders

Less frequent: Dyspnoea, epistaxis, nasal congestion.

Skin and subcutaneous tissue disorders

Less frequent: Pruritus, rash, maculopapular rash, pustular rash, sweating, urticaria, vesiculobullous rash, exfoliative dermatitis, photosensitive dermatitis.

Renal and urinary disorders

Less frequent: Nocturia, polyuria, dysuria, urinary frequency.

Vascular disorders

Less frequent: Face oedema.

Hepato-biliary disorders

Less frequent: Abnormal liver function test, increased GGT (Gamma-glutamyl transpeptidase), jaundice; increased transaminases.

Eye disorders

Less frequent: Abnormal vision, eye disorder, eye pain, blurred vision.

Blood and lymphatic system disorders

Less frequent: Leucopenia, purpura, agranulocytosis.

Reproductive system and breast disorders

Less frequent: Gynaecomastia, erectile dysfunction.

NOTES ON SYMPTOMS OF OVERDOSE AND PARTICULARS OF ITS TREATMENT

If the following symptoms are observed in time, the first therapeutic measure to be considered is gastric lavage with added medical charcoal; flushing, headache, severe hypotension, increase or decrease in heart rate, hyperglycaemia, metabolic acidosis, hypoxia, cardiogenic shock with pulmonary oedema and unconsciousness to the point of coma.

Treatment is symptomatic and supportive. No specific antidote is available.

Hypotension (due to cardiogenic shock and arterial vasodilatation): slow IV calcium; 10 – 20 ml of a 10 % calcium gluconate solution. This can be repeated if necessary. If the result is insufficient, vasoconstricting sympathomimetics such as dopamine or noradrenaline can additionally be administered. The dosage of these agents is determined by the effect obtained. Additional volume must be administered with caution because of the danger of overloading the heart.

Bradycardia: β -sympathomimetics and in life-threatening bradycardiac disturbances of heart rhythm, temporary pacemaker therapy is advised.

Haemodialysis serves no purpose, but plasmapheresis is advisable.

IDENTIFICATION

BIO NIFEDIPINE XL 30: Brown coloured, round biconvex film coated tablet free from cracks, plain on one side and laser drilled hole on other side.

BIO NIFEDIPINE XL 60: Brown coloured, round biconvex film coated tablet free from cracks, plain on one side and laser drilled hole on other side.

PRESENTATION

Plain aluminium (no external colour), transparent and colourless PVC blister strips; 10 tablets per strip. 3 Blister strips are packed into an outer cardboard carton.

STORAGE INSTRUCTIONS

Store at or below 25 °C. Protect from light and moisture.

Keep the blister strips in the outer carton and keep the carton closed until required for use.
KEEP OUT OF REACH OF CHILDREN.

REGISTRATION NUMBER

BIO NIFEDIPINE XL 30: A43/7.1/0558

BIO NIFEDIPINE XL 60: A43/7.1/0559

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

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NAMIBIA:

NS2| BIO NIFEDIPINE XL 30 Reg No.13/7.1/0228

NS2| BIO NIFEDIPINE XL 60 Reg No.13/7.1/0229

SKEDULERINGSTATUS:

S3

EIENDOMSNAAM (en dosseervorm):

BIO NIFEDIPINE XL 30 (beheerde vrystellingstablet)
BIO NIFEDIPINE XL 60 (beheerde vrystellingstablet)

SAMESTELLING:

BIO NIFEDIPINE XL 30: Elke beheerde vrystellingstablet bevat 30 mg nifedipien.
BIO NIFEDIPINE XL 60: Elke beheerde vrystellingstablet bevat 60 mg nifedipien.
Onaktiewe bestanddele: Polietilene oksied, hypromellose, kaliumchloried, metiel alkohol, isopropiel alkohol, magnesiumsteatia, kolloïdale silisiumdioksied, natriumchloried, ysteroksied rooi, cellulose asetaat, polietilene glikol, gesuiverde water, opadry bruin (bestaande uit hypromellose, ysteroksied rooi, ysteroksied geel, polietilene glikol en titanium koolstofdioksied), opacode swart.
Suikervry.

FARMAKOLOGIESE KLASIFIKASIE:

A.7.1 Vasodilatators, hipotensieve geneesmiddels.

FARMAKOLOGIESE WERKING:

Farmakodynamika

Nifedipien, is 'n kalsiumkanaalblokkeerder en 'n perifere arteriële vasodilator wat direk inwerk op die vaskulêre gladdespier wat lei tot 'n daling in perifere weerstand.

Farmakinetika:

Algemene kenmerke

Die vrystelling van nifedipien in BIO NIFEDIPINE XL word deur 'n membraangekontroleerde, "druk-en-trek" osmotiese prosesse beheer. Nifedipien word vrygestel deur 'n konstante tempo oor 'n tydperk van 24 uur. Die tempo van aflewering word nie beïnvloed deur die pH van die maag of die beweeglikheid daarvan nie. Na toediening, bly die onaktiewe komponente van die tablette onverander en word as 'n onoplosbare omhulsel tydens ontlassing uitgeskei.

Absorpsie

Die beskikbaarheid na die toediening van nifedipien word nie tydens die inname van voedsel beïnvloed nie.

Verspreiding

Omtrent 95 % van nifedipien is plasmaproteine (albumien) gebonde.

Bio-transformasie

Nifedipien word primér deur middel van oksidatiewe prosesse gemetaboliseer in die intestinale slymvliese en die lever. Die metaboliese word hoofsaaklik deur die niere geelimineer, waarvan ontmrent 5-15 % via die gal in die feses uitgeskei word.

Eliminasie

Die terminale halfleeftyd van nifedipien, deur middel van die "druk-en-trek" osmotiese vrystellingss prosesse, verteenwoordig nie 'n betekenisvolle parameter nie, aangesien 'n plat plasmakonsentrasie gehandhaaf word tydens die vrystelling en absorpsie van die tablette.

Hepatiese inkorting

Die eliminasie halfleeftyd word aansienlik verleng terwyl die totale opruiming verminder word in pasiënte met belemmerende leverfunksie. BIO NIFEDIPINE XL moet nie togedien word aan hierdie pasiënte nie.

INDIKASIES:

BIO NIFEDIPINE XL word aangedui in die volgende toestande:

- Lite tot matige hypertensie.

- Voorkoming van chroniese stabiele angina pectoris.

KONTRA-INDIKASIES:

Hipersensitiviteit teenoor nifedipien of enige van die bestanddele in BIO NIFEDIPINE XL. Swangerskap en gedurende borsvoeding.

Porforie

Klinies-betekenisvolle stenoese van die aorta, kardiovaskulêre skok en onstabiele angina. Tydens of binne een maand na 'n miokardiale infarktie.

Lewer inkorting

Pasiënte met 'n geskeidenis van gastrointestinale obstruksie, esofagele obstruksie of enige aard van verminderde lumenduree van die maagdermkanaal.

Inflammatoriese dermsiekte

Gelyktydige gebruik saam met rifampisien (sien "Interaksies").

Veiligheid en effektiwiteit in kinders is nog nie vastgestel nie.

Die gebruik van BIO NIFEDIPINE XL is gekontra-indikera in manlike pasiënte betrokke by in vitro-bevrugting, aangesien nifedipien geassosieer word met onkeerbare biochemiese veranderinge in die kopsekie van die spermatoosa wat kan aanleiding gee tot belemmerende spermfunksie.

WAARSKUWINGS en SPESIALE VOORSORGMAATREELS:

Gelyktydige toediening van BIO NIFEDIPINE XL saam met β-reseptorblokkers kan die antihypertensieve effek bevorder (sien "Interaksies"). Dié pasiënte moet noukeurig gemonitor word.

Pomebos ingebreer die metabolisme van BIO NIFEDIPINE XL (sien "Interaksies").

BIO NIFEDIPINE XL kan in additiewe antihypertensieve effek veroorsaak wanneer dit saam met ander bloeddrukverlagende geneesmiddels soos beta-reseptor blokkieerders en diurektika (sien "Interaksies") togedien word. BIO NIFEDIPINE XL kan 'n toename in bloedglukose veroorsaak, sorg moet aan dat die gal gele word in pasiënte met diabetes mellitus.

Diiale pasiënte met kwaadgardinga hipertensie en onomkeerbare nierversaking met gepaardgaande hipovolemie, moet noukeurig gemonitor word as 'n merkbare afname in bloeddruk voorkom.

Symptome van maagobstruksie het al voorgekom in pasiënte met 'n geskeidenis van gastrointestinale versteurings. BIO NIFEDIPINE XL moet met omsigtigheid gebruik word in pasiënte met swak kardiale reserves, in angina pasiënte met hipotensie asook in pasiënte met hartversaking. BIO NIFEDIPINE XL moet nie gebruik word in pasiënte met Kock-sakkie (ileostomie na proktokolektomie).

Uitwerking op vermoë om te bestuur en die gebruik van masjinerie

BIO NIFEDIPINE XL kan die vermoë belemmer om te bestuur of masjinerie te bedryf, veral tydens die aanvang van behandeling, die verandering van die dosis en in kombinasie met alkohol. Die intensiteit van die reaksie op BIO NIFEDIPINE XL wissel van pasiënt tot pasiënt.

INTERAKSIES:

Nifedipien, sou vergvat in Bio-Nifedipine word gemetaboliseer via die sitochroom P450 3A4-sisteem, aangetreft in beide die intestinale mukosa en die lever. Geneesmiddels wat daarvoor bekend is om hierdie ensiensisemte te of inhibeer of te indusene, mag die eerste deurgangseffek (na orale toediening) of die opruiming van nifedipien verander. Die omvang, sowel as die tydsduur van die interaksies moet in ag geneem word tydens die toediening van BIO NIFEDIPINE XL saam met die volgende medisyne:

Rifampisien

Die gelyktydige toediening van rifampisien en BIO NIFEDIPINE XL, verminder die biobeskikbaarheid van BIO NIFEDIPINE XL beduidend en verlaag dus die doeltreffendheid daarvan. Die gebruik van rifampisien saam met BIO NIFEDIPINE XL word dus teaangedui in hierdie gevalle (sien "Kontra-indikasies").

Makroliid antibiotika

Makroliid antibiotika is bekend daaroor om die sitochroom P450 3A4-bemiddelde metabolisme van ander geneesmiddels te inhibeer. Die potensiële vir 'n toename in nifedipien konseptasie deur gelyktydige toediening moet in gedagte gehou word.

Ampravent, indinavir, neflavir, ritonavir, saquinavir

Hierdie klas van geneesmiddels is bekend om die sitochroom P450 3A4-sisteem te inhibeer. In vitro, tot indinavir en ritonavir dat die sitochroom P450 3A4-bemiddelde metabolisme van nifedipien geïnhieber word. As daat sam met BIO NIFEDIPINE XL togedien word, word 'n aansienlike toename in die plasmakonsentrasies van nifedipien waargeneem as gevolg van 'n afname in eerste verbygangsmetabolisme asook die afname in eliminasie (wat nie uitgesluit kan word nie). Indien gelyktydig togedien word, moet die bloeddruk gemonitor word en indien nodig, 'n vermindering in die dosis van BIO NIFEDIPINE XLoorweeg word.

Ketokonasoel, itraconasoel en flukonasoel

Die bekend dat geneesmiddels wat in hierdie klas die sitochroom P450 3A4-sisteem inhibeer. Wannekker hierdie geneesmiddels mondelskaal saam met BIO NIFEDIPINE XL togedien word, kan 'n aansienlike toename in die biobeskikbaarheid van BIO NIFEDIPINE XL waargeneem word weens die verminderde eerste deurgangsmetabolisme wat nie uitgesluit kan word nie. Indien gelyktydig togedien word, moet die bloeddruk gemonitor word en indien nodig, 'n vermindering in die dosis van BIO NIFEDIPINE XLoorweeg word.

Fluksetien

Daar is al aangetoont dat fluksetien die bemiddeling van sitochroom P450 3A4 metabolisme van nifedipien inhibeer. 'n Toename in die plasmakonsentrasies van nifedipien kan daarom nie uitgesluit word tydens gelyktydige toediening nie. Indien gelyktydig togedien word, moet die bloeddruk gemonitor word en indien nodig, 'n vermindering in die dosis van BIO NIFEDIPINE XLoorweeg word.

Nefasodoon

Die bekend dat nefasodoon die sisteem van sitochroom P450 3A4 inhibeer. In vitro, het nefasodoon getoon dat dit die bemiddeling van sitochroom P450 3A4 metabolisme van ander geneesmiddels inhibeer. 'n Toename in die plasmakonsentrasies van nifedipien kan daarom nie uitgesluit word tydens gelyktydige toediening nie. Indien gelyktydig togedien word, moet die bloeddruk gemonitor word en indien nodig, 'n vermindering in die dosis van BIO NIFEDIPINE XLoorweeg word.

Valproësuur

Aangesien aangetoont is dat valproësuur, as gevolg van ensieniminhivering, die plasmakonsentrasies van nimodipien ('n kalsiumkanaalblokkeerder met 'n soortgelyke struktuur) verhoog, kan 'n toename in plasmakonsentrasies en doeltreffendheid van nifedipien nie uitgesluit word nie.

Simetidien

Simetidien inhibeer die werking van die sitochroom P450 3A4-sisteem. Indien simetidien en BIO NIFEDIPINE XL gelyktydig togedien word, kan dit die biobeskikbaarheid van BIO NIFEDIPINE XL verhoog.

Sisapried

Gelyktydige toediening van sisapried en BIO NIFEDIPINE XL mag lei tot verhoogde BIO NIFEDIPINE XL plasmakonsentrasies. 'n Vermindering in die dosis mag vereis word.

Karbamasepien en fenobarbitoone

Aangesien aangetoont is dat karbamasepien en fenobarbitoone, as gevolg van ensienindusierung, die plasmakonsentrasies van nimodipien ('n kalsiumkanaalblokkeerder met 'n soortgelyke struktuur) verhoog, kan 'n afname in plasmakonsentrasies en doeltreffendheid van nifedipien nie uitgesluit word nie.

Effekte van BIO NIFEDIPINE XL op ander geneesmiddels

Wanneer gelyktydig togedien word, kan BIO NIFEDIPINE XL die bloeddrukverlagende effek van anti-hypertensieve geneesmiddels verhoog, soos:

Duireltika

B-Blockkeerders

ACE-Inhibieerders

Angiotensien receptor blokkeerders

Ander kalsiumkanaal antagoniste

o-adrenergiese blokkeerders

PDES-inhibitieerders

o-metildiopa

Erge hipotensie is al aangemeld in pasiënte wat BIO NIFEDIPINE XL en β-reseptorblokkeerders gelyktydig gebruik het (sien "Waarskuwings"). Omsigtigheid word aanbeveel met die gelyktydige toediening van hierdie twee agente, aangesien dié kan lei tot hartversaking. Die gelyktydige gebruik van enige ander antihypertensiewe geneesmiddels saam met BIO NIFEDIPINE XL kan lei tot erge hipotensie.

Digoksin

Gelyktydige toediening van BIO NIFEDIPINE XL en digoksin kan lei tot verlaagde digoksinverwydering en gevoldlike toename in plasmakonsentrasies van digoksin. Die pasiënt moet noukeurig gemonitor word vir die oordosering van digoksin.

Fenitoïen

Fenitoïen induceer die sitochroom P450 3A4-sisteem. Gelyktydige toediening van BIO NIFEDIPINE XL en fenitoïen veroorsaak 'n verlaging in die biobeskikbaarheid en 'n afname in dié doeltreffendheid daarvan. Met gelyktydige toediening moet die kliniese respons van BIO NIFEDIPINE XL gemonitor word en indien nodig moet 'n verhoging in die dosis van BIO NIFEDIPINE XLoorweeg word. Indien die dosis van BIO NIFEDIPINE XL tydens gelyktydige toediening van die twee geneesmiddels verhoog is, moet 'n verlaging van BIO NIFEDIPINE XL se dosis oorweeg word wanneer die behandeling met fenitoïen gestaak word.

Kinidien

BIO NIFEDIPINE XL en kinidien het waarskynlik 'n gemeenskaplike metaboliese roete in die lever en daar mag interaksies plaasvind tydens gelyktydige toediening. Die bloeddruk moet noukeurig gemonitor word indien kinidien by die bestaande BIO NIFEDIPINE XL dosering bygewoeg word. Indien nodig, moet die dosis van BIO NIFEDIPINE XL verminder word.

Takrolimus

Daar is aangegetoon dat takrolimus via die sitochroom P450 3A4-sisteem gemetaboliseer word. Wanneer takrolimus en BIO NIFEDIPINE XL saam toegedien word, behoort takrolimus se plasmakonsentrasies gemonitor te word en indien nodig moet 'n verlaging van takrolimus se dosis oorweeg word.

Kinupristien/dalfopristien

Die gelyktydige toediening van kinupristien/dalfopristien en BIO NIFEDIPINE XL mag tot verhoogde plasmakonsentrasies van BIO NIFEDIPINE XL lei. Indien nodig, moet die dosis van BIO NIFEDIPINE XL verlaag word.

Diltiazem

Diltiazem verminder die metabolisme van BIO NIFEDIPINE XL in die lever. Die gelyktydige toediening van hierdie geneesmiddels moet noukeurig gemonitor word en 'n vermindering in die dosis vir beide geneesmiddels mag vereis word.

Pomelesop

Pomelesop inhieber die sitochroom P450 CYP3A4-isoënsiem, veral in die dermwand. Dit mag lei tot verhoogde biobeskikbaarheid van BIO NIFEDIPINE XL.

Barium

BIO NIFEDIPINE XL kan inmmeng met die resultate van bariumteenstelling in X-straal procedures.

SWANGERSKAP EN LAKTASIE:

Die aanbevoel aanvankingsdosis van BIO NIFEDIPINE XL 30 is een keer per dag. Indien nodig, kan die dosis verhoog word volgens individuele behoeftes tot 'n maksimum van 90 mg een maal per dag.

BIO NIFEDIPINE XL moet heel ingesluk word, en nie gebyt, gekou of gehalver word nie. Die tablette moet ongeveer 24 uur uitmekaar geneem word op min of meer dieselfde tyd elke dag, verkiessel in die ooggend. BIO NIFEDIPINE XL kan met of sonder kos en met 'n glas water geneem word.
Bejaardes en pasiënte met nierinkorting vereis gewoonlik nie dosisaanpassings nie.

NEWE-EFFEKTE:

Geredele nye-effekte watervaar word hou verband met vasodilatatoriese effekte soos duiseligheid, gloede, hoofpyn, hipotensie, perifere edeem, taglikardie en hartkloppings. Algemene versteurings en die plek van toediening

Dikwels:

Astenie, edeem, hoofpyn.

Minder dikwels:

Moegheid, pyn, droë mond.

Immunsisteme versteurings

Minder dikwels: Hipersensitiviteitsreaksie, kouekools, koors, allergiese reaktiese, edeem, anafliktiese reaktiese.

Hartsiektes

Dikwels:

Hartkloppings.

Minder dikwels: Borspyn, sinkopie, tagikardie, borspyn substernaal, angina pectoris (uitsluitend onstabiel).

Vaskulêre toestande

Dikwels:

Perifere edeem, vasodilatasie.

Minder dikwels: Hipotensie, posturale hipotensie, kardiovaskulêre siekte

Gastrointestinale versteurings

Dikwels:

Hardlyghied.

Minder dikwels: Abdominale pyn, diarree, slegte spysverstering, winderigheid en naarheid, droë mond, erukasie, gastro-versteuring, tandvleisontsteking, tandvleishiperplasie, brakking, bezoar, disafagie, esofagitis, tandvleisversteurings, intestinale obstruksie, dermulkus, gastro-esofageale refluxs.

Metabolisme en voeding afwykings

Minder dikwels: anoreksie, hyperglysimie, gewigsverlies.

Senouweestelsel afwykings

Dikwels:

Duseilheid, stapsellosheid, senuagtigheid, parestesie, disestesie, slaperigheid, duseilheid, angs, parestesie, slaapversteuring, tremor.

Muskuloskeletale afwykings

Dikwels:

Beenkrampe en pyn, artralgie, gewrigsversteurings, mialgie, spierkrampie. Vel en subkutane weefsel versteurings
Minder dikwels: Pruritis, uitslag, maculopapulêre uitslag, pustulêre uitslag, sweet, urtikarie, vesikuloseruële uitslag, eksfoliatieve dermatitis, fotosensitiewe dermatitis.

Renale en urinêre versteurings

Minder dikwels: Nokturie, polurië, disurie, urinêre frekwensië.

Vaskulêre toestande

Minder dikwels: Gesigsdeem

Hepatiese afwykings

Minder dikwels: Abnormale leverfunksietoetsresultate, verhoogde GGT (Gamma-glutamiel transpeptidase), geelsug, verhoogde transaminases.

Oogafwykings

Minder dikwels: Abnormale visie, afwykings van die oë, oë pyn, dowie visie.

Bloed en limfatische stelsel afwykings

Minder dikwels: Leukopenie, purpura, agranulositose.

Voortplantingstelsel en bors versteurings

Minder dikwels: Ginekomastie, erektilie disfunksie

BEKENDE SIMPTOME VAN OORDOSERING EN BESONDERHEDIE VIR DIE BEHANDELING DAARVAN:

As die volgende simptome betyds waargeneem word, is die eerste terapeutiese maatreël wat oorweeg word, maagspoeling met mediese houtskoal bygewoeg. Gloede, hoofpyn, erge hipotensie, toename van afname in die hartklop, hiperligesimie, metaboliese asidoë, hipoeksie, kardiogeniese skok met afname edeem en beweuloseheid tot die punt van 'n koma. Behandeling is simptomaties en ondersteunend. Geen spesifieke teenmidel is beskikbaar nie. Hipotensie (as gevold van kardiogeniese skok en arteriële vasodilataasie); stadije IV kalsium, 10 - 20 ml van 'n 10 % kalsiumglukonatuur oplossing. Dit kan herhaal word indien nodig. Indien die resultaat onvoldoende is, kan addisionele vasokonstriktiewe simpatomimetiese middels soos dopamien of noradrenalin toegedien word. Die dosis van hierdie middels word bepaal deur die effek wat verky word. Addisionele volume moet met omsigtigheid toegedien word as gevold van die gevra van oorlaagting van die hart.

Bradikardie: behandel met β-simpatomimetiese middels en in die geval van lewensbedreigende bradikardie versteurings van die hartritme word tydelike passaangeerterapie aanbeveel.

Hemodialiese dien geen doel nie, maar plasmaferese is raadsaam.

IDENTIFIKASIE:

BIO NIFEDIPINE XL 30: bruin, ronde bi-konveks filmbedekte tablet vry van krake, gewoon op die een kant met laser-boor opening aan die keersy.
BIO NIFEDIPINE XL 60: bruin, ronde bi-konveks filmbedekte tablet vry van krake, gewoon op die een kant met 'n laser-boor opening aan die keersy.

AANBIEDING:

Gewone aluminium (geen eksterne kleur), deursig en kleurlose-PVC stulpverpakkingstrokkies; 10 tablette per strook. Drie stulpakkie word verpak in 'n buitenste karton.

BERGINGSINSTRUKSIES:

Bewaar teen of onder 25 °C. Beskerm teen lig en vog.

Hou die stulpakkie in die buitenste karton en hou die karton toe totdat nodig word vir gebruik.

HOU BIJTE BEREIK VAN KINDERS.

REGISTRASIONOMER:

BIO NIFEDIPINE XL 30: A43/7.1/0558

BIO NIFEDIPINE XL 60: A43/7.1/0559

NAAM EN BESIGHEIDSADRESSE VAN DIE HOUER VAN DIE REGISTRASIESERTIFIKAAT:

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NAMIBIE:

[NS2] BIO NIFEDIPINE XL 30 Reg Nr:13/7.1/0228

[NS2] BIO NIFEDIPINE XL 60 Reg Nr:13/7.1/0229