ARBITEN[®]AM

Composition Arbiten AM sing80 mg : Film-coated caplets containing 5 mg amlodipine and 80 mg valsartan Arbiten AM 5 mg/160 mg : Film-coated caplets containing 5 mg amlodipine and 160 mg valsartan Arbiten AM 10 mg/160mg; Film-coated caplets containing 10 mg amlodipine and 160 mg valsartan

Indications / Potential uses

Treatment of essential hypertension Arbiten AM is indicated in patients whose blood pressure is not adequately controlled by monotheral

Dosage and Administration

sure is not adequately controlled by monotherapy may be switched to combination therap of amlodipine and va artan

The recommended dose is one caplets per day (5 mg amlodipine and 80 mg valsartan, 5 mg amlodipine and 160 mg valsartan, or 10 mg amlodipine and 160 mg valsartan). When clinically appropriate, a direct switch from monotherapy to the fixed-dose combination may be considered. See Warnings and Precautions with regard to withdrawal of

beta-blockers Patients receiving valsartan and amlodipine separately may be switched to the corresponding dose of Arbiten AM Both amlodipine and valsartan monotherapy can be taken with or without food. It is recommended to take Arbiten AM ith some wate

Elderly patients

th components of the combination were equally well tolerated when used at similar doses in elderly or patients, normal dosage regimens are recommended. Since b

Children and adolescents Amlodipine/Valsartan combination is not recommended for use in patients aged below 18 years due to a lack of data

ty and efficacy

on safety and efficacy. **Exercise And Sector Constraints** No desage adjustment is required in patients with mild to moderate renal impairment. Caution is required if sec renal impairment occurs (see Contraindications). Caution is also required when administering Amlodipine/Valsa combination to patients with hepatic impairment or bilary obstructive disorders (see Warnings and Precautions). **Contraindications** Hypersensitivity to either of the active substances. Pregnancy, lactation (see Pregnancy and Lactation). There are no data on patients with severe renal impairment (greatinine clearance <10 ml/minute). Amlodipine/Vals tan combination is contraindicated in patients with hereditary angloedema or in those in whom angloede

ment (creatinine clearance <10 ml/minute). Amlodipine/Valsar There are no data on patients with severe renal impairment (creating carance stur murminue) tan combination is contraindicated in patients with hereditary angiodema or in those in i developed during earlier treatment with an ACE inhibitor or an angiotensin II receptor antagonist.

Warnings and Precautions

Solum-and Crokulma-depleted patients Excessive hypotension was seen in 0.4% of patients with uncomplicated hypertension treated with Amlodipine/Valsar-tan combination in placebo-concluded studies. Symptomatic hypotension may occur in patients with an activated tan companion in placedo-controled suuses. Symptomatic hypotension may occur in patients with an activated remin-angiotensin system (such as volume- and/or salt- depleted plateris receiving high doese of duretics) who are given angiotensin II antagonists. Correction of this condition prior to administration of Amlodipine/Valsartan combination, or doese medical supervision at the start of treatment, is recommended.

If hypotension occurs with Amlodipine/Valsartan combination, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. Treatment can be continued once blood pressure has

Hyperkalaemia

Hyperkalaemia Concomitant use with potassium supplements, potassium-sparing diuretics, salt substitutes containing potassium, or other medicinal products that may increase potassium levels (heparin, etc.) should be undertaken with caution and with frequent monitoring of potassium levels. Beta-blocker/withdrawal Amodipine is not a beta-blocker and therefore provides no protection against the risks of abrupt beta-blocker withdrawal, Any such withdrawal should be by gradual reduction of the dose of the beta-blocker.

Renal artery stenosis No data are available on the use of Amlodipine/Valsartan combination in patients with unilateral or bilateral renal arts o data are available on the use of Amioppiner valsafaraf combination in patients with unliaterial of to liaterial fene nosis, or stensois to a solitary kidney. Other drugs that affect the reinn-angiotensi-addosterone system ay increase blood urea and serum creatinine in patients with unliaterial or bilaterial renal aftery stenor onktring of such patients is therefore recommended as a precautionary measure.

monitioning of such patients is therefore recommended as a precautionary measure. Kilney transplantation No data are currently available on the safe use of Amiodipine/Valsartan combination in patients who ha undergone kilney transplantation.

Indexpose Auties as parameters. Heaptic impairment Valsartan is mostly eliminated unchanged via the bile, whereas amlodpine is extensively metabolized by the liv Particular acution is required when administering Amlodipine/Valsartan combination to patients with hepa natic impairment or biliary obstructive disorders.

nal impairment o dosage adjustment of Amlodipine/Valsartan combination is required in patients with mild to moderate renal Renal No do impairment. However, no data are available on severe renal impairment (creatinine clearance <10 ml/minute) and

Aortic and mitral valve stenosis, obstructive hypertrophic cardiomyopathy As with all other vasodilators, special caution is required in patients with aortic or mitral stenosis, or obstructive

hypertrophic cardiomyopathy.

Interactions Amiodipine may be concomitantly administered with thiazide diuretics, alpha-blockers, beta-blockers, ACE inhibitors, long action nitrates, sublingual glycaryl trinitrate (nitroglycarin), NSAIDs, antibiotis and oral antidiabetics. Calcium channel blockers may interfere with the cytochrome P450- dependent metabolism of theophylline and ergotamine. Neither in vitro nor in vitro interaction studies are thus far available for ambidine in icombination with theophylline or ergotamine, and regular monitoring of theophylline or ergotamine blood levels is therefore recommended at the start of concomitant administration with amiodipine. In vitro studies: Effects or active active substances on amiodipine Counter in the Effects or active active substances on amiodipine

Special studies: Effects or other active substances on amlodipine Cimetidine: concomitant administration of amlodipine and cimetidine does not alter the pharmacokinetics of mlodipin Grapefruit juice: studies in 20 healthy volunteers have shown that concomitant administration of 240 ml grapefruit

juice and a single dose of amlodipine (5 mg or 10 mg) results in a slight increase in the Cmax and AUC of amlodipine. Aluminium/magnesium (antacids): concomitant administration of aluminium/magnesium antacids and a single dose of amlodipine had no significant effect on the pharmacokinetics of amlodipine. Sildenafil: In patients with essential hypertension, a single dose of sildenafil (100 mg) had no effect on the

pharmacokinetic parameters of amlodipine. When amlodipine and sildenafil we substance independently exerted its own antihypertensive effect. re co-administrated, each active

Special studies: Effects of amlodipine on other active substances

Special studies: Effects of amodigine on other active substances Atorvastatin: concomitant administration of several doses of amodpine (10 mg) with atorvastatin (80 mg) did not result in any significant changes in the steady-state pharmacokinetic parameters of atorvastatin. Digoxin: studies in healthy volunteers have shown that concomitant administration of amodpine and digoxin does not result in any changes in digoxin plasma levels or renal digoxin deerance. Ethanol (alcohol): single and multiple doses of amodpine (10 mg) had no significant effect on the pharmacokinetics

Amlodipine + Valsartan

of ethano

Versions Warfarin: concomitant administration of amlodipine did not significantly alter the effect of warfarin on prothrombin time in healthy male volunteers. Cickosporin: pharmacokinetics of cickosporin.

pharmacokinetics of ciclosportin. <u>Valsartan</u> No clinically relevant interactions with the following substances have been found: cimetidine, warfarin, furosemide, digoxin, atenoloi, indomethacin, hydrochirorchitazide, amiodipine and gilbenclamide. Valsartan is only metabolized to a slight exent, so no clinically relevant drug interactions - in the form of metabolic induction or inhibition of the cytochrome P450 system - are to be expected. Although valsartan is extensively bound to plasma proteins; in vitro studies have not shown any interaction at this level with a range of other substances that are extensively bound to plasma proteins (e.g. diciofenac, furosemide and warfarin). There is no experience with concomitant administration of lithium avalisartan.

therefore reacommended rule of the event of concomitant administration of lithium and valsatatan. Concomitant on the overall distribution of lithium and valsatatan. Supplements or salt substitute containing potassium may lead to increase in serum potassium and, in heart failure patients, to increase in serum cathine. Caution is therefore incluted when such co-medication is given.

Pregnancy and Lactation Pregnancy

Pregnancy Due to the mechanism of action of angiotensin II antagonists, a risk to the fetus cannot be ruled out. Fetal injury and death have been reported during the second and third trimesters in pregnant women using ACE inhibitors (a specific class of drugs that acts on the renin-angiotensin-aldosterone system (RAAS)). In addition, in retrospective data, first trimester use of ACE inhibitors has been associated with a potential risk of birth defects. Three have been reports of spontaneous abortion, oligohydramnics and renal dysfunction in neonates when pregnant women have inadvertently taken valeatrat. As with any substances that act directly on the RAAS, smidolijen/valeatran combination must not be used during pregnancy or in women planning to become pregnant (see Contraindications). Healthcare professionals prescribing any medical products that act on the RAAS should inform women of childbearing potential about the potential risk of these products during pregnancy. Amoldpine/Valsartan combination must be discontinued immediately if pregnancy is confirmed during therapy. Lactation.

Leacation It is not known whether valsartan and/or amlodipine are excreted in human milk. Valsartan was excreted in the milk of actating rats. Use is therefore contraindicated in women who are breast feeding.

Effects on ability to drive and use machines acts caution is required when using machines or driving

Adverse effects The safety of Amlodipine/Valsartan combination has been evaluated in five controlled studies in 5175 patients, 2613 of whom re ived valsartan in comb nation with amlodipine Adverse effects are listed according to their frequency

Frequency

Prequency Very common (>1/10), common (>1/100 to<1/10), uncommon (>1/1000 to<1/100), rare (>1/10000 to <1/1000), very rare (<1/10000)

Within each frequency grouping, adverse effects are listed in the order of decreasing severity.

Infections: Common: Nasopharyngilis, influenza. Immune system disorders: Rare: Hypersensitivity. Psychiatric disorders: Rare: Anxiety states. Nervous system disorders: Common: Headac ache. Uncommon: Dizziness, drowsiness, postural dizzin

Nervous system were paraesthesia. Eye disorders: Rar: Disturbed vision. Ear and inner ear: Uncommon: Verligo. Rar: Tinnitus. Cardiac disorders: Uncommon: Tachycardia, palpitations, Rare: Syncope. Vascular disorders: Uncommon: Cough, laryngeal pain. Gastrointestinal disorders: Uncommon: Diarthoea, nausea, abdominal pain, constipation, dry mouth. Skin: Uncommon: Rash, erythema. Rare: Hyperificroise, exanthema, pruritus. Musculoskoletal system: Uncommon: Joint sveiling, back pain, arthralgia. Rare: Muscle spasm, heavines.

nal and urinary disorders: Rare: Pollakiuria, polyuria. productive system and breast disorders: Rare: Erectile dysfunction

neral disorders: Common: Oedema, pitting oedema, fa thenia, hot flushes. General disord cial oedema, peripheral oedema, fatique, flushing

Additional information on combination therapy In double-blind, active-or placebo-controlled completed studies, the incidence of peripheral oedema was statistically lower in patients treated with the combination (5.8%) than in patients treated with amlodipine monotherapy (9%).

Laboratory data Very few hypertensive patients treated with valsartan/ amlodipine showed notable changes from

very tew hypertensive patients treated with valaaranity annocipite snowed hotable changes from baseline in laboratory test results. There was a slight higher incidence of elevated blood urea nitrogen (BUN) in the amodigine/valsartan (5.5%) and valsartam monotherapy (5.5%) groups than in the placebo group (4.5%). Additional information on the individual components An adverse effect caused by one of the two components may occur with Amiodipine/Valsartan combination even if it has not been observed in clinical trials.

<u>Amlodipine</u>

Ambdipine Other adverse effects that occurred during ambdipine monotherapy, irrespective of their causal association with the study medication, were as follows: Adverse effects that were uncommon, or rarely reported, were insomnia, mood disorder, mood changes, tremor, dysgeusia, syncope, hypoaesthesia, dysgnoba, rhinitis vorniling, dysgepsia, altered bowel habts, dy mouth, alopecia, purpura, skin discoloration, increased sweating, rash, photosentization, myalaja, discurbances of michturiton, nocturia, increased urinary frequency, impotence, gynaecomastia, asthenia, pain, malaise, weight gain, uning thom.

weight lose Adver

weight loss. Adverse effects that were very rarely reported were leucopenia, thrombocytopenia, allergic reactions, hyperglycaemia, peripheral neuropathy, vasculities, pancreatilis, gastritis, gingival hyperplasia, hepatilis, jaundice, elevated liver enzyme counts (usually consistent with cholestasis), vascular oedema, erythema multiforme, urticaria, muscle stiffness or muscle tension. In a long-term, placebo-controlled study amiodipine (PRAISE-2) in patients with NYHA class III and IV heart failure of non-schaemic elotogy, amiodipine was associated with increased pulmonary oedema despite the absence of of non-ischaemic etiology, amlodipine was associated with increased pulmonary oedema desp any significant difference in the incidence of worsening heart failure as compared with placebo

Valsartan additional adverse effects that occurred in clinical studies with valsartan monotherapy in the indication

hypertension, irrespective of their causal association with the study medication, were as follows

hypertension, irrespective of their causal association with the study medication, were as follows: Adverse effects that were frequently reported were viral infections, elevated blood levels of creatinine and urea. Adverse effects that were necessary reported, were upper respiratory tract infections, impaired renal function, fatigue. Adverse effects that were very rarely reported were neutropenia, thrombocytopenia, insomnia, reduced libid, light-headedness, arrhythmia, thrillis, sinusitis, phangtis, tomitting, angioedema, vascultitis, rash, myaligi, fetal complications, elevated levels of bilirubin, reduced blood levels of haemoglobin/ haematocrit, abnormal function. liver function values. In patients with heart failure, increa

ses in creatinine of over 50% were reported in 3.9% of those treated



as compared with 0.9% in the placebo group. In patients with status post myocardial infarction, serum creatinine doubled in 4.2% of the patients treated with vasiartan, as compared with 3.4% of patients treated with captopril. In patients with heart failure, increases in serum potassium levels of over 20% were reported in 10% of the patients treated with vastartan, as compared with 5.1% of patients given placebo. In patients with heart failure, increases in BUN of over 50% were reported in 16.6% of the patients treated with vasiartan, as compared with 6.3% of patients rested with vasiartan.

Overdose There is no experience to date of overdose with Amlodipine/Valsartan combination. The major symptom of overdo with valsartan is probably hypotension with dizziness. Overdose with amlodipine may result in excessive pariphe vasoditation and, possibly, reflex tachycardia. Marked and potentially prolonged systemic hypotension, up to a including shock with fatal outcome, have been reported. If ingestion is recent, induction of vormiting or gastric lawa may be considered. Administration of activated charcoal to healthy volunteers immediately, or up to two hours at the source of the source vo hours afte estion of amlodipine, has been shown to significantly decrease amlodipine absorption. Clinically significant potension due to Amlodipine/Valsartan combination overdose calls for active cardiovascular support, including reporting of cardiac and respiratory function, elevation of externities, and attaction to circulating function close monitoring of cardiac and respiratory function, elevation of externities, and attaction to circulating fluid volume and urine output. A vasoconstrictor may be helpful in restoring vascular tone and blood pressure, provide that there is no contraindication to its use. Intravenous calcium gluconate may be hendful in reversing the effects of calcium channel blockade. Both valsartan and amlodipine are unlikely to be removed by haemodialysis.

Properties and Actions ATC code: C09DB01

ATC code: C090B01 Amoldpine/Natarian combination combines two antihypertensive active substances with complementary mechanisms to control blood pressure in patients with hypertension: amoldpine belongs to the calcium channel blocker class and valsarian to the anglotensin il antagonist class of medicines. The combination of these substances has an additive antihypertensive effect, reducing blood pressure to a greater degree than either component alone.

has an adduive antirypertensive effect, neucoing blood pressure to a greater degree than einther component adole. Amlodipine inhibits the transmembrane entry of calcium ions into cardiac and vascular smooth muscle cells. The mechanism of the antihypertensive action of animolicipine is due to a direct relaxant effect on vascular smooth muscle, causing reductions in peripheral vascular resistance and in blood pressure. Experimental data suggest that amlodipine binds to both dihydropyridine and non-dihydropyridine binding sites. The contractle processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels. Following administration of therapeutic doses to patients with hypertension, amlodipine produces vascillation, resulting in a reduction of supine and standing blood pressure. This decrease in blood pressure is not accompanied by a significant change in heart ale or plasma catecholamine levels with chromic dosing. Plasma concentrations correlate with effect in both young and elderly patients. In hypertensive patients with normal renatiuncion, therapeutic doses of amlodipine resulted in a decrease in renal vascular resistance and an increase in glomerular filtration rate and effective renat plasma flow, without a change in filtration fraction or proteinuria. As with other calcium channel blockers, haemodynamic measurements of cardiac function at rest and during exercise (or pacing) in patients with normal ventricular function treated with amologine have generally demonstrated a small increase in cardiac indox ouccess, neericoytamic measurements or carbiac bincon a relation and anno enteres (or pacing) in patentes with normal vertricular function treated with amologine have generally demonstrated a small increase in cardiac index without significant influence on dP/dt or on left vertricular end diastolic pressure or volume. In haemodynamic studies, amologine has not been associated with a negative incripcie defect when administered in the therapeutic dose range to healthy animals and humans, or even when co-administered with beta-blockers in humans. In dinical studies in which and/oline was administered in combination with beta-blockers in patients with hypertension or angina, no adverse effects on electrocardiographic parameters were observed.

Inperturbation or angina, no adverse elects on electrocardiographic parameters were observed. Valiantam Valiantam is an orally active, potent and specific angiotensin (AT) II receptor antagonist. It acts selectively on the AT1 receptor subtyce, which is reseponsible for the known actions of angiotensin II. The increased plasma levels of angiotensin II following AT1 receptor blockade with valiantam may stimulate the unblocked AT2 receptor, which appears to counterbalance the effect of the AT1 receptor valiantam does not exhibit any partial agonist activity at the AT1 receptor and has much (about 2000 times) greater affinity for the AT1 receptor than for the AT2 receptor, which antagonists are on inhibit ACE. In a so known as knimasel I, which converts angiotensin II to angiotensin II and degrades bradykinin. Since there is no effect on ACE and no potentiation of bradykinin or substance P, angiotensin II antagonists are unlikely to be associated with coupding. In clinical triatis comparing valiastrant with an ACE inhibitor. The incidence of dry cough was significantly (p<0.05) lower in gatients treated with valiastran the and CE inhibitor (p<0.05). Nalisartan dises not history of dry cough during ACE inhibitor therapy, 19.5% of those receiving valiastran with an ACE inhibitor (p<0.05). Valiastran does not bind to, or block, other hormone receiptors or ion channels that play are loin cardiovacular egulation. Administration of valiastran to patients with hypertension results in a drop in blood pressure without affecting heart rate. Valsartan

In most patients, onset of antihypertensive activity occurs within 2 hours of administration of a single oral dose, and In most patients, these to an implementative addity BCUs within 2 holds or daminastation to a single data base, and the peak drop is blood pressure is achieved within 46 hours. The anthrpostensive effect pensits over 24 hours after administration. During repeated administration, the maximum reduction blood pressure with any dose is generally attained in 24 weeks and is subalised during long-term therapy. Abrupt withfrawal or valisants has not been associated with rebound hypertension or other adverse clinical events

Valsartan/ amlodipine

Over 1400 hypertensive patients received Amlodipine/Valsartan combination once daily in two place

Valsaravi amodipine Over 1400 hyperfensive patients received Amiodipine/Valsartan combination once daily in two placebo-controlled traits. The antihyperfensive effect of a single dose of the combination persisted for 24 hours. Amiodipine/Valsartan combination was studied in 2 placebo-controlled trails in hyperfensive patients with a diastolic blood pressure 95 mmHg, and < 110 mmHg. In the first study (baseline blood pressure 15399 mmHg), Amiodipine/Valsartan combination was astudied in 2 placebo-controlled trails in hyperfensive patients with 292-2314-16 mmHg, compared with 77 mmHg with placebo. In the second study (baseline blood pressure 15799 mmHg), Amiodipine/Valsartan combination dases of 580 mg, 5160 mg and 5320 mg reduced blood pressure 195799 mmHg), Amiodipine/Valsartan combination-at doses of 10160 mg and 10/320 mg-reduced blood pressure 195799 mmHg). Amiodipine/Valsartan combination-at doses of 1010 mg and 10/320 mg-reduced blood pressure 916 mmHg, compared with 139 mmHg with placebo. A randomized, double-blind, active-controlled, multicentre, parallel-group trial in patients not adequately controlled on 160 mg valsartan showd normalization of blood pressure (stilling diastolic blood pressure -930 mmHg), The addition of 10 mg and 5 mg amiodipine valsartan and 52% of patients remaining on 160 mg valsartan only. The addition of 10 mg and 5 mg amiodipine valsartan only compared with 15% of patients remaining on 160 mg valsartan only. The addition of 10 mg amodipine showd normalization of blood pressure (still diastolic blood pressure 6 0.4.8 mmHg and 3.9.2.2 mmHg, respectively, compared with patients who remaind on 160 mg valsartan only. Antedpiner Valsartan on 10 mg amodipine only. The addition of 100 mg valsartan only valsartan only valsaltadio only exploid/exploided on 10 mg amodipine only. The addition of 100 mg valsartan provide and additional reduction in systolic/diastolic blood pressure 5 2.9.2.1 mmHg, compared with patients who remained on 10 mg amoldpine only. Amoldpiner/Valsar-tan combinatio sartan combination regimen of 5 mg/160 mg titrated to 10 mg/160 mg reduced sitting blood pressure by 36229 mmHg as compared with 3228 mmHg with a regimen of 10 mg/12.5 mg lishoprithydrochrothizade titrated to 20 mg/12.5 mg. In two long-term studies, the effect of Amlodipine/Valsartan combination was maintained for over one year. In patients whose blood pressure was adequately controlled with amlodipine but who experience unacceptable eedema, Amlodipine/Valsartan combination may achieve similar blood pressure control with less oedema. The patient's age, sex and race do not influence his or her response to Amlodipine/Valsartan combination.

Amlodipine + Valsartan

Linearity Valsartan and amlodipine exhibit linear pharmacokinetics. Amlodipine Absorption: After oral administration of therapeutic do amlodipine are reached in 6.12 hours. Absolute hipaxeliat r oral administration of therapeutic doses of amlodipine alone, peak plasma concentrations ched in 6-12 hours. Absolute bioavailability is between 64% and 80%. Amlodipine bioavailabilit

amodigine are reached in 6-12 hours. Absolute bioavailability is between 64% and 80%. Amlodgine bioavailability is unaffected by food ingestion. Distribution: The volume of distribution is approximately 21 liters/kg. In vitro studies with amodigine have shown that approximately 97 % of oriculating drug is bound to plasma proteins in hypertensive patients. Metabolism: Amodigine is extensively (approximately 90%) metabolized in the liver to inactive metabolites. Elimination: Amologine is extensively (approximately 90%) metabolized in the liver to inactive metabolites. Elimination: Amologine is extensively (approximately 90%) metabolized in the liver to inactive metabolites. So to 50 hours. To study and the statement of the dipine and 60% of amlodipine metabolites are excreted in the urine

Valsartan

Absorption: Absorption of valsartan following oral administration is rapid, although the amount absorbed varies lerably. The mean absolute bioavailability of valsartan is 23% (range 23 ± 7). Its pharmacokinetics is linear in considerably. The mean absolute bioavailability of valsardan is 23% (range 23 ± 7). Its pharmacokinetics is linear in the dose range studied. When given noce daily valsardan shows little accumulation. Plasma concentrations were found to be similar in males and females. Ingestion with food reduces the area under the valsardan plasma concentration curve (AUC) by 48%, and Cmax by 59%. However, plasma concentrations are similar from 8 hours orwards for ingestion with throut food. The reductions in AUC and Cmax to not result in a clinically significant reduction in therapeutic effect, and valsardan can therefore be given either with or without food. The reductions in AUC bound to serum proteins, primarily albumin. Steady state is reached within it week. The volume of distribution at steady state is approx. 17 liters. Plasma clearance is relatively slow (about 2 liters/hour) compared with hegatic blod flow (about 30 liters/hour). Elimination: Valsardan is outspace to blod flow (about 30 liters/hour). Approx.70% of absorbed valsartan is excreted in the faeces and 30% in the urine, mainty as unchanged compound.

unchanged compound. Valsardar,¹amidolpine. Following oral administration of Antologipine/Valsardan combination, peak plasma concentrations of valsardan and amiodipine are reached in 3 and 6-8 hours, respectively. The rate and extent of absorption of Antologipine/Valsardan combination are equivalent to the bioavailability of valsardan and antiodipine when administered as separate tablets. Pharmacokinetics in special patient populations Children: No pharmacokinetic data are available in children. Elderly patients, Time to peak plasma amiodipine concentrations is similar in young and elderly patients. In elderly patients, amiodipine clearance tends to decline, causing increases in AUC and elimination half-life. Systemic exposure to valsartan is slightly higher in the elderly than in the young, but this has not been shown to have any chincia significance. Since the two components are equally well becarded in younger and elderly patients, normal does regimens are recommended (see Dosage and Administration). Renal impairment: The pharmackinetics of antiodiptine are not significantly affected by renal impairment. There is no apparent correlation between renal function (measured by creatinine clearance) and exposure to valsartan (measured by AUC) in patients with different degrees of renal impairment. Theirs with mild to moderate renal impairment may therefore receive the usual initial dose (see dosage and Administration and Warnings and Precaution). Precaution).

Caution is required if severe renal impairment occurs

Caution is required in severe renal impairment occurs. Hepatic impairment: Patients with hepatic impairment have decreased clearance of amlodpine, with a resulting increase in AUC of approximately 40-60%. On average, in patients with mild to moderate chronic liver impairment, exposure to visuarian (measured by AUC) is twice that found in healthy volunteers (matched by age, sex and weight). Caution is therefore required in patients with liver impairment (see Dosage and administration and Warnings and

Amodipine Carcinogenicity: No signs of carcinogenicity were observed in rats and mice given amlodipine for two years in feed at concentrations providing daily doses of 0.5, 1.25 and 2.5 mg/kg. The highest dose (in mice similar to, and in rats double' the maximum recommended clinical dose of 10 mg on a mg/m² basis) was close to the maximum tolerated dose in mice but on It rats. **Mutagenicity:** Mutagenicity studies showed no substance-related effects at the gene or chromosome level. **Disturbances of Fortlity:** There was no effects on the fertility of rats following administration of anologine (in males for 64 days and in females for 14 days prior to mating) at doses of up to 10 mg/kg/day (8 times* the maximum recommended human dose of 10 mg on a mg/m² basis). *based on a patients weight of 50 kg.

Valsartan

In a variety of preclinical safety studies conducted in several animal species, there was no evidence of systemic of In a variety of preclance salety sublex conducted in several animal species, there was networked of systemic or target organ toxicity, apart from feotoxicity. Offspring of rats given 600 mg/kg during the last timester and during lacations showed a slightly reduced survival rate and a slight developmental delay (see Pregnancy and Lacation). The main preclinical safety findings are attributed to the pharmacological action of the compound and have not been demonstrated to have any clinical significance. There was no evidence of mutagenicity, clastogenicity or carcinogenicity.

In Active Ingredients Microcrystalline cellulose, Povidone, Crospovidone, Sodium Iauryl sulphate (SLS), Colloidal silicone dioxide, Magnesium stearate, HPMC (Hydroxy propyl methyl cellulose), Titanium dioxide, Polyethylene glycol, Arbiten AM 5160:Yellow iron oxide & Arbiten AM 10160:Yellow iron oxide& Red iron oxide.

Storage Conditions Store below 30°C

Presentation Arbiten AM 5 mg/80 mg Arbiten AM 5 mg/160 mg Arbiten AM 10 mg/160 mg : Each pack contains 30 film-coated ca : Each pack contains 30 film-coated ca : Each pack contains 30 film-coated ca A medicament is a product that affects your health, and its consumption contrary to structions is dangerous for you. Follow strictly the doctor's prescription, the method of use and the instructions of the harmasity who dispensed the medicament. The doctor and the pharmasits are experts in medicine. Do not the pharmasit are experts in medicine. Do not repeat the same prescription without consulting your doctor. Keep medicaments out of the reach of children. of children. COUNCIL OF ARAB HEALTH MINISTRIES UNION OF ARAB PHARMACISTS 01 P824/24-06-2015/R1 JOSWE^{*} medical ^{Produced by:} Jordan Sweden Medical and Sterilization Co.

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