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VALEZTO

Amlodipine/Valsartan Film-Coated Tablet

PRODUCT DESCRIPTION:

Valezto 10mg/160mg:

Yellow, oblong, biconvex, plain on both sides, film coated tablet.

Valezto 5mg/80mg:

Yellow, round, biconvex, plain on both sides, film coated tablet.

COMPOSITION:

One tablet of Valezto contains:

- 10 mg of amlodipine (as amlodipine besylate) and 160 mg of valsartan.
- 5 mg of amlodipine (as amlodipine besylate) and 80 mg of valsartan.

Valezto are non-divisible and cannot be divided into equal doses.

INDICATIONS

- Treatment of essential hypertension.
- Valezto is indicated in patients whose blood pressure is not adequately controlled by monotherapy.
- Valezto is indicated for the initial treatment of hypertension. The choice of Valezto for initial treatment should be based on an assessment of the potential benefits and risks.

PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Angiotensin II antagonists, plain (valsartan) combinations with dihydropyridine derivatives (amlodipine), ATC code: C09DB01.

Pharmacodynamic properties

Valezto combines two antihypertensive compounds with complementary mechanisms to control blood pressure in patients with essential hypertension: amlodipine belongs to the calcium antagonist class and valsartan to the angiotensin II (Ang II) antagonist class of medicines. The combination of these ingredients has an additive antihypertensive effect, reducing blood pressure to a greater degree than either component alone.

Amlodipine

- The amlodipine component of Valezto inhibits the transmembrane entry of calcium ions into cardiac and vascular smooth muscle. The mechanism of the antihypertensive action of amlodipine is due to a direct relaxant effect on vascular smooth muscle, causing reductions in peripheral vascular resistance and blood pressure. Experimental data suggest that amlodipine binds to both dihydropyridine and non-dihydropyridine binding sites. The contractile 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 vasodilatation resulting in a reduction of supine and standing blood pressures. These decreases in blood pressure are not accompanied by a significant change in heart rate or plasma catecholamine levels with chronic dosing.
- Plasma concentrations correlate with effect in both young and elderly patients.
- In hypertensive patients with normal renal function, therapeutic doses of amlodipine resulted in a decrease in renal vascular resistance and an increase in glomerular filtration rate and effective renal plasma flow without 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 amlodipine have generally demonstrated a small increase in cardiac index without significant influence on dP/dt or on left ventricular end diastolic pressure or volume. In haemodynamic studies, amlodipine has not been associated with a negative inotropic effect when administered in the therapeutic dose range to intact animals and humans, even when co-administered with beta blockers to humans.
- Amlodipine does not change sinoatrial nodal function or atrioventricular conduction in intact animals or humans. In clinical studies in which amlodipine was administered in combination with beta-blockers to patients with either hypertension or angina, no adverse experiences on electrocardiographic parameters were observed.
- Amlodipine has demonstrated beneficial clinical effects in patients with chronic stable angina, vasospastic angina and angiographically documented coronary artery disease.

Valsartan

- Valsartan is an orally active, potent, and specific angiotensin II receptor antagonist. It acts selectively on the AT1 receptor subtype, which is responsible for the known actions of angiotensin II. The increased plasma levels of angiotensin II following AT1 receptor blockade with valsartan may stimulate the unblocked AT2 receptor, which appears to counterbalance the effect of the AT1 receptor. Valsartan does not exhibit any partial agonist activity at the AT1 receptor and has much (about 20,000-fold) greater affinity for the AT1 receptor than for the AT2 receptor.
- Valsartan does not inhibit ACE, also known as kininase II, which converts angiotensin I 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 cough. In clinical trials where valsartan was compared with an ACE inhibitor, the incidence of dry cough was significantly ($P < 0.05$) lower in patients treated with valsartan than in those treated with an ACE inhibitor (2.6% versus 7.9% respectively). In a clinical trial of patients with a history of dry cough during ACE inhibitor therapy, 19.5% of trial subjects receiving valsartan and 19.0% of those receiving a thiazide diuretic experienced cough compared to 68.5% of those treated with an ACE inhibitor ($P < 0.05$). Valsartan does not bind to or block other hormone receptors or ion channels known to be important in cardiovascular regulation.
- Administration of Valsartan to patients with hypertension results in reduction of blood pressure without affecting pulse rate.
- In most patients, after administration of a single oral dose, onset of antihypertensive activity occurs within 2 hours, and the peak reduction of blood pressure is achieved within 4-6 hours. The antihypertensive effect persists over 24 hours after administration. During repeated administration, the maximum reduction in blood pressure with any dose is generally attained within

2-4 weeks and is sustained during long-term therapy. Abrupt withdrawal of Valsartan has not been associated with rebound hypertension or other adverse clinical events.

- In patients with chronic heart failure (NYHA class II-IV), valsartan has been demonstrated to significantly reduce hospitalizations in patients with chronic heart failure (NYHA class II-IV). The benefits were greatest in patients not receiving either an ACE inhibitor or a beta blocker. In post-MI patients, valsartan has also been shown to reduce cardiovascular mortality in clinically stable patients with left ventricular failure or left ventricular dysfunction following myocardial infarction.

Pharmacokinetic properties

Linearity

Valsartan and amlodipine exhibit linear pharmacokinetics.

Amlodipine

- **Absorption:** After oral administration of therapeutic doses of amlodipine alone, peak plasma concentrations of amlodipine are reached in 6 to 12 hours. Absolute bioavailability has been calculated as between 64% and 80%. Amlodipine bioavailability is unaffected by food ingestion.
- **Distribution:** Volume of distribution is approximately 21 L/kg. Amlodipine have shown that approximately 97.5% of circulating drug is bound to plasma proteins. Amlodipine crosses the placenta and is excreted into breast milk.
- **Biotransformation:** Amlodipine is extensively (approximately 90%) metabolized in the liver to inactive metabolites.
- **Elimination:** Amlodipine elimination from plasma is biphasic with a terminal elimination half-life of approximately 30 to 50 hours. Steady-state plasma levels are reached after continuous administration for 7-8 days. Ten per cent of original amlodipine and 60% of amlodipine metabolites are excreted in urine.

Valsartan

- **Absorption:** Following oral administration of valsartan alone, peak plasma concentrations of valsartan are reached in 2 – 4 hours. Mean absolute bioavailability is 23%. Food decreases the exposure (as measured by AUC) to valsartan by about 40% and peak plasma concentration (Cmax) by about 50%, although from about 8 h post dosing plasma valsartan concentrations are similar for the fed and fasted group. This reduction in AUC, however, is not accompanied by a clinically significant reduction in therapeutic effect, and valsartan can therefore be given either with or without food.
- **Distribution:** The steady-state volume of distribution of valsartan after intravenous administration is about 17 litres indicating that valsartan is not distributed into tissues extensively. Valsartan is highly bound to serum proteins (94-97%), mainly serum albumin.
- **Biotransformation:** Valsartan is not transformed to a high extent as only about 20% dose is recovered as metabolites. A hydroxy metabolite has been identified in plasma at low concentrations (less than 10% of the valsartan AUC). This metabolite is pharmacologically inactive.
- **Elimination:** Valsartan show multiexponential decay kinetics ($t_{1/2\alpha} < 1$ hour and $t_{1/2\beta}$ about 9 hours). Valsartan is primarily eliminated unchanged in feces (about 83% of dose) and urine (about 13% of dose) mainly as unchanged drug. Following intravenous administration, plasma clearance of valsartan is about 2 L/h and its renal clearance is 0.62 L/h (about 30% of total clearance). The half-life of valsartan is 6 hours.

Valsartan/Amlodipine

- Following oral administration of Valezto peak plasma concentrations of valsartan and amlodipine are reached in 3 and 6 – 8 hours, respectively. The rate and extent of absorption of Valezto are equivalent to the bioavailability of valsartan and amlodipine when administered as individual tablets.

Special populations

Geriatric patients

The time to reach plasma concentrations of amlodipine is similar in elderly and younger subjects. Amlodipine clearance tends to be decreased with resulting increases in AUC and elimination half-life in elderly patients. Systemic exposure to valsartan is slightly elevated in the elderly as compared to the young but this has not been shown to have any clinical significance.

Renal impairment

The pharmacokinetics of amlodipine is not significantly influenced by renal impairment. There is no apparent correlation between renal function (measured by creatinine clearance) and exposure (measured by AUC) to valsartan in patients with different degrees of renal impairment. Patients with mild to moderate renal impairment may therefore receive the usual initial dose.

Hepatic impairment

Patients with hepatic insufficiency have decreased clearance of amlodipine with resulting increase in AUC of approximately 40-60%. In a small number of patients with mild to moderate hepatic impairment given single doses of 5 mg, amlodipine half-life has been prolonged. Worsening of liver function test values may occur.

About 70% of the absorbed valsartan dose is excreted in the bile, mainly as unchanged compound. The AUC with valsartan has been observed to approximately double in patients with mild or moderate hepatic impairment including patients with biliary obstructive disorders. There are no data available on the use of valsartan in patients with severe hepatic dysfunction.

Care should be exercised in patients with liver disease.

CONTRAINDICATIONS

- Known hypersensitivity to the amlodipine, valsartan or to any of the excipients.
- Pregnancy.
- Severe hepatic impairment, biliary cirrhosis, and cholestasis.
- Concomitant use of angiotensin receptor antagonists (ARBs) - including valsartan - or of angiotensin-converting enzyme inhibitors (ACEIs) with aliskiren in patients with Type 2 diabetes.

ROUTE OF ADMINISTRATION: ORAL

DOSAGE REGIMEN AND ADMINISTRATION

Dosage regimen

General Target Population

A patient whose blood pressure is not adequately controlled on

monotherapy may be switched to combination therapy with Valezto. The recommended dose is one tablet per day (the 2 strengths are listed in section PRODUCT DESCRIPTION). When clinically appropriate direct change from monotherapy to the fixed-dose combination may be considered.

For convenience, patients receiving valsartan and amlodipine from separate tablets may be switched to Valezto containing the same component doses.

For initial therapy the usual starting dose is Valezto 5mg/80 mg once daily. The dosage can be increased after 1 to 2 weeks of therapy to a maximum of 10 mg/320 mg per day as needed to control blood pressure. Valezto is not recommended as initial therapy in patients with intravascular volume depletion (see SPECIAL WARNINGS AND PRECAUTIONS FOR USE).

The maximum dose is 10mg/320mg per day.

Both amlodipine and valsartan monotherapy can be taken with or without food. It is recommended to take Valezto with some water.

Special populations

Renal impairment

No dose adjustment is required for patients with mild to moderate renal impairment. Caution is required if severe renal impairment occur.

Hepatic impairment

Liver function should be monitored in patients with mild to moderate hepatic impairment. The daily dose of Valezto should not exceed 5/80mg in patients with mild to moderate hepatic impairment without cholestasis. Valezto is contraindicated in severe hepatic impairment. Starting with the lowest available dose of amlodipine should be considered. The lowest strength of Valezto contains 5 mg of amlodipine.

Paediatric patients (below 18 years)

Valezto is not recommended for use in patients aged below 18 years due to lack of data on safety and efficacy.

Geriatric patients (aged 65 years or above)

Since both components of the combination are equally well tolerated when used at similar doses in elderly (aged 65 years or above) or younger patients, no dose adjustment of the starting dose is required. Starting with the lowest available dose of amlodipine should be considered. The lowest strength of Valezto contains 5 mg of amlodipine. (see PHARMACOLOGICAL PROPERTIES)

Valezto Film Coated Tablet is available at the strengths of 5mg/80mg and 10mg/160mg only and may not be able to deliver all the dosing recommendations mentioned above. In such cases, other approved strengths should be used.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

Patients with sodium-and/or volume depletion

In patients with an activated renin-angiotensin system (such as volume- and/or salt- depleted patients receiving high doses of diuretics) who are receiving angiotensin receptor blockers, symptomatic hypotension may occur. Correction of this condition prior to administration of Valezto or close medical supervision at the start of treatment is recommended.

If hypotension occurs with Valezto, the patient should be placed in the supine position and, if necessary, given an i.v. infusion of normal saline. Treatment can be continued once blood pressure has been stabilized.

Hyperkalemia

Concomitant use with potassium supplements, potassium sparing diuretics, salt substitutes containing potassium, or other drugs that may increase potassium levels (heparin, etc.) should be used with caution and with frequent monitoring of potassium.

Patients with renal artery stenosis

Valezto should be used with caution to treat hypertension in patients with unilateral or bilateral renal artery stenosis, stenosis to a solitary kidney since blood urea and serum creatinine may increase in such patients.

Patients with renal impairment

No data is available for severe cases (creatinine clearance < 10 mL/min.) and caution is therefore advised. No dosage adjustment of Valezto is required for patients with mild to moderate renal impairment. The use of ARBs - including valsartan - or of ACEIs with aliskiren should be avoided in patients with severe renal impairment (GFR < 30 mL/min).

Patients with kidney transplantation

To date there is no experience of the safe use of Valezto in patients who have had a recent kidney transplantation.

Patients with hepatic impairment

Valsartan is mostly eliminated unchanged via the bile whereas amlodipine is extensively metabolized by the liver. In patient with mild to moderate hepatic impairment without cholestasis, Valezto should be used with caution and careful monitoring of liver function tests should be performed. The daily dose of Valezto should not exceed 5/80mg. Patients with severe hepatic impairment, biliary cirrhosis or cholestasis should not take Valezto.

Angioedema

Angioedema, including swelling of the larynx and glottis, causing airway obstruction and/or swelling of the face, lips, pharynx, and/or tongue has been reported in patients treated with valsartan; some of these patients previously experienced angioedema with other drugs including ACE inhibitors. Valezto should be immediately discontinued in patients who develop angioedema, and Valezto should not be re-administered.

Patients with heart failure/post-myocardial infarction

In general, calcium channel blockers including amlodipine should be used with caution in patients with serious congestive heart failure (New York Heart Association (NYHA) functional class III-IV). In patients whose renal function may depend on the activity of the renin-angiotensin- aldosterone system (e.g. patients with severe congestive heart failure), treatment with angiotensin converting enzyme inhibitors or angiotensin receptor antagonists has been associated with oliguria and/or progressive azotemia, and in rare cases with acute renal failure and/or death. Evaluation of patients

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with heart failure or post-myocardial infarction should always include assessment of renal function

Patients with acute myocardial infarction

Worsening angina pectoris and acute myocardial infarction can develop after starting or increasing the dose of amlodipine, particularly in patients with severe obstructive coronary artery disease.

Patients with aortic and mitral valve stenosis, obstructive hypertrophic cardiomyopathy

As with all other vasodilators, special caution is required when using amlodipine in patients suffering from aortic or mitral stenosis, or obstructive hypertrophic cardiomyopathy.

Dual blockade of the Renin-Angiotensin System (RAS)

Caution is required while co-administering ARBs, including valsartan, with other agents blocking the RAS such as ACEIs or aliskiren.

PREGNANCY, LACTATION, FEMALES AND MALES OF REPRODUCTIVE POTENTIAL

Pregnancy

RISK SUMMARY

- As for any drug that acts directly on the RAAS, Valezto must not be used during pregnancy. Due to the mechanism of action of angiotensin II antagonists, a risk to the foetus cannot be excluded. Administration of angiotensin converting enzyme (ACE) inhibitors (a specific class of drugs acting on the renin-angiotensin-aldosterone system, RAAS) to pregnant women during the second and third trimesters has been reported to cause injury and death to the developing foetus. In addition, in retrospective data, first trimester use of ACE inhibitors has been associated with a potential risk of birth defects. There have been reports of spontaneous abortion, oligohydramnios, and newborn renal dysfunction when pregnant women have inadvertently taken valsartan.
- There are no adequate clinical data with amlodipine in pregnant women. Animal studies with amlodipine have shown reproductive toxicity at dose 8 times the maximum recommended dose of 10 mg. The potential risk to humans is unknown.
- If pregnancy is detected during therapy, Valezto must be discontinued as soon as possible.

Clinical consideration

Disease-associated maternal and/or embryo/foetal risk.

- Hypertension in pregnancy increases the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section, and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death.

Fetal/Neonatal Risk

- Oligohydramnios in pregnant women who use drugs affecting the renin-angiotensin system in the second and third trimesters of pregnancy can result in the following: reduced fetal renal function leading to anuria and renal failure, fetal lung hypoplasia, skeletal deformations, including skull hypoplasia, hypotension and death.
- In case of accidental exposure to ARB therapy, appropriate fetal monitoring should be considered.
- Infants whose mothers have taken ARB therapy in the first trimester, should be closely observed for hypotension.

Lactation

- It is not known whether valsartan is excreted in human milk. It is reported that amlodipine is transferred into human milk. The proportion of the maternal dose received by the infant has been estimated with an interquartile range of 3 - 7% with a maximum of 15%. The effect of amlodipine on infants is unknown. Valsartan was excreted in the milk of lactating rats.
- Therefore, it is not advisable for women who are breastfeeding to use Valezto.

Females and males of reproductive potential

- As for any drug that acts directly on the RAAS, Valezto must not be used in women planning to become pregnant. Healthcare professionals prescribing any agents acting on the RAAS should counsel women of childbearing potential about the potential risk of these agents during pregnancy

Infertility

- There is no information on the effects of amlodipine or valsartan on human fertility.

SIDE EFFECTS

The following very common ($\geq 1/10$); common ($\geq 1/100$, $< 1/10$); uncommon ($\geq 1/1,000$, $< 1/100$); rare ($\geq 1/10,000$, $< 1/1,000$); very rare ($< 1/10,000$); drug-related adverse experiences:-

Table 1: Adverse drug reactions with Valezto

Infections and infestations	Common : Nasopharyngitis, influenza
Immune system disorders	Rare : Hypersensitivity
Eye disorders	Rare : Visual disturbance
Psychiatric disorders	Rare : Anxiety
Nervous system disorders	Common : Headache Uncommon : Dizziness, somnolence, dizziness postural, paresthesia
Ear and labyrinth disorders	Uncommon : Vertigo Rare : Tinnitus
Cardiac disorders	Uncommon : Tachycardia, palpitations Rare : Syncope
Vascular disorders	Uncommon : Orthostatic hypotension Rare : Hypotension
Respiratory, thoracic, and mediastinal disorders	Uncommon : Cough, pharyngolaryngeal pain
Gastrointestinal disorders	Uncommon : Diarrhea, nausea, abdominal pain, constipation, dry mouth
Skin and subcutaneous tissue disorders	Uncommon : Rash, erythema Rare : Hyperhidrosis, exanthema, pruritus

Musculoskeletal and connective tissue disorders

Uncommon : Joint swelling, back pain, arthralgia
Rare : Muscle spasm, sensation of heaviness

Renal and urinary disorders

Rare : Pollakiuria, polyuria

Reproductive system and breast disorders

Rare : Erectile dysfunction

General disorders and administration site conditions

Common : oedema, pitting oedema, facial oedema, oedema peripheral, fatigue, flushing, asthenia, hot flush

Table 2: Adverse experiences with amlodipine monotherapy

Eye disorders

Uncommon : Diplopia

Blood and lymphatic system disorders

Very Rare : Thrombocytopenia, leukocytopenia

Immune system disorders

Very Rare : Allergic reactions

Metabolism and nutrition disorders

Very Rare : Hyperglycemia

Psychiatric disorders

Uncommon : Insomnia, mood changes

Nervous system disorders

Uncommon : Tremor, hypoesthesia, dysgeusia

Very Rare : Peripheral neuropathy, hypertonia

Cardiac disorders

Very Rare : Arrhythmia, bradycardia, atrial fibrillation, ventricular tachycardia, myocardial infarction

Vascular disorders

Very rare : Vasculitis

Respiratory, thoracic and mediastinal disorders

Uncommon : Dyspnea, rhinitis

Gastrointestinal disorders

Uncommon : Vomiting, dyspepsia

Very rare : Pancreatitis, gastritis, gingival hyperplasia

Hepatobiliary disorders

Very rare : Hepatitis, jaundice

Skin and subcutaneous tissue disorders

Uncommon : Alopecia, purpura, skin discoloration, photosensitivity

Very rare : Angioedema, urticaria, erythema multiforme, Steven Johnson syndrome

Musculoskeletal and connective tissue disorders

Uncommon : Myalgia

Renal and urinary disorders

Uncommon : Micturition disorder, nocturia

Reproductive system and breast disorders

Uncommon : Gynecomastia

General disorders and administration site conditions

Uncommon : Pain, malaise, chest pain

Investigations

Uncommon : Weight decrease, weight increased

Very rare : Hepatic enzyme increased

(mostly consistent with cholestasis)

Table 3: Adverse drug reactions with valsartan monotherapy

Blood and lymphatic system disorders

Not known : Hemoglobin decreased, Hematocrit decreased, Neutropenia, Thrombocytopenia

Immune system disorders

Not known : Hypersensitivity including serum sickness

Metabolism and nutrition disorders

Not known : Blood potassium increased

Vascular disorders

Not known : Vasculitis

Hepatobiliary disorders

Not known : Liver function test abnormal including blood bilirubin increase

Skin and subcutaneous tissue disorders

Not known : Angioedema, dermatitis bullous

Musculoskeletal and connective tissue disorders

Not known : Myalgia

Renal and urinary disorders

Not known : Renal failure and impairment, blood creatinine increased

INTERACTIONS

Amlodipine

Simvastatin: Co-administration of multiple doses of 10 mg of amlodipine with 80 mg simvastatin resulted in a 77% increase in exposure to simvastatin compared to simvastatin alone. It is recommended to limit the dose of simvastatin to 20 mg daily in patients on amlodipine.

CYP3A4 Inhibitors: Co-administration of a 180 mg daily dose of diltiazem with 5 mg amlodipine in elderly hypertensive patients resulted in a 1.6-fold increase in amlodipine systemic exposure. However, strong inhibitors of CYP3A4 (e.g., ketoconazole, itraconazole, ritonavir) may increase the plasma concentrations of amlodipine to a greater extent than diltiazem. Caution should therefore be exercised when co-administering amlodipine with CYP3A4 inhibitors.

Grapefruit Juice: The exposure of amlodipine may be increased when co-administered with grapefruit juice due to CYP3A4 inhibition. However, co-administration of 240 mL of grapefruit juice with a single oral dose of amlodipine 10 mg in 20 healthy volunteers had no significant effect on the pharmacokinetics of amlodipine.

CYP3A4 Inducers: No information is available on the quantitative effects of CYP3A4 inducers on amlodipine. Patients should be monitored for adequate clinical effect when amlodipine is co-administered with CYP3A4 inducers (e.g., rifampicin, hypericum perforatum). In monotherapy, amlodipine has been safely administered with thiazide diuretics, beta-blockers, angiotensin-converting enzyme inhibitors, long-acting nitrates, sublingual nitro-glycerine, digoxin, warfarin, atorvastatin, sildenafil, Maalox (Aluminium hydroxide gel, magnesium hydroxide, and simethicone), cimetidine, non-steroidal anti-inflammatory drugs, antibiotics, and oral hypoglycaemic drugs.

Valsartan
Dual blockade of the renin-angiotensin system (RAS) with ARBs, ACEIs or aliskiren: The concomitant use of ARBs, including valsartan, with other agents acting on the RAS is associated with an increased incidence of hypotension, hyperkalaemia, and changes in renal function compared to monotherapy. It is recom-

mended to monitor blood pressure, renal function, and electrolytes in patients on Valezto and other agents that affect the RAS. The concomitant use of ARBs - including valsartan - or of ACEIs with aliskiren, should be avoided in patients with severe renal impairment (GFR < 30 mL/min).

The concomitant use of ARBs including valsartan, or ACEIs, with aliskiren is contraindicated in patients with Type 2 diabetes mellitus.

Potassium: Concomitant use with potassium supplements, potassium-sparing diuretics, salt substitutes containing potassium, or other drugs that may increase potassium levels (heparin, etc.) requires caution and frequent monitoring of potassium levels.

Non-Steroidal Anti-Inflammatory Agents (NSAIDs) including Selective Cyclooxygenase-2 Inhibitors (COX-2 Inhibitors):

When angiotensin II antagonists are administered simultaneously with NSAIDs, attenuation of the antihypertensive effect may occur. Furthermore, in patients who are elderly, volume-depleted (including those on diuretic therapy), or have compromised renal function, concomitant use of angiotensin II antagonists and NSAIDs may lead to an increased risk of worsening of renal function. Therefore, monitoring of renal function is recommended when initiating or modifying the treatment in patients on valsartan who are taking NSAIDs concomitantly.

Lithium: Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with ACE inhibitors or angiotensin II receptor antagonists including Valezto. Therefore, careful monitoring of serum lithium levels is recommended during concomitant use. If a diuretic is also used, the risk of lithium toxicity may presumably be increased further with Valezto.

Transporters: The results from an in vitro study with human liver tissue indicate that valsartan is a substrate of the hepatic uptake transporter OATP1B1 and the hepatic efflux transporter MRP2. Co-administration of inhibitors of the uptake transporter (e.g., rifampin, ciclosporin) or efflux transporter (e.g., ritonavir) may increase the systemic exposure to valsartan. In monotherapy with valsartan, no drug interactions of clinical significance have been found with the following drugs: cimetidine, warfarin, furosemide, digoxin, atenolol, indomethacin, hydrochlorothiazide, amlodipine, glibenclamide.

OVERDOSE

There is no experience of overdosage with Valezto yet. The major symptom of overdosage with valsartan is possibly pronounced hypotension with dizziness.

Overdosage with amlodipine may result in excessive peripheral vasodilatation and possibly reflex tachycardia. Marked and potentially prolonged systemic hypotension up to and including shock with fatal outcome have been reported.

Clinically significant hypotension due to amlodipine overdosage calls for active cardiovascular support including frequent monitoring of cardiac and respiratory function, elevation of extremities, and attention to circulating fluid volume and urine output.

A vasoconstrictor may be helpful in restoring vascular tone and blood pressure, provided that there is no contraindication to its use.

If the ingestion is recent, induction of vomiting or gastric lavage may be considered.

Administration of activated charcoal to healthy volunteers immediately or up to two hours after ingestion of amlodipine has been shown to significantly decrease amlodipine absorption.

Intravenous calcium gluconate may be beneficial in reversing the effects of calcium channel blockade.

Both valsartan and amlodipine are unlikely to be removed by hemodialysis.

INSTRUCTION FOR USE

No special requirement

PACK SIZE

3 x 10's Alu-Alu Blister

STORAGE

Store below 30°C. Protect from light and moisture

SHELF LIFE

Please refer to outer package for information

PRODUCT REGISTRATION HOLDER

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