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Sevia²H (Valsartan and Hydrochlorothiazide) is a combination of valsartan, an orally active, antihypertensive, specific angiotensin **II** receptor blocker (ARB) acting on the AT₁ receptor sublype, and hydrochlorothiazide, a diuretic

COMPOSITION:
Sevia®#/ 80mg + 12.5mg Tablets
Each film coaled tablet contains:
Valsartan USP 80mg + hydrochlorothiazide BP 12.5mg

Sevia[®]-H 160mg + 25mg Tablets
Each film coated tablet contains:
Valsartan USP 160mg + hydrochlorothiazide BP 25mg

CLINICAL PHARMACOLOGY:

Mechanism of Action

Valsarian is an orally active, potent, and specific angiotensin II (Ang 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 Ang II following AT₁ receptor blockade with valsarian may stimulate the unblocked AT₂ receptor, which appears to counterbalance the effect of the AT₁ receptor. Valsarian does not exhibit any partial agonist activity at the AT₁ receptor and has much activity at the AT₂ receptor which appears to counterbalance the effect of the AT₁ receptor. Valsarian does not exhibit any partial agonist activity at the AT₂ receptor and has much activity at the AT₃ receptor and has much activity at the AT₄ receptor and has much activities and the AT₄ receptor and has much activities and has active and has active and has active and has a substance. Page and has a substance and has a subs

PHARMACODYNAMICS: PHARMACODYNAMICS:

Valsartar: Visiartari inhibits the pressor effect of angiotensin II infusions. An oral dose of 80mg inhibits the pressor effect by about 80% at peak with approximately 30% inhibition persisting for 24 hours. No information on the effect of larger doses is available. Removal of the negative fleedback of angiotensin II causes a 2 to 3 flot rise in plasma renin and consequent rise in angiotensin II plasma concentration in hyperfensive petients. Minimal decreases in plasma dosterione were observed after administration of valsarian; very little effect on serum potassium was observed

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PHARMACOKINETICS:
Valsartan + hydrochlorothiazide
The systemic availability of hydrochlorothiazide is reduced by about 30% when co-administered with valsartan. The kinetics of valsartan are not markedly affected by the co-administration of hydrochlorothiazide, This observed interaction has no impact on the combined use of valsartan and hydrochlorothiazide, since controlled clinical trials have shown a clear anti-hypertensive effect, greater than that obtained with either active substance given alone, or placebo
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 exposure (as measured by AUC) to valsartan by about 40% and peak plasma concentration (Cmax) by about 50%, although from about 8h post dosing plasma valsartan concentrations are similar for the fed and fasted groups. This reduction in AUC is not, however, accompanied by a clinically significant reduction in the 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 does not distribute into tissues extensively. Valsartan is highly bound to serum proteins (34–97%), mainly serum albumin
Metabolism

Metabolism

Excretion

Valsartan shows multiexponential decay kinetics (15/4x < 1h and 15/4 about 9h). Valsartan is primarily eliminated in faeces (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). Hydrochlorothiazide
Absorption

Absorption
The absorption of hydrochlorothiazide, after an oral dose, is rapid (t_{max} about 2h). The increase in mean AUC is linear and dose proportional in the therapeutic range. The effect of food on hydrochlorothiazide absorption, if any, has little clinical significance. Absolute bioavailability of hydrochlorothiazide is 70% after oral administration Distribution.
The distribution and elimination kinetics have generally been described by a bi-exponential decay function. The apparent volume of distribution is 4-8 l/kg Circulating hydrochlorothiazide is bound to serum proteins (40–70%), mainly serum albumin. Hydrochlorothiazide also accumulates in erythrocytes at approximately 1.8 imes the level in plasma

times the level in plasma

Excretion

Hydrochlorothiazide is eliminated predominantly as unchanged drug. Hydrochlorothiazide is eliminated from plasma with a half-life averaging 6 to 15 hours in the terminal
elimination phase. There is no change in the kinetics of hydrochlorothiazide on repeated dosing, and accumulation is minimal when dosed once daily. There is more than
95% of the absorbed dose being excreted as unchanged compound in the urine. The renal clearance is composed of passive filtration and active secretion into the renal

Treatment of hypertension in adults, 18 years of age & older. Valsarlan + hydrochlorothiazide fixed-dose combination is indicated in patients whose blood pressure is not adequately controlled with monotherapy

DOSAGE AND ADMINISTRATION

AND AUMINIST KALION:
mended dose of valsarian-hydrochlorothiazide is once a day. When clinically appropriate either 80mg valsardan and 12.5mg hydrochlorothiazide or 160mg valsardan hydrochlorothiazide was be used. When necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide may be used. The necessary 160mg valsardan & 25mg hydrochlorothiazide was 160mg hydrochlorothiazide was & 12.5mg hydrochlorothia The maximum daily dose

Renai impairment No dosage adjustment is required for patients with mild to moderate renal impairment (Glomerular Filtration Rate(GFR)>30ml/min) Hepatic Impairment No dosa adjustment is required for patients with mild to moderate renal impairment (Glomerular Filtration Rate(GFR)>30ml/min) No dosa adjustment is required for patients with mild to moderate renal impairment (Glomerular Filtration Rate(GFR)>30ml/min)

Hepatic Impairment

No dose adjustment is required for patients with mild to moderate renal impairment (Glomerular Filtration Rate(GFR)>30ml/min)

No dose adjustment is required for patients with mild to moderate hepatic impairment. Due to hydrochlorothiazide component, valsartan + hydrochlorothiazide fixed-dose should be used with particular caution in patients with severe hepatic impairment

Pediatric (below 16 years)

The safety and efficacy of valsartan + hydrochlorothiazide fixed-dose have not been established in children below the age of 18 years

Special populations

Elderly

A somewhat higher entering

Excertly
A somewhat higher systemic exposure to valsartan was observed in some elderly subjects than in young subjects; however, this has not been shown to have any clinical
significance. Limited data suggest that the systemic clearance of hydrochlorothiazide is reduced in both healthy and hypertensive elderly subjects compared to young healthy
volunteers

Renal impairment

Renal impairment
At recommended dose of valsartan + hydrochlorothiazide tablets, no dose adjustment is required for patients with a creatinine clearance of 30–70 ml/min.
In patients with severe renal impairment (creatinine clearance <\$00ml/min, and patients undergoing dialysis, no data are available for valsartan + hydrochlorothiazide
follomg/25mg film-coadet datelst. Valsartan is highly bound to plasma protein cannot unbind by dialysis, whereas clearancy hydrochlorothiazide will be achieved by dialysis
In the presence of renal impairment, mean peak plasma levels and AUC values of hydrochlorothiazide are increased and the urinary excretion rate is reduced. In patients
with mild to moderate renal impairment, a 3-fold increase in hydrochlorothiazide AUC has been observed, In patients with severe renal impairment an 8-fold increase in Valoration and the valoration of valoration of the valoration of valoration of the valoration of valoration of the valoration of valoration of the valoration of the valoration of the valoration

Hepatic impairment
In a pharmacokinetics trial in patients with mild (n=6) to moderate (n=5) hepatic dysfunction, exposure to valsartan was increased approximately 2-fold compared with healthy volunteers. There is no data available on the use of valsartan in patients with severe hepatic dysfunction. Hepatic disease does not significantly affect the pharmacokinetics of hydrochlorothiazide

OR As directed by the physician

ADVERSE REACTIONS:
The most common reasons for discontinuation of therapy with valsartan and hydrochlorothiazide are headache and dizziness

Valsartan and hydrochlorothiazide is contraindicated in patients who are hypersensitive to any component of this product. Because of the hydrochlorothiazide component, this product is contraindicated in patients with anuria or hypersensitivity to other sulfonamide-derived drugs. Do not coadminister aliskiren with valsartan and hydrochlorothiazide in patients with diabetes

WARNING/PRECAUTIONS: Serum electrolyte changes

Serum ele Valsartan

Seum electrolyte changes
Valsartan
Concomilant use with potassium supplements, potassium-sparing diuretics, salt substitutes containing potassium, or other agents that may increase potassium levels (heparin, etc.) is not recommended. Monitoring of potassium should be undertaken as appropriate
Hydrochlorothiazide
Hydrochlorothiazide
Hydrochlorothiazide interest in the proposed of the proposed of

renal artery stenosis
Valsartan + hydrochlorothiazide 160mg/25mg film-coated tablets should not be used to treat hypertension in patients with unilateral or bilateral renal artery stenosis or stenosis of the artery to a solitary kidney, since blood urea and serum creatinine may increase in such patients

Primary hyperaddosteronism

The alley is a solution (in the content of the cont

not activated
Aortic and mitral valve stenosis, hypertrophic obstructive cardiomyopathy
As with all other vasodilators, special caution is indicated in patients suffering from aortic or mitral stenosis, or hypertrophic obstructive cardiomyopathy (HOCM)
Renal impairment

Aortic and mitral varies serious, injourney.

As with all other vasodilators, special caution is indicated in patients suffering from aortic or mitral stenosis, or nyperiluptine observations. As with all other vasodilators, special caution is indicated in patients with a creatinine clearance ≥ 30ml/min. Periodic monitoring of serum potassium, creatinine and uric acid levels are recommended when valsartan + hydrochlorothiazide 160mg/25mg tablets is used in patients with renal impairment her concomitant use of angiotensin II receptor antagonists (AIIRAs) - including valsartan or of ACE inhibitors with aliskiren is contraindicated in patients with renal impairment (GFR - 60ml/min/1.73m²). Kidney transplantation

There is currently no experience on the safe use of valsartan + hydrochlorothiazide in patients who have recently undergone kidney transplantation

Hepatic impairment

Iner is currently no expenence on the sate use of valsarian + nydrocnloromization in patients who have recently undergone kidney transplantation Hepatic impairment In patients with mild to moderate hepatic impairment without cholestasis, valsarian + hydrochlorothiazing close [60mg/25mg tablets should be used with caustion in patients with impaired hepatic function or progressive liver disease, since mid-interations of fluid and electrolyte balance may precipitate hepatic History of angioedema

History of 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 Actil chilbitors. Valsartan + hydrochlorothiazide should be immediately discontinued in patients who develop angioedema, and valsartan + hydrochlorothiazide should not be re-administered Systemic lupus erythematosus.

Thiazide dureties, including hydrochlorothiazide, have been reported to exacerbate or activate systemic lupus erythematosus.

Thiazide diuretics, including hydrochroromazoe, nave peen reported of extractive extractive of extractive extractive of extractive extra

discontinued before carrying out tests for parathyroid function

Photosensitivity

Cases of photosensitivity reactions have been reported with thiazides diuretics. If photosensitivity reaction occurs during treatment, it is recommended to stop the treatment. If a re-administration of the diuretic is deemed necessary, it is recommended to protect exposed areas to the sun or to artificial UVA

Pregnancy

Angiotensin II receptor antagonists (AIIRAs) should not be initiated during pregnancy, Unless continued AIIRAs therapy is considered essential, patients planning pregnancy should be changed to alternative anti-hypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with AIIRAs should be stopped immediately, and, if appropriate, alternative therapy should be started

Hydrochlorothiazide

Thiazides can cross the placenta, and concentrations reached in umbilical vein approach those in the maternal plasma. Hydrochlorothiazide, like other diuretics can cause

Hydrochlorothiazide
Thiazides can cross the placenta, and concentrations reached in umbilical vein approach those in the maternal plasma. Hydrochlorothiazide, like other diuretics can cause placental hypoperfusion
Nursing Mothers
It is not known whether valsartan is excreted in human milk. Valsartan is excreted in the maternal plasma is the placenta and is excreted in human breast milk. Thus it is not advisable to use Sevia. If in breast feeding mothers

General

General Caution should be exercised in patients who have shown prior hypersensitivity to other angiotensin II receptor antagonists. Hypersensitivity reactions to hydrochlorothiazide are more likely in patients with allergy and asthma

Caution should be exercised in patients who have shown prior hypersensitivity to other angiotensin II receptor antagonists. Hypersensitivity reactions to hydrochlorothiazide are more likely in patients with allerys and asthma Acute Angle-Closure Glaucoma. Hydrochlorothiazide, a sulfonamide, has been associated with an idiosyncratic reaction resulting in acute transient myopia and acute angle-closure glaucoma. Symptoms include acute onset of decreased visual acuity or ocular pain and typically occur within hours to week of a drug initiation. Untreated acute-angle closure glaucoma can lead to permanent vision loss. The primary treatment is discontinue hydrochlorothizatice as rapidly as possible. Prompt mediate may need to be considered if the intraocular pressure remains uncontrolled. Risk factors for developing acute angle closure glaucoma may include a history of sulfonamide or penicillin allergy. Dual Blockade of the Renin-Angiotensin-Aldosterone System (RAAS)
Hypotension, syncope, stroke, hyperkalaemia, and changes in renal function (including acute renal failure) have been reported in susceptible individuals, especially if combining medicinal products that affect this system. Dual blockade of the renin-angiotensin-aldosterone system by combining altiskiern with an angiotensin converting enzyme (ACE) inhibitor or an angiotensin II receptor antagonist (AIRA) is therefore not recommended. The use of aliskiren in combination with valsartan + hydrochlorothiazide is contraindicated in patients with diabetes melliture or renal impairment (GRF < 60m/limin/1.73m²)
Galactose intolerance, Lapp lactase deficiency, glucose-galactose malabsorption should not take this medicine.

DRUG INTERACTIONS:

- DRUG INTERACTIONS:

 Anticlabetic drugs: Dosage adjustment of anticlabetic drugs may be required

 Anticlabetic drugs: Dosage adjustment of anticlabetic drugs may be required

 Cholestyramine and colestipol: Reduced absorption of thiazides

 Lithium: Increased risk of lithium toxicity, Monitor serum lithium concentrations during concurrent use

 Non-Steroidal Anti-Inflammatory Drugs (NSAIDs): May increase risk of renal impairment of the relative during the description of the renin-angiotensin system: Increased risk of renal impairment, hypotension, and hyperkalemia

Over does with valsartan may result in marked hypotension, which could lead to depressed level of consciousness, circulatory collapse and/or shock. If the ingestion is recent, vomiting should be induced. Otherwise, the usual treatment would be II. It indusion of normal salient solution. Valsartan cannot be eliminated by means of hemodalysis because of its stop loads may be able to the control of the solution of

PRESENTATION:
Sevia®H 80mg/12.5mg tablets in pack of 2 x 7's
Sevia®H 160mg/25mg tablets in pack of 2 x 7's

STABILITY:

ee expiry on the pack

INSTRUCTIONS:
Keep out of reach of children, Avoid exposure to heat, light and humidity
Store between 15 to 30°C. Improper storage may deteriorate the medicine

Manufactured by:
SAMI Pharmaceuticals (Pvt.) Ltd.
F-95, S.I.T.E., Karachi-Pakistan
www.samipharmapk.com

سيويا-ايچ ليب _ (والسارڻن+ ہائيڈروکلوروتھائيزائيڈ) خوراک: ڈاکٹر کی ہدایت کےمطابق استعال کریں بچوں کی پہنچ سے دورر کھیں دواکودھوپ،گرمی اورنمی ہے محفوظ ۱۵ ہے۔۳ ڈ گری سینٹی گریٹیہ کے درمیان میں رکھیں ورنہ دواخراب ہوجا کیگی