

Name of the medicinal product

Diovan[®]

Description and composition

Active substance

One tablet contains 40 mg, 80 mg or 160 mg valsartan.

Pharmaceutical form(s)

Film-coated tablet.

Diovan 40 mg: yellow, ovaloid, scored on one side, slightly convex, with bevelled edges, debossed on one side with DO and with NVR on the other side.

Diovan 80 mg: pale red, round, scored on one side, slightly convex, with bevelled edges, debossed on one side with D/V and NVR on the other side.

Diovan 160 mg: grey-orange, ovaloid, scored on one side, convex, debossed on one side with DX/DX and NVR on the other side.

Excipients

Microcrystalline cellulose, crospovidone, colloidal anhydrous silica, magnesium stearate, hypromellose, titanium dioxide (E171), Macrogol 8000, red iron oxide (E172), yellow iron oxide (E172), black iron oxide (E172; 40 mg and 160 mg only).

Indications

Hypertension

Diovan[®] (valsartan) is indicated for the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

Heart failure

Diovan is indicated for the treatment of heart failure (NYHA class II-IV) in patients who are intolerant of angiotensin converting enzyme inhibitors. In a controlled clinical trial, Diovan[®] significantly reduced hospitalizations for heart failure. There is no evidence that Diovan[®] provides added benefits when it is used with an adequate dose of an ACE inhibitor (see sections Clinical pharmacology, Pharmacodynamics and Clinical Studies, Heart Failure for details).

Post-myocardial infarction

Diovan is indicated to improve survival following myocardial infarction in clinically stable patients with signs, symptoms or radiological evidence of left ventricular failure and/or with left ventricular systolic dysfunction (see section Clinical pharmacology).

Dosage and administration

Dosage

Hypertension

The recommended dose of Diovan is 80 mg film-coated tablet once daily, irrespective of race, age, or gender. The antihypertensive effect is substantially present within 2 weeks and maximal effects are seen after 4 weeks. In patients whose blood pressure is not adequately controlled, the daily dose may be increased to 160 mg, or a diuretic may be added.

Diovan may also be administered with other antihypertensive agents.

Heart failure

The recommended starting dose of Diovan is 40 mg film-coated tablet twice daily. Uptitration to 80 mg and 160 mg twice daily should be done to the highest dose, as tolerated by the patient. Consideration should be given to reducing the dose of concomitant diuretics. The maximum daily dose administered in clinical trials is 320 mg in divided doses.

Concomitant use with an ACE inhibitor and a beta blocker is not recommended.

Evaluation of patients with heart failure should always include assessment of renal function.

Post-myocardial infarction

Therapy may be initiated as early as 12 hours after a myocardial infarction. After an initial dose of 20 mg twice daily, valsartan therapy should be titrated to 40 mg, 80 mg, and 160 mg film-coated tablet twice daily over the next few weeks. The starting dose is provided by the 40 mg divisible tablet.

Achievement of the target dose of 160 mg twice daily should be based on the patient's tolerability to valsartan during titration. If symptomatic hypotension or renal dysfunction occur, consideration should be given to a dosage reduction.

Valsartan may be used in patients treated with other post-myocardial infarction therapies, e.g. thrombolytics, acetylsalicylic acid, beta blockers, or statins.

Evaluation of post-myocardial infarction patients should always include assessment of renal function.

NOTE for all indications: No dosage adjustment is required for patients with renal impairment or for patients with hepatic insufficiency of non-biliary origin and without cholestasis.

Special populations

Use in children and adolescents

The safety and efficacy of Diovan have not been established in children and adolescents (below the age of 18 years).

Contraindications

Known hypersensitivity to valsartan or to any of the excipients of Diovan.

Pregnancy (see section Women of child-bearing potential (WOCBP), pregnancy, breast-feeding and fertility).

Severe hepatic impairment

Cirrhosis

Biliary obstruction

Concomitant use of angiotensin receptor antagonists (ARBs) - including Diovan - or of angiotensin-converting-enzyme inhibitors (ACEIs) with aliskiren in patients with Type 2 diabetes (see section Interactions, subsection dual blockade of the RAS).

Warnings and precautions**Patients with sodium- and/or volume-depletion**

In severely sodium-depleted and/or volume-depleted patients, such as those receiving high doses of diuretics, symptomatic hypotension may occur in rare cases after initiation of therapy with Diovan. Sodium and/or volume depletion should be corrected before starting treatment with Diovan, for example by reducing the diuretic dose.

If hypotension occurs, 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.

Patients with renal artery stenosis

Short-term administration of Diovan to twelve patients with renovascular hypertension secondary to unilateral renal artery stenosis did not induce any significant changes in renal haemodynamics, serum creatinine, or blood urea nitrogen (BUN). However, since other drugs that affect the renin-angiotensin-aldosterone system (RAAS) may increase blood urea and serum creatinine in patients with bilateral or unilateral renal artery stenosis, monitoring of both parameters is recommended as a safety measure.

Patients with impaired renal function

No dosage adjustment is required for patients with renal impairment. However, no data is available for severe cases (creatinine clearance < 10 mL/min.), and caution is therefore advised.

The use of ARBs - including Diovan - or of ACEIs with aliskiren should be avoided in patients with severe renal impairment (GFR < 30 mL/min) (see section Interactions, subsection dual blockade of the RAS).

Patients with hepatic impairment

Based on pharmacokinetic data, which demonstrate approximately 2-fold increase in plasma concentrations of valsartan in mild to moderate hepatically impaired patients, doses higher than 80 mg daily should only be considered if the clinical benefits, is likely to outweigh the possible risk associated with increased exposure of valsartan.

Heart failure / Post-myocardial infarction

Use of Diovan in patients with heart failure or post-myocardial infarction commonly results in some reduction in blood pressure, but discontinuation of Diovan therapy because of continuing symptomatic hypotension is not usually necessary provided dosing instructions are followed.

Caution should be observed when initiating therapy in patients with heart failure or post-myocardial infarction (see section Dosage and administration).

As a consequence of inhibiting the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible individuals. In patients with severe heart failure whose renal function may depend on the activity of the renin-angiotensin-aldosterone system, treatment with angiotensin-converting enzyme inhibitors and angiotensin receptor antagonists has been associated with oliguria and/or progressive azotemia and (rarely) with acute renal failure and/or death. Evaluation of patients with heart failure or post-myocardial infarction should always include assessment of renal function.

In patients with heart failure, caution should be observed with the triple combination of an angiotensin-converting enzyme inhibitors, a beta-blocker and an ARB (angiotensin II receptor blocker) (see section Clinical pharmacology).

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. Diovan should be immediately discontinued in patients who develop angioedema, and Diovan should not be re-administered.

Dual Blockade of the Renin-Angiotensin System (RAS)

Caution is required while co-administering ARBs, including Diovan, with other agents blocking the RAS such as ACEIs or aliskiren (see section Interactions, subsection dual blockade of the RAS).

Interactions

Dual blockade of the Renin-Angiotensin- System (RAS) with ARBs, ACEIs, or aliskiren:

The concomitant use of ARBs, including Diovan, with other agents acting on the RAS is associated with an increased incidence of hypotension, hyperkalemia, and changes in renal function compared to monotherapy. It is recommended to monitor blood pressure, renal

function and electrolytes in patients on Diovan and other agents that affect the RAS (see section Warnings and precautions).

The concomitant use of ARBs - including Diovan - or of ACEIs with aliskiren, should be avoided in patients with severe renal impairment (GFR < 30 ml/min) (see section Warnings and precautions).

The concomitant use of ARBs - including Diovan - or ACEIs with aliskiren is contraindicated in patients with Type 2 diabetes (see section Contraindications).

Potassium: Concomitant use of potassium-sparing diuretics (e.g. spironolactone, triamterene, amiloride), potassium supplements, or salt substitutes containing potassium or other drugs that may increase potassium levels (heparin, etc.) may lead to increases in serum potassium. If comedication is considered necessary, monitoring of serum potassium is advisable.

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 Diovan. 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 Diovan.

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 (rifampin, cyclosporin) or efflux transporter (ritonavir) may increase the systemic exposure to valsartan.

No drug interactions of clinical significance have been found. Compounds which have been studied in clinical trials include cimetidine, warfarin, furosemide, digoxin, atenolol, indomethacin, hydrochlorothiazide, amlodipine and glibenclamide.

As valsartan is not metabolized to a significant extent, clinically relevant drug-drug interactions in the form of metabolic induction or inhibition of the cytochrome P450 system are not expected with valsartan. Although valsartan is highly bound to plasma proteins, *in vitro* studies have not shown any interaction at this level with a range of molecules which are also highly protein bound, such as diclofenac, furosemide, and warfarin.

Woman of child-bearing potential (WOCBP), pregnancy, breast-feeding and fertility

Woman of child-bearing potential

As for any drug that also acts directly on the RAAS, Diovan should 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.

Pregnancy

As for any drug that also acts directly on the RAAS, Diovan must not be used during pregnancy (see section Contraindications). Due to the mechanism of action of angiotensin II antagonists, a risk for the fetus cannot be excluded. *In utero* exposure to ACE inhibitors (a specific class of drugs acting on the RAAS) during the second and third trimesters has been reported to cause injury and death to the developing fetus. 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 newbornrenal dysfunction, when pregnant women have inadvertently taken valsartan. If pregnancy is detected during therapy, Diovan should be discontinued as soon as possible. (see section Non-clinical safety data).

Breast-feeding

It is not known whether valsartan is excreted in human milk. Since valsartan was excreted in the milk of lactating rats, it is not advisable to use Diovan in breast-feeding mothers.

Fertility

There is no information on the effects of Diovan on human fertility. Studies in rats did not show any effects of valsartan on fertility (see section Non-clinical safety data).

Effects on ability to drive and using machines

As with other antihypertensive agents, it is advisable to exercise caution when driving or operating machinery.

Adverse drug reactions

In controlled clinical studies in patients with hypertension, the overall incidence of adverse reactions (ADRs) was comparable with placebo and is consistent with the pharmacology of valsartan. The incidence of ADRs did not appear to be related to dose or treatment duration and also showed no association with gender, age or race.

The ADRs reported from clinical studies, post-marketing experience and laboratory findings are listed below according to system organ class.

Adverse reactions are ranked by frequency, the most frequent first, using the following convention: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to

< 1/100); rare ($\geq 1/10,000$ to < 1/1,000) very rare (< 1/10,000), including isolated reports. Within each frequency grouping, adverse reactions are ranked in order of decreasing seriousness.

For all the ADRs reported from post-marketing experience and laboratory findings, it is not possible to apply any ADR frequency and therefore they are mentioned with a "not known" frequency.

Table-1 Adverse drug reactions in Hypertension

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
Ear and labyrinth system disorders	
Uncommon	Vertigo
Vascular disorders	
Not known	Vasculitis
Respiratory, thoracic and mediastinal disorders	
Uncommon	Cough
Gastrointestinal disorders	
Uncommon	Abdominal pain
Hepato-biliary disorders	
Not known	Liver function test abnormal including blood bilirubin increase
Skin and subcutaneous tissue disorders	
Not known	Angioedema, Dermatitis bullous, Rash, Pruritus
Musculoskeletal and connective tissue disorders	
Not known	Myalgia
Renal and urinary disorders	
Not known	Renal failure and impairment, Blood creatinine increased
General disorders and administration site conditions	
Uncommon	Fatigue

The following events have also been observed during clinical trials in hypertensive patients irrespective of their causal association with the study drug: Arthralgia, asthenia, back pain, diarrhoea, dizziness, headache, insomnia, libido decrease, nausea, edema, pharyngitis, rhinitis, sinusitis, upper respiratory tract infection, viral infections.

Post-myocardial infarction and/or heart failure

The safety profile seen in controlled-clinical studies in patients with post-myocardial infarction and/or heart failure varies from the overall safety profile seen in hypertensive patients. This may relate to the patients underlying disease. ADRs that occurred in post-myocardial infarction and/or heart failure patients are listed below:

Table-2 Post-myocardial infarction and/or heart failure

Blood and lymphatic system disorders	
Not known	Thrombocytopenia
Immune system disorders	
Not known	Hypersensitivity including serum sickness
Metabolism and nutrition disorders	
Uncommon	Hyperkalaemia
Not known	Blood potassium increased
Nervous system disorders	
Common	Dizziness, Postural dizziness
Uncommon	Syncope, Headache
Ear and labyrinth system disorders	
Uncommon	Vertigo
Cardiac disorders	
Uncommon	Cardiac failure
Vascular disorders	
Common	Hypotension, Orthostatic hypotension
Not known	Vasculitis
Respiratory, thoracic and mediastinal disorders	
Uncommon	Cough
Gastrointestinal disorders	
Uncommon	Nausea, Diarrhoea
Hepato-biliary disorders	
Not known	Liver function test abnormal
Skin and subcutaneous tissue disorders	
Uncommon	Angioedema
Not known	Rash, Pruritis, dermatitis bullous
Musculoskeletal and connective tissue disorders	
Not known	Myalgia
Renal and urinary disorders	
Common	Renal failure and impairment
Uncommon	Acute renal failure, Blood creatinine increased
Not known	Blood Urea increased
General disorders and administration site conditions	
Uncommon	Asthenia, Fatigue

The following events have also been observed during clinical trials in patients with post-myocardial infarction and/or heart failure irrespective of their causal association with the study drug: Arthralgia, abdominal pain, back pain, insomnia, libido decrease, neutropenia, edema, pharyngitis, rhinitis, sinusitis, upper respiratory tract infection, viral infections.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via:

Pusat Farmakovigilans/MESO Nasional

Direktorat Pengawasan Keamanan, Mutu, dan Ekspor Impor Obat, Narkotika, Psikotropika, Prekursor dan Zat Adiktif

Badan Pengawas Obat dan Makanan

Jl. Percetakan Negara No. 23, Jakarta Pusat, 10560

Email: pv-center@pom.go.id

Phone: +62-21-4244691 Ext.1079

Website: <https://e-meso.pom.go.id/ADR>

or

Novartis Indonesia

Website: www.novartis.com/report

Overdosage

Overdose with Diovan 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 i.v. infusion of normal saline solution. Valsartan is unlikely to be removed by haemodialysis.

Clinical pharmacology

Pharmacotherapeutic group, ATC:

Angiotensin II antagonists, plain, ATC code: C09C A03.

Pharmacodynamics (PD)

The active hormone of the RAAS is angiotensin II, which is formed from angiotensin I through ACE. Angiotensin II binds to specific receptors located in the cell membranes of various tissues. It has a wide variety of physiological effects, including in particular both direct and indirect involvement in the regulation of blood pressure. As a potent vasoconstrictor, angiotensin II exerts a direct pressor response. In addition, it promotes sodium retention and stimulation of aldosterone secretion.

Diovan (valsartan) 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 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 Ang I to Ang 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 ($P < 0.05$) less 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.

Pharmacokinetics (PK) properties

Absorption

Absorption of valsartan after oral administration is rapid, although the amount absorbed varies widely. Following oral administration of valsartan alone, peak plasma concentrations of valsartan are reached in 2–4 hours. Mean absolute bioavailability is 23%. When valsartan is given with food, the area under the plasma concentration curve (AUC) of valsartan is reduced by 48%, although from about 8 hours post dosing plasma valsartan concentrations are similar for the fed and fasted group. 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

Steady-state volume of distribution of valsartan after intravenous administration is about 17 liters low (about 17 L), 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 biotransformed to a high extent as only about 20% of 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 shows multiexponential decay kinetics ($t_{1/2\alpha} < 1$ h and $t_{1/2\beta}$ about 9 h). Plasma clearance is relatively slow (about 2 L/h) when compared with hepatic blood flow (about 30 L/h). Of the absorbed dose of valsartan, 70% is excreted in the feces and 30% in the urine, mainly as unchanged compound. Valsartan is primarily eliminated 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.

The pharmacokinetics of valsartan are linear in the dose range tested. There is no change in the kinetics of valsartan on repeated administration, and little accumulation when dosed once daily. Plasma concentrations were observed to be similar in males and females.

The average time to peak concentration and elimination half-life of valsartan in heart failure patients are similar to that observed in healthy volunteers. AUC and C_{\max} values of valsartan increase linearly and are almost proportional with increasing dose over the clinical dosing range (40 to 160 mg twice a day). The average accumulation factor is about 1.7. The apparent clearance of valsartan following oral administration is approximately 4.5 L/h. Age does not affect the apparent clearance in heart failure patients.

Clinical studies

Hypertension

Administration of Diovan 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 dosing. During repeated dosing, the maximum reduction in blood pressure with any dose is generally attained within 2-4 weeks and is sustained during long-term therapy. Combined with hydrochlorothiazide, a significant additional reduction in blood pressure is achieved.

Abrupt withdrawal of Diovan has not been associated with rebound hypertension or other adverse clinical events.

In multiple dose studies in hypertensive patients valsartan had no notable effects on total cholesterol, fasting triglycerides, fasting serum glucose, or uric acid.

Heart failure

Hemodynamics and Neurohormones. Hemodynamics and plasma neurohormones were measured in NYHA class II-IV heart failure patients with pulmonary capillary wedge pressure >15 mmHg in 2 short term, chronic therapy studies. In one study, which included patients chronically treated with ACE inhibitors, single and multiple doses of valsartan given in combination with an ACE inhibitor improved hemodynamics including pulmonary capillary wedge pressure (PCWP), pulmonary artery diastolic pressure (PAD) and systolic blood pressure (SBP). Reductions were observed in plasma aldosterone (PA) and plasma norepinephrine (PNE) levels after 28 days of treatment. In the second study, which included only patients untreated with ACE inhibitors for at least 6 months prior to enrollment, valsartan significantly improved PCWP, systemic vascular resistance (SVR), cardiac output (CO) and SBP after 28 days of treatment. In the long-term Val-HeFT study, plasma norepinephrine and brain natriuretic peptide (BNP) were significantly reduced from baseline in the valsartan group compared to placebo.

Morbidity and mortality. Val-HeFT was a randomized, controlled, multinational clinical trial of valsartan compared with placebo on morbidity and mortality in NYHA class II (62%), III (36%) and IV (2%) heart failure patients receiving usual therapy with LVEF <40% and left ventricular internal diastolic diameter (LVIDD) >2.9 cm/m². The study enrolled 5010 patients in 16 countries who were randomized to receive either valsartan or placebo in addition to all other appropriate therapy including ACE inhibitors (93%), diuretics (86%), digoxin (67%)

and beta blockers (36%). The mean duration of follow-up was nearly two years. The mean daily dose of Diovan in Val-HeFT was 254 mg. The study had 2 primary endpoints: all cause mortality (time to death) and heart failure morbidity (time to first morbid event) defined as death, sudden death with resuscitation, hospitalization for heart failure, or administration of intravenous inotropic or vasodilator drugs for four hours or more without hospitalization. All cause mortality was similar in the valsartan and placebo groups. Morbidity was significantly reduced by 13.2% with valsartan compared with placebo. The primary benefit was a 27.5% reduction in risk for time to first heart failure hospitalization. The benefits were greatest in patients not receiving either an ACE inhibitor or a beta blocker. However, risk reductions favouring placebo were observed for those patients treated with the triple combination of a beta blocker, an ACE inhibitor and valsartan. Further studies such as VALIANT (see section on Post-myocardial infarction), where mortality was not increased in these patients, have reduced the concerns regarding the triple combination. Subgroup analyses can be difficult to interpret and it is not known whether these represent true differences or chance effects.

Exercise tolerance and capacity. The effects of valsartan in addition to usual heart failure therapy on exercise tolerance using the Modified Naughton Protocol were measured in NYHA class II-IV heart failure patients with left ventricular dysfunction (LVEF \leq 40%). Increased exercise time from baseline was observed for all treatment groups. Greater mean increases from baseline in exercise time were observed for the valsartan groups compared to the placebo group, although statistical significance was not achieved. The greatest improvements were observed in the subgroup of patients not receiving ACE inhibitor therapy where mean changes in exercise time were 2 times greater for the valsartan groups compared to the placebo group. The effects of valsartan compared to enalapril on exercise capacity using the six minute walk test were determined in NYHA class II and III heart failure patients with left ventricular ejection fraction \leq 45% who had been receiving ACE inhibitor therapy for at least 3 months prior to study entry. Valsartan 80 mg to 160 mg once daily was at least as effective as enalapril 5 mg to 10 mg twice daily, with respect to exercise capacity, as measured by the six minute walk test in patients previously stabilized on ACE inhibitors and directly switched to valsartan or enalapril.

NYHA class, Signs and symptoms, Quality of life, Ejection fraction. In Val-HeFT, valsartan treated patients showed significant improvement in NYHA class, and heart failure signs and symptoms, including dyspnea, fatigue, oedema and rales compared to placebo. Patients on valsartan had a better quality of life as demonstrated by change in the Minnesota Living with Heart Failure Quality of Life score from baseline at endpoint than placebo. Ejection fraction in valsartan treated patients was significantly increased and LVDD significantly reduced from baseline at endpoint compared to placebo.

Post-myocardial infarction

The VALsartan In Acute myocardial iNfarcTion trial (VALIANT) was a randomized, controlled, multinational, double-blind study in 14,703 patients with acute myocardial infarction and signs, symptoms or radiological evidence of congestive heart failure and/or evidence of left ventricular systolic dysfunction (manifested as an ejection fraction \leq 40% by radionuclide ventriculography or \leq 35% by echocardiography or ventricular contrast angiography). Patients were randomized within 12 hours to 10 days after the onset of myocardial infarction symptoms to one of three treatment groups: valsartan (titrated from

20 mg twice daily to highest tolerated dose up to a maximum of 160 mg twice daily), the ACE inhibitor captopril (titrated from 6.25 mg three times daily to highest tolerated dose up to a maximum of 50 mg three times daily), or the combination of valsartan plus captopril. In the combination group, the dose of valsartan was titrated from 20 mg twice daily to highest tolerated dose up to a maximum of 80 mg twice daily; the dose of captopril was the same as for monotherapy. The mean treatment duration was two years. The mean daily dose of Diovan in the monotherapy group was 217 mg. Baseline therapy included acetylsalicylic acid (91%), beta-blockers (70%), ACE inhibitors (40%), thrombolytics (35%), and statins (34%). The population studied was 69% male, 94% Caucasian, and 53% were 65 years of age or older. The primary endpoint was time to all-cause mortality.

Valsartan was at least as effective as captopril in reducing all-cause mortality after myocardial infarction. All-cause mortality was similar in the valsartan (19.9%), captopril (19.5%), and valsartan + captopril (19.3%) groups. Valsartan was also effective in prolonging the time to and reducing cardiovascular mortality, hospitalisation for heart failure, recurrent myocardial infarction, resuscitated cardiac arrest, and non-fatal stroke (secondary composite endpoint).

Since this was a trial with an active control (captopril), an additional analysis of all-cause mortality was performed to estimate how valsartan would have performed versus placebo. Using the results of the previous reference myocardial infarction trials – SAVE, AIRE, and TRACE – the estimated effect of valsartan preserved 99.6% of the effect of captopril (97.5% CI = 60–139%). Combining valsartan with captopril did not add further benefit over captopril alone. There was no difference in all-cause mortality based on age, gender, race, baseline therapies or underlying disease.

There was no difference in all-cause mortality or cardiovascular mortality or morbidity when beta-blockers were administered together with the combination of valsartan + captopril, valsartan alone, or captopril alone. Irrespective of study drug treatment, mortality was higher in the group of patients not treated with a beta-blocker, suggesting that the known beta-blocker benefit in this population was maintained in this trial. In addition, the treatment benefits of the combination of valsartan + captopril, valsartan monotherapy, and captopril monotherapy were maintained in patients treated with beta-blockers.

Non-clinical safety data

Preclinical data revealed no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity, carcinogenic potential and effects on fertility.

Safety pharmacology and Long term toxicity

In a variety of preclinical safety studies conducted in several animal species, there were no findings that would exclude the use of therapeutic doses of valsartan in humans. In preclinical safety studies, high doses of valsartan (200 to 600 mg/kg body weight) caused in rats a reduction of red blood cell parameters (erythrocytes, hemoglobin, hematocrit) and evidence of changes in renal hemodynamics (slightly raised plasma urea, and renal tubular hyperplasia and basophilia in males). These doses in rats (200 and 600 mg/kg/day) are approximately 6 and 18 times the maximum recommended human dose on a mg/m² basis (calculations assume

an oral dose of 320 mg/day and a 60-kg patient). In marmosets at similar doses, the changes were similar though more severe, particularly in the kidney where the changes developed to a nephropathy which included raised urea and creatinine. Hypertrophy of the renal juxtaglomerular cells was also seen in both species. All changes were considered to be caused by the pharmacological action of valsartan which produces prolonged hypotension, particularly in marmosets. For therapeutic doses of valsartan in humans, the hypertrophy of the renal juxtaglomerular cells does not seem to have any relevance.

Reproductive toxicity

In embryofetal development studies (Segment II) in mice, rats and rabbits, fetotoxicity was observed in association with maternal toxicity in rats at valsartan doses of ≥ 200 mg/kg/day and in rabbits at doses of ≥ 10 mg/kg/day. In a peri- and postnatal development toxicity (segment III) study, the offspring of rats given 600 mg/kg during the last trimester and during lactation showed a slightly reduced survival rate and a slight developmental delay (see section WOCBP, pregnancy, breast-feeding and fertility). The main preclinical safety findings are attributed to the pharmacological action of the compound, and have not been demonstrated to have any clinical significance.

Mutagenicity

Valsartan was devoid of mutagenic potential at either the gene or chromosome level when investigated in various standard in vitro and in vivo genotoxicity studies.

Carcinogenicity

There was no evidence of carcinogenicity when valsartan was administered in the diet to mice and rats for 2 years at doses up to 160 and 200 mg/kg/day, respectively.

Pharmaceutical information

Incompatibilities

Not applicable.

Special precautions for storage

Do not store above 30°C, store in the original package.

DIOVAN should not be used after the date marked "EXP" on the pack.

Diovan should be kept out of reach of children.

Shelf life: The expiry date is indicated on the packaging.

Nature and contents of container

Alu Alu blister packs

Instructions for use and handling

No special requirements.

HARUS DENGAN RESEP DOKTER

Package

Blister

Diovan[®] 40 mg : Box of 2 blisters @ 14 film coated tablets Reg No:

Diovan[®] 80 mg : Box of 2 blisters @ 14 film coated tablets Reg No:

Diovan[®] 160 mg : Box of 2 blisters @ 14 film coated tablets Reg No:

Manufactured by **Novartis Farma S.p.A, Torre Annunziata, Italy** for Novartis Pharma AG, Basel, Switzerland.

Imported by PT Novartis Indonesia, Jakarta, Indonesia.

*Leaflet based on CDS 11.01.12 03.12.14 **Torre***

Drug Regulatory Affairs

DIOVAN[®] (valsartan)

Tablet salut selaput 40 mg, 80 mg, 160 mg

Informasi Produk untuk Pasien

Bacalah brosur ini dengan saksama sebelum Anda menggunakan obat ini

Simpan brosur ini. Anda mungkin akan membutuhkan brosur ini untuk dibaca kembali.

Jika Anda memiliki pertanyaan, harap hubungi dokter atau apoteker Anda.

Obat ini diresepkan hanya untuk Anda. Jangan memberikan obat ini kepada orang lain atau menggunakan untuk penyakit lain.

Jika terjadi efek samping yang parah atau Anda mengalami efek samping lain yang tidak tertera pada brosur ini, mohon hubungi dokter atau apoteker Anda.

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1 Apa itu Diovan dan apa kegunaannya

Apa itu Diovan

Diovan termasuk dalam kelas obat yang dikenal sebagai obat yang membantu mengontrol tekanan darah tinggi.

Apa kegunaan Diovan

Diovan digunakan untuk mengobati tekanan darah tinggi pada pasien dewasa. Tekanan darah tinggi meningkatkan beban kerja jantung dan pembuluh darah nadi. Jika berlangsung lama, dapat merusak pembuluh darah di otak, jantung, dan ginjal, serta dapat menyebabkan stroke, gagal jantung, atau gagal ginjal. Tekanan darah tinggi meningkatkan risiko serangan jantung. Menurunkan tekanan darah Anda ke tingkat normal mengurangi risiko berkembangnya gangguan ini.

Diovan digunakan untuk mengobati gagal jantung pada pasien dewasa. Gagal jantung dikaitkan dengan sesak napas dan pembengkakan pada kaki dan tungkai akibat penumpukan cairan. Gagal jantung berarti otot jantung tidak dapat memompa darah dengan cukup kuat untuk memenuhi semua kebutuhan darah di seluruh tubuh.

Diovan juga dapat digunakan untuk mengobati kondisi setelah serangan jantung (infark miokard) pada pasien dewasa sehingga dapat meningkatkan kelangsungan hidup dan mengurangi masalah jantung lebih lanjut.

Bagaimana cara Diovan bekerja

Angiotensin II adalah zat alami dalam tubuh yang menyebabkan pembuluh darah menyempit, sehingga menyebabkan tekanan darah Anda meningkat. Diovan bekerja dengan menghambat efek angiotensin II. Akibatnya, pembuluh darah rileks dan tekanan darah menurun.

Jika Anda memiliki pertanyaan tentang cara kerja Diovan atau mengapa obat ini diresepkan untuk Anda, tanyakan kepada dokter Anda.

2 Sebelum Anda mengonsumsi Diovan

Ikuti petunjuk dokter Anda dengan hati-hati. Petunjuk tersebut mungkin berbeda dari petunjuk umum yang terdapat dalam brosur ini.

Jangan mengonsumsi Diovan

- Jika Anda pernah mengalami reaksi yang tidak biasa atau alergi terhadap valsartan atau bahan lain yang tercantum di akhir brosur ini.
- Jika Anda sedang hamil atau berencana untuk hamil.
- Jika Anda memiliki kadar gula darah yang tinggi dan menderita diabetes tipe 2 (juga disebut diabetes mellitus non-insulin dependent) dan Anda juga mengonsumsi obat penurun tekanan darah yang disebut aliskiren.
- Jika Anda mengalami gangguan hati berat
- Jika Anda mengalami sirosis hati
- Jika Anda mengalami sumbatan saluran empedu

Jika salah satu dari kondisi ini berlaku untuk Anda, **beri tahu dokter Anda tanpa mengonsumsi Diovan.**

Jika Anda berpikir Anda mungkin alergi, mintalah saran dari dokter Anda.

Peringatan dan perhatian

- **Jika Anda memiliki** penyakit hati
- Jika Anda memiliki penyakit ginjal serius atau sedang menjalani cuci darah
- **Jika Anda** sudah mengonsumsi obat yang disebut ACE-inhibitor bersama dengan beta blocker untuk mengobati gagal jantung Anda
- **Jika Anda** mengalami muntah atau diare atau mengonsumsi dosis tinggi diuretik (pil air).
- **Jika Anda** menderita gagal jantung atau pernah mengalami serangan jantung. Ikuti petunjuk dokter Anda untuk dosis awal dengan hati-hati. Dokter Anda mungkin juga akan memeriksa fungsi ginjal Anda.
- Jika Anda pernah mengalami pembengkakan terutama pada wajah dan tenggorokan saat mengonsumsi obat lain (termasuk ACE-inhibitor). Jika Anda mengalami gejala tersebut, **hentikan penggunaan Diovan dan segera hubungi dokter Anda. Anda tidak boleh mengonsumsi Diovan lagi.**
- Jika Anda diobati dengan ACE-inhibitor atau aliskiren.

Jika salah satu dari kondisi ini berlaku untuk Anda, beri tahu dokter Anda sebelum Anda mengonsumsi Diovan.

Penggunaan obat lain

Beri tahu dokter atau apoteker Anda jika Anda sedang atau baru saja mengonsumsi obat lain, termasuk obat yang diperoleh tanpa resep. Mungkin perlu mengubah dosis, mengambil tindakan pencegahan lain, atau dalam beberapa kasus menghentikan salah satu obat. Ini berlaku untuk obat resep dan non-resep, terutama:

- obat yang digunakan untuk menurunkan tekanan darah, terutama diuretik (pil air), ACE inhibitor atau aliskiren;
- obat yang menghemat kalium, suplemen kalium, pengganti garam yang mengandung kalium atau obat lain yang dapat meningkatkan kadar kalium. Dokter Anda mungkin akan memeriksa jumlah kalium dalam darah Anda secara berkala.
- Jenis obat penghilang rasa sakit tertentu yang disebut obat antiinflamasi nonsteroid (NSAID) atau penghambat siklooksigenase-2 selektif (penghambat Cox-2). Dokter Anda mungkin juga akan memeriksa fungsi ginjal Anda.
- Lithium, obat yang digunakan untuk mengobati beberapa jenis penyakit jiwa.
- Beberapa antibiotik (kelompok rifamisin), obat yang digunakan untuk melindungi terhadap penolakan transplantasi (siklosporin) atau obat antiretroviral yang digunakan untuk mengobati infeksi HIV/AIDS (ritonavir). Obat-obatan ini dapat meningkatkan efek Diovan.

Penggunaan Diovan dengan makanan dan minuman

Anda dapat mengonsumsi Diovan dengan atau tanpa makanan.

Penggunaan Diovan pada Populasi Khusus

Anak-anak (di bawah usia 18 tahun)

Keamanan dan efektivitas Diovan belum terbukti pada anak-anak di bawah usia 18 tahun.

Kehamilan dan menyusui

Jangan mengonsumsi Diovan jika Anda sedang hamil atau berencana untuk hamil. Penggunaan obat serupa telah dikaitkan dengan bahaya serius bagi janin. Oleh karena itu, penting untuk segera memeriksakan diri ke dokter jika Anda berpikir Anda mungkin telah hamil atau berencana untuk hamil.

Dokter Anda akan mendiskusikan dengan Anda potensi risiko mengonsumsi Diovan selama kehamilan.

Jangan mengonsumsi Diovan saat menyusui. Beri tahu dokter Anda jika Anda sedang menyusui.

3 Cara konsumsi Diovan

Ikuti petunjuk dokter Anda dengan hati-hati. Jangan melebihi dosis yang dianjurkan.

Pasien yang memiliki tekanan darah tinggi seringkali tidak menyadari tanda-tanda masalah ini. Banyak yang mungkin merasa cukup normal. Hal ini membuat semakin penting bagi Anda untuk tetap menghadiri janji dengan dokter meskipun Anda merasa baik-baik saja. Sangat penting bagi Anda untuk mengonsumsi obat ini persis seperti yang dikatakan dokter Anda untuk mendapatkan hasil terbaik dan mengurangi risiko efek samping.

Diovan hanya untuk penggunaan oral.

Berapa banyak penggunaan Diovan

Tablets Diovan: Dokter Anda akan memberi tahu Anda dengan tepat berapa banyak tablet Diovan yang harus Anda konsumsi. Untuk orang dewasa dengan tekanan darah tinggi, dosis biasanya adalah satu tablet 80 mg sehari. Dalam beberapa kasus, dokter Anda mungkin meresepkan dosis yang lebih tinggi (misalnya tablet 160 mg) atau obat tambahan (misalnya diuretik).

- Pada gagal jantung, pengobatan biasanya dimulai dengan 40 mg dua kali sehari. Dosisnya secara bertahap ditingkatkan menjadi 80 mg dua kali sehari dan 160 mg dua kali sehari sesuai toleransi pasien.
- Setelah serangan jantung, pengobatan biasanya dimulai sedini 12 jam, biasanya dengan dosis rendah 20 mg dua kali sehari. Dokter Anda akan meningkatkan dosis ini secara bertahap selama beberapa minggu hingga maksimal 160 mg dua kali sehari. Anda mendapatkan dosis 20 mg dengan membagi tablet 40 mg.

Kapan mengonsumsi Diovan

Mengonsumsi Diovan pada waktu yang sama setiap hari akan membantu Anda mengingat kapan harus mengonsumsi obat Anda.

Cara mengonsumsi Diovan

Telan tablet Diovan dengan segelas air. Tablet Diovan dapat dikonsumsi dengan atau tanpa makanan.

Berapa lama mengonsumsi Diovan

Lanjutkan mengonsumsi Diovan sesuai petunjuk dokter Anda.

Jika Anda memiliki pertanyaan tentang berapa lama harus mengonsumsi Diovan, bicarakan dengan dokter atau apoteker Anda.

Jika Anda mengonsumsi lebih banyak Diovan daripada yang seharusnya

Jika Anda secara tidak sengaja mengambil terlalu banyak tablet Diovan daripada yang seharusnya, **bicarakan dengan dokter Anda.**

Jika Anda mengalami pusing parah dan/atau pingsan, beri tahu dokter Anda secepat mungkin.

Jika Anda lupa mengonsumsi Diovan

Disarankan untuk mengambil obat Anda pada waktu yang sama setiap hari, sebaiknya di pagi hari. Namun, jika Anda lupa mengambil dosis Diovan, lanjutkan dengan dosis berikutnya pada waktu yang biasa. Jangan mengambil dosis ganda untuk menggantikan dosis yang terlupakan.

Jika Anda berhenti mengonsumsi Diovan

Menghentikan pengobatan Anda dengan Diovan dapat menyebabkan penyakit Anda menjadi lebih buruk. Jangan berhenti mengambil obat Anda kecuali dokter Anda menyuruh Anda untuk melakukannya.

4 Efek samping yang mungkin terjadi

Seperti halnya semua obat, pasien yang mengonsumsi Diovan dapat mengalami efek samping, meskipun tidak semua orang mengalaminya.

Beberapa efek samping bisa serius (frekuensi tidak diketahui: frekuensi tidak dapat diperkirakan dari data yang tersedia)

- Anda mungkin mengalami gejala angioedema (reaksi alergi), seperti
 - wajah, lidah, atau tenggorokan yang bengkak
 - kesulitan menelan
 - gatal-gatal dan kesulitan bernapas

Jika Anda mengalami salah satu dari gejala ini, beri tahu dokter Anda segera.

Beberapa efek samping umum (efek samping ini dapat mempengaruhi antara 1 dan 10 dari setiap 100 pasien):

- pusing,
- tekanan darah rendah dengan gejala seperti pusing
- penurunan fungsi ginjal (tanda-tanda gangguan ginjal)

Beberapa efek samping tidak umum (efek samping ini dapat mempengaruhi antara 1 dan 10 dari setiap 1.000 pasien):

- reaksi alergi dengan gejala seperti ruam, gatal, pusing, pembengkakan wajah atau bibir atau lidah atau tenggorokan, kesulitan bernapas atau menelan (tanda-tanda angioedema) - (lihat juga “Beberapa efek samping bisa serius” yang tercantum sebelumnya)
- kehilangan kesadaran secara tiba-tiba
- sensasi berputar
- penurunan fungsi ginjal yang parah (tanda-tanda gagal ginjal akut)
- kejang otot, irama jantung yang tidak normal (tanda-tanda hiperkalemia)
- sesak napas, kesulitan bernapas saat berbaring, pembengkakan kaki atau tungkai (tanda-tanda gagal jantung)
- sakit kepala
- batuk

- sakit perut
- mual
- diare
- kelelahan
- kelemahan

Juga dilaporkan (frekuensi tidak diketahui: frekuensi tidak dapat diperkirakan dari data yang tersedia)

- kulit melepuh (tanda dermatitis bullous)
- ruam, gatal, bersama dengan beberapa tanda atau gejala berikut: demam, nyeri sendi, nyeri otot, pembengkakan kelenjar getah bening dan/atau gejala seperti flu (tanda-tanda penyakit serum)
- bintik-bintik merah keunguan, demam, gatal (tanda-tanda peradangan pembuluh darah yang juga disebut vaskulitis)
- perdarahan atau memar yang tidak biasa (tanda-tanda trombositopenia)
- nyeri otot (mialgia)
- demam, sakit tenggorokan atau luka di mulut karena infeksi (gejala tingkat rendah sel darah putih yang juga disebut neutropenia)
- penurunan kadar hemoglobin dan penurunan persentase sel darah merah dalam darah (yang dapat, dalam kasus yang parah, menyebabkan anemia)
- peningkatan kadar kalium dalam darah (yang dapat, dalam kasus yang parah, memicu kejang otot, irama jantung yang tidak normal)
- peningkatan nilai fungsi hati (yang dapat menunjukkan kerusakan hati) termasuk peningkatan bilirubin dalam darah (yang dapat, dalam kasus yang parah, memicu kulit dan mata kuning)
- peningkatan kadar nitrogen urea darah dan peningkatan kadar kreatinin serum (yang dapat menunjukkan fungsi ginjal yang tidak normal)

Frekuensi beberapa efek samping dapat bervariasi tergantung pada kondisi Anda. Misalnya, efek samping seperti pusing dan penurunan fungsi ginjal, terlihat lebih jarang pada pasien dewasa yang diobati dengan tekanan darah tinggi dibandingkan dengan pasien dewasa yang diobati untuk gagal jantung atau setelah serangan jantung baru-baru ini.

Efek berikut juga telah diamati selama uji klinis dengan Diovan tanpa kemungkinan untuk menentukan apakah mereka disebabkan oleh obat atau memiliki penyebab lain: sakit punggung, perubahan libido, peradangan pada sinus, insomnia, nyeri sendi, faringitis, hidung berair atau tersumbat, pembengkakan tangan, pergelangan kaki atau kaki, infeksi saluran pernapasan atas, infeksi virus.

Jika salah satu dari ini mempengaruhi Anda dengan parah, beri tahu dokter Anda.

Jika Anda melihat efek samping lain yang tidak disebutkan dalam brosur ini, beri tahu dokter atau apoteker Anda.

Pelaporan efek samping

Apabila ada keluhan efek samping atau kondisi tidak nyaman selama dan setelah penggunaan obat, konsultasikan ke dokter, apoteker, atau perawat. Anda dapat juga melaporkan keluhan efek samping atau kondisi tidak nyaman tersebut secara langsung ke Industri Farmasi melalui kontak berikut:

Novartis Indonesia

Website: www.novartis.com/report

Dengan melaporkan efek samping, Anda dapat membantu memberikan informasi lebih lanjut mengenai keamanan obat ini.

5 Cara penyimpanan Diovan

- Jauhkan obat ini dari penglihatan dan jangkauan dari anak-anak.
- Jangan disimpan pada suhu lebih dari 30°C, simpan pada kemasan aslinya.
- Jangan gunakan Diovan setelah tanggal kedaluwarsa yang tercantum pada kemasan.

6 Informasi lainnya

Apa kandungan Diovan

- **Zat aktif** Diovan tersedia dalam bentuk tablet salut selaput yang mengandung valsartan 40 mg, 80 mg, atau 160 mg. Zat aktif Diovan adalah valsartan.
- **Kandungan lainnya** dari tablet salut selaput adalah *microcrystalline cellulose, crospovidone, colloidal anhydrous silica, magnesium stearate, hypromellose, titanium dioxide (E171) Macrogol 8000, red iron oxide (E172), yellow iron oxide (E172), black iron oxide (E172)* (40 mg dan 160 mg)

Bagaimana tampilan Diovan dan isiemasannya

Diovan tersedia dalam bentuk tablet salut selaput dengan 3 kekuatan:

Diovan tablet salut selaput 40 mg berwarna kuning, berbentuk oval, berlekuk di satu sisi, sedikit cembung, dengan tepi miring, bertuliskan DO di satu sisi dan NVR di sisi lainnya.

Diovan tablet salut selaput 80 mg berwarna merah pucat, berbentuk bulat, berlekuk di satu sisi, sedikit cembung, dengan tepi miring, bertuliskan D/V di satu sisi dan NVR di sisi lainnya.

Diovan tablet salut selaput 160 mg berwarna abu-abu oranye, berbentuk oval, berlekuk di satu sisi, cembung, bertuliskan DX/DX di satu sisi dan NVR di sisi lainnya.

Kemasan

Diovan [®] 40 mg	: Dus, 2 blister @ 14 tablet salut selaput	No. Reg.
Diovan [®] 80 mg	: Dus, 2 blister @ 14 tablet salut selaput	No. Reg.
Diovan [®] 160 mg	: Dus, 2 blister @ 14 tablet salut selaput	No. Reg.

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