

Diovan advertisement.

[s.l.]: [s.n.], 1993

https://digital.library.wisc.edu/1711.dl/77IJZYMAZ7L2U9A

http://rightsstatements.org/vocab/InC/1.0/

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.



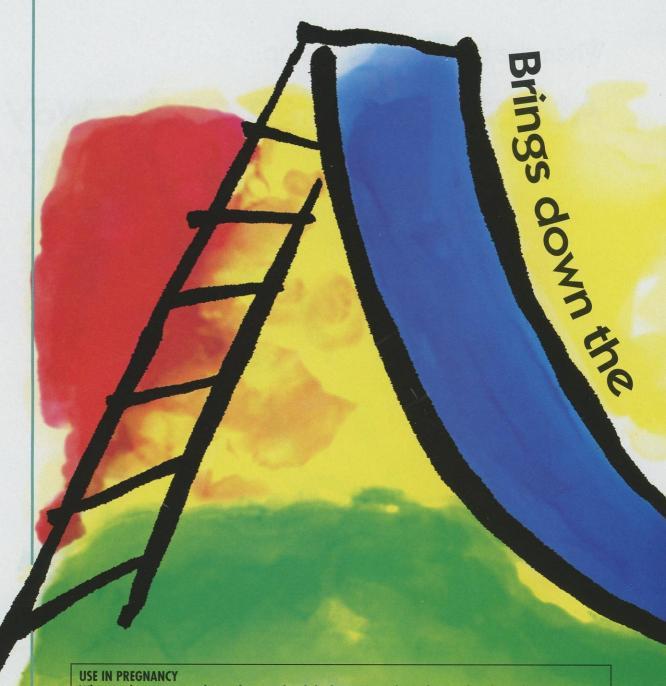
An Angiotensin-II Receptor Blocker (ARB)

When the blood pressure's up...

At last there's an easier way



For initial therapy in hypertension



When used in pregnancy during the second and third trimesters, drugs that act directly on the renin-angiotensin system can cause injury and even death to the developing fetus. When pregnancy is detected, DIOVAN should be discontinued as soon as possible. See WARNINGS: Fetal/Neonatal Morbidity and Mortality.



NOW_

NOT ONLY the power of leading antihypertensives...

 Starting dose delivers efficacy of enalapril 20 mg and lisinopril 10 mg^{1,2}

BUT ALSO the tolerability of placebo

Overall incidence of side effects
 as low as placebo²—lets your patients
 continue to live life to the fullest

Dressure with e a s e

Introducing a New Angiotensin-II Receptor Blocker (ARB)



BRINGS DOWN THE PRESSURE WITH EASE

NOW-

NOT ONLY the power of leading antihypertensives...

Starting dose delivers efficacy of enalapril 20 mg and lisinopril 10 mg^{1,2}

BUT ALSO the tolerability of placebo...

 Overall incidence of side effects as low as placebo²—lets your patients continue to live life to the fullest

PLUS convenient once-daily dosing

- Start with 80 mg qd
- Flexible dosing—available in 80-mg and 160-mg strengths







As with other drugs that work in the renin-angiotensin system, discontinue DIOVAN as soon as pregnancy is detected (see boxed warning in accompanying brief summary of Prescribing Information). DIOVAN is contraindicated in patients who are hypersensitive to any component of this product.

Capsules

BRIEF SUMMARY (FOR COMPLETE PRESCRIBING INFORMATION, SEE PACKAGE INSERT)

LISE IN PREGNANCY

When used in pregnancy during the second and third trimesters, drugs that act directly on the reninangiotensin system can cause injury and even death to the developing fetus. When pregnancy is detected, Diovan should be discontinued as soon as possible. See WARNINGS: Fetal/Neonatal Morbidity and Morbidity.

INDICATIONS AND USAGE

Diovan is indicated for the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents

CONTRAINDICATIONS

contraindicated in patients who are hypersensitive to any component of this product.

CLINICAL EFFECTS

The 7 studies of valsartan monotherapy included over 2000 patients randomized to various doses of valsartan Facules of valsarian monomized to placebo. Doses below 80 mg were not consistently distinguished from those of placebo at trough, but doses of 80, 160 and 320 mg produced dose-related decreases in systolic and diastolic blood pressure, with the difference from placebo of approximately 6-9/3-5 mmHg at 80-160 mg and 9/6 mmHg at 320 mg.

Patients with an inadequate response to 80 mg once daily were titrated to either 160 mg once daily or 80 mg huster daily which resulted in a perpagnation and some processing the program of the processing the p

twice daily, which resulted in a comparable response in

both groups.

both groups.

In controlled trials, the antihypertensive effect of oncedaily valsartan 80 mg was similar to that of once-daily enalapril 20 mg or once-daily lisinopril 10 mg.

In long-term follow-up studies (without placebo control), the effect of valsartan appeared to be maintained for up to two years. The antihypertensive effect is independent of age, gender or race. The latter finding regarding race is based on pooled data and should be viewed with caution, because antihypertensive drugs that affect the reninanjotensin system (that is, ACE inhibitors and angiotensin-II blockers) have generally been found to be less effective in low-renin hypertensives (frequently blacks) than in high-renin hypertensives (frequently whites). In pooled, randomized, controlled trials of Diovan that included a total of 140 blacks and 830 whites, valsartan and an ACE-inhibitor control were generally at

VEW ONCE-DAILY Diova valsartan capsules

valsartan and an ACE-inhibitor control were generally at least as effective in blacks as whites. The explanation for this difference from previous findings is unclear. WARNINGS

Fetal/Neonatal Morbidity and Mortality

Fetal/Neonatal Morbidity and Mortality
Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal morbidity and death
when administered to pregnant women. Several dozen cases have been reported in the world literature in
patients who were taking angiotensin-converting enzyme inhibitors. When pregnancy is detected, Diovan
should be discontinued as soon as possible.

The use of drugs that act directly on the renin-angiotensin system during the second and third trimesters of
pregnancy has been associated with fetal and neonatal injury, including hypotension, neonatal skull hypoplasia,
anuria, reversible or irreversible renal failure, and death. Oligohydramnios has also been reported, presumably
resulting from decreased fetal renal function; oligohydramnios in this setting has been associated with fetal
limb contractures, craniofacial deformation, and hypoplastic lung development. Prematurity, intrauterine
growth retardation, and patent ductus arteriosus have also been reported, although it is not clear whether
these occurrences were due to exosoure to the druo.

grown retarbation, and patent ductus attentious have also been reported, altinough it is not clear whether occurrences were due to exposure to the drug.

These adverse effects do not appear to have resulted from intrauterine drug exposure that has been limited to the first trimester. Mothers whose embryos and fetuses are exposed to an angiotensin II receptor antagonist only during the first trimester should be so informed. Nonetheless, when patients become pregnant, hysicians should advise the patient to discontinue the use of valsartan as soon as possible.

Parely (republic less effort than once it is event thousand preparagics) be attempting to a drug extring a the

Rarely (probably less often than once in every thousand pregnancies), no alternative to a drug acting on the renin-angiotensin system will be found. In these rare cases, the mothers should be apprised of the potential hazards to their fetuses, and serial ultrasound examinations should be performed to assess the intra-amniotic environment.

nazatis to titler lockes, and seriar untasounic examinations should be performed to assess the intra-amminotic environment. If oligohydramnios is observed, valsartan should be discontinued unless it is considered life-saying for mother. Contraction stress testing (CST), a nonstress test (NST), or biophysical profiling (BPP) may be appropriate, depending upon the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may not appear until after the fetus has sustained irreversible injury. Infants with histories of in utero exposure to an angiotensin II receptor antagonist should be closely observed for hypotension, oliguria, and hyperkalemia. If oliguria occurs, attention should be directed toward support of blood pressure and renal perfusion. Exchange transfusion or dialysis may be required as means of reversing hypotension and/or substituting for disordered renal function. No teratogenic effects were observed when valsartan was administered to pregnant mice and rats at oral doses up to 600 mg/kg/day and to pregnant rabbits at oral doses up to 10 mg/kg/day. However, significant decreases in fetal weight, pup birth weight, pup survival rate, and slight delays in developmental milestones were observed with mich parental rats were treated with valsartan at oral, maternally toxic (reduction in body weight gain and food consumption) doses of 600 mg/kg/day during organogenesis or late gestation and lactation. In rabbits, fetotoxicity (i.e., resorptions, litter loss, abortions, and low body weight) associated with maternal toxicity (mortality) was observed at doses of 5 and 10 mg/kg/day. The no observed adverse effect doses of 600, 200 and 2 mg/kg/day in mice, rats and rabbits represently 9, and 0.1 times, respectively the maximum recommended human dose on a mg/m² basis. (Calculations assume an oral dose of 320 mg/day the maximum recommended human dose on a mg/m2 basis. (Calculations assume an oral dose of 320 mg/day

and a 60-Kg patient.)

Hypotension in Volume- and/or Salt-Depleted Patients

Excessive reduction of blood pressure was rarely seen (0.1%) in patients with uncomplicated hypertension.

In patients with an activated renin-angiotensin system, such as volume- and/or salt-depleted patients receiving high doses of diuretics, symptomatic hypotension may occur. This condition should be corrected prior to administration of Diovan, or the treatment should start under close medical supervision. If hypotension occurs, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized.

PREFAUTIONS

PRECAUTIONS

PRECAUTIONS
General
Impaired Hepatic Function: As the majority of valsartan is eliminated in the bile, patients with mild-to-moderate hepatic impairment, including patients with biliary obstructive disorders, showed lower valsartan clearance (higher AUCs). Care should be exercised in administering Diovan to these patients.
Impaired Renal Function: As a consequence of inhibiting the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible individuals. 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 and angiotensin receptor antagonists have been associated with oliquiria and/or progressive azotenia and (rarely) with acute renal failure and/or death. Diovan would be expected to behave similarly.

In studies of ACE inhibitors in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen have been reported. In a 4-day trial of valsartan in 12 patients with unilateral renal artery stenosis, no significant increases in serum creatinine or blood urea nitrogen were observed. There has been no long-term use of Diovan in patients with unilateral renal artery stenosis, so significant increases in serum creatinine or blood urea nitrogen were observed. There has been no long-term use of Diovan in patients with unilateral or bilateral renal artery stenosis, but an effect similar to that seen with ACE inhibitors should be anticipated.

Information for Patients

Pregnary: Female patients of childbearing age should be told about the consequences of second- and third-trimester exposure to drugs that act on the renin-angiotensin system, and they should also be limited that these consequences do not appear to have resulted from intrauterine drug exposure that has been limited to the first trimester. These patients should be asked to report pregnancies to their physicians as soon as possible.

Drug Interactions

Drug interactions. No clinically significant pharmacokinetic interactions were observed when valsartan was coadministered with amlodipine, atenolo, cimetidine, digoxin, furosemide, glibenclamide, hydrochlorothiazide, or indomethacin. The valsartan-atenolol combination was more antihypertensive than either component, but it did not lower the heart rate more than atenolol alone.

Coadministration of valsartan and warfarin did not change the pharmacokinetics of valsartan or the time-

course of the anticoagulant properties of warfarin.

CYP 450 Interactions: The enzyme(s) responsible for valsartan metabolism have not been identified but do not seem to be CYP 450 isozymes. The inhibitory or induction potential of valsartan on CYP 450 is also

Carcinogenesis, Mutagenesis, Impairment of Fertility

There was no evidence of carcinogenicity when valsartan was administered in the diet to mice and rats for up to 2 years at doses up to 160 and 200 mg/kg/day, respectively. These doses in mice and rats are about 2.6 and 6 times, respectively he maximum recommended human dose on a mg/m² basis. (Calculations assume an oral dose of 320 mg/day and a 60-kg patient.)

Mutagenicity assays did not reveal any valsartan-related effects at either the gene or chromosome level. These assays included bacterial mutagenicity tests with Salmonella (Ames) and *E coli*; a gene mutation test with Chinese hamster V79 cells; a cytogenetic test with Chinese hamster ovary cells; and a rat micronucleus test

Valsartan had no adverse effects on the reproductive performance of male or female rats at oral doses up to 200 mg/kg/day. This dose is 6 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.)

Pregnancy Categories C (first trimester) and D (second and third trimesters)

See WARNINGS, Fetal/Neonatal Morbidity and Mortality.

Nursing Mothers

It is not known whether valsartan is excreted in human milk, but valsartan was excreted in the milk of lactating rats. Because of the potential for adverse effects on the nursing infant, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

of patients treated with valsartan were \geq 65 years and 265 (7.9%) were \geq 75 years. No overall difference in the efficacy or safety of valsartan was observed in this patient popula-tion, but greater sensitivity of some older individuals cannot be ruled out.

ADVERSE REACTIONS

Diovan has been evaluated for safety in more than 4000 patients, including over 400 treated for over 6 months, and more than 160 for over 1 year. Adverse experiences have generally been mild and transient in nature and have only infrequently required discontinuation of therapy. The overall

incidence of adverse experiences with Diovan was similar to placebo.

The overall frequency of adverse experiences was neither dose-related nor related to gender, age, race, or regimen. Discontinuation of therapy due to side effects was required in 2.3% of valsartan patients and 2.0% of placebo patients. The most common reasons for discontinuation of therapy with Diovan were headache and dizziness

The adverse experiences that occurred in placebo-controlled clinical trials in at least 1% of patients treated

with Diovan and at a higher incidence in valsarata (ne.2316) than placebo (ne.88b) patients incided viral infection (3% vs. 2%), fatigue (2% vs. 1%), and abdominal pain (2% vs. 1%). Headache, dizziness, upper respiratory infection, cough, diarrhea, rhinitis, sinusitis, nausea, pharyngitis, edema, and arthralgia occurred at a more than 1% rate but at about the same incidence in placebo and velocities of the control of the c

edema, and arthralgia occurred at a more than 1% rate but at about the same incidence in placebo and valsartan patients.

In trials in which valsartan was compared to an ACE inhibitor with or without placebo, the incidence of dry cough was significantly greater in the ACE-inhibitor group (7.9%) than in the groups who received valsartan (2.6%) or placebo (1.5%). In a 129-patient trial limited to patients who had had dry cough when they had previously received ACE inhibitors, the incidences of cough in patients who received valsartan, HCTZ, or lisinopril were 20%, 19%, and 69% respectively (p-0.001).

Dose-related orthostatic effects were seen in less than 1% of patients. An increase in the incidence of dizziness was observed in patients treated with Diovan 320 mg (8%) compared to 10 to 160 mg (2% to 4%).

Diovan has been used concomitantly with hydrochlorothiazide without evidence of clinically important adverse interactions.

adverse interactions

Other adverse experiences that occurred in controlled clinical trials of patients treated with Diovan (> 0.2% of valsartan patients) are listed below. It cannot be determined whether these events were causally related to Diovan.

Body as a Whole: Allergic reaction and asthenia

Body as a Whole: Allergic reaction and asthenia
Cardiovascular: Palpitations
Dermatologic: Pruritus and rash
Digestive: Constipation, dry mouth, dyspepsia, and flatulence
Musculoskeletal Back pain, muscle cramps, and myalgia
Neurologic and Psychiatric: Anxiety, insomnia, paresthesia, and somnolence
Respiratory: Dyspinea
Special Senses: Vertigo
Urogenital: Impotence

Other reported events seen less frequently in clinical trials included chest pain, syncope, anorexia, vomiting, and anninedema

Clinical Laboratory Test Findings In controlled clinical trials, clinically important changes in standard laboratory parameters were rarely associated with administration of Diovan. Creatinine: Minor elevations in creatinine occurred in 0.8% of patients taking Diovan and 0.6% given placebo

Creatinine: Minor elevations in creatinine occurred in 0.8% of patients taking Diovan and 0.6% given placebo in controlled clinical trials.
Hemoglobin and Hematocrit: Greater than 20% decreases in hemoglobin and hematocrit were observed in 0.4% and 0.8%, respectively, of Diovan patients, compared with 0.1% and 0.1% in placebo-treated patients. One valsartan patient discontinued treatment for microcytic anemia.
Liver function tests: Occasional elevations (greater than 150%) of liver chemistries occurred in Diovan-treated patients. Three patients (< 0.1%) treated with valsartan discontinued treatment for elevated liver chemistries.
Neutropenia: Neutropenia was observed in 1.9% of patients treated with Diovan and 0.8% of patients treated with placebo. with placeto.

Serum Potassium: Greater than 20% increases in serum potassium were observed in 4.4% of Diovan-treated

patients compared to 2.9% of placebo-treated patients. No patient treated with valsartan discontinued therapy for hyperkalemia.

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION The recommended starting dose of Diovan is 80 mg once daily when used as monotherapy in patients who are not volume-depleted. Diovan may be used over a dose range of 80 mg to 320 mg daily, administered

once-a-day.

The antihypertensive effect is substantially present within 2 weeks and maximal reduction is generally attained after 4 weeks. If additional antihypertensive effect is required, the dosage may be increased to 160 mg or 320 mg or a diuretic may be added.

No initial dosage adjustment is required for elderly patients, for patients with mild or moderate renal impairment, or for patients with mild or moderate liver insufficiency. Care should be exercised with dosing of Diovan in patients with hepatic or severe renal impairment.
Diovan may be administered with other antihypertensive agents.
Diovan may be administered with other antihypertensive agents.

C96-70 (Rev. 12/96)



Dist. by: Ciba-Geigy Corporation Pharmaceuticals Division Summit, NJ 07901

References: 1. Holwerda NJ, Fogari R, Angeli P, et al. Valsartan, a new angiotensin-II antagonist for the treatment of essential hypertension: efficacy and safety compared with placebo and enalogril. J Hypertens. 1996;14:1147-1151. 2. Data on file, Novartis.