For first-line therapy in mild-to-moderate hypertension Discover the classic benefits of a beta-blocker and a diuretic...now at low doses for a side-effect profile comparable to placebo^{1*}



ZIAC controls mild-to-moderate hypertension in up to 80% of patients¹⁷

ZIAC controls blood pressure for a full 24 hours for true once-a-day dosing²

ZIAC minimizes traditional beta-blocker- and HCTZ-associated metabolic effects (hypokalemia, hyperuricemia, hypercholesterolemia, hyperglycemia)¹

*The two most common side effects — dizziness and fatigue — occurred at rates comparable to placebo.

¹Clinical trial response rates were: 2.5 mg—61%; 5 mg—73%; 10 mg—80%.

ZIAC is contraindicated in patients in cardiogenic shock, overt cardiac failure (see WARNINGS section of full Prescribing Information), second- or thirddegree AV block, marked sinus bradycardia, anuria, and hypersensitivity to either component of this product or to other sulfonamide-derived drugs.

Please see Brief Summary of Prescribing Information on adjacent page.

First-line therapy option



(bisoprolol fumarate-hydrochlorothiazide) 2.5, 5, & 10 mg Tablets with 6.25 mg HCTZ

ZIACTM (Bisoprotol Fumarate and Hydrochlorothiazide) Tablets



- DeQuattro V, Weir MR. Bisoprolol fumarate/hydrochlorothiazide 6.25 mg: a new, low-dose option for first-line antihypertensive therapy. Adv Ther. 1993;10:197-206.
 Lewin AJ, Lueg MC, Targum S, et al. A clinical trial evaluating the 24-hour effects of bisopro-termination.
- lol/hydrochlorothiazide 5 mg/6.25 mg combination in patients with mild to moderate hypertension. *Clin Cardiol.* 1993;16:732-736.

Brief Summary

ZIAC*** (Bisoprolol Fumarate and Hydrochlorothiazide) Tablets

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DESCRIPTION

ZIAC (bisoprotol furnarate and hydrochlorothiazide) is indicated for the treatment of hypertension. It combines two antihypertensive agents in a once-daily dosage: a synthetic beta, selective (cardioselective) adrenoceptor blocking agent (bisoprolol fumarate) and a benzothiadiazine diuretic (hydrochlorothiazide).

CLINICAL PHARMACOLOGY

At doses ≥ 20 mg bisoprolol fumarate inhibits beta,-adrenoreceptors located in bronchial and vascular muscu-lature. To retain relative selectivity, it is important to use the lowest effective dose.

CONTRAINDICATIONS

Cardiogenic shock, overt cardiac failure (see WARNINGS), second or third degree AV block, marked sinus bradycardia, anuria, and hypersensitivity to either component of this product or to other sulfonamide-derived drugs.

WARNINGS

Cardiac Failure: Beta-blocking agents should be avoided in patients with overt congestive failure. Patients Without a History of Cardiac Failure: Continued depression of the myocardium with beta-blockers can precipitate cardiac failure. At the first signs or symptoms of heart failure, discontinuation of ZIAC should be considered

considered. Abrupt Cessation of Therapy: Abrupt cessation of beta-blockers should be avoided. Even in patients without overt coronary artery disease, it may be advisable to taper therapy with ZIAC over approximately 1 week with the patient under careful observation. If withdrawal symptoms occur, beta-blocking agent therapy should be reinstituted, at least temporarily. Peripheral Vascular Disease: Beta-blockers should be used with caution in patients with peripheral vascular

disease

NOULDUC Bronchospastic Disease: PATIENTS WITH BRONCHOSPASTIC PULMONARY DISEASE SHOULD, IN GENERAL, NOT RECEIVE BETA-BLOCKERS.

NOT RECEIVE BETA-BLDCKERS. Anesthesia and Major Surgery: If used perioperatively, particular care should be taken when anesthetic agents that depress myocardial function, such as ether, cyclopropane, and trichloroethylene, are used. Diabetes and Hypoglycemia: Beta-blockers may mask some of the manifestations of hypoglycemia, particularly tachycardia. Patients subject to spontaneous hypoglycemia, or diabetic patients receiving insulin or oral hypogly-cemic agents, should be cautioned. Also, latent diabetes mellitus may become manifest and diabetic patients given thiazdes may require adjustment of their insulin dose. Thyrotoxicosis: Beta-adrenergic blockade may mask clinical signs of hyperthyroidism. Abrupt withdrawal of beta-blockade may be followed by an exacerbation of the symptoms of hyperthyroidism or may precipitate thyroid storm.

storm. Renal Disease: Cumulative effects of the thiazides may develop in patients with impaired renal function. In such patients, thiazides may precipitate azotemia. In subjects with creatinine clearance less than 40 mL/min, the plasma half-life of bisoproiol furnarate is increased up to threefold, as compared to healthy subjects. **Hepatic Disease:** ZIAC should be used with caution in patients with impaired hepatic function or progressive liver disease.

PRECAUTIONS

General: Electrolyte and Fluid Balance Status: Periodic determination of serum electrolytes should be performed, General: Electrolyte and Fluid Balance Status: Periodic determination of serum electrolytes should be performed, and patients should be observed for signs of fluid or electrolyte disturbances. Thiazides have been shown to increase the urinary excretion of magnesium; this may result in hypomagnesemia. Hypokalemia may develop. Hypokalemia and hypomagnesemia can provoke ventricular arrhythmias or sensitize or exaggerate the response of the heart to the toxic effects of digitalis. Ditutional thyponatremia may occur in edematous patients in hot weather; appropriate therapy is water restriction rather than salt administration, except in rare instances when the hyponatremia is life-threatening. In actual salt depletion, appropriate replacement is the therapy of choice. *Parathyroid Disease:* Calcium excretion is decreased by thiaxides, and pathologic changes in the parathyroid glands, with hypercalcemia and hypophosphatemia, have been observed in a few patients on prolonged thiazide diuretics. Bisoproloi fumarate, alone or in combination with HCT2, has been associated with increases in uric acid. **Drug Interactions:** 21AC may potentiate the acidon of other antihypertensive agent suesed concomitanty. ZIAC should not be combined with other beta-blocking agents. In patients receiving concurrent therapy with clonidine, if therapy is to be discontinued, it is suggested that ZIAC be discontinued for several days before the withdrawal of clonidine.

ZIAC should be used with caution when myocardial depressants or inhibitors of AV conduction or anti-

clonitione. ZIAC should be used with caution when myocardial depressants or inhibitors of AV conduction or anti-arrhythmic agents are used concurrently. Bisoporolof Fumarate: Concurrent use of rifampin increases the metabolic clearance of bisoproiol fumarate, shortening its elimination half-life. Pharmacokinetic studies document no clinically relevant interactions with other agents given concomitantly, including thiazide diuretics, digoxin and cimetidine. There was no effect of bisoproiol fumarate on prottrombin times in patients on stable doses of warfarin. While taking beta-blockers, patients with a history of severe anaphylactic reaction may be more reactive to repeated challenge, either accidental, diagnostic, or therapeutic and may be unresponsive to the usual doses of epinephrine used to treat allergic reactions. *Hydrochlorothiazide*: The following drugs may interact with thiazide diuretics. Alcohol, barbiturates, or narcot-ics-potentiation of orthostatic hypotension may occur. Dosage adjustment of the antidiabetic drugs (oral agents and insulif) may be required. Other antihypertensive drugs-addinve effect or potentiation. Cholestyramine and collestipol resins-single doses of cholestyramine and collestipol resins bind the hydrochlorothiazide and reduce its absorption in the gastronitesinal tract by up to 85 and 45 percent, respectively. Corticosteroids, ACTH--intensi-field electrolyte depletion, particularly hypokalemia. Possible decreased response to pressor amines but not suf-ficient to preclude their use. Possible increased responsiveness to muscle relaxants, nondepolaring. Generally, ithium should not be given with diuretics. Diuretic agent seduce the real clearance of ithium and add a high risk of lithium toxicity. The administration of a nonsteroidal anti-inflammatory agent can reduce the diuretic, natiruretic, and antitypertensive effects of loop. potassium-sparing and thazide diuretics may be enhanced asthma. Photosensithy reactions and possible exacerbation or activation

been reported in the post-sympathectomy attents to even in the antitypertensive events of mazibes may be enhanced in the post-sympathectomy patient. Laboratory Test Interactions: Based on reports involving thiazides, ZIAC may decrease serum levels of protein-bound iodine without signs of thyroid disturbance. Because it includes a thiazide, ZIAC should be discontinued before carrying out tests for parathyroid function (see **PRECAUTIONS**-Parathyroid Disease).

ADVERSE REACTIONS

AUTERSE INCARTING ZIAC: Bisoprolol fumarate/H6.25 mg is well tolarated in most patients. Most adverse effects (AEs) have been mild and transient. In more than 65,000 patients treated worldwide with bisoproiol fumarate, occurrences of broncho-spasm have been rare. Discontinuation rates for AEs were similar for R/H6.25 mg and placebo-treated patients. In the United States, 252 patients received bisoproiol fumarate (2, 5, 10, or 40 mg)/H6.25 mg and 144 patients received placebo in two controlled trials. In Study 1, bisoproiol fumarate 5/H6.25 mg was administered for 4 weeks. In Study 2, bisoproiol fumarate 2, 10 or 40/H6.25 mg was administered for 12 weeks. All adverse experiences, whether drug-related or not, and drug-related adverse experiences in patients treated with B2.5-10/H6.25 mg, reported during comparable, 4 week treatment periods by at least 2% of bisoproiol fumarate/ H6.25 mg-treated patients (plus additional selected adverse experiences) are presented in the following table:

% of Patients with Adverse Experiences* Body System/ Drug-related Adverse Experience All Adverse Experiences periences B2 5-40/H6 25 Placebo Placebo B2.5-10/H6.25 (n = 144)(n = 252) (n = 144) % (n=221) % % Cardiovascula 1.1 0.4 0.7 1.8 0.7 0.0 0.9 0.7 0.9 0.0 0.4 0.9 0.7 bradycardia arrhythmia peripheral ischemia 0.9 chest pain Respiratory bronchospasm 0.0 0.0 0.0 0.0 cough rhinitis 1.0 ñ 2.0 0.7 0.9 URI 0.0 Body as a Whole asthenia fatigue 0.0 4.6 1.1 0.0 0.0 3.0 0.9 0.0 2.7 0.7 0.7 petiphera) edema C tral Nervous System dizziness 1.8 5.1 4.5 1.8 2.7 3.2 0.4 headache Musculoskeleta muscle cramps 0.7 1.2 2.4 07 11 myaloia 1.4 Ŏ.Ŏ 0.0 Psychiatric insomnia 2.4 2.0 0.7 1.1 12 1.1 0.4 1.1 somnolence 0.9 0.7 1.2 0.7 loss of libido 0.4 1.2

0.9 dyspepsia *Averages adjusted to combine ac *Combined across studies. ross studies

1.4

impotence

Gastrointestinal

diarrhea

nausea

4.3 1.1 1.2

1.2 0.9 0.7

1.1 0.9 0.9

Combined across studies. Other adverse experiences that have been reported with the individual components are listed below. Bisoproil Pimmrate: In clinical trials worldwide, a variety of other AEs, in addition to those listed above, have been reported. While in many cases it is not known whether a causal relationship exists between bisoproiol and these AEs, they are listed to alert the physician to a possible relationship. Central Nervous System: Unsteadiness, verigo, syncope, paresthesis, hyperesthesis, aleep disturbance/vivid forarms, depression, anxiety/restlessness, decreased concentration/memory. Cardiovascular: Palpitations and other rhythm disturbances, cold extremites, claudication, hypotension, orthostatic hypotension, chest pain, congestive heart tailure. Gastrointestinal: Gas-tric/epigastric/abdominal pain, peptic uicer, gastritis, vomting, constipation, dry mouth. Musculoskeletal: Arthralgia, muscle/joint pain, back/neck pain, writching/tremor. Skin: Rash, acne, eczema, psoriasis, skin irrita-tion, puruhus, purpura, flushing, sweating, alopecia, dermathis, excludiative dermathis, (very rarely). Special Sense: Visual disturbances, ocular pain/pressure, abnormal lacrimation, tinnitus, decreased hearing, earache, taste abnormalities. Metabolic: Gout. Respiratory: Astima, bronchitis, dyspnea, pharyngitis, sinusitis. Geniray, angioedema.

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beta-blocker practoloi has not been reported with bisoproiol fumarate during investigational use or extensive foreign marketing experience. Hydrochlorothiazide: The following adverse experiences, in addition to those listed in the above table, have been reported with hydrochlorothiazide (generally with doses of 25 mg or greater). General: Weakness, Central Her-vous System: Vertigo, parestiesia, resistenses. Carlovascular: Othostatic hydrochlorothiazidin, iauno dice (intrahepatic cholestatic jaundice), pancreatilis, choleosystiis, sialadenitis, diry mouth. Musculoxeletal: Muscle spasm. Hypersensitive Reactions: Purpura, photosensitivity, rash, urticaria, necrotizing angitis (vascu-litis and cutaneous vasculitis), fever, respiratory distress including pneuronnitis and pulmonary edema, anaphy-lactic reactions. Special Sense: Transient burred vision, xanthogsia. Metabolic: Gout. Genitourinary: Sexual dysfunction, renal failure, renal dysfunction, interstitial nephritis.

LABORATORY ABNORMALITIES

ZIAC: Because of the low dose of hydrochlorothiazide in ZIAC, adverse metabolic effects with B/H6.25 mg are less treguent and of smaller magnitude than with HCTZ 25 mg. Treatment with both beta-blockers and thiazide diuretics is associated with increases in uric acid. Mean increases in serum triglycerides were observed in patients treated with bioproloi fumarate and hydro-chlorothiazide 6.25 mg. Total cholesterol was generally unaffected, but small decreases in HDL cholesterol were noted

Were noted. Other laboratory abnormalities that have been reported with the individual components are listed below. **Bisoprolol Fumarate**: In clinical trials, the most frequently reported laboratory change was an increase in serum triglycerides, but this was not a consistent finding. Sporadic liver fest abnormalities have been reported. In the U.S. controlled trials experience with bisoprolol fumarate treatment for 4 to 12 weeks, the incidence of concomitant elevations in SGOT and SGPT of between 1 to 2 times normal was 3.9%, compared to 2.5% for placebo. No patient had concomitant elevations greater than twice normal

In the long-term, uncontrolled experience with bisoprolof fumarate treatment for 6-18 months, the incidence of multiple occurrence was 1.9%. For concomitant elevations in SGOT and SGPT of between 1-2 times normal was 6.2%. The incidence of multiple occurrence was 1.9%. For concomitant elevations in SGOT and SGPT of greater than twice normal, the incidence was 1.5%. The incidence of multiple occurrences was 0.3%. In many cases these elevations were attributed to underlying disorders, or resolved during continued treatment with bisoproloi fumarate. Other laboratory changes included small increases in uric acid, creatinine, BUN, serum potassium, plucose, and phosphorus and decreases in WBC and platelets. There have been occasional reports of eosinophila. These were generally not of clinical importance and rarely resulted in discontinuation of bisoproloi fumarate. About 15% of patients in long-term studies converted to a positive their, although about one-third of these patients subsequently reconverted to a negative titer while on continued therapy. **Hydrochlorothiazide:** Hyperglycernia, glycosuria, hyperuricemia, hypokalemia and other electrolyte imbalances anemia, and hemolytic anemia have been associated with HCI2 therapy. See **DOSAGE AND ADMINISTRATION** section in package insert for complete dosing and precautionary information.



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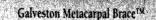


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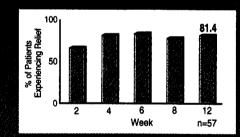
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Morrow JD, Margolies GR, Rowland J, Roberts LJ 2nd. Evidence that histamine is the causative toxin of scombroid-fish poisoning. N Engl J Med 1991; 324:716-20.

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Clinical Experience Network (CEN). A large-scale, office-based study evaluates the use of a new class of nonse dating antihistamines. A report from CEN. J Am Board Fam Pract 1990; 3:241-58.

Book

Rakel RE. Textbook of family practice. 4th ed. Philadelphia: WB Saunders, 1990.

Chapter in Book

Haynes RCJr. Agents affecting calcification: calcium, parathyroid hormone, calcitonin, vitamin D, and other compounds. In: Gilman AG, Rall TW, Nies AS, Taylor P, editors. Goodman and Gilman's the pharmacological basis of therapeutics. 8th ed. New York: Pergamon Press, 1990.

Government Agency Schwartz JL. Review and evaluation of smoking cessation methods: the United States and Canada, 1978-1985. Bethesda, MD: Department of Health and Human Services, 1987. (NIH publication no. 87-2940.)

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Handle with care.

The value of treating hypertension in older patients has been clearly established.*1 Today, the prevalence of hypertension in people over 60 is greater than 60%.²

Often, PLENDIL represents a good choice for older patients with hypertension.¹

With a simple once-daily dosage regimen, PLENDIL provides a gradual onset of action with continuous 24-hour control. Generally, PLENDIL is well tolerated when administered in recommended doses.[†]

Usual dosage range is 5 mg to 10 mg daily. But, patients over 65 may have elevated plasma concentrations of felodipine, and may therefore respond to lower doses of PLENDIL.

PLENDIL. A considerate choice for patients who deserve "special handling."

* The ability of calcium channel blockers to reduce morbidity or mortality has not been established.

* Patients over 65, and those with impaired liver function, should have their blood pressure monitored closely during adjustment of PLENDIL and should rarely require doses above 10 mg. (See CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION in the Prescribing Information.)

³ Peripheral edema, generally mild, is the most common adverse experience. PLENDIL is contrainclicated in patients who are hypersensitive to this product.



(felodipine) Tablets, 5 mg, 10 mg Because you consider the whole patient.

Please see brief summary of Prescribing Information on page following next page.



ASTRA MERCK GROUP



References

- 1. The Fifth Report of the Joint National Committee on Detection, Evaluation, and Treatment of High Blood Pressura. Bethesda, MD: National Heart, Lung, and Blood Institute; 1993. NIH Publication No. 93-1088.
- 2. Derived from NHANES III, unpublished data, provided by the Centers for Disease Control, National Center for Health Statistics, as reported in The Fifth Report of the Joint National Committee on Detection, Evaluation and Treatment of High **Blood Pressure**

BRIEF SUMMARY

TABLETS

PLENDIL® (FELODIPINE)

EXTENDED-RELEASE TABLETS

INDICATIONS AND USAGE

PLENDIL* is indicated for the treatment of hypertension. PLENDIL may be used alone or concomitantly with other antihypertensive agents.

CONTRAINDICATIONS

PLENDIL is contraindicated in patients who are hypersensitive to this product.

PRECAUTIONS

Hypotension: Felodipine, like other calcium antagonists, may occasionally precipitate significant hypotension and rarely syncope. It may lead to reflex tachycardia which in susceptible individuals may precipitate angina pectoris. (See ADVERSE REACTIONS.)

Neart Failure: Although acute hemodynamic studies in a small number of patients with NYHA Class II or III heart failure treated with felodipine have not demonstrated negative inotropic effects, safety in patients with heart failure has not been established. Caution therefore should be exercised when using PLENDIL in patients with heart failure or compromised ventricular function, particularly in combination with a beta blocker.

Elderly Patients or Patients with Impaired Liver Function: Patients over 65 years of age or patients with impaired liver function may have elevated plasma concentrations of felodipine and may therefore respond to lower does of PLENDIL. These patients should have their blood pressure moni-tored closely during dosage adjustment of PLENDIL and should rarely require doses above 10 mg. (See CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION sections of complete Prescribing Information.)

Peripheral Edema: Peripheral edema, generally mild and not associated with generalized fluid retention, was the most common adverse event in the clinical trials. The incidence of peripheral edema was both dose- and age-dependent. Frequency of peripheral edema ranged from about 10 percent in patients under 50 years of age taking 5 mg daily to about 30 percent in those over 60 years of age taking 20 mg daily. This adverse effect generaltw occurs within 2-3 weeks of the initiation of treatment

Information for Patients

Patients should be instructed to take PLENDIL whole and not to crush or chew the tablets. They should be told that mild gingival hyperplasia (gum swelling) has been reported. Good dental hygiene decreases its incidence and severity.

NOTE: As with many other drugs, certain advice to patients being treated with PLENDIL is warranted. This information is intended to aid in the safe and effective use of this medication. It is not a disclosure of all possible adverse or intended effects.

Drug Interactions

Beta-Blocking Agents: A pharmacokinetic study of felodipine in conjunc-tion with metoproloi demonstrated no significant effects on the pharmaco-kinetics of felodipine. The AUC and Cmax of metoproloi, however, were increased approximately 31 and 38 percent, respectively. In controlled clinical trials, however, beta blockers including metoprolol were concurrently administered with felodipine and were well tolerated.

Cimetidine: In healthy subjects pharmacokinetic studies showed an approximately 50 percent increase in the area under the plasma concentration time curve (AUC) as well as the Cmax of felodipine when given concomitantly with cimetidine. It is anticipated that a clinically significant interaction may occur in some hypertensive patients. Therefore, it is rec-ommended that low doses of PLENDIL be used when given concomitantly with cimetidine.

Digexin: When given concomitantly with felodipine the peak plasma concentration of digoxin was significantly increased. There was, however, no significant change in the AUC of digoxin.

Anticomulsants: In a pharmacokinetic study, maximum plasma concentrations of felodipine were considerably lower in epileptic patients on longterm anticonvulsant therapy (e.g., phenytoin, carbamazepine, or phenobarbital) than in healthy volunteers. In such patients, the mean area under the felodipine plasma concentration-time curve was also reduced to approximately six percent of that observed in healthy volunteers. Since a clinically significant interaction may be anticipated, alternative antihyper-tensive therapy should be considered in these patients.

Other Concomitant Therapy: In healthy subjects there were no clinically significant interactions when felodipine was given concomitantly with indomethacin or spironolactone

Interaction with Food: See CLINICAL PHARMACOLOGY, Pharmacolunetics and Metabolism section of complete Prescribing Information. Carcinogenesis, Mutagenesis, Impairment of Fertility In a two-year carcinogenicity study in rats fed felodipine at doses of 7.7,

23.1 or 69.3 mg/kg/day (up to 28 times' the maximum recommended human dose on a mg/m² basis), a dose related increase in the incidence of benign interstitial cell tumors of the testes (Leydig cell tumors) was ed in treated male rats. These tumors were not observed in a simihar study in mice at doses up to 138.6 mg/kg/day (28 times' the maximum recommended human dose on a mg/m2 basis). Felodipine, at the doses employed in the two-year rat study, has been shown to lower testicular testosterone and to produce a corresponding increase in serum luteinizing hormone in rats. The Leydig cell tumor development is possibly secondary to these hormonal effects which have not been observed in man.

In this same rat study a dose-related increase in the incidence of focal

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'Based on patient weight of 50 kg

squamous cell hyperplasia compared to control was observed in the esophageal groove of male and female rats in all dose groups. No other drug-related esophageal or gastric pathology was observed in the rats or with chronic administration in mice and dogs. The latter species, like man, has no anatomical structure comparable to the esophageal groove.

Felodipine was not carcinogenic when fed to mice at doses of up to 138.6 mg/kg/day (28 times' the maximum recommended human dose on a mg/m2 basis) for periods of up to 80 weeks in males and 99 weeks in females.

Felodipine did not display any mutagenic activity in vitro in the Ames microbial mutagenicity test or in the mouse lymphoma forward mutation assay. No clastogenic potential was seen in vivo in the mouse micronucle-us test at oral doses up to 2500 mg/kg (506 times' the maximum recommended human dose on a mg/m2 basis) or in vitro in a human lymphocyte chromosome aberration assay.

A fertility study in which male and female rats were administered doses of 3.8, 9.6 or 26.9 mg/kg/day showed no significant effect of felodipine on reproductive performance.

Pregnancy Pregnancy Category C

Teratogenic Effects: Studies in pregnant rabbits administered doses of 0.46, 1.2, 2.3 and 4.6 mg/kg/day (from 0.4 to 4 times' the maximum recommended human dose on a mg/m² basis) showed digital anomalies consisting of reduction in size and degree of ossification of the terminal phalanges in the fetuses. The frequency and severity of the changes appeared dose-relat-ed and were noted even at the lowest dose. These changes have been shown to occur with other members of the dihydropyridine class and are possibly a result of compromised uterine blood flow. Similar fetal anomalies were not observed in rats given felodipine.

In a teratology study in cynomolgus monkeys no reduction in the size of the terminal phalanges was observed but an abnormal position of the distal phalanges was noted in about 40 percent of the fetuses.

Nonteratogenic Effects: A prolongation of parturition with difficult labor and an increased frequency of fetal and early postnatal deaths were observed in rats administered doses of 9.6 mg/kg/day (4 times' the maximum human dose on a mg/m² basis) and above.

Significant enlargement of the mammary glands in excess of the normal enlargement for pregnant rabbits was found with doses greater than or equal to 1.2 mg/kg/day (equal to the maximum human dose on a mg/m2 basis). This effect occurred only in pregnant rabbits and regressed during lactation. Similar changes in the mammary glands were not observed in rats or monkeys.

There are no adequate and well-controlled studies in pregnant women. If felodipine is used during pregnancy, or if the patient becomes pregnant while taking this drug, she should be apprised of the potential hazard to the fetus, possible digital anomalies of the infant, and the potential effects of felodipine on labor and delivery, and on the mammary glands of pregnant females.

Nursing Mothers

It is not known whether this drug is secreted in human milk and because of the potential for serious adverse reactions from felodipine in the infant, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Padiatric Use

Safety and effectiveness in children have not been established

ADVERSE REACTIONS

In controlled studies in the United States and overseas approximately 3000 patients were treated with felodipine as either the extended-release or the immediate-release formulation.

The most common clinical adverse experiences reported with ${\sf PLENDIL}^{\bullet}({\sf Felodipine})$ administered as monotherapy in all settings and with all dosage forms of felodipine were peripheral edema and headache. Peripheral edema was generally mild, but it was age- and dose-related and resulted in discontinuation of therapy in about 4 percent of the enrolled patients. Discontinuation of therapy due to any clinical adverse experience occurred in about 9 percent of the patients receiving PLENDIL, principally for peripheral edema, headache, or flushing.

Adverse experiences that occurred with an incidence of 1.5 percent or greater during monotherapy with PLENDIL without regard to causality are compared to placebo in the table below.

Percent of Patients with Adverse Effects in Controlled Trials of PLENDIL as Monotherapy

(incidence of discontinuations shown in parentheses)					
Adverse Effect		NDIL% = 730	Placebo 9		
	M 3	= 130	N = 283		
Peripheral Edema	22.3	(4.2)	3.5		
Headache	18.6	(2.1)	10.6		
Flushing	6.4	(1.0)	1.1		
Dizziness	5.8	(0.8)	3.2		
Upper Respiratory					
Infection	5.5	(0.1)	1.1		
Asthenia	4.7	(0.1)	2.8		
Cough	2.9	(0.0)	0.4		
Paresthesia	2.5	(0.1)	1.8		
Dyspepsia	2.3	(0.0)	1.4		
Chest Pain	2.1	(0.1)	1.4		
Nausea	1.9	(0.8)	1.1		
Muscle Cramps	1.9	(0.0)	1.1		
Palpitation	1.8	(0.5)	2.5		
Abdominal Pain	1.8	(0.3)	1.1		
Constipation	1.6	(0.1)	1.1		
Diarrhea	1.6	(0.1)	1.1		
Pharyngitis	1.6	(0.0)	0.4		
Rhinorrhea	1.6	(0.0)	0.0		
Back Pain	1.6	(0.0)	1.1		
Rash	1.5	(0.1)	1.1		

In the two dose response studies using PLENDIL as monotherapy, the following table describes the incidence (percent) of adverse experiences that

were dose-related. The incidence of discontinuations due to these adverse experiences are shown in parentheses.

Adverse	Placebo	2.5 mg	5.0 mg	10.0 mg	20 mg
Effect	N = 121	N = 71	N = 72	N = 123	N = 50
Peripheral					
Edema	2.5 (1.6)	1.4 (0.0)	13.9 (2.8)	19.5 (2.4)	36.0 (10.0)
Palpitation	0.8 (0.8)	1.4 (0.0)	0.0 (0.0)	2.4 (0.8)	12.0 (8.0)
Headache	12.4 (0.0)	11.3 (1.4)	11.1 (0.0)	18.7 (4.1)	28.0 (18.0)
Flushing	0.0 (0.0)	4.2 (0.0)	2.8 (0.0)	8.1 (0.8)	20.0 (8.0)

In addition, adverse experiences that occurred in 0.5 up to 1.5 percent of patients who received PLENDIL® (Felodipine) in all controlled clinical studies (listed in order of decreasing severity within each category) and serious adverse events that occurred at a lower rate or were found during marketing experience (those lower rate events are in italics) were: Body as a Whole: Facial edema, warm sensation; Cardiovascular: Tachycardia, mole: racial edema, warm sensation; carolovascular: racincardia, myocardial infarction, hypotension, syncope, angina pectoris, arrhythmia; Digestive: Vomiting, dry mouth, flatulence; Hematologic: Anemia; Musculoskeletal: Arthralgia, arm pain, knee pain, leg pain, foot pain, hip pain, myalgia; Nervous/Psychiatric: Depression, anxiety disorders, insom-nia, irritability, nervousness, somnolence; Respiratory: Bronchitis, influenza, sinusitis, dyspnea, epistaxis, respiratory infection, sneezing; Skin: Contusion, erythema, urticaria; Urogenital: Decreased libido, impotence, urinary frequency, urinary urgency, dysuria. Felodipine, as an immediate release formulation, has also been studied

as monotherapy in 680 patients with hypertension in U.S. and overseas controlled clinical studies. Other adverse experiences not listed above and with an incidence of 0.5 percent or greater include: Body as a Whole: Fatigue; Digestive: Gastrointestinal pain; Musculoskeletal: Arthritis, local weakness, neck pain, shoulder pain, ankle pain; Nervous/Psychiatric: Tremor; Respiratory: Rhinitis; Skin: Hyperhidrosis, pruritus; Special Senses: Blurred vision, tinnitus; Urogenital: Nocturia.

Gingival Hyperplasia: Gingival hyperplasia, usually mild, occurred in <0.5 percent of patients in controlled studies. This condition may be avoided or may regress with improved dental hygiene. (See PRECAUTIONS,</p> Information for Patients.)

Clinical Laboratory Test Findings

Serum Electrolytes: No significant effects on serum electrolytes were observed during short- and long-term therapy.

Serum Glucose: No significant effects on fasting serum glucose were observed in patients treated with PLENDIL in the U.S. controlled study.

Liver Enzymes: One of two episodes of elevated serum transaminases decreased once drug was discontinued in clinical studies; no follow-up was available for the other patient.

OVERDOSAGE

Oral doses of 240 mg/kg and 264 mg/kg in male and female mice, respectively and 2390 mg/kg and 2250 mg/kg in male and female rats, respectively, caused significant lethality.

In a suicide attempt, one patient took 150 mg felodipine together with 15 tablets each of atenolol and spironolactone and 20 tablets of nitrazepam. The patient's blood pressure and heart rate were normal on admission to hospital; he subsequently recovered without significant sequelae.

Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly bradycardia.

If severe hypotension occurs, symptomatic treatment should be instituted. The patient should be placed supine with the legs elevated. The administration of intravenous fluids may be useful to treat hypotension due to overdosage with calcium antagonists. In case of accompanying bradycardia, atropine (0.5-1 mg) should be administered intravenously. Sympathomimetic drugs may also be given if the physician feels they are warranted

It has not been established whether felodipine can be removed from the circulation by hemodialysis.

DOSAGE AND ADMINISTRATION

The recommended initial dose is 5 mg once a day. Therapy should be adjusted individually according to patient response, generally at intervals of not less than two weeks. The usual dosage range is 5-10 mg once daily. The maximum recommended daily dose is 20 mg once a day. That dose in clinical trials showed an increased blood pressure response but a large increase in the rate of peripheral edema and other vasodilatory adverse events (see ADVERSE REACTIONS). Modification of the recommended dosage is usually not required in patients with renal impairment.

PLENDIL should be swallowed whole and not crushed or chewed.

Use in the Elderty or Patients with Impaired Liver Function: Patients over 65 years of age or patients with impaired liver function, because they may develop higher plasma concentrations of felodipine, should have their blood pressure monitored closely during dosage adjustment (see PRECAU-TIONS). In general, doses above 10 mg should not be considered in these natients

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