

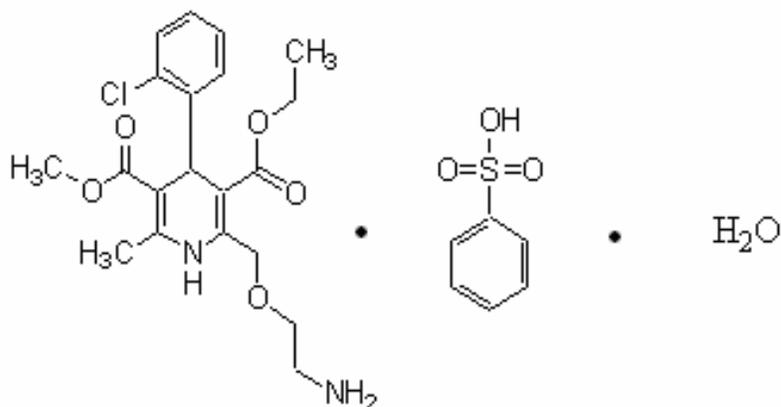
Prescribing Information

AMLODIPINE ORALLY DISINTEGRATING TABLETS™

DESCRIPTION

Amlodipine Orally Disintegrating Tablets™ is the besylate salt of amlodipine, a long-acting calcium channel blocker.

Amlodipine besylate monohydrate is chemically described as 3-ethyl-5-methyl (\pm)-2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1, 4-dihydro-6-methyl-3, 5-pyridinedicarboxylate, monobenzenesulphonate monohydrate. Its molecular formula is $C_{20}H_{25}ClN_2O_5 \cdot C_6H_6SO_3 \cdot H_2O$, and its structural formula is:



Amlodipine besylate monohydrate is a white crystalline powder with a molecular weight of 585.07. It is slightly soluble in water, ethanol, acetone, and 2-propanol and soluble in N, N-dimethylformamide and dimethylsulfoxide. Amlodipine Orally Disintegrating Tablets™ Orally Disintegrating Tablets (ODT) are formulated as tablets equivalent to 2.5 mg, 5 mg, or 10 mg of amlodipine for oral administration. The tablets disintegrate in the mouth, allowing the contents to be swallowed with or without liquid. Amlodipine Orally Disintegrating Tablets™ also contains the following inactive ingredients: hydroxypropyl cellulose, iron oxide red (10 mg tablets only), iron oxide yellow (5 mg tablets only), magnesium stearate, mint menthol, silicified microcrystalline cellulose, and sucralose.

CLINICAL PHARMACOLOGY

Mechanism of Action:

Amlodipine is a dihydropyridine calcium antagonist (calcium ion antagonist or slow-channel blocker) that inhibits the transmembrane influx of calcium ions into vascular smooth muscle and cardiac muscle. Experimental data suggest that amlodipine binds to both dihydropyridine and nondihydropyridine binding sites. The contractile processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels. Amlodipine inhibits calcium ion influx across cell membranes selectively, with a greater effect on vascular smooth muscle cells than on cardiac muscle cells. Negative inotropic effects can be detected *in vitro* but such effects have not been seen in intact

animals at therapeutic doses. Serum calcium concentration is not affected by amlodipine. Within the physiologic pH range, amlodipine is an ionized compound ($pK_a = 8.6$), and its kinetic interaction with the calcium channel receptor is characterized by a gradual rate of association and dissociation with the receptor binding site, resulting in a gradual onset of effect.

Amlodipine is a peripheral arterial vasodilator that acts directly on vascular smooth muscle to cause a reduction in peripheral vascular resistance and reduction in blood pressure.

The precise mechanisms by which amlodipine relieves angina have not been fully delineated, but are thought to include the following:

Exertional Angina: In patients with exertional angina, amlodipine reduces the total peripheral resistance (afterload) against which the heart works and reduces the rate pressure product, and thus myocardial oxygen demand, at any given level of exercise.

Vasospastic Angina: Amlodipine has been demonstrated to block constriction and restore blood flow in coronary arteries and arterioles in response to calcium, potassium epinephrine, serotonin, and thromboxane A_2 analog in experimental animal models and in human coronary vessels *in vitro*. This inhibition of coronary spasm is responsible for the effectiveness of amlodipine in vasospastic (Prinzmetal's or variant) angina.

Pharmacokinetics and Metabolism:

After oral administration of therapeutic doses of amlodipine, absorption produces peak plasma concentrations between 6 and 12 hours. Absolute bioavailability has been estimated to be between 64 and 90%. The bioavailability of amlodipine is not altered by the presence of food.

Amlodipine is extensively (about 90%) converted to inactive metabolites via hepatic metabolism with 10% of the parent compound and 60% of the metabolites excreted in the urine. *Ex vivo* studies have shown that approximately 93% of the circulating drug is bound to plasma proteins in hypertensive patients. Elimination from the plasma is biphasic with a terminal elimination half-life of about 30 to 50 hours. Steady-state plasma levels of amlodipine are reached after 7 to 8 days of consecutive daily dosing.

The pharmacokinetics of amlodipine are not significantly influenced by renal impairment. Patients with renal failure may therefore receive the usual initial dose.

Elderly patients and patients with hepatic insufficiency have decreased clearance of amlodipine with a resulting increase in AUC of approximately 40 to 60%, and a lower initial dose may be required. A similar increase in AUC was observed in patients with moderate to severe heart failure.

Pediatric Patients:

Sixty-two hypertensive patients aged 6 to 17 years received doses of amlodipine besylate between 1.25 mg and 20 mg. Weight-adjusted clearance and volume of distribution were similar to values in adults.

Pharmacodynamics:

Hemodynamics

Following administration of therapeutic doses to patients with hypertension, amlodipine produces vasodilation resulting in a reduction of supine and standing blood pressures. These decreases in blood pressure are not accompanied by a significant change in heart rate or plasma catecholamine levels with chronic dosing. Although the acute intravenous administration of amlodipine decreases arterial blood pressure and increases heart rate in hemodynamic studies of patients with chronic stable angina, chronic oral administration of amlodipine in clinical trials did not lead to clinically significant changes in heart rate or blood pressures in normotensive patients with angina.

With chronic once daily oral administration, antihypertensive effectiveness is maintained for at least 24 hours. Plasma concentrations correlate with effect in both young and elderly patients. The magnitude of reduction in blood pressure with amlodipine is also correlated with the height of pretreatment elevation; thus, individuals with moderate hypertension (diastolic pressure 105 to 114 mmHg) had about a 50% greater response than patients with mild hypertension (diastolic pressure 90 to 104 mmHg). Normotensive subjects experienced no clinically significant change in blood pressures (+1/-2 mmHg).

In hypertensive patients with normal renal function, therapeutic doses of amlodipine resulted in a decrease in renal vascular resistance and an increase in glomerular filtration rate and effective renal plasma flow without change in filtration fraction or proteinuria.

As with other calcium channel blockers, hemodynamic measurements of cardiac function at rest and during exercise (or pacing) in patients with normal ventricular function treated with amlodipine have generally demonstrated a small increase in cardiac index without significant influence on dP/dt or on left ventricular end diastolic pressure or volume. In hemodynamic studies, amlodipine has not been associated with a negative inotropic effect when administered in the therapeutic dose range to intact animals and man, even when coadministered with beta-blockers to man. Similar findings, however, have been observed in normals or well-compensated patients with heart failure with agents possessing significant negative inotropic effects.

Electrophysiologic Effects:

Amlodipine does not change sinoatrial nodal function or atrioventricular conduction in intact animals or man. In patients with chronic stable angina, intravenous administration of 10 mg did not significantly alter A-H and H-V conduction and sinus node recovery time after pacing. Similar results were obtained in patients receiving amlodipine and concomitant beta blockers. In clinical studies in which amlodipine was administered in combination with beta-blockers to patients with either hypertension or angina, no adverse effects on electrocardiographic parameters were observed. In clinical trials with angina patients alone, amlodipine therapy did not alter electrocardiographic intervals or produce higher degrees of AV blocks.

Clinical Studies

Effects in Hypertension:

Adult Patients: The antihypertensive efficacy of amlodipine has been demonstrated in a total of 15 double-blind, placebo-controlled, randomized studies involving 800 patients on amlodipine and 538 on placebo. Once daily administration produced statistically significant placebo-corrected reductions in supine and standing blood pressures at 24 hours postdose, averaging about 12/6 mmHg in the standing position and 13/7 mmHg in the supine position in patients with mild to moderate hypertension. Maintenance of the blood pressure effect over the 24-hour dosing

interval was observed, with little difference in peak and trough effect. Tolerance was not demonstrated in patients studied for up to 1 year. The 3 parallel, fixed dose, dose response studies showed that the reduction in supine and standing blood pressures was dose-related within the recommended dosing range. Effects on diastolic pressure were similar in young and older patients. The effect on systolic pressure was greater in older patients, perhaps because of greater baseline systolic pressure. Effects were similar in black patients and in white patients.

Pediatric Patients: Two-hundred sixty-eight hypertensive patients aged 6 to 17 years were randomized first to amlodipine besylate 2.5 or 5 mg once daily for 4 weeks and then randomized again to the same dose or to placebo for another 4 weeks. Patients receiving 5 mg at the end of 8 weeks had lower blood pressure than those secondarily randomized to placebo. The magnitude of the treatment effect is difficult to interpret, but it is probably less than 5 mmHg systolic on the 5-mg dose. Adverse events were similar to those seen in adults.

Effects in Chronic Stable Angina:

The effectiveness of 5 to 10 mg/day of amlodipine in exercise-induced angina has been evaluated in 8 placebo-controlled, double-blind clinical trials of up to 6 weeks duration involving 1038 patients (684 amlodipine, 354 placebo) with chronic stable angina. In 5 of the 8 studies significant increases in exercise time (bicycle or treadmill) were seen with the 10 mg dose. Increases in symptom-limited exercise time averaged 12.8% (63 sec) for amlodipine 10 mg, and averaged 7.9% (38 sec) for amlodipine 5 mg. Amlodipine 10 mg also increased time to 1 mm ST segment deviation in several studies and decreased angina attack rate. The sustained efficacy of amlodipine in angina patients has been demonstrated over long-term dosing. In patients with angina there were no clinically significant reductions in blood pressures (4/1 mmHg) or changes in heart rate (+0.3 bpm).

Effects in Vasospastic Angina:

In a double-blind, placebo-controlled clinical trial of 4 weeks duration in 50 patients, amlodipine therapy decreased attacks by approximately 4/week compared with a placebo decrease of approximately 1/week ($p < 0.01$). Two (2) of 23 amlodipine and 7 of 27 placebo patients discontinued from the study due to lack of clinical improvement.

Studies in Patients with Congestive Heart Failure:

Amlodipine has been compared to placebo in four 8 to 12 week studies of patients with NYHA class II/III heart failure, involving a total of 697 patients. In these studies, there was no evidence of worsened heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or left ventricular ejection fraction. In a long-term (follow-up at least 6 months, mean 13.8 months) placebo-controlled mortality/morbidity study of amlodipine 5 to 10 mg in 1153 patients with NYHA classes III ($n=931$) or IV ($n=222$) heart failure on stable doses of diuretics, digoxin, and ACE inhibitors, amlodipine had no effect on the primary endpoint of the study which was the combined endpoint of all-cause mortality and cardiac morbidity (as defined by life-threatening arrhythmia, acute myocardial infarction, or hospitalization for worsened heart failure), or on NYHA classification, or symptoms of heart failure. Total combined all-cause mortality and cardiac morbidity events were 222/571 (39%) for patients on amlodipine and 246/583 (42%) for patients on placebo; the cardiac morbid events represented about 25% of the endpoints in the study.

Another study (PRAISE-2) randomized patients with NYHA class III (80%) or IV (20%) heart failure without clinical symptoms or objective evidence of underlying ischemic disease, on stable

doses of ACE inhibitor (99%), digitalis (99%) and diuretics (99%), to placebo (n=827) or amlodipine (n=827) and followed them for a mean of 33 months. There was no statistically significant difference between amlodipine and placebo in the primary endpoint of all cause mortality (95% confidence limits from 8% reduction to 29% increase on amlodipine). With amlodipine there were more reports of pulmonary edema.

INDICATIONS AND USAGE

1. Hypertension

Amlodipine Orally Disintegrating Tablets™ is indicated for the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

2. Coronary Artery Disease

Chronic Stable Angina

Amlodipine Orally Disintegrating Tablets™ is indicated for the symptomatic treatment of chronic stable angina. Amlodipine Orally Disintegrating Tablets™ may be used alone or in combination with other antianginal agents.

Vasospastic Angina (Prinzmetal's or Variant Angina)

Amlodipine Orally Disintegrating Tablets™ is indicated for the treatment of confirmed or suspected vasospastic angina.

Amlodipine Orally Disintegrating Tablets™ may be used as monotherapy or in combination with other antianginal drugs.

CONTRAINDICATIONS

Amlodipine Orally Disintegrating Tablets™ is contraindicated in patients with known sensitivity to amlodipine.

WARNINGS

Increased Angina and/or Myocardial Infarction:

Rarely, patients, particularly those with severe obstructive coronary artery disease, have developed documented increased frequency, duration and/or severity of angina or acute myocardial infarction on starting calcium channel blocker therapy or at the time of dosage increase. The mechanism of this effect has not been elucidated.

PRECAUTIONS

General:

Since the vasodilation induced by amlodipine is gradual in onset, acute hypotension has rarely been reported after oral administration. Nonetheless, caution, as with any other peripheral vasodilator, should be exercised when administering amlodipine, particularly in patients with severe aortic stenosis.

Use in Patients with Congestive Heart Failure:

In general, calcium channel blockers should be used with caution in patients with heart failure. Amlodipine (5 to 10 mg/day) has been studied in a placebo-controlled trial of 1153 patients with NYHA Class III or IV heart failure (see CLINICAL PHARMACOLOGY) on stable doses of ACE inhibitor, digoxin, and diuretics. Follow-up was at least 6 months, with a mean of about 14 months. There was no overall adverse effect on survival or cardiac morbidity (as defined by life-threatening arrhythmia, acute myocardial infarction, or hospitalization for worsened heart

failure). Amlodipine has been compared to placebo in four 8 to 12 week studies of patients with NYHA class II/III heart failure, involving a total of 697 patients. In these studies, there was no evidence of worsened heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or LVEF.

Beta-Blocker Withdrawal:

Amlodipine is not a beta-blocker and therefore gives no protection against the dangers of abrupt beta-blocker withdrawal; any such withdrawal should be by gradual reduction of the dose of beta-blocker.

Patients with Hepatic Failure:

Since amlodipine is extensively metabolized by the liver and the plasma elimination half-life ($t_{1/2}$) is 56 hours in patients with impaired hepatic function, caution should be exercised when administering amlodipine to patients with severe hepatic impairment.

Drug Interactions:

In vitro data indicate that amlodipine has no effect on the human plasma protein binding of digoxin, phenytoin, warfarin, and indomethacin.

Effect of other agents on amlodipine:

CIMETIDINE: Coadministration of amlodipine with cimetidine did not alter the pharmacokinetics of amlodipine.

GRAPEFRUIT JUICE: Coadministration of 240 mL of grapefruit juice with a single oral dose of amlodipine 10 mg in 20 healthy volunteers had no significant effect on the pharmacokinetics of amlodipine.

MAALOX (antacid): Coadministration of the antacid Maalox with a single dose of amlodipine had no significant effect on the pharmacokinetics of amlodipine.

SILDENAFIL: A single 100 mg dose of sildenafil (Viagra[®]) in subjects with essential hypertension had no effect on the pharmacokinetic parameters of amlodipine. When amlodipine and sildenafil were used in combination, each agent independently exerted its own blood pressure lowering effect.

Effect of amlodipine on other agents:

ATORVASTATIN: Coadministration of multiple 10 mg doses of amlodipine with 80 mg of atorvastatin resulted in no significant change in the steady state pharmacokinetic parameters of atorvastatin.

DIGOXIN: Coadministration of amlodipine with digoxin did not change serum digoxin levels or digoxin renal clearance in normal volunteers.

ETHANOL (alcohol): Single and multiple 10 mg doses of amlodipine had no significant effect on the pharmacokinetics of ethanol.

WARFARIN: Coadministration of amlodipine with warfarin did not change the warfarin prothrombin response time.

In clinical trials, amlodipine has been safely administered with thiazide diuretics, beta-blockers, angiotensin-converting enzyme inhibitors, long-acting nitrates, sublingual nitroglycerin, digoxin, warfarin, non-steroidal anti-inflammatory drugs, antibiotics, and oral hypoglycemic drugs.

Drug/Laboratory Test Interactions: None known.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Rats and mice treated with amlodipine maleate in the diet for up to two years, at concentrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 amlodipine mg/kg/day showed no evidence of a carcinogenic effect of the drug. For the mouse, the highest dose was, on a mg/m² basis, similar to the maximum recommended human dose of 10 mg amlodipine/day*. For the rat, the highest dose was, on a mg/m² basis, about twice the maximum recommended human dose*.

Mutagenicity studies conducted with amlodipine maleate revealed no drug related effects at either the gene or chromosome level.

There was no effect on the fertility of rats treated orally with amlodipine maleate (males for 64 days and females for 14 days prior to mating) at doses up to 10 mg amlodipine/kg/day (8 times* the maximum recommended human dose of 10 mg/day on a mg/m² basis).

Pregnancy Category C:

No evidence of teratogenicity or other embryo/fetal toxicity was found when pregnant rats and rabbits were treated orally with amlodipine maleate as doses up to 10 mg amlodipine/kg/day (respectively 8 times* and 23 times* the maximum recommended human dose of 10 mg on a mg/m² basis) during their respective periods of major organogenesis. However, litter size was significantly decreased (by about 50%) and the number of intrauterine deaths was significantly increased (about 5-fold) in rats receiving amlodipine maleate at a dose equivalent to 10 mg amlodipine/kg/day for 14 days before mating and throughout mating and gestation. Amlodipine maleate has been shown to prolong both the gestation period and the duration of labor in rats at this dose. There are no adequate and well-controlled studies in pregnant women. Amlodipine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

*Based on patient weight of 50 kg.

Nursing Mothers:

It is not known whether amlodipine is excreted in human milk. In the absence of this information, it is recommended that nursing be discontinued while amlodipine is administered.

Pediatric Use:

The effect of amlodipine on blood pressure in patients less than 6 years of age is not known.

Geriatric Use:

Clinical studies of amlodipine did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. Elderly patients have decreased

clearance of amlodipine with a resulting increase of AUC of approximately 40 to 60%, and a lower initial dose may be required (see **DOSAGE AND ADMINISTRATION**).

ADVERSE REACTIONS

Amlodipine has been evaluated for safety in more than 11,000 patients in U.S. and foreign clinical trials. In general, treatment with amlodipine was well-tolerated at doses up to 10 mg daily. Most adverse reactions reported during therapy with amlodipine were of mild or moderate severity. In controlled clinical trials directly comparing amlodipine (n=1730) in doses up to 10 mg to placebo (n=1250), discontinuation of amlodipine due to adverse reactions was required in only about 1.5% of patients and was not significantly different from placebo (about 1%). The most common side effects are headache and edema. The incidence (%) of side effects which occurred in a dose related manner are as follows:

Adverse Event	2.5 mg N=275	5 mg N=296	10 mg N=268	Placebo N=520
Edema	1.8	3.0	10.8	0.6
Dizziness	1.1	3.4	3.4	1.5
Flushing	0.7	1.4	2.6	0.0
Palpitation	0.7	1.4	4.5	0.6

Other adverse experiences which were not clearly dose related but which were reported with an incidence greater than 1.0% in placebo-controlled clinical trials include the following:

Placebo-Controlled Studies	AMLODIPINE (%) (N=1730)	PLACEBO (%) (N=1250)
Headache	7.3	7.8
Fatigue	4.5	2.8
Nausea	2.9	1.9
Abdominal Pain	1.6	0.3
Somnolence	1.4	0.6

For several adverse experiences that appear to be drug and dose related, there was a greater incidence in women than men associated with amlodipine treatment as shown in the following table:

Adverse Event	AMLODIPINE		PLACEBO	
	Male=% (N=1218)	Female=% (N=512)	Male=% (N=914)	Female=% (N=336)
Edema	5.6	14.6	1.4	5.1
Flushing	1.5	4.5	0.3	0.9
Palpitations	1.4	3.3	0.9	0.9
Somnolence	1.3	1.6	0.8	0.3

The following events occurred in <1% but >0.1% of patients in controlled clinical trials or under conditions of open trials or marketing experience where a causal relationship is uncertain; they

are listed to alert the physician to a possible relationship:

Cardiovascular: arrhythmia (including ventricular tachycardia and atrial fibrillation), bradycardia, chest pain, hypotension, peripheral ischemia, syncope, tachycardia, postural dizziness, postural hypotension, vasculitis.

Central and Peripheral Nervous System: hypoesthesia, neuropathy peripheral, paresthesia, tremor, vertigo.

Gastrointestinal: anorexia, constipation, dyspepsia, ** dysphagia, diarrhea, flatulence, pancreatitis, vomiting, gingival hyperplasia.

General: allergic reaction, asthenia, ** back pain, hot flushes, malaise, pain, rigors, weight gain, weight decrease.

Musculoskeletal System: arthralgia, arthrosis, muscle cramps, ** myalgia.

Psychiatric: sexual dysfunction (male** and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization.

Respiratory System: dyspnea, ** epistaxis.

Skin and Appendages: angioedema, erythema multiforme, pruritus, ** rash, ** rash erythematous, rash maculopapular.

** These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side effects was between 1% and 2% in all multiple dose studies.

Special Senses: abnormal vision, conjunctivitis, diplopia, eye pain, tinnitus.

Urinary System: micturition frequency, micturition disorder, nocturia.

Autonomic Nervous System: dry mouth, sweating increased.

Metabolic and Nutritional: hyperglycemia, thirst.

Hemopoietic: leukopenia, purpura, thrombocytopenia.

The following events occurred in <0.1% of patients: cardiac failure, pulse irregularity, extrasystoles, skin discoloration, urticaria, skin dryness, alopecia, dermatitis, muscle weakness, twitching, ataxia, hypertonia, migraine, cold and clammy skin, apathy, agitation, amnesia, gastritis, increased appetite, loose stools, coughing, rhinitis, dysuria, polyuria, parosmia, taste perversion, abnormal visual accommodation, and xerophthalmia.

Other reactions occurred sporadically and cannot be distinguished from medications or concurrent disease states such as myocardial infarction and angina.

Amlodipine therapy has not been associated with clinically significant changes in routine laboratory tests. No clinically relevant changes were noted in serum potassium, serum glucose,

total triglycerides, total cholesterol, HDL cholesterol, uric acid, blood urea nitrogen, or creatinine.

The following postmarketing event has been reported infrequently where a causal relationship is uncertain: gynecomastia. In postmarketing experience, jaundice and hepatic enzyme elevations (mostly consistent with cholestasis or hepatitis) in some cases severe enough to require hospitalization have been reported in association with use of amlodipine.

Amlodipine has been used safely in patients with chronic obstructive pulmonary disease, well-compensated congestive heart failure, peripheral vascular disease, diabetes mellitus, and abnormal lipid profiles.

OVERDOSAGE

Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in mice and rats, respectively, caused deaths. Single oral amlodipine maleate doses equivalent to 4 or more mg amlodipine/kg or higher in dogs (11 or more times the maximum recommended human dose on a mg/m^2 basis) caused a marked peripheral vasodilation and hypotension.

Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited. Reports of intentional overdosage include a patient who ingested 250 mg and was asymptomatic and was not hospitalized; another (120 mg) was hospitalized, underwent gastric lavage and remained normotensive; the third (105 mg) was hospitalized and had hypotension (90/50 mmHg) which normalized following plasma expansion. A case of accidental drug overdose has been documented in a 19-month-old male who ingested 30 mg amlodipine (about 2 mg/kg). During the emergency room presentation, vital signs were stable with no evidence of hypotension, but a heart rate of 180 bpm. Ipecac was administered 3.5 hours after ingestion and on subsequent observation (overnight) no sequelae were noted.

If massive overdose should occur, active cardiac and respiratory monitoring should be instituted. Frequent blood pressure measurements are essential. Should hypotension occur, cardiovascular support including elevation of the extremities and the judicious administration of fluids should be initiated. If hypotension remains unresponsive to these conservative measures, administration of vasopressors (such as phenylephrine) should be considered with attention to circulating volume and urine output. Intravenous calcium gluconate may help to reverse the effects of calcium entry blockade. As amlodipine is highly protein bound, hemodialysis is not likely to be of benefit.

DOSAGE AND ADMINISTRATION

Adults:

The usual initial antihypertensive oral dose of Amlodipine Orally Disintegrating Tablets™ is 5 mg once daily with a maximum dose of 10 mg once daily. Small, fragile, or elderly individuals, or patients with hepatic insufficiency may be started on 2.5 mg once daily and this dose may be used when adding Amlodipine Orally Disintegrating Tablets™ to other antihypertensive therapy.

Dosage should be adjusted according to each patient's need. In general, titration should

proceed over 7 to 14 days so that the physician can fully assess the patient's response to each dose level. Titration may proceed more rapidly, however, if clinically warranted, provided the patient is assessed frequently.

The recommended dose for chronic stable or vasospastic angina is 5 to 10 mg, with the lower dose suggested in the elderly and in patients with hepatic insufficiency. Most patients will require 10 mg for adequate effect. See ADVERSE REACTIONS section for information related to dosage and side effects.

Children: The effective antihypertensive oral dose in pediatric patients ages 6 to 17 years is 2.5 mg to 5 mg once daily. Doses in excess of 5 mg daily have not been studied in pediatric patients. See **CLINICAL PHARMACOLOGY**.

Coadministration with Other Antihypertensive and/or Antianginal Drugs:

Amlodipine has been safely administered with thiazides, ACE inhibitors, beta-blockers, long-acting nitrates, and/or sublingual nitroglycerin.

Administration of Amlodipine Orally Disintegrating Tablets™: Place the orally disintegrating tablet on the tongue where it will disintegrate and then be swallowed with the saliva. If necessary, follow with water.

HOW SUPPLIED

Amlodipine Orally Disintegrating Tablets™, 2.5 mg (amlodipine besylate equivalent to 2.5 mg of amlodipine per tablet) are white, round, biconvex tablets with "ADP 2.5" debossed on one side and "ODT" on the other side. They are supplied as follows:
NDC 63672-0006-1, Bottles of 30

Amlodipine Orally Disintegrating Tablets™, 5 mg (amlodipine besylate equivalent to 5 mg of amlodipine per tablet) are light yellow, round, biconvex tablets with "ADP 5" debossed on one side and "ODT" on the other side. They are supplied as follows:
NDC 63672-0007-1, Bottles of 30

Amlodipine Orally Disintegrating Tablets™, 10 mg (amlodipine besylate equivalent to 10 mg of amlodipine per tablet) are pink, round biconvex tablets with "ADP 10" debossed on one side and "ODT" on the other side. They are supplied as follows:
NDC 63672-0008-1, Bottles of 30

Store bottles at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). See USP Controlled Room Temperature. Dispense in tight, light-resistant containers (USP).

Rx only

SUMMARY OF INFORMATION ABOUT

Amlodipine Orally Disintegrating Tablets™

Read this information carefully before you start Amlodipine Orally Disintegrating Tablets™ and each time you refill your prescription. There may be new information. This information does not replace talking with your doctor. If you have any questions about Amlodipine Orally Disintegrating Tablets™, ask your doctor. Your doctor will know if Amlodipine Orally Disintegrating Tablets™ is right for you.

What is Amlodipine Orally Disintegrating Tablets™?

Amlodipine Orally Disintegrating Tablets™ is a type of medicine known as a calcium channel blocker (CCB). It is used to treat high blood pressure (hypertension) and a type of chest pain called angina. It can be used by itself or with other medicines to treat these conditions.

High Blood Pressure (hypertension)

High blood pressure comes from blood pushing too hard against your blood vessels. Amlodipine Orally Disintegrating Tablets™ relaxes your blood vessels which lets your blood flow more easily and helps lower your blood pressure. Drugs that lower blood pressure lower your risk of having a stroke or heart attack.

Angina

Angina is a pain or discomfort that keeps coming back when part of your heart does not get enough blood. Angina feels like a pressing or squeezing pain, usually in your chest under the breastbone. Sometimes you can feel it in your shoulders, arms, neck, jaws, or back. Amlodipine Orally Disintegrating Tablets™ can relieve this pain.

Who should not use Amlodipine Orally Disintegrating Tablets™?

Do not use Amlodipine Orally Disintegrating Tablets™ if you are allergic to amlodipine (the active ingredient in Amlodipine Orally Disintegrating Tablets™), or to the inactive ingredients. Your doctor or pharmacist can give you a list of these ingredients.

What should I tell my doctor before taking Amlodipine Orally Disintegrating Tablets™?

Tell your doctor about any prescription and non-prescription medicines you are taking, including natural or herbal remedies.

Tell your doctor if you:

- ever had heart disease
- ever had liver problems
- are pregnant, or plan to become pregnant. Your doctor will decide if Amlodipine Orally Disintegrating Tablets™ is the best treatment for you.
- are breastfeeding. Do not breastfeed while taking Amlodipine Orally Disintegrating Tablets™. You can stop breastfeeding or take a different medicine.

How should I take Amlodipine Orally Disintegrating Tablets™?

- Take Amlodipine Orally Disintegrating Tablets™ once a day, with or without food. You can take Amlodipine Orally Disintegrating Tablets™ with most drinks, including grapefruit juice.
- It may be easier to take your dose if you do it at the same time every day, such as with breakfast, dinner, or at bedtime. Do not take more than one dose of Amlodipine Orally Disintegrating Tablets™ at a time.

- If you miss a dose, take it as soon as you remember. Do not take Amlodipine Orally Disintegrating Tablets™ if it has been more than 12 hours since you missed your last dose. Wait and take the next dose at your regular time.
- Other medicines: You can use nitroglycerin and Amlodipine Orally Disintegrating Tablets™ together. If you take nitroglycerin for angina, don't stop taking it while you are taking Amlodipine Orally Disintegrating Tablets™.
- While you are taking Amlodipine Orally Disintegrating Tablets™, do not stop taking your other prescription medicines, including any other blood pressure medicines, without talking to your doctor.
- If you took too much Amlodipine Orally Disintegrating Tablets™, call your doctor or Poison Control Center, or go to the nearest hospital emergency room right away.

What should I avoid while taking Amlodipine Orally Disintegrating Tablets™?

- Do not breastfeed. It is not known if Amlodipine Orally Disintegrating Tablets™ will pass through your milk.
- Do not start any new prescription or non-prescription medicines or supplements, unless you check with your doctor first.

What are the possible side effects of Amlodipine Orally Disintegrating Tablets™?

Amlodipine Orally Disintegrating Tablets™ may cause the following side effects. Most side effects are mild or moderate:

- headache
- swelling of your legs or ankles
- tiredness, extreme sleepiness
- stomach pain, nausea
- dizziness
- flushing (hot or warm feeling in your face)
- arrhythmia (irregular heartbeat)
- heart palpitations (very fast heartbeat)

It is rare, but when you first start Amlodipine Orally Disintegrating Tablets™ or increase your dose, you may have a heart attack or your angina may get worse. If that happens, call your doctor right away or go directly to a hospital emergency room.

Tell your doctor if you are concerned about any side effects you experience. These are not all the possible side effects of Amlodipine Orally Disintegrating Tablets™. For a complete list, ask your doctor or pharmacist.

How do I store Amlodipine Orally Disintegrating Tablets™?

Keep Amlodipine Orally Disintegrating Tablets™ away from children. Store Amlodipine Orally Disintegrating Tablets™ at room temperature (between 59 and 86 degrees Fahrenheit). Keep Amlodipine Orally Disintegrating Tablets™ out of the light. Do not store in the bathroom. Keep Amlodipine Orally Disintegrating Tablets™ in a dry place.

General advice about Amlodipine Orally Disintegrating Tablets™

Sometimes, doctors will prescribe a medicine for a condition that is not written in the patient information leaflets. Only use Amlodipine Orally Disintegrating Tablets™ the way your doctor told you to. Do not give Amlodipine Orally Disintegrating Tablets™ to other people, even if they have the same symptoms you have. It may harm them.

NDA 22-026

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You can ask your pharmacist or doctor for information about Amlodipine Orally Disintegrating Tablets™, or you can call 1-919-493-6006.

Manufactured for:

Synthon Pharmaceuticals, Inc.

Research Triangle Park, North Carolina 27709

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Manufactured by:

Rottendorf Pharma GmbH

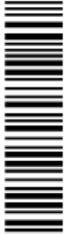
Ennigerloh, Germany

Made in Germany

Issue Date: 09/2007

PI-4004-0

Amlodipine Orally Disintegrating Tablets, 2.5 mg, 14 Count

LOT EXP UNVARNISH AREA	63672-0006-5		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotendorf Pharma GmbH Emmerloh, Germany Made in Germany	NDC 63672-0006-5		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important patient information.
				Amlodipine Orally Disintegrating Tablets	PROFESSIONAL SAMPLE NOT FOR SALE		
				2.5 mg			
				Each tablet contains amlodipine besylate equivalent to 2.5 mg amlodipine.			
					R_x Only		
						DOSAGE AND USE: See package insert.	
				14 Tablets	Synthon		
				RRS03INF00			

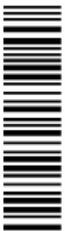
Amlodipine Orally Disintegrating Tablets, 2.5 mg, 30 Count

LOT EXP UNVARNISH AREA	63672-0006-1		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotendorf Pharma GmbH Emmerloh, Germany Made in Germany	NDC 63672-0006-1		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important patient information.
				Amlodipine Orally Disintegrating Tablets	PROFESSIONAL SAMPLE NOT FOR SALE		
				2.5 mg			
				Each tablet contains amlodipine besylate equivalent to 2.5 mg amlodipine.			
					R_x Only		
						DOSAGE AND USE: See package insert.	
				30 Tablets	Synthon		
				RRT031BF00			

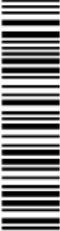
Amlodipine Orally Disintegrating Tablets, 5 mg, 14 Count

LOT EXP UNVARNISH AREA	63672-0007-5		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotendorf Pharma GmbH Emmerich, Germany Made in Germany	NDC 63672-0007-5		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important information.
				Amlodipine Orally Disintegrating Tablets	5 mg		
		RRS031NI00		14 Tablets	Synthon		

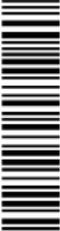
Amlodipine Orally Disintegrating Tablets, 5 mg, 30 Count

LOT EXP UNVARNISH AREA	63672-0007-1		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotendorf Pharma GmbH Emmerich, Germany Made in Germany	NDC 63672-0007-1		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important information.
				Amlodipine Orally Disintegrating Tablets	5 mg		
		RRT031BI00		30 Tablets	Synthon		

Amlodipine Orally Disintegrating Tablets, 10 mg, 14 Count

LOT EXP UNVARNISH AREA	63672-0008-5		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotemdorf Pharma GmbH Emmerloh, Germany Made in Germany	NDC 63672-0008-5		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important patient information.
				Amlodipine Orally Disintegrating Tablets	10 mg		
		RRS03INJ00		14 Tablets	Synthon		

Amlodipine Orally Disintegrating Tablets, 10 mg, 30 Count

LOT EXP UNVARNISH AREA	63672-0008-1		Manufactured for: Synthon Pharmaceuticals, Inc. Research Triangle Park, NC 27709 by Rotemdorf Pharma GmbH Emmerloh, Germany Made in Germany	NDC 63672-0008-1		Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature] PROTECT FROM LIGHT.	See text at the end of the attached prescribing information for important patient information.
				Amlodipine Orally Disintegrating Tablets	10 mg		
		RRT03IBJ00		30 Tablets	Synthon		