

CADUET tablets are formulated for oral administration in the following strength combinations Table 1. CADUET Tablet Strengths

	2.5 mg/	2.5 mg/	2.5 mg/	5 mg/	5 mg/	5 mg/	5 mg/	10 mg/	10 mg/	10 mg/	10 mg/
	10 mg	20 mg	40 mg	10 mg	20 mg	40 mg	80 mg	10 mg	20 mg	40 mg	80 mg
amlodipine equivalent	2.5	2.5	2.5	5	5	5	5	10	10	10	10
(mg)											

(mg) Each tablet also contains calcium carbonate, croscarmellose sodium, microcrystalline cellulose, pregelatinized starch, polysorbate 80, hydroxypropyl cellulose, purified water, colloidal silicon dioxide (anhydrous), magnesium stearate, Opadry[®] II White 85F28751 (polyvinyl alcohol, titanium dioxide, PEG 3000 and talc) or Opadry[®] II Blue 85F10919 (polyvinyl alcohol, titanium dioxide, PEG 3000, talc and FD&C blue #2). Combinations of atorvastatin with 2.5 mg and 5 mg amlodipine are film coated white, and combinations of atorvastatin with 10 mg amlodipine are film coated blue. CLINICAL PHARMACOLOGY

Mechanism of Action

CADUET

atorvastat

equivalent

CADUET is a combination of two drugs, a dihydropyridine calcium antagonist (calcium ion antagonist ORDOLLIS A CONTINUATION OF TWO DRUGS, A dihydropyridine calcium antagonist (calcium ion antagonist or slow-channel blocker) amlodipine (antihypertensive/antianginal agent) and an HMG-COA reductase inhibitor atorvastatin (cholesterol lowering agent). The amlodipine component of CADUET inhibits the transmembrane influx of calcium ions into vascular smooth muscle and cardiac muscle. The atorvastatin component of CADUET is a selective, competitive inhibitor of HMG-COA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl-coenzyme A to mevalonate, a precursor of sterols, including cholesterol.

The Amlodipine Component of CADUET

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. 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 vascu-lar 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 inized compound (pKa=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 Anoina: In advintsmith exertional angina, amlodipine reduces the total peripheral

Construction of the second second

The Atorvastatin Component of CADUET

The Alorvastain Component of CAUCLI Cholesterol and triglycerides circulate in the bloodstream as part of lipoprotein complexes. With ultra-centrifugation, these complexes separate into HDL (high-density lipoprotein), IDL (intermediate-density lipoprotein), IDL (iow-density lipoprotein), and VLDL (very-low-density lipoprotein) fractions. Triglycerides (TG) and cholesterol in the liver are incorporated into VLDL and released into the plasma for delivery to peripheral tissues. LDL is formed from VLDL and is catabolized primarily through the high-affinity LDL receptor.

Infirializing CDC receiptor. Clinical and pathologic studies show that elevated plasma levels of total cholesterol (total-C), CDL-cholesterol (LDL-C), and apolipoprotein B (apo B) promote human atherosclerosis and are risk factors for developing cardiovascular disease, while increased levels of HDL-C are associated with a decreased cardiovascular risk.

Epidemiologic investigations have established that cardiovascular morbidity and mortality vary directly Epidemiologic investigations have established that cardiovascular morbiolity and informatly Vary directly with the level of total-C and LD-C, and investey with the level of HDL-C. In animal models, atorvastatin lowers plasma cholesterol and lipoprotein levels by inhibiting HMG-CoA reductase and cholesterol synthesis in the liver and by increasing the number of hepatic LDL receptors on the cell-surface to enhance uptake and catabolism of LDL; atorvastatin also reduces LDL production and the number of LDL particles.

and the number of LDL particles. Atorvastatin reduces total-C, LDL-C, and apo B in patients with homozygous and heterozygous familial hypercholesterolemia (FH), nonfamilial forms of hypercholesterolemia, and mixed dyslipidemia. Atorvastatin also reduces VLD-C and TG and produces variable increases in HDL-C and apolipoprotein A-1. Atorvastatin reduces total-C, LDL-C, VLD-C, apo B, TG, and non-HDL-C, and increases HDL-C in patients with isolated hypertrigivceridemia. Atorvastatin reduces intermediate density lipoprotein cholesterol (IDL-C) in patients with dysbetalipoproteinemia. Use LDL evolutions of the density densities density in the density densities density densities density densities density densities den

Like LDL, cholesterol-enriched triglyceride-rich lipoproteins, including VLDL, intermediate density Line LUL, cnuesieroi-enricee trigyceride-rich ipoproteins, including VLDL, intermediate density lipoprotein (IDL), and remnants, can also promote atherosclerosis. Elevated plasma trigycerides are frequently found in a triad with low HDL-C levels and small LDL particles, as well as in association with non-lipid metabolic risk factors for coronary heart disease. As such, total plasma T6 has not consistent been shown to be an independent risk factor for CHD. Furthermore, the independent effect of raising HDL or lowering T6 on the risk of coronary and cardiovascular morbidity and mortality has not been determined.

Pharmacokinetics and Metabolism

CADUET® (amlodipine besylate/ atorvastatin calcium) Tablets

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69-6113-00-5 CADUET® (amlodipine besylate/ lorvastatin calcium) Tablets

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• Ca²⁺ • 3H₂O

CLINICAL PHARMACOLOGY (continued)

lodipine Effects in Vasospastic Angina: In a double-blind, placebo-controlled clinical trial of 4 weeks

Amlodipine Effects in Vasospastic Angina: in a double-bind, placeuro-controlled cillinical triata or 4 weeks divartion in 50 patients, amlodipine therapy decreased attacks by approximately 4/week compared with a placebo decrease of approximately 1/week (p<0.01). Two of 23 amlodipine and 7 of 27 placebo patients discontinued from the study due to lack of clinical improvement. Amlodipine Effects in Documented Coronary Artery Disease: In PREVENT, 825 patients with angiographi-cally documented coronary artery disease were randomized to amlodipine (5-10 mg once daily) or placebo and followed for 3 years. Although the study did not show significance on the primary objective of change in coronary luminal diameter as assessed by quantitative coronary angiography, the data suggested a favorable outcome with respect to fewer hospitalizations for angina and revascularization procedures in natients with CAD with CAD.

patients with CAU. CAMELOT enrolled 1318 patients with CAD recently documented by angiography, without left main coronary disease and without heart failure or an ejection fraction <40%. Patients (76% males, 89% Caucasian, 93% enrolled at US sites, 89% with a history of angina, 52% without PCI, 4% with PCI and no stent, and 44% with a stent) were randomized to double-blind treatment with either amlodipine (5 – 10 mg once daily) or placebo in addition to standard care that included aspirin (89%), statins (83%), beta-blockers (74%), nitroglycerin (50%), anti-coagulants (40%), and diuretics (32%), but excluded other calcium channel blockers. The mean duration of follow-up was 19 months. The primary excluded other calcium channel blockers. The mean duration of follow-up was 19 months. The primary endpoint was the time to first occurrence of one of the following events: hospitalization for angina pectoris, coronary revascularization, myocardia infarction, cardiovascular death, resuscitated cardiac arrest, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease. A total of 110 (16.6%) and 151 (23.1%) first events occurred in the amlodipine and placebo groups respectively for a hazard ratio of 0.691 (95% Cit. 0.540-0.884, p= 0.003). The primary endpoint is summarized in Figure 1 below. The outcome of this study was largely derived from the prevention of hospitalizations for angina and the prevention of revascularization procedures (see Table 2). Effects in various subgroups are shown in Figure 2.



12 Time (Months) Figure 2 – Effects on primary endpoint of amlodipine versus placebo across sub-group

Favors Amlodipine Favors Placebo Overall

All Patients (N=1318)				
Age <65 (N=985)		_	.	
>=65 (N=333)		-		
Gender				
Male (N=984)				
Female (N=334)		_		
Baseline Sitting SBP				
<=Mean* (N=699)				
>Mean* (N=618)				
Baseline Vessel Disease				
single (N=0)			NA	
Multiple (N=1315)				
Baseline Vessels with Stenosis				
At least one Vessel with > 60% Steno	sis (N=850)	_	—	
No Vessel with > 60% Stenosis (N=4)	65)			
PC⊢stent Strata		_		
No PCI (N=680)				
PCI Without Stent Placement (N=53)				
Stent Placement (N=585)			_	
	0.0	0.5	1.0	1.5
	0.0			1.00

Hazard Ratio (95% Confidence Interval) *The mean sitting baseline SBP is 129 mmHg

Table 2 below summarizes the significant clinical outcomes from the composites of the primary endpoint. The other components of the primary endpoint including cardiovascular death, resuscitated cardiac arrest, myocardial infarction, hospitalization for heart failure, stroke/TIA, or peripheral vascula death of the structure of the stru

Table 2. Incidence of Significant Clinical Outcomes for CAMELOT									
Clinical Outcomes	Amlodipine	Placebo	Risk Reduction						
N (%)	(N=663)	(N=655)	(p-value)						
Composite CV Endpoint	110 (16.6)	151 (23.1)	31% (0.003)						
Hospitalization for Angina*	51 (7.7)	84 (12.8)	42% (0.002)						
Coronary Revascularization*	78	103	27%						

(15.7)

(0.033)

(11.8) *Total natients with these events

Total patients with these events Amilodipine Effects in Patients with Congestive Heart Failure: Amilodipine has been compared to placebo in four 8-12 week studies of patients with NYHA class I//III heart failure, involving a total of 697 patients. In these studies, there was no evidence of vorsened heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or LVEE. In a long-term (follow-up at least 6 months, mean 13.8 months) placebo-controlled mortality/morbidity study of amilodipine 5-10 mg in 1153 platients with NYHA classes III (n=931) or IV (n=222) heart failure so table 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

CADUET® (amlodipine besylate/ atorvastatin calcium) Tablets

CLINICAL PHARMACOLOGY (continued)

TABLE 3. Overview of Efficacy Results in TNT (continued)										
ndpoint	Atorvasta	tin 10 mg	Atorvasta	itin 80 mg	HR ^a (95%CI)					
	(N=5	006)	(N=4	995)						
omponents of all cause mortality	n	(%)	n	(%)						
Cardiovascular death	155	(3.1)	126	(2.5)	0.81 (0.64, 1.03)					
Noncardiovascular death	127	(2.5)	158	(3.2)	1.25 (0.99, 1.57)					
Cancer death	75	(1.5)	85	(1.7)	1.13 (0.83, 1.55)					
Other non-CV death	43	(0.9)	58	(1.2)	1.35 (0.91, 2.00)					

Galicel dealli	75	(1.5)	00	(1.7)	1.13 (0.03, 1.3)
Other non-CV death	43	(0.9)	58	(1.2)	1.35 (0.91, 2.0)
Suicide, homicide and other traumatic non-CV death	9	(0.2)	15	(0.3)	1.67 (0.73, 3.8
astatin 80 mg: atorvastatin 10 mg					

^b component of other secondary endpoints secondary endpoints not included in primary endpoint HR=hazard ratio, CHD=coronary heart disease; CI=confidence interval; MI=myocardial infarction; CHF=congestive heart failure; CV=cardiovascular; PVD=peripheral vascular disease; CABBc=coronary artery bypass graft Confidence intervals for the Secondary Endpoints were not adjusted for multiple comparisons

Confidence intervals for the Secondary Endpoints were not adjusted for multiple comparisons Of the events that comprised the primary efficacy endpoint, treatment with LIPITOR 80 mg/day signifi-cantly reduced the rate of nonfatal, non-procedure related MI and fatal and non-fatal stroke, but not CHD death or resuscitated cardiac arrest (Table 3). Of the predefined secondary endpoints, treatment with LIPITOR 80 mg/day significantly reduced the rate of coronary revascularization, angina and hospi-talization for heart failure, but not peripheral vascular disease. The reduction in the rate of CHF with hospitalization was only observed in the 8% of patients with a prior history of CHF. There was no significant difference between the treatment groups for all-cause mortality (Table 3). The proportions of subjects who experienced cardiovascular death, including the components of CHD death and fatal stroke were numerically smaller in the LIPITOR 80 mg group than in the LIPITOR 10 mg treatment group. The proportions of subjects who experienced noncardiovascular death were numerically larger in the LIPITOR 80 mg group than in the LIPITOR 10 mg treatment group. In the Incremental Decrease in Endpoints Through Aggressive Lipid Lowering Study (IDEAL), treatment with LIPITOR 80 mg/day was compared to treatment with simvastatin 20-40 mg/day is

In the Incremental Decrease in Endpoints Through Aggressive Lipid Lowering Study (IDEAL), treatment with LIPITOR 80 mg/day was compared to treatment with simvastatia 20-40 mg/day in 8,888 subjects up to 80 years of age with a history of CHD to assess whether reduction in CV risk could be achieved. Patients were mainly male (81%), white (99%) with an average age of 61.7 years, and an average LOL- Cof 121.5 mg/da L aradomization, 76% were on statin threapy. In this prospective, randomized, open-label, blinded endpoint (PROBE) trial with no run-in period, subjects were followed for a median duration of 4.8 years. The mean LDL-C, TC, TG, HDL and non-HDL cholesterol levels at Week 12 were 78, 145, 115, 45 and 100 mg/dL during treatment with 80 mg of LIPITOR and 105, 179, 142, 47 and 132 mg/dL during treatment with 20-40 mg of simvastatin. There was no significant difference between the treatment groups for the primary endpoint, the rate of first major coronary event (fatal CHD, nonfatal MI and resuscitated cardiac arrest); 411 (9.3%) in the LIPITOR 80 mg/day group vs. 463 (10.4%) in the simvastatin 20-40 mg/day group, HR 0.89, 95% CI (0.78, 1.01), p=0.07. There was no significant differences between the treatment groups for all-cause mortality: 366 (8.2%).

CI (0.78,1.01), p=0.07. There were no significant differences between the treatment groups for all-cause mortality: 366 (8.2%) in the LIPTOR 80 mg/day group vs. 374 (8.4%) in the simvastatin 20-40 mg/day group. The proportions of subjects who experienced CV or non-CV death were similar for the LIPITOR 80 mg group and the sim-vastatin 20-40 mg group. *Atorvastatin Studies in Hypercholesterolemia* (*Heterozygous Familial and Nontamilial*) and *Mixed Dyslipidemia* (*Fredrickson* Types IIa and IIb): Atorvastatin reduces total-C, LDL-C, VLDL-C, apo B, and TG, and increases HDL-C in patients with hypercholesterolemia and mixed dyslipidemia. Therapeutic response is seen within 2 weeks, and maximum response is usually achieved within 4 weeks and maintained during chronic therapy. maintained during chronic therapy

Maintained ouring chronic therapy. Atorvastatic is effective in a wide variety of patient populations with hypercholesterolemia, with and without hypertriglyceridemia, in men and women, and in the elderly. In two multicenter, placebo-controlled, dose-response studies in patients with hypercholesterolemia, atorvastatin given as a single dose over 6 weeks significantly reduced total-C, LDL-C, apo B, and TG (pooled results are provided in Table 4).

Table 4. Dose-Response in Patients With Primary Hyp

(Adjusted Mean Percent Change From Baseline) ^a	
(Aujusteu Medii Fercent Gildiiye Fruin Dasenne)"	

DOSE	Ν	TC	LDL-C	ApoB	TG	HDL-C	Non-HDL-C/HDL-C
Placebo	21	4	4	3	10	-3	7
10 mg	22	-29	-39	-32	-19	6	-34
20 mg	20	-33	-43	-35	-26	9	-41
40 mg	21	-37	-50	-42	-29	6	-45
80 mg	23	-45	-60	-50	-37	5	-53

In patients with *Fredrickson* Types IIa and IIb hyperlipoproteinemia pooled from 24 controlled trials, the median (25^m and 75^m percentile) percent changes from baseline in HDL-C for atorvastatin 10, 20, 40, and 80 mg were 6.4 (-1.4, 14), 8.7 (0, 17), 7.8 (0, 16), and 5.1 (-2.7, 15), respectively. Additionally, analysis of the pooled data demonstrated consistent and significant decreases in total-C, LDL-C, TG, total-C/HDL-C, and LDL-C/HDL-C.

In three multicenter, double-blind studies in patients with hypercholesterolemia, atorvastatin was compared to other HMG-CoA reductase inhibitors. After randomization, patients were treated for 16 weeks with either atorvastatin 10 mg per day or a fixed dose of the comparative agent (Table 5). compared to 16 weeks with

Table 5. Mean Percent Change From Baseline at Endpoint (Double-Blind, Randomized, Active-Controlled Trials) Non-HDI -C/ N Total-C LDL-C Apo B TG HDL-C HDI -0

Study 1							
Atorvastatin 10 mg	707	-27 ^a	-36 ^a	-28 ^a	-17 ^a	+7	-37 ^a
Lovastatin 20 mg	191	-19	-27	-20	- 6	+7	-28
95% CI for Diff 1		-9.2, -6.5	-10.7, -7.1	-10.0, -6.5	-15.2, -7.1	-1.7, 2.0	-11.1, -7.1
Study 2							
Atorvastatin 10 mg	222	-25 ^b	-35 ^b	-27 ^b	-17 ^b	+6	-36 ^b
Pravastatin 20 mg	77	-17	-23	-17	- 9	+8	-28
95% CI for Diff 1		-10.8, -6.1	-14.5, -8.2	-13.4, -7.4	-14.1, -0.7	-4.9, 1.6	-11.5, -4.1
Study 3							
Atorvastatin 10 mg	132	-29 ^c	-37°	-34 ^c	-23 ^c	+7	-39 ^c
Simulactatin 10 mg	45	24	20	20	15	.7	22

different from Iovastatin, ANCOVA, p <0.05 Significantly different from rovastatin, ANCOVA, $p \le 0.05$ Significantly different from pravastatin, ANCOVA, $p \le 0.05$ Significantly different from simvastatin, ANCOVA, $p \le 0.05$

Treatment

(Daily Dose)

⁵ Significantly different from simusatain, ANCOVA, p. 40.05 The impact on clinical outcomes of the differences in lipid-altering effects between treatments shown in Table 5 is not known. Table 5 does not contain data comparing the effects of atorvastatin 10 mg and higher doses of lovastatin, pravastatin, and simvastatin. The drugs compared in the studies summarized in the table are not necessarily interchangeable. Atorvastatin Effects in Hypertriglyceridemia treated across several clinical trials is shown in the table below. For the atorvastatin-treated patients, median (min, max) baseline TG level was 565 (267-1502).

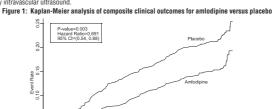
Table 6. Combined Patients With Isolated Elevated TG:

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^a Atorva

In a angiographic substudy (n=274) conducted within CAMELOT, there was no significant difference between amlodipine and placebo on the change of atheroma volume in the coronary artery as assessed by intravascular ultrasound.



Asseption Studies with amlodipine: After oral administration of therapeutic doses of amlodipine alone, 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 when administered alone is not altered by the presence of food.

aftered by the presence of tool. Studies with atorvastatin: After oral administration alone, atorvastatin is rapidly absorbed; maximum plasma concentrations occur within 1 to 2 hours. Extent of absorption increases in proportion to atorvastatin dose. The absolute bioavailability of atorvastatin (parent drug) is approximately 14% and the systemic availability of HMG-CoA reductase inhibitory activity is approximately 30%. The low systemic availability of HMG-CoA reductase inhibitory activity is approximately 30%. The low systemic availability of hold decreases the rate and extent of drug absorption by approximately 25% and 9%, respectively, as assessed by Cmax and AUC, LDL-C reduction is similar whether atorvastatin is given with or without food. Plasma atorvastatin concentrations are lower (approximately 30% for Cmax and AUC) following evening drug administrating organized with morring. However, LDL-C reduction and AUC) following on the systemic concentration compared with morring. However, LDL-C reduction and AUC) following evening drug administration compared with morning. However, LDL-C reduc is the same regardless of the time of day of drug administration (see DOSAGE AND ADMINISTRATION). uction

Studies with CADUET: Following oral administration of CADUET peak plasma concentrations of amlodipine and atorvastatin are seen at 6 to 12 hours and 1 to 2 hours post dosing, respectively. The rate and exact of absorption (bioavailability) of amlodipine and atorvastatin from CADUET are not significantly different from the bioavailability of amlodipine and atorvastatin administered separately (see above).

The bioavailability of amlodipine from CADUET was not affected by food. Although food decreases the rate and extent of absorption of atorvastatin from CADUET by approximately 32% and 11%, respectively, as it does with atorvastatin when given alone. LDL-C reduction is similar whether atorvastatin is given with or without food

Distribution

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Distribution Studies with amlodipine: Ex vivo studies have shown that approximately 93% of the circulating amlodipine drug is bound to plasma proteins in hypertensive patients. Steady-state plasma levels of amlodipine are reached after 7 to 8 days of consecutive daily dosing. Studies with atorvastatin is seave on unume of distribution of atorvastatin is approximately 381 liters. Atorvastatin is seave bound to plasma proteins. A blood/plasma ratio of approximately 0.25 indicates poor drug penetration into red blood cells. Based on observations in rats, atorvastatin calcium is likely to be secreted in human milk (see CONTRAINDICATIONS, Pregnancy and Lactation, and PRECAUTIONS, Nursin Matters). Nursing Mothers

Metabolism

Studies with amlodipine: Amlodipine is extensively (about 90%) converted to inactive metabolites via hepatic metabolism.

Studies with atorvastatin: Atorvastatin is extensively metabolized to ortho- and parahydroxylated derivatives and various beta-oxidation products. In vitro inhibition of HMG-CoA reductase by ortho- and uves and various peta-oxidation products. In vitro initiation of initiation of initiation of indiced and paralydroxylated metabolities is equivalent to that of atorvastatin. Approximately 70% of circulating inhibitory activity for HMG-CoA reductase is attributed to active metabolites. In vitro studies suggest the importance of atorvastatin metabolism by cytochrome P450 34A, consistent with increased plasma concentrations of atorvastatin in humans following coadministration with erythromycin, a known inhibitor of this isozyme (see **PRECAUTIONS, Drug Interactions**). In animals, the ortho-hydroxy metabolite undergoes further glucuronidation.

Excretion

Studies with amlodipine: Elimination from the plasma is biphasic with a terminal elimination half-life of about 30-50 hours. Ten percent of the parent amlodipine compound and 60% of the metabolites of amlodipine are excreted in the urine.

Studies with atorvastatin: Atorvastatin and its metabolites are eliminated primarily in bile following hepatic and/or extra-hepatic metabolism; however, the drug does not appear to undergo enterohepatic recircula-tion. Mean plasma elimination half-life of atorvastatin in humans is approximately 14 hours, but the half-life of inhibitory activity for HMG-CoA reductase is 20 to 30 hours due to the contribution of active metabolites. Less than 2% of a dose of atorvastatin is recovered in urine following oral administration **Special Populations**

Geriatric

Studies with amlodipine: Elderly patients have decreased clearance of amlodipine with a resulting increase in AUC of approximately 40-60%, and a lower initial dose of amlodipine may be required. Studies with a torvastatin: Plasma concentrations of a torvastatin are higher (approximately 40% for Cmax and 30% for AUC) in healthy lederly subjects (age ≥65 years) than in young adults. Clinical data suggest a greater degree of LDL-lowering at any dose of atorvastatin in the elderly population compared to younger adults (see **PRECAUTIONS** section, **Geriatric Use**).

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

Studies with atorvastatin: Pharmacokinetic data in the pediatric population are not available Gender

Studies with atorvastatin: Plasma concentrations of atorvastatin in women differ from those in (approximately 20% higher for Cmax and 10% lower for AUC); however, there is no clinically signifi difference in LDL-C reduction with atorvastatin between men and women. Renal Insufficiency

Studies with amlodipine: The pharmacokinetics of amlodipine are not significantly influenced by renal impairment. Patients with renal failure may therefore receive the usual initial amlodipine dose. Studies with atorvastatin: Renal disease has no influence on the plasma concentrations or LDL-C reduction of atorvastatin; thus, dose adjustment of atorvastatin in patients with renal dysfunction is not necessary (see DOSAGE AND ADMINISTRATION).

While studies have not been conducted in patients with end-stage renal disease, hemodialysis is not expected to significantly enhance clearance of atorvastatin and/or amlodipine since both drugs are extensively bound to plasma proteins.

Hepatic Insufficiency

Studies with amlodipine: Elderly patients and patients with hepatic insufficiency have decreased clearance of amlodipine with a resulting increase in AUC of approximately 40-60%, and a lower initial decrements be annulated. dose may be required.

Studies with atorvastatin: In patients with chronic alcoholic liver disease, plasma concentrations of atorvastatin are markedly increased. Cmax and AUC are each 4-fold greater in patients with Childs-Pugh A disease. Cmax and AUC of atorvastatin are approximately 16-fold and 11-fold increased, respectively, in patients with Childs-Pugh B disease (see CONTRAINDICATIONS).

Heart Failure

Studies with amlodipine: In patients with moderate to severe heart failure, the increase in AUC for amlodipine was similar to that seen in the elderly and in patients with hepatic insufficiency.

Pharmacodynamics

Pharmacodynamics Hemodynamic Effects of Amlodipine: 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 administration of oral amlodipine in clinical trials did not lead to clinically significant changes in heart rate or blood pressures in normotensive patients with angina. with angina.

With chronic once daily oral administration of amlodipine, antihypertensive effectiveness is maintained With circuite orice daily of a daministration of a minoippine, antimypertensive effectiveness is maintained for at least 24 hours. Plasm 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 pretreat-ment elevation; thus, individuals with moderate hypertension (diastolic pressure 90-104 mmHg). Normotensive subjects experienced no clinically significant change in blood pressures 90-104 mmHg). Lob but actions actionate in the compared functions of the compared function of the compared function. 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.

pressina row winnout criange in nurration fraction of proteinuna. 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 co-administered 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.

significant negative inotropic effects. Electrophysiologic Effects of Amlodipine: 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 in consider suburs in which announper was dummatical in combination where outs bioconcis to parameters where with either hyperfension or angina, no adverse effects on electrocardiographic parameters were observed. In clinical trials with angina patients alone, amlodipine therapy did not alter electrocardio graphic intervals or produce higher degrees of AV blocks.

LDL-C Reduction with Alorvastatin: Atorvastatin as well as some of its metabolites are pharmacologically active in humans. The liver is the primary site of action and the principal site of cholesterol synthesis and LDL clearance. Drug dosage arather than systemic drug concentration correlates better with LDL-C reduction. Individualization of drug dosage should be based on therapeutic response (see **DOSAGE AND** ADMINISTRATION).

Clinical Studies

Clinical Studies with Amlodinine

Amlodipine Effects in Hypertension

Amlodipine 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 126 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 doses, dose response studies showed that the reduction in supine and standing blood pressures was dose-related within the recommended dosing range. Effects on distolic 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. <u>Pediatric Patients</u>: Two-hundred sixty-eight hypertensive patients and in white patients. <u>Pediatric Patients</u>: Wo-hundred sixty-eight hypertensive patients and in white patients. <u>Pediatric Patients</u>: No-hundred sixty-eight hypertensive patients and in white patients. <u>Pediatric Patients</u>: No-hundred sixty-eight hypertensive patients and in white patients. <u>Pediatric Patients</u>: No-hundred sixty-eight hypertensive patients and on the same dose or to placebo for another 4 weeks. Patients receiving 5 mg antoldipine at the end 6 8 weeks had lower blood pressure than those secondarily randomized to placebo. The magnitude of the treatment effect is wifficult 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.

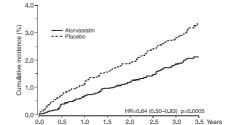
mlodipine Effects in Chronic Stable Angina: The effectiveness of 5-10 mg/day of amlodipine in exercise

endpoint of all-cause mortainly and cardiac morbiolity (as defined by lite-threatening arrhythmia, acute myocardial infraction, 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 dosse 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. *Clinical Studies with BAroxestatin* Clinical Studies with Atorvastatin

Clinical Studies with Alorvastatin Prevention of Cardiovascular Disease: In the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT), the effect of atorvastatin on fatal and non-fatal coronary heart disease was assessed in 10,305 hypertensive patients 40-80 years of age (mean of 63 years), without a previous myocardial infarction and with TC levels .257 mg/dl (6.5 mmol/). Additionally al) patients had at least 3 of the following cardiovascular risk factors: male gender (81.1%), age .55 years (84.5%), smoking (33.2%), diabetes (24.3%), history of CHD in a first-degree relative (26%), TC:HDL >6 (14.3%), peripheral vascular disease (5.1%), left ventricular hypertrophy (14.4%), prior cerebrovascular event (9.8%), specific ECG abnormality (14.3%), proteinuria/albuminuria (62.4%)]. In this double-blind, placebo-controlled study patients were treated with anti-hypertensive theray (Goal BP <14090 mm Hg for non-disetic patients, 13.0800 mm Hg for diabetic patients) and allocated to either atorvastatin 10 mg daily (m-5168) or placebo (n-5137), using a covariate adaptive method which took into account the distribution of nine baseline characteristics of patients were followed for a median duration of 3.3 years. The effect of 10 mg/day of atorvastatin on lipid levels was similar to that seen in previous clinical trials.

Patients were rollowed for a median duration of 3.3 years. The effect of 10 mg/day of advorsatation on lipid levels was similar to that seen in previous clinical trials. Atorvastatin significantly reduced the rate of coronary events [either fatal coronary heart disease (46 events in the placebo group vs 40 events in the atorvastatin group) or nonfatal MI (108 events in the placebo group vs 60 events in the atorvastatin group) with a relative risk reduction of 30% [(based on incidences of 1.9% for atorvastatin vs 3.0% for placebo), p=0.0005 (see Figure 3)]. The risk reduction was consistent regardless of age, smoking status, obesity or presence of renal dysfunction. The effect of atorvastatin was seen regardless of baseline LDL levels. Due to the small number of events, results for women were inconclusive

Figure 3: Effect of Atorvastatin 10 mg/day on Cumulative Incidence fatal Myocardial Infarction or Coronary Heart Disease Death (in ASCOT-LLA) of Nonfata



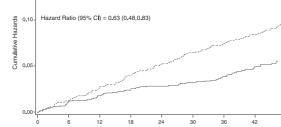
Atorvastatin also significantly decreased the relative risk for revascularization procedures by 42% ough the reduction of fatal and non-fatal strokes did not reach a pre-defined significance (p 0.01), a favorable trend was observed with a 26% relative risk reduction (incidences of 1.7% for atorvastatin and 2.3% for placebo). Three was no significant difference between the treatment groups for death due to cardiovascular cause (p=0.51) or non-cardiovascular causes (p=0.17).

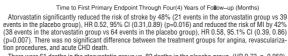
In the Collaborative Atorvastatin Diabetes Study (CARDS), the effect of atorvastatin on cardiovascular disease (CVD) endpoints was assessed in 2838 subjects (94% White, 68% male), ages 40-75 with disease (CVD) endpoints was assessed in 2838 subjects (94% White, 68% male), ages 40-75 with type 2 diabetes based on WHO criteria, without prior history of cardiovascular disease and with LDL ±160 mg/dL and TG ±600 mg/dL. In addition to diabetes, subjects had 1 or more of the following risk factors: current smoking (23%), hypertension (80%), teritonpathy (30%), or micraBuminuria (9%), or macroalbuminuria (3%). No subjects on hemodialysis were enrolled in the study. In this multicenter, placebo-controlled, double-blind clinical trial, subjects were randomly allocated to either atorvastatin 10 mg daily (1429) or placebo (1411) in a 1: ratio and were followed for a median duration of 3.9 years. The primary endpoint was the occurrence of any of the major cardiovascular events: myocardial infrarction, acute CHD death, unstable angina, coronary revascularization, or stroke. The primary analysis was the time to first occurrence of the primary endpoint. Baseline of subjects were, mean page of 62 ware, mean blb4, 7.7%; madian LDL c

was the time to first occurrence of the primary endpoint. Baseline characteristics of subjects were: mean age of 62 years, mean HbA_{1c} 7.7%; median LDL-C 120 mg/dL; median TC 207 mg/dL, median TG 151 mg/dL; median HDL-C 52mg/dL. The effect of atorvastatin 10 mg/day on lipid levels was similar to that seen in previous clinical trials. Atorvastatin significantly reduced the rate of major cardiovascular events (primary endpoint events) (83 events in the atorvastatin group vs 127 events in the placebo group) with a relative risk reduction of 37%. HR 0.63, 95% Cl (0.480, 83) (we 0.001) (see Figure 4). An effect of atorvastatin was seen regardless of age, sex, or baseline lipid levels.

Je, sex, or baseline inporteves. Figure 4. Effect of Altorvastatin 10 mg/day on Time to Occurrence of Major Cardiovascular Events (myocardial infarction, acute CHD death, unstable angina, coronary revascularization, or stroke) in CARDS.

0.15 ---- Placebo nent Group -Atorvastatin





tion procedures, and acute CHD death. There were 61 deaths in the adroxastian group vs. 82 deaths in the placebo group, (HR 0.73, p=0.059). In the Treating to New Targets Study (TNT), the effect of LIPTOR 80 mg/day vs. LIPITOR 10 mg/day on the reduction in cardiovascular events was assessed in 10,001 subjects (94% white, 81% male, 38% -859 years) with clinically evident coronary heart disease who had achieved a target LDL-C level <130 mg/dL after completing an 8-week, open-label, run-in period with LIPITOR 10 mg/day. Subjects were randomly assigned to either 10 mg/day or 80 mg/day of LIPITOR and followed for a median dura-tion of 4.9 years. The primary endpoint was the time-to-first occurrence of any of the following major cardiovascular events (MCVC), death due to CHD, non-talt myocardial infarction, resuscitated cardiac arrest, and fatal and non-fatal stroke. The mean LDL-C, TC, TG, non-HDL and HDL cholesterol levels at 12 weeks were 73 16.128 & and 47 mg/dL during transment with more of LIPITOR and 0.012 weeks week for the following and the strenge of the 12 weeks were 73, 145, 128, 98 and 47 mg/dL during treatment with 80 mg of LIPITOR and 99, 177, 152, 129 and 48 mg/dL during treatment with 10 mg of LIPITOR.

Treatment with LIPITOR 80 mg/day significantly reduced the rate of MCVE (434 events in the 80 mg/day group vs 548 events in the 10 mg/day group) with a relative risk reduction of 22%, HR 0.78, 95% CI (0.69,0.89), p=0.0002 (see Figure 5 and Table 3). The overall risk reduction was consistent

s of age (<65, ≥65) or gende Figure 5. Effect of LIPITOR 80 mg/day vs.10 mg/day on Time to Occurrence of



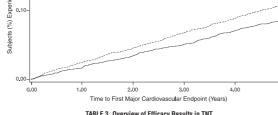


TABLE 3. O Endpoint			HR ^a (95%CI)		
Endpoint	Atorvastatin 10 mg Atorvastatin 80 r (N=5006) (N=4995)				
PRIMARY ENDPOINT	n	(%)	n	(%)	
First major cardiovascular endpoint	548	(10.9)	434	(8.7)	0.78 (0.69, 0.89)
Components of the Primary Endpoint					
CHD death	127	(2.5)	101	(2.0)	0.80 (0.61, 1.03)
Nonfatal, non-procedure related MI	308	(6.2)	243	(4.9)	0.78 (0.66, 0.93)
Resuscitated cardiac arrest	26	(0.5)	25	(0.5)	0.96 (0.56, 1.67)
Stroke (fatal and non-fatal)	155	(3.1)	117	(2.3)	0.75 (0.59, 0.96)
SECONDARY ENDPOINTS*					

	Placebo	Atorvastatin 10 mg	Atorvastatin 20 mg	Atorvastatin 80 mg
	(N=12)	(N=37)	(N=13)	(N=14)
Triglycerides	-12.4 (-36.6, 82.7)	-41.0 (-76.2, 49.4)	-38.7 (-62.7, 29.5)	-51.8 (-82.8, 41.3)
Total-C	-2.3 (-15.5, 24.4)	-28.2 (-44.9, -6.8)	-34.9 (-49.6, -15.2)	-44.4 (-63.5, -3.8)
LDL-C	3.6 (-31.3, 31.6)	-26.5 (-57.7, 9.8)	-30.4 (-53.9, 0.3)	-40.5 (-60.6, -13.8)
HDL-C	3.8 (-18.6, 13.4)	13.8 (-9.7, 61.5)	11.0 (-3.2, 25.2)	7.5 (-10.8, 37.2)
VLDL-C	-1.0 (-31.9, 53.2)	-48.8 (-85.8, 57.3)	-44.6 (-62.2, -10.8)	-62.0 (-88.2, 37.6)
non-HDL-C	-2.8 (-17.6, 30.0)	-33.0 (-52.1, -13.3)	-42.7 (-53.7, -17.4)	-51.5 (-72.9, -4.3)
crossover study	of atorvastatin in 1	oteinemia (Fredricks 6 patients (genotype /pe III) are shown in t	on Type III): The resu es: 14 apo E2/E2 and he table below.	Its of an open-labe 1 2 apo E3/E2) with

Table 7. Open-Label Crossover Study of 16 Patients nemia (*Fredrickson* Type III

		Median % Char	ige (min, max)
	Median (min, max) at Baseline (mg/dL)	Atorvastatin 10 mg	Atorvastatin 80 mg
Total-C	442 (225, 1320)	-37 (-85, 17)	-58 (-90, -31)
Triglycerides	678 (273, 5990)	-39 (-92, -8)	-53 (-95, -30)
IDL-C + VLDL-C	215 (111, 613)	-32 (-76, 9)	-63 (-90, -8)
non-HDL-C	411 (218, 1272)	-43 (-87, -19)	-64 (-92, -36)

A torvastatin Effects in Homozygous Familial Hypercholesterolemia: In a study without a concurrent control group, 29 patients ages 6 to 37 years with homozygous FH received maximum daily doses of 20 to 80 mg of atorvastatin. The mean IDL-C reduction in this study was 18%. Twenty-five patients with a reduction in IDL-C had a mean response of 20% (range of 7% to 53%, median of 24%); the remaining 4 patients had 7% to 24% increases in IDL-C. Five of the 29 patients had absent IDL-receptor function. 07 these, 2 patients also had a portacaval shunt and had no significant reduction in LDL-C. The remaining 3 receptor-negative patients had a mean LDL-C reduction of 22%.

remaining 3 receptor-negative patients had a mean LDL-C reduction of 22%. Atorvastatin Effects in Heterozygous Familial Hypercholesterolemic Pediatric Patients: In a double-blind, placebo-controlled study followed by an open-label phase, 187 boys and postmenarchal girls 10-17 years of age (mean age 14.1 years) with heterozygous FH or severe hypercholesterolemia were randomized to atorvastatin (n=140) or placebo (n=47) for 26 weeks and then all received atorvastatin for 26 weeks. Inclusion in the study required 1) a baseline LDL-C level ≥190 mg/dL or 2) a baseline LDL-C ≥160 mg/dL and positive family history of FH or documented premature cardiovascular disease in a first- or second-degre relative. The mean baseline LDL-C value was 218 6 mg/dL (range: 138.536.1 mg/dL) in the atorvastatin group compared to 230.0 mg/dL (range: 186.0-324.5 mg/dL) in placebo group. The dosage of atorvastatin (noce daily) was 10 mg for the first 4 weeks and up-tirteat to 20 mg if the LDL-C level was > 130 mg/dL. The number of atorvastatin-treated patients who required up-tirtation to 20 mg atter Week 4 during the double-blind phase was 80 (67.1%). Atorvastatin significantly decreased plasma levels of total-C, LDL-C, L-C, triglycerides, and apolipoprotein B

Atorvastatin significantly decreased plasma levels of total-C, LDL-C, triglycerides, and apolipoprotein B Juring the 26 week double-blind phase (see Table 8). Table 8. Linid-alterine Freder et al. Table 8. Lipid-altering Effects of Atorvastatin in Adolescent Boys and Girls with Heterozygous

Familial Hypercholesterolemia or Severe Hypercholesterolemia

(Mean Percent Change from Baseline at Endpoint in Intention-to-Treat Population)									
DOSAGE	N	Total-C	LDL-C	HDL-C	TG	Apolipoprotein B			
Placebo	47	-1.5	-0.4	-1.9	1.0	0.7			
Atorvastatin	140	-31.4	-39.6	2.8	-12.0	-34.0			

The mean ac compared to 2							
blind phase.							

The safety and efficacy of atorvastatin doses above 20 mg have not been studied in controlled trials in hildren. The long-term efficacy of atorvastatin therapy in childhood to reduce morbidity and mortality in dulthood has not been established.

Clinical Study of Combined Amlodipine and Atorvastatin in Patients with Hypertension and Dyslipidemia In a double-blind, placebo-controlled study, a total of 1660 patients with co-morbid hypertension and In a double-bilnd, placebo-controlled study, a total of 1660 patients with co-morbid hypertension and dyslipidemia received once daily treatment with eight dose combinations of amlodipine and atorvastatin (5/10, 10/10, 5/20, 10/20, 5/40, 10/40, 5/80, or 10/80 mg), amlodipine alone (5 mg or 10 mg), atorvastatin alone (10 mg, 20 mg, 40 mg or 80 mg) or placebo. In addition to concomitant hypertension and dyslipidemia, 15% of the patients had diabetes mellitus, 22% were smokers and 14% had a positive family history of cardiovascular disease. At eligit weeks, all eight combination-treatment groups of amlodipine and atorvastatin demonstrated statistically significant dose-related reductions in systolic blood pressure (SBP), diastolic blood pressure (DBP) and LDL-C compared to placebo, with no overall modification of effect of either component on SBP, DBP and LDL-C (Stel 9). **Table 9. Efficacy in Terms of Reduction in Blood Pressure and LDL-C Fificaex of the Combined Teratemets in Reduction Rycline RP**

Efficacy of the Combined Treatments in Reducing Systolic BF

Paramete	Parameter / Analysis		ATO 10 mg	ATO 20 mg	ATO 40 mg	ATO 80 n
AML 0 mg	Mean change (mmHg)	-3.0	-4.5	-6.2	-6.2	-6.4
	Difference versus placebo (mmHg)	-	-1.5	-3.2	-3.2	-3.4
AML 5 mg	Mean change (mmHg)	-12.8	-13.7	-15.3	-12.7	-12.2
	Difference versus placebo (mmHg)	-9.8	-10.7	-12.3	-9.7	-9.2
AML 10 mg	Mean change (mmHg)	-16.2	-15.9	-16.1	-16.3	-17.6
-	Difference versus placebo (mmHg)	-13.2	-12.9	-13.1	-13.3	-14.6

ATO 0 mg ATO 10 mg ATO 20 mg ATO 40 mg ATO 80 mg Parameter / Analysis

AML 0 mg	Mean change (mmHg)	-3.3	-4.1	-3.9	-5.1	-4.1
	Difference versus placebo (mmHg)	-	-0.8	-0.6	-1.8	-0.8
AML 5 mg	Mean change (mmHg)	-7.6	-8.2	-9.4	-7.3	-8.4
	Difference versus placebo (mmHg)	-4.3	-4.9	-6.1	-4.0	-5.1
AML 10 mg	Mean change (mmHg)	-10.4	-9.1	-10.6	-9.8	-11.1
	Difference versus placebo (mmHg)	-7.1	-5.8	-7.3	-6.5	-7.8
Efficacy of	the Combined Trea	tments in Red	ucing LDL-C (% change)		
Paramet	er / Analysis	ATO 0 mg	ATO 10 mg	ATO 20 mg	ATO 40 mg	ATO 80 mg

Parameter / Analysis		ATO 0 mg	ATO 10 mg	ATO 20 mg	ATO 40 mg	ATO 80 mg
AML 0 mg	Mean % change	-1.1	-33.4	-39.5	-43.1	-47.2
AML 5 mg	Mean % change	-0.1	-38.7	-42.3	-44.9	-48.4
AML 10 mg	Mean % change	-2.5	-36.6	-38.6	-43.2	-49.1
INDICATIONS AND USAGE						

CADUET (amlodipine and atorvastatin) is indicated in patients for whom treatment with both amlodipine and atorvastatin is appropriate.

1. Hypertension: Amlodipine is indicated for the treatment of hypertension. It may be used alone

- in combination with other antihypertensive agents; 2. Coronary Artery Disease (CAD)
- Chronic Stable Angina: Amlodinine is indicated for the treatment of chronic stable angina. Amlodinine <u>Containe Stable Angina</u>, Annoupine is noncated on the treatment of circlinic stable angina. Annoupine may be used alone or in combination with other antianginal or anth/pertensive agents; <u>Vasospastic Angina (Prinzmetal's or Variant Angina)</u>; Amlodipine is indicated for the treatment of confirmed or suspected vasospastic angina. Amlodipine may be used as monotherapy or in combination with other antianginal drugs.

community intro managinate organ. Anglographically Documented CAD: In patients with recently documented CAD by angiography and without heart failure or an ejection fraction <40%, amlodipine is indicated to reduce the risk of hospitalization due to angina and to reduce the risk of a coronary revascularization procedure.

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1. Prevention of Cardiovascular Disease: In adult patients without clinically evident coronary heart disease, but with multiple risk factors for coronary heart disease such as age, smoking hypertension, low HDL-C, or a family history of early coronary heart disease, atorvastatin is indicated to:

Reduce the risk of myocardial infarction

Reduce the risk of stroke Reduce the risk for revascularization procedures and angina

neurous the risk to interactional processing and angular In patients with type 2 diabetes, and without clinically evident coronary heart disease, but with multiple risk factors for coronary heart disease such as retinopathy, albuminuria, smoking, or hypertension, UPITOR is indicated to:

- Reduce the risk of myocardial infarction
- Reduce the risk of stroke;
- In patients with clinically evident coronary heart disease, LIPITOR is indicated to: Reduce the risk of non-fatal myocardial infarction

- Reduce the risk of fatal and non-fatal stroke Reduce the risk of hospitalization procedures Reduce the risk of hospitalization for CHF Reduce the risk of angina

2. Heterozvoous Familial and Nonfamilial Hypercholesterolemia: Atorvastatin is indicated as an

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. a studies, significant increases in exercise time (orcycle of readinin) were seen with the to ing 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 seg-ment 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).

13	SECONDARY ENDPOINTS*						
ie e.	First CHF with hospitalization	164	(3.3)	122	(2.4)	0.74 (0.59, 0.94)	
id	First PVD endpoint	282	(5.6)	275	(5.5)	0.97 (0.83, 1.15)	
1-	First CABG or other coronary	904	(18.1)	667	(13.4)	0.72 (0.65, 0.80)	
ie	revascularization procedure ^b						
10	First documented angina endpoint ^b	615	(12.3)	545	(10.9)	0.88 (0.79, 0.99)	
	All cause mortality	282	(5.6)	284	(5.7)	1.01 (0.85, 1.19)	

adjunct to diet to reduce elevated total-C. LDL-C. apo B. and TG levels and to increase HDL-C in patients with primary hypercholesterolemia (heterozygous familial and nonfamilial) and mixed dyslipidemia (*Fredrickson* Types IIa and IIb);

Elevated Serum TG Levels: A torvastatin is indicated as an adjunct to diet for the treatment of patients with elevated serum TG levels (*Fredrickson* Type IV);

 Primary Dysbetalipoproteinemia: Atorvastatin is indicated for the treatment of patients with imary dysbetalipoproteinemia (Fredrickson Type III) who do not respond adequately to die

CADUET® (amlodipine besvlate/

atorvastatin calcium) Tahlets

INDICATIONS AND USAGE (continued)

- 5. Homozygous Familial Hypercholesterolemia: Atorvastatin is indicated to reduce total-C and LDL-C in patients with homozygous familial hypercholesterolemia as an adjunct to other lipid-lowering treatments (e.g., LDL apheresis) or if such treatments are unavailable;
- Pediatric Patients: Atorvastatin is indicated as an adjunct to diet to reduce total-C, LDL-C, and apo B levels in boys and postmenarchal girls, 10 to 17 years of age, with heterozygous familial hypercholesterolemia if after an adequate trial of diet therapy the following findings are present:
 - LDL-C remains ≥190 mg/dL or

b) LDL-C remains ≥160 mg/dL and:
 there is a positive family history of premature cardiovascular disease or
 two or more other CVD risk factors are present in the pediatric patients.

Therapy with lipid-altering agents should be a component of multiple-risk-factor intervention in individ-uals at increased risk for atheroscierotic vascular disease due to hypercholesterolemia. Lipid-altering agents should be used, in addition to a diet restricted in saturated rat and cholesterol, only when the response to diet and other nonpharmacological measures has been inadequate (see National Cholesterol Education Program (IVCEP) Guidelines, summarized in Table 10). Table 10. NCEP Treatment Guidelines; LDL-C Goals and Cutpoints for Therapeutic Lifestyle Changes

and Drug Therapy in Different Risk Categories									
		LDL-C Level at Which to	LDL-C Level at Which to						
	LDL-C Goal	Initiate Therapeutic	Consider						
Risk Category	(mg/dL)	Lifestyle Changes (mg/dL)	Drug Therapy (mg/dL)						
CHD ^a or CHD risk									
equivalents	<100	≥100	≥130						
(10-year risk >20%)			(100-129: drug optional) ^b						
2+ Risk Factors	<130	≥130	10-year risk 10%-20%: ≥130						
(10-year risk ≤20%)			10-year risk <10%: ≥160						
0-1 Risk Factor ^c	<160	≥160	≥190						
			(160-189: DI -lowering						

^a CHD, coronary heart disease
^b Some authorities recommend use of LDL-lowering drugs in this category if an LDL-C level of <100 mg/dL cannot be achieved by therapeutic lifestyle changes. Others prefer use of drugs that primarily modify triglycerides and HDL-C, e.g., nicolinic acid or fbrate. Clinical judgment also may call for deterring drug therapy in this subcategory.</p>
^c Almost all people with 0-1 risk factor have 10-year risk <10%; thus, 10-year risk assessment in people with 0-1 risk</p>

drug optional)

After the LDL-C goal has been achieved, if the TG is still ≥ 200 mg/dL, non-HDL-C (total-C minus HDL-C) as a secondary target of therapy. Non-HDL-C goals are set 30 mg/dL higher than LDL-C goals for each risk category

Prior to initiating therapy with atorvastatin, secondary causes for hypercholesterolemia (e.g. poor

Prior to initiating therapy with atorvastatin, secondary causes for hypercholesterolemia (e.g., poorly controlled diabetes mellitus, hypothyroidism, nephrotic syndrome, dysproteinemias, obstructive liver disease, other drug therapy, and alcoholism) should be excluded, and a lipid profile performed to measure total-C, LDL-C, and TG. For patients with TG <400 mg/dL (<4.5 mmol/L), LDL-C can be esti-mated using the following equation: LDL-C to tal-C + 0.20x TG] + HDL-C). For TG levels >400 mg/dL (>4.5 mmol/L), this equation is less accurate and LDL-C concentrations should be determined buttereactive time to the set of by ultracentrifugation The antidyslipidemic component of CADUET has not been studied in conditions where the major

ein abnormality is elevation of chylomicrons (Fredrickson Types I and V). The NCEP classification of cholesterol levels in pediatric patients with a familial history of hypercholesmia or premature cardiovascular disease is summarized below

Table 11. NCEP Classification of Cholesterol Levels in Pediatric Patient

Category	Total-C (mg/dL)	LDL-C (mg/dL)
Acceptable	<170	<110
Borderline	170-199	110-129
High	≥200	≥130

CONTRAINDICATIONS

CADUET contains atorvastatin and is therefore contraindicated in patients with active liver disease or unexplained persistent elevations of serum transaminases. CADUET is contraindicated in patients with known hypersensitivity to any component of this medication.

Pregnancy and Lactation

Pregnancy and Lactation Atherosclerosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hypercholesterolemia. Cholesterol and other products of cholesterol biosynthesis are essential components for fetal development (including synthesis of steroids and cell membranes). Since HMG-CoA reductase inhibitors decrease cholesterol synthesis and possible the synthesis of other biologically active substances derived from cholesterol, hwy may cause fetal harm when administered to pregnant women. Therefore, HMG-CoA reductase inhibitors are contraindicated during pregnancy and in nursing mothers. CADUET, WHICH INCLUDES ATORVASTATIN, SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNLIKELY TO CONCEIVE AND HAVE BEEN INFORMED OF DIF POTENTIAL HAZARDS. If the patient becomes pregnant while taking this drug, therary should be THE POTENTIAL HAZARDS. If the patient becomes pregnant while taking this drug, therapy should be discontinued and the patient apprised of the potential hazard to the fetus.

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 inflarction starting calcium channel blocker therapy or at the time of dosage increase. The mechanism of this effect has not been elucidated

WARNINGS

Liver Dysfunction

HMG-CoA reductase inhibitors, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function. Persistent elevations (-3 times the upper limit of normal [ULN] occurring on 2 or more occasions) in serum transminases occurred in 0.7% of patients who received atorvastatin in clinical trials. The incidence of these abnormalities was 0.2%, 0.2%, 0.6%, and 2 % (cf. 10, 20, 40, and 40, or carectivable).

received atorvastatin in clinical trials. The incidence of these abnormalities was U.2%, U.2%, U.2%, and 2.3% for 10, 20, 40, and 80 mg, respectively. In clinical trials in patients taking atorvastatin the following has been observed. One patient in clinical trials developed jaundice. Increases in liver function tests (LFT) in other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transminase levels returned to or near pretratment levels without sequelae. Eighteen of 30 patients, with persistent LFT elevations continued treatment with a reduced dose of atorvastatin. een of

• December 1 is recommended that lives interview of the performance of the advantage of the transmission of the advantage who develop increased trans nase levels should be monitored until the abnor Should an increase in ALT or AST of >3 times ULN persist, reduction of dose or withdrawal of CADUE

CADUET should be used with caution in patients who consume substantial quantities of alcohol and/o have a history of liver disease. Active liver disease or unexplained persistent transaminase elevations are contraindications to the use of CADUET (see **CONTRAINDICATIONS**).

celetal Muscl

Rare cases of rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with the atorvastatin component of CADUET and with other drugs in the HMG-CoA reductase reported with a inhibitor class.

CADUET® (amlodipine besylate/ atorvastatin calcium) Tablets

PRECAUTIONS (C

considered when selecting an oral contraceptive for a woman taking CADUET Warfarin: Atorvastatin had no clinically significant effect on prothrombin time when administered to

nts receiving chronic warfarin treatment. Amlodipine: In a drug-drug interaction study in healthy subjects, co-administration of atorvastatin 80 mg and amlodipine 10 mg resulted in an 18% increase in exposure to atorvastatin which was not clinically meaningful

Drug/Laboratory Test Interactions

None known Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies

les with and/othpine: Rats and mice treated with amlodipine maleate in the diet for up to two years, at entrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 mg amlodipine/kg/day, ved no evidence of a carcinogenic effect of the drug. For the mouse, the highest dose was, on a n² basis, similar to the maximum recommended human dose of 10 mg amlodipine/day². For the rat, the highest dose level was, on a mg/m² basis, about twice the maxi im recom nan dose

Mutagenicity studies conducted with amlodipine maleate revealed no drug related effects at either the gene or chro some levels.

There was no effect on the fertility of rats treated orally with amlodinine maleate (males for 64 days and

There was no effect on the fertility of rats treated orally with amiodipine maleate (males for 64 days and females for 14 days prior to mating) at doses up to 10 mg amiodipine/kg/day (8 times* the maximum recommended human dose of 10 mg/day on a mg/m² basis). *Studies with atorvastatin*: In a 2-year carcinogenicity study with atorvastatin calcium in rats at dose levels equivalent to 10, 30, and 100 mg atorvastatin/kg/day. 2 rate tumors were found in muscle in high-dose females: in one, there was a rhabdomyosarcoma and, in another, there was a fibrosarcoma. This dose represents a plasma AUC (0-24) value of approximately 16 times the mean human plasma drug exposure after an 80 mg oral dose.

A 2-year carcinogenicity study in mice given atorvastatin calcium at dose levels equivalent to 100, 200, and 400 mg atorvastatin/kg/day resulted in a significant increase in liver adenomas in high-dose males and liver carcinomas in high-dose females. These findings occurred at plasma AUC (0-24) values of approximately 6 times the mean human plasma drug exposure after an 80 mg oral dose.

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hamster lung cells. Atorvastatin was negative in the *in vivo* mouse micronucleus test. There were no effects on fertility when rats were given atorvastatin calcium at dosse equivalent to up to 175 mg atorvastatin/kg/day (15 times the human exposure). There was aplasia and aspermia in the epididymides of 2 of 10 rats treated with atorvastatin calcium at a dose equivalent to 100 mg atorvastatin/kg/day tor 3 months (16 times the human AUC at the 80 mg dose); testis weights were significantly lower at 30 and 100 mg/kg/day and epididymal weight was lower at 100 mg/kg/day. Male rats given the equivalent of 100 mg atorvastatin/kg/day tor 11 weeks prior to mating had decreased sperm motility, spermatid head concentration, and increased ahormal sperm. Atorvastatin caused no adverse effects on semen parameters, or reproductive organ histopathology in dogs given doses of atorvastatin calcium equivalent to 10, 40, or 120 mg atorvastatin/kg/day for two years. "Based on patient weight of 50 kg.

Pregnancy Pregnancy Category X (see CONTRAINDICATIONS)

Safety in pregnant women has not been established with CADUET. CADUET should be administered to women of child-bearing potential only when such patients are highly unlikely to conceive and have been med of the potential hazards. If the woman becomes pregnant while taking CADUET, it should be ontinued and the patient advised again as to the potential hazards to the fetus.

discontinued and the patient advised again as to the potential nazards to the fetus. Studies with amidolipine: No evidence of treatogenicity or other embryo/fetal toxicity was found when pregnant rats and rabbits were treated orally with amidolipine maleate at doses up to 10 mg amiodipine/kg/day (respectively 8 times* and 23 times* the maximum recommended human dose of 10 mg/day on a mg/m* 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 amidolipine maleate at 10 mg and/api for 14 days before mating and throughout mating and gestation. Amiodipine 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.

Based on patient weight of 50 kg. Studies with atorvastatin: Atorvastatin crosses the rat placenta and reaches a level in fetal live

Studies with atorvastatin: Atorvastatin crosses the rat placenta and reaches a level in fetal liver equivalent to that of maternal plasma. Atorvastatin was not teratogenic in rats at doses of atorvastatin calcium equivalent to up to 300 mg atorvastatin/kg/day or in rabbits at doses of atorvastatin calcium equivalent to up to 100 mg atorvastatin/kg/day. These doses resulted in multiples of about 30 times (rat) or 20 times (rabbit) the human exposure based on surface area (mg/m³). In a study in rats given atorvastatin calcium at doses equivalent to 20, 100, or 225 mg atorvastatin/kg/day, from gestation day 7 through to lactation day 21 (weaning), there was decreased pup survival at birth, neonate, weaning, and maturity for pups of mothers dosed with 225 mg/kg/day; Dup dovelopment was delayed (rotorod performance at 100 mg/kg/day and acoustic startle at 225 mg/kg/day. Pup development was delayed (rotorod performance at 100 mg/kg/day). These doses of atorvastatin correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg/day). These doses of atorvastatin correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg/day) the human AUC at 80 mg/day.

Rare reports of congenital anomalies have been received following intrauterine exposure to HMG-CoA Interface and the second secon

Labor and Delivery

No studies have been conducted in pregnant women on the effect of CADUET, amlodipine or atorvas on the mother or the fetus during labor or delivery, or on the duration of labor or delivery. Amlod has been shown to prolong the duration of labor in rats. Nursing Mothers

It is not known whether the amlodinine component of CADUET is excreted in human milk. Nursing rai

Pediatric Use

ere have been no studies conducted to determine the safety or effectiveness of CADUET in pediatric

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

Studies with atorvastatin: Safety and effectiveness in patients 10-17 years of age with heterozygous Subjects with address and set of the end effectiveness in patients 10-17 years or age with heterozygous familial hypercholesterolemia have been evaluated in controlled clinical trials of 6 months duration in adolescent boys and postmenarchal girls. Patients treated with atorvastatin had an adverse experiences profile generally similar to that of patients treated with placebo, the most common adverse experiences observed in both groups, regardless of causality assessment, were infections. **Doses greater than 20 mg have not been studied in this patient population**. In this limited controlled study, there was no detectable effect on growth or sexual maturation in boys or on menstrual cycle length in girls. See **CLINICAL PHARMACOLOGY, Clinical Studies** section; **ADVERSE REACTIONS**, *Pediatric Patients*; and **DOSAGE AND ADMINISTRATION**, *Pediatric Patients*; (10-17 years of age) with Heterozygous Familial *Hypercholesterolemia*. Adolescent females should be counseled on appropriate contracentive methods. vith Heterozygous Familial iate contraceptive methods sterolemia. Adolescent fe nales should be co led on an le on atorvastatin therapy (see CONTRAINDICATIONS and PRECAUTIONS, Pregnancy). Atorvastatin n studied in c ical trials invo

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ADVERSE REACTIONS (continued

Inglo-Scandinavian Cardiac Outcomes Trial (ASCOT) In ASCOT (see CLINICAL PHARMACOLOGY, Clinical Studies, Clinical Studies with Atorvastatin involving 10,305 participants treated with atorvastatin 10 mg daily (n=5,168) or placebo (n=5,137), the safety and tolerability profile of the group treated with atorvastatin was comparable to that of the group

treated with placebo during a median of 3.3 years of follow-up. Collaborative Atorvastatin Diabetes Study (CARDS)

In CARDS (see **CLINICAL PHARMACOLOGY**, **Clinical Studies**, *Clinical Studies with Atorvastatin*) involving 2838 subjects with type 2 diabetes treated with LIPITOR 10 mg daily (n=1428) or placebo (n=1410), there was no difference in the overall frequency of adverse events between the treatment groups during a median follow-up of 3.9 years. No cases of rhabdomyolysis were reported

Were reported. Treating to New Targets Study (TNT) In TNT (see CLINICAL PHARMACOLOGY, Clinical Studies) involving 10,001 subjects with clinically evident CHD treated with LIPITOR 10 mg daily (n=5006) or LIPITOR 80 mg daily (n=4995), there were more serious adverse events and discontinuations due to adverse events in the high-dose atorxastatin group (92, 1.8%; 497, 9.9%, respectively) as compared to the low-dose group (69, 1.4%; 404, 8.1%, respectively) during a median follow-up of 4.9 years. Persistent transaminase elevations (23 x ULIN twice within 4-10 days) occurred in 62 (1.3%) individuals with atorxastatin 80 mg and in nine (0.2%) individuals with atorxastatin 10 mg, Elevations of CK (>10 x ULN) were low overall, but were higher in the bib-dose atorxastatin target (and 0.3%) compared to the low-dose atorxastating roup (6.0.1%)

individuals with atórvastatin 10 mg. Elevatións of CK (<10 x ULN) were low overall, Dut were higher in thé high-dose atorvastatin treatment group (13, 0.3%) compared to the low-dose atorvastatin group (6, 0.1%). Incremental Decrease in Endpoints Through Aggressive Lipid Lowering Study (IDEAL) In IDEAL (see CLINICAL PHARMACOLOGY, Clinical Studies) involving 8,888 subjects treated with LIPITOR 80 mg/day (n=4439) or simvastatin 20-40 mg daily (n=4449), there was no difference in the overall frequency of adverse events or serious adverse events between the treatment groups during a median follow-up of 4.8 years. The following adverse events were reported, regardless of causality assessment, in patients treated with atorvastatin in clinical trials. The events in tailes occurred in =2% of patients and the events in plain type occurred in <2% of patients. Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized dema.

Digestive System: Nausea, gastroenteritis, liver function tests abnormal, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, biliary pain, cheilitis, duodenal ulcer, dysphagia, enteritis, melena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatitis, hepatitis, pancreatitis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis.

Nervous System: Insomnia, dizziness, paresthesia, somnolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, ssion, hypesthesia, hypertonia vperkinesia, de

Musculoskeletal System: Arthritis, leg cramps, bursitis, tenosynovitis, myasthenia, tendinous Skin and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, urticaria

Urogenital System: Urinary tract infection, hematuria, albuminuria, urinary frequency, cystitis, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, breast enlargement, metrorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency. mal ejaculation, uterine hemorrhage

Special Senses: Amblyopia, tinnitus, dry eyes, refraction disorder, eye hemorrhage, deafness, glaucoma, parosmia, taste loss, taste perversion. Gauconia, parosina, taste loss, taste perversion. Cardiovascular System: Palpitation, vasodilatation, syncope, migraine, postural hypotension, phlebitis,

Carlowaschar o system - rapinatory, vasounaatory, syncope, imgrane, postura hypotension, pineons, arrhythmia, angina pectoris, hyperfension. Metabolic and Nutritional Disorders: *Peripheral edema*, hyperglycemia, creatine phosphokinase increased, gout, weight gain, hypoglycemia. Hemic and Lymphatic System: Ecchymosis, anemia, lymphadenopathy, thrombocytopenia, petechia.

Postintroduction Reports with Atorvastatin

Adverse events associated with atorvastatin therapy reported since market introduction, that are not listed above, regardless of causality assessment, include the following: anaphylaxis, angioneurotic nece acove, regarines or causainy assessment, include the following: anaphylaxis, angloneurotic edema, bullous rashes (including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis), rhabdomyolysis, fatigue and tendon rupture. Pediatric Patients (ages 10-17 years)

In a 26-week controlled study in boys and postmenarchal girls (n=140), the safety and tolerability profile of atorvastatin 10 to 20 mg daily was generally similar to that of placebo (see CLINICAL PHARMACOLOGY, Clinical Studies section and PRECAUTIONS, Pediatric Use). OVERDOSAGE

There is no information on overdosage with CADUET in

Information on Amlodipine

Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg Single oral objects or almoorphile massade equivalent to voring anticolophile king and roo ing anticolophile king in mice and rats, respectively, caused deaths. Single oral anticolophile mataleat doese equivalent to 4 or more mg anticolophile king in dogs (11 or more times the maximum recommende clinical dose on a mg/m² basis) caused a marked peripheral vascolitation and hypotension.

Overdosage might be expected to cause excessive perioreal vasofilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amloidjine is limited. Reports of intentional overdosage include a patient who ingested 250 mg and was asympto-matic and was not hospitalized; another (120 mg) was hospitalized, underwent gastric lavage and maniend excentions with bid (106 mg vue hospitalized) or the duperturbenies (000 GW). Ic and was not hospitalized; another (120 mg) was hospitalized, underwent gastric lavage and ained normotensive; the third (105 mg) was hospitalized and had hypotension (90/50 mmHg) which malized following plasma expansion. A patient who took 70 mg amlodipine and an unknown quantity enzodiazepine in a suicide attempt developed shock which was refractory to treatment and died the wing day with abnormally high benzodiazepine plasma concentration. A case of accidental drug rdose has been documented in a 19-month-old male who ingested 30 mg amlodipine ut 2 mg/kg). During the emergency room presentation, vital signs were stable with no evidence of otension, but a heart rate of 180 bpm. Ipecac was administered 3.5 hours after ingestion and on sequent observation (overnight) no sequelae were noted.

subsequent observation (overnight) no sequelae were noted. If massive overdose should occur, active cardiac and respiratory monitoring should be instituted. requent blood pressure measurements are essential. Should hypotension occur, cardiovascular support including elevation of the extremities and the judicious administration of fluids should be nitiated. 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.

rmation on Atorvastatin

There is no specific treatment for atorvastatin overdosage. In the event of an overdose, the patient should be treated symptomatically, and supportive measures instituted as required. Due to extensive drug binding to plasma proteins, hemodialysis is not expected to significantly enhance atorvastatin clearance. DOSAGE AND ADMINISTRATION

Dosage of CADUET must be individualized on the basis of both effectiveness and tolerance for each individual component in the treatment of hypertension/angina and hyperlipidemia. Amlodipine (Hypertension or angina)

Adults: The usual initial antihypertensive oral dose of amlodipine 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 to other hypertensive therapy



Caduet amlodipine besylate/atorvastatin calcium from 5mg/10mg to 10mg/8

(CAD-oo-et)

148

Read the patient information that comes with CADUET before you start taking it, and each time you get a refill. There may be new informa-tion. This information does not replace talking with your doctor about your condition or treatment. If you have any questions about CADUET, ask your doctor or pharmacist

What is CADUET?

Norvasc is used to treat:

the family, or

Chest pain (angina) and

smoking, or high blood pressure CADUET has not been studied in children.

leaflet for a complete list of ingredients

• or drink more than 2 glasses of alcohol daily

What should I tell my doctor before taking CADUET? Tell your doctor about all of your health conditions, including, if

Who should not use CADUET?

Do not use CADUET if you:

Have liver problems.

you have:

diabetes

heart disease

thyroid problems

• kidney problems

infections

cholesterol

• muscle aches or weakness

your immune system

show your doctor and pharmacist. How should I take CADUET?

you have a problem swallowing pills.

CADUET at the same time

right away and call your docto

may harm your baby.

CADUET is a prescription drug that combines $\mathsf{Norvasc}^{\circledast}$ (amlodipine besylate) and Lipitor® (atorvastatin calcium) in one pill. CADUET is used in adults who need both Norvasc and Lipitor.

Lipitor is used to lower the levels of "bad" cholesterol and trigly

cerides in your blood. It can also raise the levels of "good " cholesterol. Lipitor is also used to lower the risk for heart attack or stroke in patients who have risk factors for heart disease such as:

age, smoking, high blood pressure, low HDL-C, heart disease in

diabetes with risk factor such as eye problems, kidney problems,

Are pregnant or think you may be pregnant, or are planning to become pregnant, CADUET may harm your unborn baby. If you get

pregnant, stop taking CADUET and call your doctor right away.

may harm your baby. Do not breastfeed if you take CADUET.

Are breastfeeding. CADUET can pass into your breast milk and

• Are allergic to anything in CADUET. The active ingredients are

atorvastatin calcium and amlodipine besylate. See the end of this

Tell your doctor about all the medicines you take including prescription and nonprescription medicines, vitamins and herbal supple ments. CADUET and some other medicines can interact, causing seri

ous side effects. Especially tell your doctor if you take medicines for:

You can use nitroglycerin and CADUET together. If you take nitroglycerin for chest pain (angina), do not stop taking it while taking CADUET.

Know all the medicines you take. Keep a list of them with you to

• Take CADUET once a day, exactly as your doctor tells you. Do not

change your dose or stop CADUET without talking to your doctor. Take CADUET each day at any time of day, at about the same time each day. CADUET can be taken with or without food.

• Do not break the tablets before taking them. Talk to your doctor if

Your doctor should start you on a low-fat diet before giving you CADUET. Stay on this low-fat diet when you take CADUET.

CADUET comes in many different strengths. Your doctor will test

your cholesterol and blood pressure to find the right dose for you.

If you miss a dose, take it as soon as you remember. Do not take

CADUET if it has been more than 12 hours since your missed dose.

Just take the next dose at your regular time. Do not take 2 doses of

If too much CADUET is taken by accident, call your doctor or

Avoid getting pregnant. If you get pregnant, stop taking CADUET

Do not breastfeed. CADUET can pass into your breast milk and

CADUET can cause serious side effects. These side effects happen

only to a small number of people. Your doctor can monitor you for them. These side effects usually go away if your dose is lowered

Muscle problems. CADUET can cause serious muscle problems

that can lead to kidney problems, including kidney failure. You

have a higher chance for muscle problems if you are taking

Liver problems. CADUET can cause liver problems. Your doctor may do blood tests to check your liver before you start taking

you have muscle problems like weakness, tenderness, or pain that happen without a good reason, especially if you also have a

Chest pain that does not go away or gets worse. Sometimes.

when you start CADUET or increase your dose, chest pain can get worse or a heart attack can happen. If this happens, call your doctor

Talk to your doctor or pharmacist about side effects that bother you

There are other side effects of CADUET. Ask your doctor or pharma-

• Store CADUET at room temperature, 68 to 77°F (20 to 25°C). • Do not keep medicine that is out-of-date or that you no longer need.

Keep medicines in places where children cannot get it.

Keep CADUET and all medicines out of the reach of children.

Medicines are sometimes prescribed for conditions that are not

mentioned in patient information leaflets. Do not use CADUET for a condition for which it was not prescribed. Do not give CADUET to

other people, even if they have the same problem you have. It may

This leaflet summarizes the most important information about CADUET. If you want more information, talk with your doctor. Ask your doctor or pharmacist for information about CADUET written for

health professionals. You can also go to the CADUET website at

You have high blood pressure when the force of blood against the

walls of your arteries stays high. This can damage your heart and

other parts of your body. Drugs that lower blood pressure lower your risk of having a stroke or heart attack.

Angina is a pain that keeps coming back when part of your heart

does not get enough blood. It feels like something is pressing or squeezing your chest under the breastbone. Sometimes you can feel

Cholesterol is a fat-like substance made in your body. It is also found

in foods. You need some cholesterol for good health, but too much is not good for you. Cholesterol can clog your blood vessels.

A heart attack occurs when heart muscle does not get enough blood.

Symptoms include chest pain, trouble breathing, nausea, and weak-ness. Heart muscle cells may be damaged or die. The heart cannot

A stroke occurs when nerve cells in the brain do not get enough

blood. The cells may be damaged or die. The damaged cells may

Inactive ingredients: calcium carbonate, croscarmellose sodium

microcrystalline cellulose, pregelatinized starch, polysorbate 80, hydroxypropyl cellulose, pregnamica stater, polyonate oo (anhydrous), magnesium stearate

Film coating: Opadry® II White 85F28751 (polyvinyl alcohol, titanium

dioxide, PEG 3000 and talc) or Opadry® II Blue 85F10919 (polyvinyl

Pfizer Labs

Division of Pfizer Inc. NY. NY 10017

Active ingredients: amlodipine besvlate, atorvastatin calcium

alcohol, titanium dioxide, PEG 3000, talc, and FD&C blue #2)

Distributed by

cause weakness or problems speaking or thinking.

WHAT ARE THE INGREDIENTS IN CADUET?

dizziness

nausea

diarrhea

rash

extreme sleepiness

 \oplus

poison control center, or go to the nearest emerge

What should I avoid while taking CADUET?

What are possible side effects of CADUET?

certain other medicines with CADUET

CADUET and while you take it.

fever or feel more tired than usual you have nausea and vomiting, stomach pain

• you feel more tired than usual your skin and white of your eyes get yellow

or go to the emergency room right away.

Common side effects of CADUET include:

• swelling of your legs or ankles (edema)

· very fast heartbeat (heart palpitations)

General information about CADUET

www.CADUET.com, or call 866-514-0900. What is high blood pressure (hypertension)?

it in your shoulders, arms, neck, jaw, or back.

<u>What is angina (chest pain)?</u>

What is cholesterol?

What is a heart attack?

What is a stroke?

Rx only

Manufactured by:

Dublin, Ireland

23-6043-00-0

LAB-0347-2.0

Issued August 2006

izer

Pfizer Ireland Pharmaceuticals

pump well or may stop beating.

• irregular heartbeat (arrhythmia)

muscle and joint pain

or do not go away.

ponent of CADUET

Engraving Tablet Color

White

White

Blue Blue

Blue

Blue

Revised December 2007

 0069-2960-30
 CDT 251
 White

 0069-2970-30
 CDT 252
 White

 0069-2980-30
 CDT 254
 White

0069-2260-30 CDT 058 White
 0069-2160-30
 CDT 101

 0069-2180-30
 CDT 102

 0069-2150-30
 CDT 051

 0069-2170-30
 CDT 052

 0069-2190-30
 CDT 054

0069-2250-30 CDT 104

0069-2270-30 CDT 108

cist for a complete list. How do I store CADUET?

• hot or warm feeling in your face (flushing)

headache

tiredness

 stomach pain • gas

constipation

you are passing brown or dark-colored urine

Call your doctor right away if:

birth control

heart failure

HIV (AIDS)

Blocked arteries of the heart (coronary artery disease)

High blood pressure (hypertension) and

Incomplicated myalgia has been reported in atorvastatin-treated patients (see ADVERSE REACTIONS) Uncomplicated myagin has been reported in advisatian-treated patients (see AUVERSE FEX. 10045) Myopathy, defined as muscle aches or muscle weakness in conjunction with increases in creating phosphokinase (CPK) values >10 times ULN, should be considered in any patient with diffuse myagias muscle tenderness or weakness, and/or marked elevation of CPK. Patients should be advised to report prompty unexplained muscle pain, tenderness or weakness, particularly if accompanied by malaise on fever. CADUET therapy should be discontinued if markedly elevated CPK levels occur or myopathy is diagnosed or suspected

The risk of myopathy during treatment with drugs in the HMG-CoA reductase inhibitor class is forceased with concurrent administration of cyclosporine, fibric acid derivatives, erythromycin, antifungas, Physicians considering combined therapy with CADUET and fibric acid derivatives, erythromycin, clarithromycin, a combination of ritonavir plus saquinavir or lopinavir plus ritonavir, inacin, or azole antifungas, acide antifungas, or lipid-modifying doses of niacin should carefully weigh the potential tenderuses, acide antifungas, or lipid-modifying doses of niacin should carefully weigh the potential enderuses, acide antifungas, or lipid-tenderuse of the care of the careful weigh the potential tenderuses, or weakness, particularly during the initial months of therapy and during any periods of upward dosage titration of either drug. Lower starting and maintenance doses of atornastatin should be providered when taking cADUET, therapy should be temporarily withheld or discontinued in any patient assurance that such monitoring will prevent the occurrence of severe myopathy. In the acute, serious condition suggestive of a myopathy or having a risk factor predisponsion supported by the taking temperature and the store methoder of discontinued in any patient with the development of renal failure secondary to rhabdomyolysis (e.g., severe acute infection supported seizures).

PRECAUTIONS

 \oplus

General Since the vasodilation induced by the amlodipine component of CADUET is gradual in onset, acute hypotension has rarely been reported after oral administration of amlodipine. Nonetheless, caution should be exercised when administering CADUET as with any other peripheral vasodilator particularly in patients with severe aortic stenosis. Before instituting therapy with CADUET, an attempt should be made to control hypercholesterolemia with appropriate diet, exercise, and weight reduction in obese patients, and to treat other underlying medical problems (see INDICATIONS AND USAGE).

Use in Patients with Congestive Heart Failure

Use in Patients with Congestive Heart Failure In general, calcium channel blockers should be used with caution in patients with heart failure. The amlodipine component of CADUET (5-10 mg per day) has been studied in a placebo-controlled trial of 153 patients with NYHA Class III or IV heart failure (see CLINICAL PHARMACOLOGY) on stable doese of ACE imbibitor, 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, actue myocardial infarction, or hospitalization for worsened heart failure). Amlodipine has been compared to placebo in four 8-12 week studies of patients with NYHA class IV/II heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or LVEF.

Beta-Blocker Withdrawal

The amlodipine component of CADUET 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-blocke

Endocrine Function

HMG-CoA reductase inhibitors, such as the atorvastatin component of CADUET interfere with Involution reductase inhibitors, solar as the dovastatin component of CADOET interiere with cholesterol synthesis and theoretically might blunt adrenal and/or gonadal steroid production. Clinical studies have shown that atorvastatin does not reduce basal plasma cortisol concentration or impair adrenal reserve. The effects of HMG-CoA reductase inhibitors on male fertility have not been studied in adequate numbers of patients. The effects, if any, on the pituitary-gonadal axis in premenopausal women are unknown. Caution should be exercised if an HMG-CoA reductase inhibitor is administered concomitantly with drugs that may decrease the levels or activity of endogenous steroid hormones, such as ketoconazole, spironolactone, and cimetidine.

CNS Toxicity

Studies with atorvastatin: Brain hemorrhage was seen in a female dog treated with atorvastatin calcium for 3 months at a dose equivalent to 120 mg atorvastatin/kg/day. Brain hemorrhage and optic nerve for 3 months at a dose equivalent to 120 mg atorvastatin/kg/day. Brain hemorrhage and optic nerve vacuolation were seen in another femal dog that was sacrificed in moribund condition after 11 weeks of escalating doses of atorvastatin calcium equivalent to up to 280 mg atorvastatin/kg/day. The 120 mg/kg dose of atorvastatin resulted in a systemic exposure approximately 16 times the human plasma area-under-the-curve (AUC, 0-24 hours) based on the maximum human dose of 80 mg/day. A single tonic convulsion was seen in each of 2 male dogs (one treated with atorvastatin calcium at a dose equivalent to 10 mg atorvastatin/kg/day and one at a dose equivalent to 120 mg atorvastatin/kg/day in a 2-year study. No CNS lesions have been observed in mice after chronic treatment for up to 2 years at doses of atorvastatin calcium equivalent to up to 400 mg atorvastatin/kg/day or in rats at doses equivalent to up to 100 mg atorvastatin/kg/day. These doses were 6 to 11 times (mouse) and 8 to 16 to 16 times (rat) the human AUC (0-24) based on the maximum recommended human dose of 80 mg atorvastatin/dav. atorvastatin/day

atorvastatin/day. CNS vascular lesions, characterized by perivascular hemorrhages, edema, and mononuclear cell infiltration of perivascular spaces, have been observed in dogs treated with other members of the HMG-CoA reductase class. A chemically similar drug in this class produced optic nerve degeneration (Wallerian degeneration of retinogeniculate fibers) in clinically normal dogs in a dose-degendent fashion at a dose that produced plasma drug levels about 30 times higher than the mean drug level in humans through by higher to compendent defan. taking the highest recommended dos

Information for Patients

Due to the risk of myopathy with drugs of the HMG-CoA reductase class, to which the atorvastatin component of CADUET belongs, patients should be advised to report promptly unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever.

Data from a drug-drug interaction study involving 10 mg of amlodipine and 80 mg of atorvastatin ir Data from a drug-orug interaction study involving for ing or antiodipline and ou ing or atorvastation in healthy subjects indicate that the pharmacokinetics of antiodipline are not altered when the drugs are coadministered. The effect of amidolipine on the pharmacokinetics of atorvastatin increased by the Cmax: 91% (90% confidence interval: 80 to 103%), but the AUC of atorvastatin increased by 18% (90% confidence interval: 109 to 127%) in the presence of amidolipine. No drug interaction studies have been conducted with CADUET and other drugs, although studies have been conducted in the individual emidolipine and encounted in a concentrate the leave.

been conducted in the individual amlodipine and atorvastatin components, as described below Studies with Amlodinine:

In vitro data in human plasma indicate that amlodipine has no effect on the protein binding of drugs tested (digoxin, phenytoin, warfarin, and indomethacin). <u>Cimetidine</u>: Co-administration of amlodipine with cimetidine did not alter the pharmacokinetics of metodeline:

Maalox® (antacid): Co-administration of the antacid Maalox with a single dose of amlodipine had no

significant effect on the pharmacokinetics of amlodipine. <u>Sildenafil:</u> 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.

Digoxin: Co-administration of amlodipine with digoxin did not change serum digoxin levels or digoxin enal clearance in normal volunteers.

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

<u>Warfarin:</u> Co-administration of amlodipine with warfarin did not change the warfarin prothrombin 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.

Studies with Atorvastatin:

The risk of myopathy during treatment with HMG-GoA reductase inhibitors is increased with concurren administration) of fibric acid derivatives, lipid-modifying doses of niacin or cytochrome P450 3A4 inhibitors (e.g. cyclosporine, erythromycin, clarithromycin, and azole antifungals) (see WARNINGS

Inhibitors of cytochrome P450 3A4: Atorvastatin is metabolized by cytochrome P450 3A4. Concomitant administration of atorvastatin with inhibitors of cytochrome P450 3A4 can lead to increases in plasma concentrations of atorvastatin. The extent of interaction and potentiation of effects depends on the variability of effect on cytochrome P450 3A4.

Clarithromycin: Concomitant administration of atorvastatin 80 mg with clarithromycin (500 mg twice daily) resulted in a 4.4-fold increase in atorvastatin AUC (see WARNINGS, Skeletal Muscle, and DOSAGE AND ADMINISTRATION).

Erythromycin: In healthy individuals, plasma concentrations of atorvastatin increased approxi-mately 40% with co-administration of atorvastatin and erythromycin, a known inhibitor of cytochrome P450 3A4 (see WARNINGS, Skeletal Muscle).

Grounome read over (see WARNINGS), Skeletal Muscle). Combination of Protease Inhibitors: Concomitant administration of atorvastatin 40 mg with ritonavir plus saquinavir (400 mg twice daily) resulted in a 3-fold increase in atorvastatin AUC. Concomitant administration of atorvastatin 20 mg with lopinavir plus ritonavir (400 mg-100 mg twice daily) resulted in a 5-fold increase in atorvastatin AUC (see WARNINGS, Skeletal Muscle, and DOSAGE AND ADMINISTRATION).

Intraconazole: Concomitant administration of atorvastatin (20 to 40 mg) and itraconazole (200 mg) was associated with a 2.5-3.3-fold increase in atorvastatin AUC. Diltiazem hydrochloride: Co-administration of atorvastatin (40 mg) with diltiazem (240 mg)

was associated with higher plasma concentrations of atorvastatin **Cimetidine:** Atorvastatin plasma concentrations and LDL-C reduction were not altered by

co-administration of cimetidine. Grapefruit juice: Contains one or more components that inhibit CYP 3A4 and can increase plasma concentrations of atorvastatin, especially with excessive grapefruit juice consumption

. (>1.2 liters per day).

Cvclosporine: Atorvastatin and atorvastatin-metabolites are substrates of the OATP1B1 transoptice inhibitors of the OATP116 (e.g. cyclosporine) can increase the bioavailability of atrovastatin. Concomitant administration of atorvastatin 10 mg and cyclosporine 5.2 mg/kg/day resulted in a 8.7-toli orrease in atorvastatin AUC. In cases where co-administration of atorvastatin with cyclosporine is necessary, the dose of atorvastatin should not exceed 10 mg (see WARNINGS,

Inducers of cytochrome P450 3A4: Concomitant administration of atorvastatin with inducers of Volchrome P450 3A4 (ge favirez, ridmpin) can lead to variable reductions in plasma concentrations of atorvastatim. Due to the dual interaction mechanism of rifampin, simultaneous co-administration of atorvastatim with rifampin is recommended, as delayed administration of atorvastatin after administra-tion of rifampin has been associated with a significant reduction in atorvastatin plasma concentrations.

Antacid: When atorvastatin and Maalox TC suspension were coadministered, plasma concentrations of tatin decreased approximately 35%. However, LDL-C reduction was not altered

than 10 years of age. Clinical efficacy with doses of atorvastatin up to 80 mg/day for 1 year have been eva

uncontrolled study of patients with homozygous FH including 8 pediatric patients. See CLINICAL PHAR-MACOLOGY, Clinical Studies, Atorvastatin Effects in Homozygous Familial Hypercholesterolemia. Geriatric Use

no studies conducted to determine the safety or effectiveness of CADUET in geriatric

In studies with amlodipine: Clinical studies of amlodipine did not include sufficient numbers of subjects In studies with amlodigine: Clinical studies of amlodigine 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 of the amlodipine component of CADUET 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 40-60%, and a lower initial dose may be required (see **DOSAGE AND ADMINISTRATION**). In studies with atorvastatin: The safety and efficacy of atorvastatin (10-80 mg) in the geriatric population (sE5 years of age) was evaluated in the ACCESS study. In this 54-week open-label trial 1,956 patients initiated therapy with atorvastatin calcium 10 mg. Of these, 835 were elderly (sE5 years) and 1,123 were non-elderly. The mean change in LDL-6 from baseline after 6 weeks of treatment with atorvastatin calcium 10 mg was -38.2% in the elderly patients versus -34.6% in the non-elderly group. The rates of discontinuation in a patients on abroxastatin due to adverse events were similar hetween the

The rates of discontinuation in patients on atorvastatin due to adverse events were similar between the two age groups. There were no differences in clinically relevant laboratory abnormalities between

lies with Atorvastatin

e in Patients with Recent Stroke or TIA In a post-hoc analysis of the Stroke Prevention by Aggressive Reduction in Cholesterol Levels (SPARCL) study where LIPITOR 80 mg vs placebo was administered in 4,731 subjects without CHD who had a stroke or TIA within the preceding 6 months, a higher incidence of hemorrhagic stroke was seen in the LIPITOR 80 mg group compared to placebo. Subjects with hemorrhagic stroke on study entry appeared to be at increased risk for hemorrhagic stroke.

ADVERSE REACTIONS

CADUET CADUET (amlodipine besylate/atorvastatin calcium) has been evaluated for safety in 1092 patients in Object (almouphed besynteriation statistic calculum) has been evaluated for statisty in Fose partents in double-blind placebo controlled studies treated for co-morbid hypertension and dyslpidemia. In general, treatment with CADUET was well tolerated. For the most part, adverse experiences have been mild or moderate in severity. In clinical trials with CADUET, no adverse experiences experiences beculiar to this combination have been observed. Adverse experiences are similar in terms of nature, severity, and frequency to those reported previously with amologine and atorvastatin. The following information is based on the clinical experience with amologine and atorvastatin.

The Amlodipine Component of CADUET

Amodipine 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), Clinical traits directly Comparing announce (w=ricros) in coess up to for a directly (bracked) (w=ricros), discontinuation of amilodipine due to adverse required in only about 1.5% of patients of 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:

	amlodipine					
2.5 mg	5.0 mg	10.0 mg	Placebo			
N=275	N=296	N=268	N=520			
1.8	3.0	10.8	0.6			
1.1	3.4	3.4	1.5			
0.7	1.4	2.6	0.0			
0.7	1.4	4.5	0.6			
	N=275 1.8 1.1 0.7	2.5 mg 5.0 mg N=275 N=296 1.8 3.0 1.1 3.4 0.7 1.4	N=275 N=296 N=268 1.8 3.0 10.8 1.1 3.4 3.4 0.7 1.4 2.6	2.5 mg 5.0 mg 10.0 mg Placebo N=275 N=296 N=268 N=520 1.8 3.0 10.8 0.6 1.1 3.4 3.4 1.5 0.7 1.4 2.6 0.0		

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 followin *Placebo-Controlled Studies*

Adverse Event	amlodipine (%)	Placebo (%)
	(N=1730)	(N=1250)
Headache	7.3	7.8
Fatigue	4.5	2.8
Nausea	2.9	1.9
Abdominal Pain	1.6	0.3
Somnolence	14	0.6

For several adverse experiences that appear to be drug and dose related, there was a greater incidence in

Adverse Event	amloc	lipine	Placebo	
	M=%	F=%	M=%	F=%
	(N=1218)	(N=512)	(N=914)	(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	
0	following events of	occurred in -1%	but >0.1	1% of nationts	treated with a	mlodinino 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, uney are inset to where the physician to possible reason reasons to a solution of the cardiovascular archytomia (including ventricular tachytoardia 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 Gastrointestinal: anorexia, constipation, dyspepsia,** dysphagia, diarrhea, flatulence, pancreatitis,

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

oskeletal 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 erythematou

These events occurred in less than 1% in placebo-controlled trials, but the incidence of these le 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 dispose, yo pan, and 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 treated with amlodipine in controlled clinical trials or under conditions of open trials or marketing experience: 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 ase 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 triglyceride total cholesterol, HDL cholesterol, uric acid, blood urea nitrogen, or creat In the CAMELOT and PREVENT studies (see CLINICAL PHARMACOLOGY Clinical Studies, Clinical

Studies with Amlodipine) the adverse event profile was similar to that reported previously (see above) with the most common adverse event being peripheral edema.

The following postmarketing event has been reported infrequently with amlodipine treatment 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 amiodipine.

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. The Atorvastatin Component of CADUET

D

e norvastalin computent of CADUET orvastatin is generally well-tolerated. Adverse reactions have usually been mild and transient. controlled clinical studies of 2502 patients, -2% of patients were discontinued due to adverse periences attributable to atorvastatin calcium. The most frequent adverse events thought to be related atorvastatin calcium were constipation, flatulence, dyspepsia, and abdominal pain. **Clinical Adverse Experiences**

Adverse experiences reported in ≥2% of patients in placebo-controlled clinical studies of atorvastatin, regard

dless of causality a					
Table 12	Adverse Even	ts in Placebo-Co	ontrolled Studies	(% of Patients)	
			atorvastatin		
ody System/ dverse Event	Placebo N=270	10 mg N=863	20 mg N=36	40 mg N=79	80 mg N=94
ODY AS A WHOLE					
Infection	10.0	10.3	2.8	10.1	7.4
Headache	7.0	5.4	16.7	2.5	6.4
Accidental Injury	3.7	4.2	0.0	1.3	3.2
Flu Syndrome	1.9	2.2	0.0	2.5	3.2
Abdominal Pain	0.7	2.8	0.0	3.8	2.1
Back Pain	3.0	2.8	0.0	3.8	1.1
Allergic Reaction	2.6	0.9	2.8	1.3	0.0
Asthenia	1.9	2.2	0.0	3.8	0.0
IGESTIVE SYSTEM	Λ				
Constipation	1.8	2.1	0.0	2.5	1.1
Diarrhea	1.5	2.7	0.0	3.8	5.3
Dyspepsia	4.1	2.3	2.8	1.3	2.1
Flatulence	3.3	2.1	2.8	1.3	1.1
ESPIRATORY SYS	TEM				
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
KIN AND APPEND	AGES				
Rash	0.7	3.9	2.8	3.8	1.1
IUSCULOSKELETA	L SYSTEM				
Arthralgia	1.5	2.0	0.0	5.1	0.0
Myalgia	1.1	3.2	5.6	1.3	0.0

age should be adjusted according to each patient's need. In general, titration should proceed ove 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. may proceed much applying intervatively insuface or an intervative province and places and applying intervative of the province and places and applying intervative of the province and applying and in patients with hepatic insufficiency. Most patients will require 10 mg of radiequate effect. See ADVERSE FRACTIONS section for information related to dosage and

side effects. The recommended dose range of amlodipine for patients with coronary artery disease is 5-10 mg once daily. In clinical studies the majority of patients required 10 mg (see CLINICAL PHARMACOLOGY, or CADUET is stopped. These serious side effects include:

Clinical studies). *Children:* The effective antihypertensive oral dose of amlodipine in pediatric patients ages 6-17 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.

Atorvastatin (Hyperlipidemia)

The patient should be placed on a standard cholesterol-lowering diet before receiving atorvastatin and should continue on this diet during treatment with atorvastatin. Hypercholesterolemia (Heterozygous Familial and Nonfamilial) and Mixed Dyslipidemia (Fredrickson Types IIa and IIb)

(Fredrickson Types IIa and IIb) The recommended starting dose of atorvastatin is 10 or 20 mg once daily. Patients who require a large reduction in LDL-C (more than 45%) may be started at 40 mg once daily. The dosage range of atorvastatin is 10 to 80 mg once daily. Atorvastatin can be administered as a single dose at any time of the day, with or without tool. The starting dose and maintenance doses of atorvastatin should be individualized according to patient characteristics such as goal of therapy and response (see *NCEP Guidelines*, summarized in Table 9). After initiation and/or upon titration of atorvastatin, lipid levels should be analyzed within 2 to 4 weeks and dosage adjusted accordingly. Since the goal of treatment is to lower LDL-C, the NCEP recommends that LDL-C levels be used to minitate and assess treatment response. Only if LDL-C levels are not available, should total-C be used to monitor therapy.

Heterozygous Familial Hypercholesterolemia in Pediatric Patients (10-17 years of age)

The recommended starting dose of atorvastatin is 10 mg/day; the maximum recommended dose is 20 mg/day (doses greater than 20 mg have not been studied in this patient population). Doses should be individualized according to the recommended goal of therapy (see NCEP Pediatric Panel Guidelines); CLINICAL PHARMACOLOGY, and INDICATIONS AND USAGE). Adjustments should be made at intervals of 4 weeks or more.

Homozygous Familial Hypercholesterolemia

mazygous Familial Hypercholesterolemia dosage of atorvastatin in patients with homozygous FH is 10 to 80 mg daily. Atorvastatin should be d as an adjunct to other lipid-lowering treatments (e.g., LDL apheresis) in these patients or if such timents are unavailable. Note: a 2.5/80 mg CADUET tablet is not available. Management of patients ding a 2.5/80 mg combination requires individual assessments of dyslipidemia and therapy with the ividual components as a 2.5/80 mg CADUET tablet is not available. eding a 2.5/80 mg combin Concomitant Lipid Lowering Therapy Atorvastatim may be used in combination with a bile acid binding resin for additive effect. The combina-tion of HMG-CoA reductase inhibitors and fibrates should generally be avoided (see WARNINGS, Skeletal Muscle, and PRECAUTIONS, Drug Interactions for other drug-drug interactions).

Saquinavir or Lopinavir plus Ritonavir

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Package Configuration

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Bottle of 3

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Manufactured by: Pfizer Ireland Pharmace

(P*izer*)

69-6113-00-5

LAB-0276-12.0

Rx only

CADUET

Dosage in Patients With Renal Insufficiency Renal disease does not affect the plasma concentrations nor LDL-C reduction of atorvastatin; thus, dosage adjustment in patients with renal dysfunction is not necessary (see CLINICAL PHARMACOLOGY, Pharmacokinetics). Dosage in Patients Taking Cyclosporine, Clarithromycin or A Combination of Ritonavir plus

Saquinavir or Lopinavir plus Ritonavir In patients taking cyclosporine, therapy should be limited to LIPITOR 10 mg once daily. In patients taking clarithromycin or in patients with HIV taking a combination of ritonavir plus saquinavir or lopinavir plus ritonavir, for doses of atorvastatin exceeding 20 mg appropriate clinical assessment is recommended to ensure that the lowest dose necessary of atorvastatin is employed (see WARNINGS, Skeletal Muscle, and PRECAUTIONS, Drug Interactions).

CADUET may be substituted for its individually titrated components. Patients may be given the

dose of CADUET should be selected based on the continuation of the component being used and the

CADUET may be used to initiate treatment in patients with hyperlipidemia and either hypertension o

CALCUET may be used to make indexting the detailer in myterin previous and interpretentiation of angina. The recommended starting dose of CADUET should be based on the appropriate combination or recommendations for the monotherapies. The maximum dose of the amlodipine component of CADUET is so by any one daily is 10 mg once daily. The maximum dose of the atorvastatic component of CADUET is so by mg once daily the store of the monotherapies.

See above for detailed information related to the dosing and administration of amlodipine and

HOW SUPPLIED

CADUET $^{\otimes}$ tablets contain amlodipine besylate and atorvastatin calcium equivalent to amlodipine and atorvastatin in the dose strengths described below.

CADUET tablets are differentiated by tablet color/size and are engraved with "Pfizer" on one side and a unique number on the other side. CADUET tablets are supplied for oral administration in the following

Table 13. CADUET Packaging Configurations CADUET

Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room

¹ National Cholesterol Education Program (NCEP): Highlights of the Report of the Expert Panel on Blood Cholesterol Levels in Children Adolescents. *Pediatrics*, 89(3):495-501, 1992.

NDC #

equivalent dose of CADUET or a dose of CADUET with increased amounts of amiodipine, atorxas both for additional antianginal effects, blood pressure lowering, or lipid lowering effect. CADUET may be used to provide additional therapy for patients already on one of its comport & initial therapy for one indication and continuation of treatment of the other, the recommended st

nended starting dose for the added monotherapy.

Tablet Strength

amlodipine besylate/

atorvastatin calcium) mg

5/10 5/20

5/80

10/40

10/80

Distributed by

Pfizer Labs

Division of Pfizer Inc, NY, NY 10017

Antipyrine: Because atorvastatin does not affect the pharmacokinetics of antipyrine, interactions with	
other drugs metabolized via the same cytochrome isozymes are not expected.	
<u>Colestipol</u> : Plasma concentrations of atorvastatin decreased approximately 25% when colestipol and atorvastatin were coadministered. However, LDL-C reduction was greater when atorvastatin and colestipol were coadministered than when either drug was given alone.	RE
<u>Digoxin</u> ; When multiple doses of atorvastatin and digoxin were coadministered, steady-state plasma digoxin concentrations increased by approximately 20%. Patients taking digoxin should be monitored appropriately.	SK
<u>Oral Contraceptives:</u> Coadministration of atorvastatin and an oral contraceptive increased AUC values for norethindrone and ethinvl estradiol by approximately 30% and 20%. These increases should be	M