Diabetes-Related Visual Impairment Down 20%

BY MIRIAM E. TUCKER

MONTREAL — The age-adjusted prevalence of visual impairment among people with diabetes in the United States underwent a relative decline of more than 20% between 1997 and 2008, despite a sharp rise in the number of people diagnosed with the disease during that time.

The findings, calculated from National Health Interview Survey data, were presented in a poster by Dr. Nilka Rios Burrows at the World Diabetes Congress.

The number of adults aged 18 and older with both diabetes and visual impairment increased from 2.6 million in 1997 to 3.6 million in 2008. The prevalence of visual impairment was greater with increasing age, and was higher for women than men, said Dr. Burrows of the Centers for Disease Control and Prevention, Atlanta.

The prevalence of visual impairment declined steadily and significantly during the study period. The overall prevalence declined from 26% in 1997 to 22% in 2008, while the age-adjusted prevalence dropped from 24% to 19%, with an average annual relative decline of 2.7%.

The decline in visual impairment may be due in part to a improved detection and treatment of eye problems or better health in the diabetes population overall.

However, the increase in the number of new diabetes cases since the 1990s may have led to a large number of people who have not had diabetes long enough to develop visual impairment, Dr. Burrows and her associates noted in the poster.

On a less positive note, only half of those surveyed reported having seen an eye doctor in 2008.

Dr. Burrows declared that she had no conflicts of interest.

-Reduce the risk of stroke; p aptients 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 revascularization procedures -Reduce the risk of hospitalization for CHF -Reduce the risk of angina

-Reduce the risk of angina

2. Heterozygus Familial and Nonfamilial Hypercholesterolemia: Atorvastatin is indicated as an 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 (heterozygus familial and nonfamilial) and mixed dyslipidemia (Fredrickson Types IIa and IIb); 3. Elevated Serum TG Levels: Atorvastatin is indicated as an adjunct to diet for the treatment of patients with elevated serum TG levels (Fredrickson Type IIV); 4. Primary Dysbetalipoproteinemia: Atorvastatin is indicated for the treatment of patients with primary dysbetalipoproteinemia (Fredrickson Type III) who do not respond adequately to diet; 5. Homozygus Familial Hypercholesterolemia: Atorvastatin is indicated to reduce total-C and LDL-C in patients with homozygus familial (Fredrickson Type IV): 4. Primary Dysbetalipoproteinemia: Atorvastatin is indicated to the treatment or patients with primary dysbetalipoproteinemia (Fredrickson Type III) who do not respond adequately to diet; 5. Homogous 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; 6. 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:
a. LDL-C remains ≥ 190 mg/d to or
b. LDL-C remains ≥ 190 mg/d to or
b. LDL-C remains ≥ 190 mg/d to or
b. LDL-C remains ≥ 100 mg/d to 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 individuals at increased risk for athreosclerotic vascular disease due to hypercholesterolemia. Lipid-altering agents should be used, in addition to a diet restricted in saturated fat and cholesterol, only when the response to diet and other nonpharmacological measures has been inadequate (see National Cholesterol Education Program (NCEP) Guidelines, summarized in Table 1).

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

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

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 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: 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 possibly the synthesis of other biologically active substances derived from cholesterol, they may cause fetal harm when administered to pregnant women. Therefore, HMG-CoA reductase inhibitors are contraindicated during pregnancy and in nursing mothers. CADUET, WHICH INICLIDES ATORNASTATIN, SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHT UNILKELY TO CONCEIVE AND HAVE BEEN INFORMED OF 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.

WARNINGS: Increased Angina and/or Myocardial Infarction: Rarely, patients, particularly those with sever obstructive coronary artery disease, have developed documented increased frequency, duration and/or severity of angina or acute myocardial infarction on starting calcium channel blocker therapy or at the time of dosage increase. The mechanism of this effect has not been elucidated. Liver Dysfunction: HMG-CoA reductase inhibitors, like some other injeid-lowering therapies, have been associated with biochemical abnormalities of liv drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without sequelae. Eighteen of 30 patients, with persistent LFT elevations continued treatment with a reduced dose of atorvastatin. It is recommended that liver function tests be performed prior to and at 12 weeks following both the initiation of therapy and any elevation of dose, and periodically (e.g., semiannually) thereafter. Liver enzyme changes generally occur in the first 3 months of treatment with atorvastatin. Patients who develop increased transaminase levels should be monitored until the abnormalities resolve. Should an increase in ALT or AST of -3 times ULN persist reduction of dose or withdrawal of CADUET is recommended. CADUET should be used with caution in patients who consume substantial quantities of alcohol and/or have a history of liver disease. Active liver disease or unexplained persistent transaminase elevations are contrandications to the use of CADUET (see COMTRAINDICATIONS). Skeletal Muscle: 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-CAO reductase inhibitor class. Uncomplicated myalgia has been reported in atorvastatin-treated patients (see ADVERSE REACTIONS). Myopathy, defined as muscle aches or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values

>10 times ULN, should be considered in any patient with diffuse mysigas, muscle tendemess or weakness, and/ or marked elevation of OPR Patients should be addised to report promptly unexplained muscle pain, tendemess elevated CPR levels social or impossibly is diagnosed or supported. The risk of mypeapth during treatment with drugs in the IMMG-CoA reductase inhibitor class is increased with concurrent administration of cyclosporine, fibric acid enherables, epithemyonic, clariflymorin, combination of mosely puss sequinary or lopinarily pilos floraes with concurrent administration of cyclosporine, fibric acid enherables, epithemyonic, clariflymorin, combination of mosely puss sequinary or lopinarily pilos floraes with concurrent administration of cyclosporine, fibric acid enherables, epithemyonic, combination of mosely puss sequinary or lopinarily pilos floraes with a concurrent administration of cyclosporine, fibric acid enherables, epithemyonic, combination of mosel pain, tendemess, or weakness, particularly during the initial months of therapy and during any peniods of prevally weight the potential benefities and risks and should carefully monitor patients for any signs or symptoms of muscle pain, tendemess, or weakness, particularly during the initial months of therapy and during any peniods of prevally weight promote the countrial of the properties of the

potentiation of effects depends on the variability of effect on cytochrome P450 3A4. Clarithromycin: Concomitatal 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 health prindividuals, plasma concentrations of atorvastatin increased approximately 40% with co-administration of atorvastatin and erythromycin, a known inhibitor of cytochrome P450 3A4 (see WARNINGS, Skeletal Muscle). Combination of Protease Inhibitors: Concomitant administration of atorvastatin 40° mg with intonavir plus squinavir (400 mg with opinavir plus ritonavir (400 mg+100 mg twice daily) resulted in a 3-fold increase in atorvastatin AUC. Concomitant administration of atorvastatin (200 mg with opinavir plus ritonavir (400 mg+100 mg with opinavir plus ritonavir (400 mg) and itraconazole (200 mg) was associated with a 2.5-3.3-fold increase in atorvastatin AUC. Dilitazem hydrochloride Co-administration of atorvastatin (40 mg) with dilitizame (240 mg) was associated with AUC. Dilitazem hydrochloride Co-administration of atorvastatin (40 mg) with dilitizame (240 mg) was associated with AUC. Dilitazem dyo-cadministration of atorvastatin (40 mg) with dilitizame (240 mg) was associated with AUC. Dilitazem dyo-cadministration of cinetidine: Atorvastatin plasma concentrations and IDL-C reduction were not atteney of yo-cadministration of cinetidine: Atorvastatin plasma concentrations and IDL-C reduction were not atteney of yo-cadministration of atorvastatin with plasma concentrations and IDL-C reduction were not atteney of yo-cadministration of atorvastatin metabolites are substrates of the OATP1B1 transporter. Inhibitors of the OATP1B1 (e.g. cyclosporine) can increase the bioavailability of atorvastatin that thin thic TCP 3A4 and can increase plasma concentrations of atorvastatin metabolites are substrates of the OATP1B1 transporter. Inhibitors of atorvastatin in with inducers of cytochrome P45