residency in internal medicine at Boston

He was a fellow in cardiology at Boston

City as well as the Boston University

Medical Center. Dr. Uretsky then moved

to the University of Pittsburgh School of

Medicine, where he was associate pro-

fessor, codirected the cardiac catheteri-

zation laboratories at Presbyterian Uni-

versity Hospital, Pittsburgh, and was

-Renée Matthews

City Hospital.

## BEAT ONTHE

## Obituary

Dr. Robert Wissler, a renowned preventive pathologist and professor emeritus in the department of pathology at the



University of Chicago, died from respiratory failure at the end of last year. He was 89 years old. In his early studies, Dr. Wissler ex-

Dr. Robert Wissler

plored the role of specific dietary fats in atherosclerosis. This pioneering re-

search paved the way to an understanding of the relationship between diet and the development, treatment, and prevention of cardiovascular disease, and he became an ardent advocate for changes and improvements in the American diet.

In 1983, he organized a large, multicenter study, the Pathobiological Determinants of Atherosclerosis in Youth (PDAY), to examine the risk factors associated with coronary heart disease in young men between the ages of 15 and 34 years.

By studying the blood vessels from about 3,000 young men who had died, the researchers found a strong correlation between smoking and elevated cholesterol levels and atherosclerosis. The findings suggested that even in young, healthy men, the effects of smoking and high cholesterol were "more than additive."

He also performed some of the early studies that examined the roles of the smooth muscle cells that line vessels and of the immune system, especially the macrophage, in the development of arterial disease

Dr. Wissler graduated from Earlham College in Richmond, Ind., in 1939, majoring in biology and chemistry, and went on to study medicine at the University of Chicago. During World War II, he left the school but remained on campus to work on a research project on nutrition and immune function. He returned to the school after the war, and received his doctorate in pathology in 1946, joined the pathology faculty in 1947, and earned his medical degree in 1948.

Still at Chicago, he completed his residency and fellowship training in 1953, working his way up from professor in the department of pathology, to chairman from 1957 to 1972. From 1972 to 1981, he served as director of the Specialized Center of Research in Atherosclerosis at Chicago.

In addition to earning substantial respect and recognition for his groundbreaking research, Dr. Wissler was a dedicated educator, known and valued for his generosity toward students and colleagues alike.

## On the Move

Dr. Barry F. Uretsky, an interventional cardiologist known for his work on blood flow regulation, has been appointed director of cardiology at Sparks Health System.

In his new position at Sparks, which is an integrated health-care system based in Fort Smith, Ark., Dr. Uretsky will oversee the administration of all areas of cardiology in his capacities as medical director of cardiology for the Sparks Regional Medical Center and as medical director of The Cardiology Center at Sparks. He also will continue practicing as an interventional cardiologist.

Before assuming his new position, Dr. Uretsky was the director of interventional cardiology and the cardiovascular catheterization laboratory at the University of Texas Medical Branch at Galveston.

In addition to his work on hemody-

## Prescribing Information, see package insert

INDICATIONS AND USAGE CRESTOR is indicated: 1. as an adjunct to diet to reduce elevated total-C, LDL-C, ApoB, nonHDL-C, and TG levels and to increase HDL-C in Produce revalue total\*v, DE-v, Alpo, IonnO-V, and Veres and to Integer Alpo, Totales ProC-On patients with priority hypercholesterolemia (heterozygous familia) and nonfamilia) and mixed dyslipidemia (Fredrickson Type IIa and IIb); 2. as an adjunct to diet for the treatment of patients with elevated serum TG levels (Fredrickson Type IV); 3. to reduce LD-C, total-C, and ApoB in patients with homozygous familial hypercholesterolemia as an adjunct to other lipid-lowering treatments (e.g., LDL apheresis) or if such treatments are unavailable. **CONTRAINDICATIONS** CRESTOR is contraindicated in patients with a known hyper-CONTRAINDICATIONS CRESTOB is contraindicated in patients with a known hyper-sensitivity to any component of this product. Rosuvastatin is contraindicated in patients with active liver disease or with unexplained persistent elevations of serum transminases (see WARNINGS, Liver Enzymes). **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 call membranes). Since HMG-CAD 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 neronant yomen. Therefore, HMG-CAD reductase inhibitors are contraindibiologically active substances derived trom cholesterol, they may cause tetal harm when administered to pregnant women. Therefore, HMG-CAA reductase inhibitors are contraindi-cated during pregnancy and in nursing mothers. ROSUVASTATIN SHOULD BE ADMINIS-TERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNIKELY TO CONCEIVE AND HAVE BEEN INFORMED OF THE FOTENTIAL HAZARDS. If the patient becomes pregnant while taking this drug, therapy should be discontinued immedi-ately and the patient apprised of the potential hazard to the fetus. WARNINGS Liver Enzymes HMG-CoA reductase inhibitors, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function. The incidence of persis-tural elayations (-3) times the unce limit of normal IU NI occurring a 2 or more consec. tent elevations (>3 times the upper limit of normal [ULN] occurring on 2 or m tent elevations (>3 times the upper limit of normal [ULM] occurring on 2 or more consec-utive occasions) in serum transaminases in fixed dose studies was 0.4, 0, 0, and 0.1% in patients who received rosuvastatin 5, 10, 20, and 40 mg, respectively. In most cases, the elevations were transient and resolved or improved on continued therapy or after a brief interruption in therapy. There were two cases of jaundice, for which a relationship to rosuva-statin therapy could not be determined, which resolved after discontinuation of therapy. There were no cases of liver failure or irreversible liver disease in these trials. It is recom-mended that liver function tests be performed before and at 12 weeks following both the initiation of therapy and any elevation of dose, and periodically (e.g., semianually) thereafter. Liver enzyme changes generally occur in the first 3 months of treatment with rosuvastatin. Patients who develop increased in Tansaminase levels should be monitored until the abnormalities have resolved. Should an increase in AIT on AST of >3 times UIN persist. rosuvastatin. Patients who develop increased transaminase levels should be monitored until the abnormalities have resolved. Should an increase in ALT or AST or >3 times ULN persist, reduction of dose or withdrawal of rosuvastatin is recommended. Rosuvastatin should be used with caution in patients who consume substantial quantities of alcohol and/or have a history of liver disease (see CLINICAL PHARMACOLOGY, Special Populations, Hepatic Insufficiency). Active liver disease or unexplained persistent transaminase elevations are contraindications to the use of rosuvastatin (see CONTRAINDICATIONS). Myoporthy/ Rhobdomyolysis Rare cases of rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with rosuvastatin and with other drugs in this lase. Uncomplicated marking has hear ranorted in resourcettind-reader of alcotters. to myoglobinuma have been reported with rosuvastatin and with other drugs in this class. Uncomplicated myalgia has been reported in rosuvastatin-treated patients (see ADVERSE REACTIONS). Oreatine kinase (CK) elevations (>10 times upper limit of normal) occurred in 0.2% to 0.4% of patients taking rosuvastatin at doses up to 40 mg in clinical studies. Treatment-related myopathy, defined as muscle aches or muscle wakness in conjunction with increases in CK values >10 times upper limit of normal, was reported in up to 0.1% of patients taking rosuvastatin doses of up to 40 mg in clinical studies. In clini-cial trials, the incidence of myopathy and rhabdomyolysis increased at doses of rosuvaical trials, the incidence of myopathy and rhabdomyolysis increased at doses of rosun-statin above the recommended dosage range (5 to 40 mg). In postmarketing experience, effects on skeletal muscle, e.g. uncomplicated myalgia, myopathy and, rarely, rhabdomy-olysis have been reported in patients treated with HMG-CoA reductase inhibitors including rosuvastain. As with other HMG-CoA reductase inhibitors including of rhabdomyolysis with rosuvastain are rare, but higher at the highest marketed dose (40 mg). Factors that may predispose patients to myopathy with HMG-CoA reductase inhibitors include advanced age (<65 years), hyoothyroidism, and renal instificancy. Consequently: 1. Rosuvastain should be prescribed with caution in patients with predisposing factors for myopathy such and incert (as DACE ALM). ADMINETRATION and incert and incert as, renal impairment (see DOSAGE AND ADMINISTRATION), advanced age, and inade as, renal impairment (see DOSAGE AND ADMINISTRATION), advanced age, and inade-quately treated hypothyroidism. 2 Patients should be advised to promptly report unex-plained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever. Rosuvastatin therapy should be discontinued if markedly elevated CK levels occur or myopathy is diagnosed or suspected. 3. The 40 mg dose of rosuvastatin is reserved only for those patients who have not achieved their LDL-C goal utilizing the 20 mg dose of rosuva-statin once daily (see DOSAGE AND ADMINISTRATION). A. The risk of myopathy during treatment with rosuvastatin may be increased with concurrent administration of other lipid-lowering therapies or cyclosporine, (see CLINICAL PHARMACQLORY. Drug Interactions). DEFCAUTIONE Drug Interactions and DRACK ADM ADMINISTRATION. The **rosk of myothy during** Inverting the agrees of probabilities, see Cultivace ATD ADMINISTRATION, The benefit of further alterations in lipid levels by the combined use of rosuvastatin with fibrates or naice should be carefully weighed against the potential risks of this combination. Combination therapy with rosuvastatin and gemilthoral should generally be avoided. (See DOSAGE AND ADMINISTRATION, The benefit of mytherapy and the souvastatin and gemilthoral should generally be avoided. (See DOSAGE AND ADMINISTRATION and PRECAUTIONS, Drug Interactions). 5. The risk of myopathy during treatment with rosuvastatin may be increased in circumstances which increase rosuvastatin drug levels (see CLINICAL PHARMACDLOGY, Special Populations, Race and Renal Insufficiency, and PRECAUTIONS, General). 6. Rosuvastatin therapy should also be temporarily withheld in any patient with an acute, serious confition suggestive of myopathy or predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., sepsis, hypotension, dehydration, major surgery, trauma, severe metabolic, endocrine, and electrolyte disorders, or uncontrolled seizures). **PRECAUTIONS General** Before instituting therapy with rosuvastatin, an attempt should be made to control hypercholesterolemia with appropriate dira deverseries, weight reduction in obes patients, and treatment of underlying medical problems (see INDICATIONS AND USAGE). Administration of rosuvastatin 20 mg to patients with severe renal impairment (CL<sub>cr</sub> <30 mL/min/1.73 m<sup>2</sup>) resulted in a 3-fold increase in plasma concentrations of rosuvastatin compared with healthy voluncers (see WARNINGS, Myopathy/Rhabdomyolysis and DDSAGE AND ADMINISTRATION). The result FIONS, Drug Interactions, and DOSAGE AND ADMINISTRATION). The benefit of WARNINGS. Myopathy/Rhabdomyolysis and DOSAGE AND ADMINISTRATION). The WARNINGS, Myopathy/thaboomyolysis and DUSAGE AND ADMINISTRATION). The result of a large pharmackinetic study conducted in the US demonstrated an approximate 2-fold elevation in median exposure in Asian subjects (having either Filipino, Chinese, Japanese, Korean, Vietnamese or Asian-Indian origin) compared with a Caucasian control group. This increase should be considered when making rosuvastatin dosing decisions for Asian patients. (See WARIINGS, Myopathy/Rhabdomyolysis; CLINICAL PHARMACDLOCY, Special Populations, Race, and DOSAGE AND ADMINISTRATION.) Information for **Patients** Patients should be advised to report promptly unexplained muscle pain, tender-ness, or weakness, particularly if accompanied by malaise or fever. When taking rosuva-statin with an eliminum and manesium buttrovide combination anatici the antaria (di should stalin with an aluminum and magnesium hydroxide combination antacid, the antacid should be taken at least 2 hours after rosuvastalin administration (see CLINICAL PHARIMACOLOGY, Drug Interactions). **Loboratory Tests** In the rosuvastatin clinical trial program, dipstick-positive proteinuria and microscopic hematuria were observed among rosuva-statin-treated patients, predominantly in patients dosed above the recommended dose range (i.e., 80 mg). However, this finding was more frequent in patients taking rosuvastatin 40 mg, when compared to lower doses of rosuvastatin or comparator statins, though it was generally transient and was not associated with worsening renal function. Although the clinical significance of this finding is unknown, a dose reduction should be considered for patients on rosuvastatin 40 mg therapy with unexplained persistent proteinuria during routine urinalysis testing. **Drug Interactions Cyclosporine**: When rosuvastatin 10 mg was coadministered with cyclosporine in cardiac transplant patients, rosuvastatin 10 mg mar dmar, and mean AUC were increases 11-fold and 7-fold, respectively, compared with healthy volunteers. These increases are considered to be clinically significant and require special consideration in the dosing of rosuvastatin to patients taking concomitant statin with an aluminum and magnesium hydroxide combination antacid, the antacid should

Dr. Barry F. Uretsky

namics, Dr. Uretclinical interest in-

failure and its management, and intracoronary imaging.

He received his medical degree from Temple University School of Medicine,

cyclosporine (see WARNINGS, Myopathy/Rhabdomyolysis, and DOSAGE AND ADMINIS-TRATION). Wartaria: Coadministration of rosuvastatin to patients on stable wartarin therapy resulted in clinically significant rises in INR (>4, baseline 2-3). In patients taking coumarin anticoagulants and rosuvastatin concomitantly, INR should be determined before starting rosuvastatin and frequently enough during early therapy to ensure that no signifi-cant alteration of INR occurs. Once a stable INR time has been documented, INR can be monitored at the intervals usually recommended for patients on coumarin anticoagulants. If the dose of rosuvastatin is changed, the same procedure should be repeated. Rosuvastatin anticoagulants. Gemfibrozii: Coadministration of a single rosuvastatin not taking anticoagulants. Gemfibrozii: Coadministration of a single rosuvastatin dose to healthy volunteers on gemfibrozii: Coadministration of a single rosuvastatin dose to healthy runcrease in mean Cmax and mean AUC of rosuvastatin (see DOSAGE AND ADMINISTRA-TION). Endocrine Function Although clinical studies have shown that rosuvastatin alone does not reduce basal plasma cortisol concentration or rimpair adrenal reserve, caution should be exercised if any HMG-CoA reductase inhibitor or other agent used to lower cholesterol levels is administered concomitantly with drugs that may decrease the levels or activity of endogenous steroid hormones such as ketoconazole, spironolactone, and cimetitine. CNS Toxicity CNS vascular lesions, characterized by perivascular hemorrhages, edema, and mononuclear cell infiltration of perivascular spaces, have been observed in dogs treated with several other members of this drug class. A chemically similar drug in this class produced dose-dependent optic nerve degeneration (Wallerian degeneration of retimogeniculate fibers) in dogs, at a dose that produced plasma drug levels doout 30 times to plast that the mean drug level in humans taking dy based on AUC compar-

dose. Edema, hemorrhage, and partial necross in the interstitum of the chorol piexus was observed in a female dog sacrificed moribund at day 24 at 90 mg/kg/day by oral gavage (systemic exposures 100 times the human exposure at 40 mg/day based on AUC compar-isons). Corneal opacity was seen in dogs treated for 52 weeks at 6 mg/kg/day by oral gavage (systemic exposures 20 times the human exposure at 40 mg/day based on AUC comparisons). Catranacts were seen in dogs treated for 12 weeks by oral gavage at 30 mg/kg/day (systemic exposures 60 times the human exposure at 40 mg/day based on AUC comparisons). Catranacts were seen in dogs treated for 12 weeks by oral gavage at 30 mg/kg/day (systemic exposures 60 times the human exposure at 40 mg/day based on AUC comparisons). Retinal dysplasia and retinal loss were seen in dogs treated for 4 weeks

RESTOR

rosuvastatin calcium

LOSUVASUALI CALIFICALIUM by oral gavage at 90 mg/kg/day (systemic exposures 100 times the human exposure at 40 mg/day based on AUC. Does <30 mg/kg/day (systemic exposures ≤60 times the human exposure at 40 mg/day based on AUC comparisons) following treatment up to one year, did not reveal retinal findings. Carcinogenesis, Mutagenesis, Impairment of Fertility In a 164-week carcinogenicity study in rats at dose levels of 2, 20, 60, or 80 mg/kg/day by oral gavage, the incidence of uterine stromal polyps was significantly increased in females at 80 mg/kg/day at systemic exposure 20 times the human exposure at 40 mg/day based on AUC. Increased incidence of polyps was not seen at lower doses. In a 107-week carcinogenicity study in mice given 10, 60, 200 mg/kg/day by oral gavage, an increased incidence of hepatocellular adenoma/carcinom was observed at 200 mg/kg/day at systemic exposures 20 times human exposure at 40 mg/day based on AUC. An increased incidence of hepatocellular atomos was not seen at lower doses. Rosuvastatin was not statystemic assay in Chinese hamster lung cells. Rosuvastatin was negative in the soft and aberration assay in Chinese hamster lung cells. Rosuvastatin was negative in the in vivo mouse micronucleus test. In rat fertility studies with oral gavage of 5, 15,

Samoneia typinimurum and Escherchia coli, the mouse lymphoma assay, and the chro-mosomal aberration assay in Chinese hamster lung cells. Rosuvastatin was negalive in the *in vivo* mouse micronucleus test. In rat fertility studies with oral gavage doses of 5, 15, 50 mg/kg/day, males were treated for 9 weeks prior to and throughout mating and females were treated 2 weeks prior to mating and throughout mating until gestation day 7. No adverse effect on fertility was observed at 50 mg/kg/day (systemic exposures up to 10 times human exposure at 40 mg/day based on AUC comparisons). In testicles of dogs treated with rosuvastati at 30 mg/kg/day for one month, spermaticiic cijant cells were seen. Spermatidic giant cells were observed in monkeys after 6-month treatment at 30 mg/kg/day in addition to vacuolation of seminiferous tubular epithelium. Exposures in the dog were 20 times and in the monkey 10 times human exposure at 40 mg/kg/ based on body surface area comparisons. Similar findings have been seen with other drugs in this class. **Pregnoncy Pregnancy Category X** See CONTRAINDICATIONS. Rosuvastatin may cause fetal harm when administered to a pregnant woman. Rosuvastatin is contraincicated in women. Rosuvastatin crosses the placenta and is found in tetal tissue adfarmitic fulid 3% and 20%, respectively, of the maternal plasma concentration following a single 25 mg/kg oral gavage dose on gestation day 16 in rats. A higher fetal fars when a loss and a fare a single arol 26 mg/kg oral gavage dose on gestation day 16 in rats. A higher fetal fare a single arol 26 mg/kg oral gavage dose on destation day 16 in rats. A higher fetal fare a single arol 26 mg/kg oral gavage dose on testation tag is fare a single arol agavage dose of 1 mg/kg on gestation day 18. It this drug is administered to a woman with repro-

(25% maternal plasma concentration) was observed in rabblis after a single oral gavage dose of 1 mg/kg on gestation day 18. If this drug is administered to a woman with repro-ductive potential, the patient should be apprised of the potential hazard to a fetus. In female rats given oral gavage doses of 5, 15, 50 mg/kg/day rosuvastain before mating and contin-uing through day 7 postcoitus results in decreased fetal body weight (female pups) and delayed ossification at the high dose (systemic exposures 10 times human exposure at 40 mg/day based on AUC comparisons). In pregnant rats given oral gavage doses of 2, 0, 50 mg/kg/day from gestation day 7 through lactation day 21 (weaning), decreased pup survival occurred in groups given 50 mg/kg/day, systemic exposures at 21 times human exposure at 40 mg/day based on body surface area comparisons. In pregnant rabbits given oral pavaen eloses of 13, 13, mg/kg/day, rostemic and the rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen trabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen to body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen to body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen eloses of 13, 13, mg/kg/day formal pavaen body surface area comparisons. In pregnant rabbits given and pavaen e

using because many outgoing at excrete in human information and because of the potential or serious adverse reactions in nursing infants from form ostivastatin, a decision should be made whether to discontinue nursing or administration of rosuvastatin taking into account the importance of the drug to the lactating woman. **Pediotric Use** The safety and effective ness in pediatric population is limited to 8 patients with homozygous FH. None of these patients was below 8 years of age. **Geriotric Use** Of the 10,275 patients in clinical studies with another of the formation of the safety of the safety and the safety of the safety and the safety of the safety and the safety of th

osuvastatin, 3,159 (31%) were 65 years and older, and 698 (6,8%) were 75 years and

rosuvastatin, 3,159 (31%) were 65 years and older, and 698 (6,8%) were 75 years and older. The overall frequency of adverse events and types of adverse events were similar in patients above and belwo 65 years of age. (See WARNINGS, Myopathy/Rhadomyolysis.) The efficacy of rosuvastatin in the geriatric population (=65 years of age) was comparable to the efficacy observed in the non-elderly. **ADVERSE REACTIONS** Rosuvastatin is generally well tolerated. Adverse reactions have usually been mild and transient. In clinical studies of 10,275 patients, 3,7% were discontinued due to adverse experiences attributable to rosuvastatin. The most frequent adverse events through to be related to rosuvastatin were myalgia, constipation, asthenia, abdominal pain, and nausea. **Clinical Adverse Experiences** Adverse experiences, regardless of causality assessment, reported in ≥2%

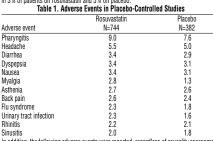
sky's other areas of clude the evaluation of interventional devices and the development of alternative algorithms for interventional strategies,

congestive heart director of the cardiac catheterization laboratories at Westmoreland Regional Hospital, Greensburg, Pa., before joining the University of Texas Medical Branch in

1995.

Philadelphia, in 1972, then completed his

of patients in placebo-controlled clinical studies of rosuvastatin are shown in Table 1; discontinuations due to adverse events in these studies of up to 12 weeks duration occurred in 3% of patients on rosuvastatin and 5% on placebo. Table 1. Adverse Events in Placebo-Controlled Studies



 
 Data pain
 2.3
 1.6

 Hu syndrome
 2.3
 1.6

 Urinary tract infection
 2.3
 1.6

 Rhinitis
 2.2
 2.1

 Sinusitis
 2.2
 2.1

 In addition, the following adverse events were reported, regardless of causally assessment, in =1% of 10.275 patients treated with rosuvastatin in clinical studies. The events in *italics* occurred in ≥2% of these patients. Body as a Whole: Abdominal pain, accidental injury, chest pain, infection, pain, pelvic pain, and neck pain. Cardiovascular System: Hypertension, angina petoris, vasodilatation, and palpitation. Digestive System: Constipation, gastroenteritis, vomiting, flatulence, periodontal abscess, and gastritis. Endocrine: Diabetes mellitus. Hemic and Lymphatel System: Arbnis, and ecchy-mosis. Metabolic and Nutritional Disorders: Peripheral edema. Musculoskeletal System: Arthritis, arthralgia, and pathological fracture. Nervous System: Diziness; insomnia, hypertonia, parsethsi, depression, anxiety vertigo, and neurajia. Respiratory System: Bronchitis, cough increased, dyspnea, pneumonia, and asthma. Skin and Appendages: Rashand pruritus. Laboratory Ahorrmalities: In the rosvastatin clinical in program, distich-positive porteinuria and microscopic hematuria were observed among
Appendages: Rash and pruritus. Laboratory Abnormalities: In the rosuvastatin clinical trial program, dipstick-positive proteinuria and microscopic hematuria were observed among rosuvastain-Ireated patients, predominantly in patients dosed above the recommended dose range (i.e., 80 mg). However, this finding was more frequent in patients taking rosuva-statin 40 mg, when compared to lower doses of rosuvastatin or comparator statins, though it was generally transient and was not associated with worsening renal function. (See PRECAUTIONS, Laboratory Tests.) Other abnormal laboratory values reported were elevated creatinien phospholiase, transamiases, hyperglycemia, gultamyl transpeti-dase, alkaline phosphatase, bilirubin, and thyroid function abnormalities. Other adverse events reported less frequently than 1% in the rosuvastatin clinical study program, regard less of causailly assessment included arritythmia. henatilis, hoversensitivity reactions. events reported less frequently than 1% in the rosuvastant olinical study program, regard-less of causality assessment, included arrhythmia, hepatitis, hypersensitivity reactions (i.e., face edema, thrombocytopenia, leukopenia, vesiculobullous rash, urticaria, and angioedema), kidney failure, syncope, mysathenia, myositis, pancreatitis, photoensitivity reaction, myopathy, and rhabdomyolysis. **Bostmarketing Experience** In addition to the events reported above, as with other drugs in this class, the following event has been reported during post-marketing experience with CRESTOR, regardless of causality assess-ment very rare cases of jaundice. **OVERDOSACE** There is no specific treatment in the event of overdose. In the event of overdose, the patient should be treated symptomatically and cuproptive measures instituted as reprined. Hearoidhoits does not infiftently event of overdose. In the event of overdose, the patient should be treated symptomatically and supportive measures instituted as required. Hemodialysis does not significantly enhance clearance of rosuvastatin. **DOSAGE AND ADMINISTRATION** The patient should be placed on a standard cholesterol-lowering diet before receiving CRESTOR and should continue on this diet during treatment. CRESTOR can be administered as a single dose at any time of day, with or without food. **Hypercholesterolemic** (Heterozygous Formilial and Nonframilial) and Mixed Dyslipidemic (Hetrozygous Formilial and Nonframilial) and Mixed Dyslipidemic daily. Therapy with CRESTOR should be individualized according to goal of therapy and response. The usual recommended starting dose of CRESTOR is 10 mg once daily, showere, initiation of therany with 5 m once daily, should be considered for natients However, initiation of therapy with 5 mg once daily should be considered for patients requiring less aggressive LDL-C reductions, who have predisposing factors for myopathy, and as noted below for special populations such as patients taking cyclosporine. Asian patients, and patients with severe renal insufficiency (see CLINICAL PHARMACOLOGY, Race, and Renal Insufficiency, and Drug Interactions. For patients with marked hypercho-lestrolemia (LD-C > 190 mg/dL) and aggressive lipid targets, 2:0-mg starting dose may be considered. After initiation and/or upon titration of CRESTOR, lipid levels should be analyzed within 2 to 4 weeks and dosage adjusted accordingly. The 40-mg dose of CRESTOR is reserved only for those patients who have not achieved their LDL-C goal utilizing the 20 mg dose of CRESTOR once daily (see WARNINGS, Myopathy). Rhabdomyolysis). When initiating statin therapy or switching from another statin therapy, the appropriate CRESTOR starting dose should first be utilized, and only then titrated according to the patient's individualized gaal of therapy. Homozzygous 2:0 mg once daily in patients with homozygous FH. The maximum recommended daily dose is 40 mg. CRESTOR should be used in these patients as an adjunct to other lipid-lowering treatments (e.g., LDL apheresis) or if such treatments are unavailable. Response to therapy However, initiation of therapy with 5 mg once daily should be considered for patients is to mise particular of the second we be an indee particular as an adjunct to other inparton treatments (e.g., LDL apheresis) or if such treatments are unavailable. Response to the should be estimated from pre-apheresis LDL-C levels. **Dosage in Asian Pat** Initiation of CRESTOR therapy with 5 mg once daily should be considered for to therap Transfer (e.g., DE aphresis) of more an event retained and the analysis of outputs of the approximated from pre-spheres in LD-2 levels. **Dosage in Asian Parliapts** Initiation of CRESTOR therapy with 5 mg once daily should be considered for Asian patients. The potential for increased systemic exposures relative to Caucasians is relevant when considering escalation of dose in cases where hypercholesterolemia is not adequately controlled at doses of 5, 10, or 20 mg once daily. (See WARNINGS, Myopathy/ Rhabdomyolysis, CLINICAL PHARMACOLOGY, Special Populations, Race, and PRECAU-TIONS, General). **Dosage in Parients Taking Cyclosporine** In patients taking cyclosporine, therapy should be limited to CRESTOR 5 mg once daily (see WARNINGS, Myopathy/Rhabdomyolysis, and PRECAUTIONS, Drug Interactions). **Concomitant Lipid-Lowering Therapy** The effect of CRESTOR should be limited to 10 mg once daily (see WARNINGS, Myopathy/Rhabdomyolysis, and PRECAUTIONS, Drug Interactions). **Dosage in Patients With Rend Insufficiency**. For patients with severe renal impairment (CL<sub>cr</sub> <30 mL/min/1.73 m<sup>2</sup>) not on hemodialysis, dosing of CRESTOR should be started at 5 mg once daily and not to exceed 10 mg once daily (see PRECAUTIONS, General, and CLINICAL PHARMACOLOGY, Special Populations, Rane Insufficiency). Insufficiency).

exposure at 40 mg/day based on body surface area comparisons. In pregnant rabbits given oral gavage dosse of 0.3, 1, 3 mg/kg/day from gestation day 6 to lactation day 18 (weaning), exposures equivalent to human exposure at 40 mg/day based on body surface area compar-isons, decreased fetal viability and maternal mortality was observed. Rosuvastatin was not teratogenic in rats at =25 mg/kg/day or in rabbits >3 mg/kg/day (systemic exposures equivalent to human exposure at 40 mg/day based on AUC or body surface comparison, respectively). **Nursing Mothers** It is not known whether rosuvastatin is excreted in human milk. Studies in lactating rats have demonstrated that rosuvastatin is excreted in breast milk at levels 3 times higher than that obtained in the plasma following oral gavage dosing. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursion infants from rosuvastatin a decision should be made

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