CLINICAL

CAPSULES

Drug Interaction Warning

Rifampin should not be given along with ritonavir-boosted saquinavir as part of combination antiretroviral therapy for HIV infection, according to the Food and Drug Administration and the drug's maker, Roche Laboratories Inc.

Drug-induced hepatocellular toxicity occurred in 11 of 28 healthy volunteers in a randomized, open-label, phase I trial of rifampin 600 mg once daily given with ritonavir 100 mg/saquinavir 1,000 mg twice daily. Transaminase elevations more than 20 times the upper limit of normal were

noted. The study was terminated, and after drug discontinuation, liver function tests in all affected subjects returned to normal. Roche is working with the FDA to make appropriate changes to the package inserts.

Anthrax Vaccine Authorization

Under an FDA Emergency Use Authorization (EUA), adults aged 18-65 years who are at increased risk of exposure to inhalational anthrax due to anthrax attack as determined by the Department of Defense (DOD)—are now eligible to receive Anthrax Vaccine Adsorbed (AVA) for prevention of the disease.

The FDA issued the EAU as requested by the DOD, which determined that there is significant potential for a military emergency involving a heightened risk to military forces associated with an anthrax attack. This is the first time the EAU authority is being used, and it is required for the use of AVA, because the use of the vaccine for prevention of inhalation anthrax is currently considered unapproved.

In response to a lawsuit in 2003 protesting the DOD's Anthrax Vaccine Immunization Program, the U.S. District Court for the District of Columbia issued a preliminary injunction barring AVA inoculations except in the case of informed consent or a presidential waiver of the informed consent requirement.

Although the injunction was lifted in January 2004, the court remanded the FDA's final rule and final order allowing the injunction to be lifted—effectively reinstating the injunction—to allow for reconsideration following an appropriate notice and comment period. That 90-day comment period began on Dec. 29.

Black Women and HIV

Black women account for the majority of new cases of HIV and AIDS in U.S. women, and this is particularly true in North Carolina, according to the Centers for Disease Control and Prevention.

In 2003, the HIV infection rate in that state was 14 times higher in black than in white women (MMWR 2005;54:89-94).

An epidemiologic investigation of 31 of the 208 black women aged 18-40 years in North Carolina who were diagnosed with HIV between January 2003 and August 2004 and 101 controls recruited from HIV testing sites showed that most women in both groups engaged in HIV sexual risk behaviors. Those receiving public assistance were more likely to be HIV positive (adjusted odds ratio 7.3), as were those with a history of genital herpes (adjusted OR 10.6). Women who discussed sexual behaviors and history with their male partners were less likely to be HIV-positive (adjusted OR 0.6).

The most common reasons given for engaging in risky sexual behaviors were financial dependence on male partners, feeling invincible, low self-esteem coupled with a need to feel loved by a male, and alcohol/drug use.

The findings underscore the need for a multifaceted approach to reducing HIV infection among black women, including programs that encourage delayed sexual activity, condom use, monogamy, and communication, according to the CDC.

MRSA Clone Tackles Athletes

An outbreak of skin abscesses among football players on the St. Louis Rams team was caused by an emerging, communityassociated clone of methicillin-resistant Staphylococcus aureus, Sophia V. Kazakova, M.D., of the CDC in Atlanta, and her colleagues reported.

During the 2003 football season, eight MRSA infections leading to large abscesses that required surgical intervention occurred in 5 of the 58 team members. All of the infections occurred at turf-abrasion sites, and they were significantly associated with playing lineman or linebacker positions, suggesting that person-to-person contact plays a role in transmission (N. Engl. J. Med. 2005;352:468-75).

The pulsed-field gel electrophoresis patterns of MRSA from competing teams and community-associated cases were indistinguishable from those of the Rams' MRSA, the investigators said, noting that the clone may be widely distributed in the

The CDC has begun population-based surveillance in several parts of the United States to help characterize emergence of MRSA in the community and guide public health interventions, they noted.

-Sharon Worcester

References: 1. Data on file. Pfizer Inc., New York, NY. 2. IMS Health Inc; May 2004.

LIPITOR® (Atorvastatin Calcium) Tablets

Brief Summary of Prescribing Information

CONTRAINDICATIONS: Active liver disease or unexplained persistent elevations of serum transaminases. 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. ATORVASTATIN SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNLIKELY 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 Liver Dysfunction — HMG-CoA reductase inhibitors, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function, Persistent elevations (3.4 times the upper limit of normal [UII]) occurring on 2 or more occasions) in serum transaminases 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 2.3% for 10.20, 40, and 80 mg, respectively, 0 no patient incident inside trials evels returned to or near pretreament levels without sequelae. Eighteen of 30 patients with persistent LIT elevations continued treatment with a reducted dose of atorvastatin, or discontinuation, transaminase levels returned to or near pretreament levels without sequelae

myopathy, Atorvastatin therapy should be temporarily withheld or discontinued in any patient with an acute, serious condition suggestive of a myopathy or having a risk factor predisposing to the development of renal failure secondary to rhabdomyohysis (eg. severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolded seizures).

PRECAUTIONS: General — Before instituting therapy with atorvastatin, an attempt should be made to control hypercholesterolemia with appropriate dict. exercise, and weight reduction in obese patients, and to reat other underlying medical problems (see INDICATIONS AND USAGE in full prescribing information). Information for Patients — Patients should be advised to report promptly unexplained muscle pain, tendemess, or weakness, particularly if accompanied by malaise or fever. Drug Interactions — The risk of myopathy during treatment with drugs of this class is increased with concurrent administration of cyclosporine, fibric acid derivatives, niacin (nicotinic acid), erythromycin, azole antifungals (see WARNINGS, Skeletal Muscle). Antariativ When atorvastatian and Maalox* of Ususpension were coadministered, plasma concentrations of atorvastatin decreased approximately 35%. However, LDL-C reduction was not altered. Antipyrine, Because atorvastatin does not affect the pharmacokinetics of antipyrine, interactions with other drugs metabolized via the same cytochrome isozymes are not expected. Colestipor. Plasma concentrations of atorvastatin decreased approximately 35%, when colestipol and atorvastatin were coadministered. However, LDL-C reduction were not altered by coadministration of cimetidine. Digoxin: When multiple doses of atorvastatin and expression server. The coadministered stady-distance and particular servers and an advantage and providential servers. And the coadministered and particular servers and an advantage and providential servers. And the coadministered and an oracle and particular servers and accordance a were significantly lower at 30 and 100 mg/kg and epididymal weight was lower at 100 mg/kg. Male rats given 100 mg/kg/day for 11 weeks prior to mating had decreased sperm motifity, spermatic head concentration, and increased abnormal sperm. Atorvastatin caused no adverse effects on semen parameters, or reproductive organ instopathology in dogs given dosses of 10, 40, or 120 mg/kg for two years. Pregnancy—Pregnancy Category X: See CONTRAINDICATIONS. Safety in pregnant women has not been established. 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 up to 300 mg/kg/day or in rabbits at doses up to 300 mg/kg/day. These doses resulted in multiples of about 30 times (rat) or 20 times (rabbit) the human exposure based on surface area (mg/m²) in a study in acts given 20 times (rab to 720 times (rabbit) the human exposure based on surface unled in mulpipes or about 30 mines 4rq or 20 mines (rabbit) the numen exposure based on surface.

"i", In a study in rats given 20,00, or 225 mg/kg/day, from gestation day 71 mough to lactation day 21 there was decreased pup survival at birth, neonate, weaning, and maturity in pups of mothers 1225 mg/kg/day. Body weight was decreased on days 4 and 21 in pups of mothers dosed at day, pup body weight was decreased at birth and at days 4, 21, and 91 at 225 mg/kg/day. Pup

May 2004.

development was delayed (rotorod performance at 100 mg/kg/day and acoustic startle at 225 mg/kg/day, pinnae detachment and eye opening at 225 mg/kg/day). These doses correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg) the human AUC at 80 mg/day. Rare reports of congenital anomales have been received following intrauterine exposure to HMG-CoA reductase inhibitors. There has been one report of severe congenital bony deformity, tracheo-esophageal fistula, and anal atresia (VATER association) in a baby born to a woman who took lovastatin with dextroamphetamine sulfate during the first trimester of pregnancy. LIPTOR should be discontinued and the pleaning obtential only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the woman becomes pregnant while taking LIPTOR, it should be discontinued and the patient advised along when such patients are highly unlikely to conceive and have been informed of the potential hazards again as to the potential hazards to the fetus. Nursing Mothers — Nursing rat pups had plasma and liver drug levels of 50% and 40%, respectively, of that in their mother's milk. Because of the potential for adverse reactions in nursing infants, women taking LIPTOR should not breast-feed (see CONTRAINDICATIONS). Pediatric Use — Safety and effectiveness in patients 10-17 years of age with heterozygous familial hypercholesterolemia have been evaluated in a controlled clinical trial of 6 months duration in adolescent boys and postmenarchal girls, Patients treated with LIPTOR had an adverse experience profile generally similar to that of patients treated with LIPTOR had on 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 CUNITRAINDICATIONS and Pfactor on growth or sexual

ADVERSE REACTIONS: UPITOR is generally well-loclared, Adverse reactions have usually been mild and transient, In controlled clinical studies of 2502 patients, <2% of patients were discontinued due to adverse experiences attributable to attorvastatin. The most frequent adverse events thought to be related to atorvastatin were constipation, flatulence, dyspepsia, and abdominal pain. Clinical Adverse Experiences Adverse experiences reported in ≥2% of patients in placebo-controlled clinical studies of atorvastatin, regardless of causality assessment, are shown in the following table.

Adverse Events in Placebo-Controlled Studies (% of Patients)					
Adverse Event		10 mg	20 mg	40 mg	80 mg
	N = 270	N = 863	N = 36	N = 79	N = 94
BODY 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
Hu 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
DIGESTIVE SYSTEM					
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
Hatulence	3.3	2.1	2.8	1.3	1.1
RESPIRATORY SYSTEM					
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
SKIN AND APPENDAGES					
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL SYSTEN					
Arthralgia	1.5	2.0	0.0	5.1	0.0
Myalgia	1.1	3.2	5.6	1.3	0.0

Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT)—In ASCOT (see CLINICAL PHARMACOLOGY, Clinical Studies in full prescribing information) involving 10,305 participants treated with LIPITOR 10 mg daily (n=5,168) or placebo (n=5,137), the safety and tolerability profile of the group treated with LIPITOR was comparable to that of the group treated with placebo during a median of 3.3 years of follow-up. erse events were reported, regardless of causality assessment in patients treated with ical trials. The events in italics occurred in ≥2% of patients and the events in plain type

Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized edema. Digestive System: Nausea, gastroenteritis, liver function tests abnorma; colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth uleration, anorexia, increased appetite, stomatitis, biliary pain, chelitis, duodenal ulcer, dysphagia, enteritis, mena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatitis, hepatitis, panereatitis, cholestatic jaundies. Respiratory appetite, stomatitis, biliary pain, cheiltis, duodenal ulcer, dysphagia, enteritis, melena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatiis, hepatitis, panerreatitis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. Nervous System: Insomnia, dizziness, paraesthesia, somnolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertonia. Musculoskeletal System: Arthitis, leg cramps, burstist, encosynovitis, mysathenia, tendinous contracture, myositis. Skin and Appendages: Pruntus, contact dermatitis, alopecia, dry skin, sweating, acne, urticaria, eczema, seborrhea, skin ulcer. Uroganital Systeme Vinary tract infaction, urinary frequency, cystitis, hematuria, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, albumiuria, breast energement, metrorrhagia, nephritis, urinary incontinence, urinary terention, urinary urgency, abnormal ejaculation, usterine hemorrhage, Special Senses: Amblyopia, tinnitus, dry eyes, refraction disorder, eye hemorrhage, deafness, glaucoma, parosmia, taste loss, taste perversion. Cardiovascular Systeme Palpitation, vasodilatation, syrcope, migraine, postural hypotension, phlebitis, arrhythmia, angina pectoris, hypertension. Metabolic and Nutritional Disorders: Peripheral edoma, hyperdylcemia, creatine phosphokinase increased, gout, weight gain, hypoglycemia. Hemic and Lymphatic System: Ecchymosis, anemia, lymphadenopathy, thrombocytopenia, petechia. Postintroduction Reports—Adverse events associated with LPITOR therapy reported since market introduction, that are not listed above, regardless of causality assessment, include the following: anaphylaxis, angioneurotic edema, bullour sahes (including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis), and rhabdomyolysis. Pediatric Patients (ages 10-17 years) In a 26-week contr

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OVERDOSAGE: 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

Please see full prescribing information for additional information about LIPITOR ©2004 Pfizer Ireland Pharmaceuticals R only

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U.S. Pharmaceuticals

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