Stenting Edges CABG for Multivessel Disease

Major Adverse Event Rates After 1 Year

 	Drug-Eluting Stent ARTS II (n = 607)	CABG ARTS I (n = 605)	Bare-Metal Stent ARTS I (n = 600)
Revascularization	7.4%	3.7%	17.0%
Myocardial Infarction	is 1.2%	3.5%	5.0%
Deaths	1.0%	2.7%	2.7%
Cerebrovascular Ever	nts 0.8%	1.8%	1.8%
Source: Dr. Serruys			

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 unex Hum creative this calculation of this calculation

LIPETOR® (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 acho chronic process and discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hypercholesterolemic. Cholesterol and other products of cholesterol biosynthesis are essential components for fatal development (including synthesis of storids and cell membranes). Since HMG-CoA reductase inhibitors decrease cholesterol 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 HAZAROS. 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, OF%, 05%, and 2.3% for 10, 20, 40, and 80 mg, respectively. One patient in clinical trials developed jaundice. Increases in liver function tests (LFT) in other patients were not associated with persistent LFT elevations continued treatment twist a reduced dose of atorvastatin, it is recommended that liver function tests continued treatment levels without sequelae. Eighteen of 30 patients with persistent LFT elevations of continued treatment with a reduced dose of atorvastatin. It is recommended that liver function tests continued treatment livel wereformed treatment through the atorvastatin, the atorvastatin is elevels bindle dose or truncing atory and any elevent on dose, and periodic

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area (mg/m²). In a study in rats given 20, 100, or 225 mg/kg/day, from gestation day 7 through to lactation (weaning), there was decreased pup survival at birth, neonate, weaning, and maturity in pups of mother dosed with 225 mg/kg/day, Bdy weight was decreased on days 4 and 21 in pups of mothers dosed at 100 mg/kg/day, pup body weight was decreased at birth and at days 4, 21, and 91 at 225 mg/kg/day. Pu

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A velopment was delayed (rotord performance at 100 mg/kg/day and acoustic startle at 225 mg/kg/day, and acoustic startle at 225 mg/kg/day, and acoustic startle at 225 mg/kg/day, and acoustic startle at 225 mg/kg/day. These doses correspond to 6 times (100 mg/kg/day) and 2 times (225 mg/kg/day). These doses correspond to 6 times (100 mg/kg/day) and 2 times (225 mg/kg/day). These doses correspond to 6 times (100 mg/kg/day) and 2 times (225 mg/kg/day). There has been one report of severe congenital bony deformity, tracheo-esophageal fistula, and anal attesia (VATER association) in a baby born to a whole took lowastatin with dextroamphetamine sulfate during the first trimester of pregnancy. Unikely to should be discontinued and the patient advised again as to the potential hazards to the fetus. There has been one report of severe conceive and have been informed of the potential hazards. If the voman becomes pregnant while taking the first trimester of pregnancy, UHTOR, it should be discontinued and the patient advised again as to the potential hazards to the fetus. The think in mother smile, Because of the potential for adverse reactions in nursing information, who the during the first trimester of pregnancy. UHTOR is the most of controlled taking the first trimester of pregnancy, UHTOR is the most of controlled to the patient streated with placeb, the most controlled to a daverse experiences observed in both groups, regardless of causalty assessment, were infertions. **Doses presenthan 200 mpake not obeen studied in this instret over based with a controlled study, see CUNTRAITOR (DK).** *Chical Studies action in ULI prescribing information. Adverse streated with placeb, the most see curse avained and adverse experiences observed in both groups, regardless of ausalty assessment, were infertions. Doses presenthan 200 mpake 100 proves to age. Clinical efficiency with see their evaluation in adolescent towas and elocated with place Antoverse there and adverse experiences as based to a agrorphita contrester d*

Adverse Events in Placebo-Controlled Studies (% of Patients) Placebo Atorvastatin Atorvastatin Atorvastatin BODY SYSTEM atin Atorvastatin

Adverse Event		TU mg	zu mg	40 mg	aung
	N = 270	N = 863	N = 36	N = 79	N = 94
BODY AS A WHOLE					
nfection	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
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
Flatulence	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 APPENDAGE	S				
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL SYS	STEM				
Arthralgia	1.5	2.0	0.0	5.1	0.0
Myalgia	1.1	3.2	5.6	1.3	0.0

nglo-Scandinavian Cardiac Outcomes Trial (ASCOT)—In ASCOT (see CLINICAL PHARMACOLOGY, *inical Studies* in full prescribing information) involving 10.305 participants treated with LIPTOR 10 mg daily =5,1680 or placebo (n=5,137), the safety and tolerability profile of the group treated with LIPTOR was imparable to that of the group treated with placebo during a median of 3.3 years of follow-up. The following adverse events were reported, regardless of causality assessment in patients treated with atorvastatin in clinical trials. The events in italics occurred in ≥2% of patients and the events in plain type

The holowing adverse events were reported, regardness of causing assessment in patients retaided with atorvastatin in clinical trials. The events in falces occurred in 22% of patients and the events in plain type occurred in 42% of patients. Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalize edema. Digestive System: Nausea, gastroenteritis, liver function tests abnormal, coltis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, bilary pain, chellitis, duodenal ulcer, dysphagia, enteritis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneutinonal dreams, bilotido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial parahysis, hyperkinesia, depression, hypesthesia, hypertonia, musculoskeletal System: Arthritis, leg crames, bursitis, tenosymovitis, myasthenia, tendinous contracture, myostiis. Skin and Appendages: Puritus, contact dermatitis, alopacia, dry skin, sweating, acne, utricaria, eczema, seborthea, skin ulcer. Urogenial System: Unany, tracutinece, urinary retention, urinary urgency, abnormal ejaculation, syncope, migraine, postural hypotension, philobil, satologa, and senses, adhornece, urinary retention, urinary urgency, abnormal ejaculation, syncope, migraine, postural hypotension, philobil, antitybrania, angina pactoris, hypertension. Metabolic and Nuterita Disorders, Peripharal edema, hyperglycemis, creatine phosphokinase increased, gout, weight gain, hypotylycemia, Henci and Bynepta-deverse event as associated with IHTOR therapy reported since marks introduction flaver as enversion. Cardiovascular System: Patientian, support diserabilic and Nuteritional Disorder, peristar and hymphateinopathy, thrombocytopene, patechia, Pastintroduction Meetaboli abverse, regardless of causality assessment, include the following: anaphyakis, angioneurotic edema, hyperglycemia, acreatine phosp

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 clearance.

ee full prescribing information for additional information about LIPITOR. ©2004 Pfizer Ireland Pharmaceuticals Manufactured by: Pfizer Ireland Pha Dublin, Ireland



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BY MITCHEL L. ZOLER Philadelphia Bureau

ORLANDO, FLA. — Stenting may have edged past coronary bypass surgery for treating patients with multivessel coronary disease, based on data from an uncontrolled series of 607 patients who underwent revascularization using drug-eluting stents.

In the multicenter series, 54% of patients had triple-vessel disease and 46% had twovessel disease. All patients were treated with percutaneous coronary intervention using sirolimus-eluting (Cypher) coronary stents. The Arterial Revascularization Therapies Study Part II (ARTS II) was designed to test whether multivessel stenting was not inferior to coronary bypass graft (CABG), Patrick Serruys, M.D., said at the annual meeting of the American College of Cardiology.

The study's primary end point was the combined rate of death, MI, stroke or transient ischemic attack, and need for revascularization 1 year after treatment. This combined rate was 10.4%, compared with a 11.7% rate in a similar series of 605 patients who underwent coronary bypass surgery during the late 1990s in ARTS I, reported Dr. Serruys, chief of interventional cardiology at the thorax center of Erasmus University in Rotterdam, the Netherlands.

In ARTS II, the incidence of death was 1.0%, the rate of cerebrovascular events was 0.8%, the rate of MI was 1.2%, and the rate of clinically necessary revascularization procedures was 7.4%. (See box.) In the historic series of patients who had coronary surgery, the 1-year rate of death was 2.7%, the rate of cerebrovascular events was 1.8%, the rate of MI was 3.5%, and the rate of clinically necessary revascularization was 3.7%.

Comparison of the combined adverse events showed that stenting was not inferior to CABG. The results further showed that stenting was statistically superior to bypass surgery after 1 year of follow-up, Dr. Serruvs said.

An additional analysis compared the combined outcomes of the two series. After adjustment for baseline differences in the patients in both studies, the combined rate of major adverse events was 8.1% with stenting and 13.1% with bypass surgery.

"This study is a breakthrough," commented Valentin Fuster, M.D., director of the cardiovascular institute at Mount Sinai Medical Center, New York. "Even though this was not a prospective, randomized, controlled study, I'm convinced that for patients with multivessel disease, drug-eluting stents may have more of an impact today on the rate of death and myocardial infarction than coronary artery bypass grafting."

The biggest question remaining is whether surgery or drug-eluting-stent placement is the best treatment for patients with diabetes and multivessel coronary disease. In the new study, 26% of enrolled patients had diabetes, so the applicability of the results to patients with diabetes remains unclear.

The superiority of stenting with sirolimus-eluting stents in ARTS II contrasted with the results of the bare-metal-stent arm of ARTS I. In that series of 600 patients, done concurrently with the coronary bypass arm, the combined rate of major adverse events was 26.5% after 1 year, primarily because the rate of clinically necessary revascularization was 17.0%.

The difference in revascularization rates between ARTS I, with bare-metal stents, and ARTS II, with drug-eluting stents, "shows the difference that drug-eluting stents make," commented Fayez Shamoon, M.D., a cardiologist at St. Michael's Medical Center, Newark, N.J.