

| | | | atorvastatin | | |
|-------------------------------|------------------|----------------|---------------|---------------|---------------|
| Body System/ Adverse Event | Placebo N=270 | 10 mg N=863 | 20 mg N=36 | 40 mg N=79 | 80 mg 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 |
| 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 APPENDAGES | | | | | |
| Rash | 0.7 | 3.9 | 2.8 | 3.8 | 1.1 |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Arthralgia | 1.5 | 2.0 | 0.0 | 5.1 | 0.0 |
| Myalgia | 11 | 32 | 5.6 | 13 | 0.0 |

Arthralgia 1.5 2.0 0.0 5.1 0.0 Myagia 1.1 3.2 5.6 1.3 0.0 Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT): In ASCOT 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 vas comparable 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 occurred in <2% of patients. Body as a Whole: *Chest pain*, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized edema. Digestive System: *Nausea*, gastroenteritis, liver function tests abnormal, colits, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, heaptitis, 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 enuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertonia. Musculoskeletal System: *Arhinitis*, leg ramps, bursitis, tenosynovitis, myasthenia, tendinous contracture, myositis. Sith and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, uriticaria, eczema, seborthea, skin ulcer, turgenital System: *Urinary tract infection*, urinary frequency, cystitis, hematuria, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, alabuminuria, breast enlargement, metrorrhagia, neptritis, urinary incontinence, urinary retention, urinary tract infection, partenso, metaes, glaucoma, parosmi, taste loss, taste perversion. Cardiovascular System: Papifation, vasolilata

Angioneurotic edema, bullous rashes (Including erymental inductorine, stevens-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 **PRECAUTIONS**, **Pediatric Use**). **OVERDOSAGE**: There is no information on overdosage with CADUET in humans. **Information on Amlodipine**: Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in mice and rats, respectively, caused deaths. Single oral amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in dogs (11 or more times the maximum recommended clinical dose on a mg/m² basis) caused a marked peripheral vasodilation and hypotension. Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited. Reports of intentional overdosage include a patient who ingested 250 mg and was asymptomatic and was not hospitalized and had hypotension (90/50 mmHg) which normalized following plasma expansion. A patient who took 70 mg amlodipine dat unknown quantity of benzodiazepine in a suicide attempt developed shock which was referatory to treatment and died the following day with abnormally high benzodiazepine plasma concentration. A case of accidental drug overdose has been documented in a 19-month-old male who ingested 30 mg amlodipine (about 2 mg/kg). During the emergency room presentation, vital signs were stable with no evidence of hypotension, but a heart rate of 180 bpm. Ipecac was administered 3.5 hours after ingestion and on subsequent observation (overnight) no sequelae were noted. If massive overdose should occur, active cardiac and respiratory bockade. As amlodipine is limited. Terquent blood pressure measurements are essentia. Should hypotension cource, cardiovascular support including elevation of the extremities and the judicious administration of fl

"Based on patient weight of 50 kg. *These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side effects was between 1% and 2% in all multiple dose studies.

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Immune Modulation Helps Some HF Patients

BY SHERRY BOSCHERT San Francisco Bureau

SEATTLE — Immune modulation therapy for patients with chronic heart failure did not reduce deaths or hospitalizations but was helpful in two subsets of patients in a 2,426-patient trial, Dr. Guillermo Torre-Amione reported.

Prespecified subgroup analyses found fewer deaths or hospitalizations with Celacade immune modulation therapy than with placebo in patients with New York Heart Association (NYHA) class II heart failure and in patients with class III-IV heart failure but no history of MI, he said at the annual meeting of the Heart Failure Society of America.

The randomized, double-blind, placebo-controlled Advanced Chronic Heart Failure Clinical Assessment of Immune Modulation Therapy (ACCLAIM) trial showed that the Celacade technology was safe and well tolerated and "helpful in heart failure from nonischemic etiology, and in patients with ischemic etiology who have not yet reached more advanced disease stages," said Dr. Torre-Amione, medical director at the Methodist DeBakey Heart Center, Houston, and his associates.

Dr. Torre-Amione has received honoraria and research funding from Vasogen Inc., which funded the trial and owns the experimental Celacade technology.

Celacade therapy targets the chronic inflammation associated with cardiovascular disease. Samples of whole blood taken from patients randomized to Celacade therapy were subjected to oxidative stress and returned to patients via intramuscular injection. The oxidative stress induces cell apoptosis and triggers other reactions that increase production of anti-inflammatory cytokines and regulatory T cells that help reduce chronic inflammation, the investigators said.

blood samples took place on days 1, 2, and 14, then every 30 days for 22 weeks or longer during June 2003-November 2005. All patients were on standard medications for heart failure, as tolerated. The mean follow-up in the study was 10 months.

There was no significant difference at 600 days between the Celacade and placebo groups in the primary combined end point of death from any cause or hospitalization for cardiovascular reasons. Quality-of-life scores were significantly better in the Celacade group than in placebo patients in preplanned analyses of secondary end points. The number of serious adverse events was similar between groups, as was the number of patients with more than one serious adverse event.

Among 900 patients with no prior MI, however, there were 26% fewer deaths or cardiovascular hospitalizations with Celacade compared with placebo, and patients fared better on secondary end points with Celacade as well, Dr. Torre-Amione said.

Among 700 patients with NYHA class II heart failure, there were 29% fewer deaths or cardiovascular hospitalizations with Celacade compared with placebo.

In a separate analysis of a combined group of 1,300 patients (about half of all patients in the study) with either class II heart failure or class III-IV but no history of MI, there were 165 deaths or heart failure hospitalizations in the Celacade group, compared with 226 in the placebo group, a highly statistically significant difference. In addition, the Celacade group had fewer mean days in the hospital for heart failure or for any cause, he said.

The study took place in 177 centers in North America, Europe, and Israel. Patients predominantly were white males and had a mean age of 64 years. All had a baseline ejection fraction of 30% or less and prior hospitalization (or outpatient treatment with IV medication) for heart failure within the previous 12 months. Sixty-two percent of patients had a history of MI.

Outpatient treatment with the 10-mL

LVAD Plus Remodeling Drugs Can Reverse Severe Heart Failure

Severe heart failure can be reversed in some cases by using a left ventricular assist device to temporarily "unload" the myocardium plus a drug regimen to promote reverse remodeling, reported Dr. Emma J. Birks of the Royal Brompton and Harefield (England) National Health Service Trust and her associates.

In a study of 15 patients who received this treatment for nonischemic cardiomyopathy, 11 recovered sufficiently after a mean of 320 days to qualify for removal of the device. Ten of them survived with marked improvement that has persisted for over 4 years, the researchers said.

Following LVAD implantation, the patients received an ACE inhibitor (lisinopril), angiotensin-receptor blocker (losartan), a nonselective β-blocker (carvedilol),

and an aldosterone antagonist (spironolactone) to enhance reverse remodeling. After maximal regression in the left ventricular end-diastolic diameter was achieved, the nonselective β -blocker was replaced with a selective β_1 -blocker together with clenbuterol, a selective β_2 -agonist, to prevent myocardial atrophy.

Eleven patients showed significant clinical improvement accompanied by marked functional changes in the myocardium and improved hemodynamics, exercise capacity, and quality of life. Ten (75%) fully recovered after the device was removed (N. Engl. J. Med. 2006;355:1873-84).

This study was supported in part by Thoratec, manufacturer of the HeartMate LVAD.