Who Should Care for End-Stage Heart Failure?

BY DAMIAN MCNAMARA

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BOCA RATON, FLA. — When it comes to treatment options, palliative care, and decision making for patients with end-stage heart failure, cardiologists, internists, family physicians, and geriatricians are similarly lacking in awareness, according to a national pilot

The American College of Cardiology

and the American Heart Association's recommendations for the care of heart failure patients include a call for cardiologists to counsel patients about end-oflife issues.

However, most of the care of heart failure patients is done by noncardiologist physicians, and there is still uncertainty about which physicians should address end-of-life concerns with end-stage heart failure patients.

"The question is, who is going to have

'the talk'?" Dr. Paul J. Hauptman said in an interview

"More and more patients have heart failure, and more and more patients are going to die from heart failure. What are we going to do with this burgeoning population of patients with heart failure?" asked Dr. Hauptman, professor of medicine, division of cardiology, and director of heart failure/transplantation at St. Louis (Mo.) University.

In an attempt to answer that question,

Dr. Hauptman and his associates surveyed cardiologists, family physicians, internists, and geriatricians about the management of patients with end-stage heart failure. The investigators randomly selected physicians from the American Medical Association Master File.

The administration of the 51-question survey is ongoing, with the goal of garnering opinions from 1,450 physicians. Preliminary results from 76 responses were given in a poster presentation at the annual meeting of the Heart Failure Society of America.

The survey indicates a similar lack of awareness about published guidelines for heart failure (44% of cardiologists, 47% of

The noncardiologists believed that they, and not cardiologists, should initiate end-of-life discussions with their patients, but few said they had ever done so.

noncardiologists), a similar belief in leftventricular pacing as a life-extending measure (44% of cardiologists, 41% of noncardiologists), and a similar level of uncertainty about when to refer a patient to hospice care (52% of cardi-

ologists, 53% of noncardiologists).

Almost 85% of the noncardiologists who responded to the survey said they believed that they, and not cardiologists, should initiate end-of-life discussions with their patients. "The noncardiologists really thought they were better [at that] than the cardiologists," Dr. Hauptman com-

However, he added, most of the generalists reported that they had never had such a discussion with a patient or a patient's family.

'Cardiologists have an acute-care perspective. We don't really know about what is going on at the end of life," Dr. Hauptman said. "It's going to take education and discussions at national meetings [to understand that].'

The majority of respondents (91% of cardiologists, 67% of noncardiologists) do not use standard quality of life measurements for patients with end-stage heart

This would be kind of shocking" if confirmed by the full survey, he said.

Most of the cardiologists who were surveyed (65%) said that they have discussed implantable cardioverter defibrillator deactivation with an end-stage patient or family member, compared with 35% of noncardiologists.

With the increasing prevalence of heart failure, Dr. Hauptman asserted, "more patients are going to show up with a device. Do you turn them off or [do you] not turn them off?'

Dr. Hauptman said that he hoped the final results of the survey would provide even more insight about physicians' attitudes toward end-stage heart failure and that the information will be able to be used to design effective interventions in the future.

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 contrainficated during pregnancy and in nursing mothers.

ATORNASTATIN 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.

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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 times the upper limit of normal IULN) occurring on 2 or more occasions) in serum transaminases occurred in 0.7% of patients who received atovastatin in clinical trials. The incidence of these abnormalities was 0.2%, 0.2%, 0.0%, and 2.3% for 10, 20, 40, and 80 mg, respectively. One patient in clinical trials developed jaundice. Increases in liver function tests (ITT) in other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without sequelaes lighten of 30 patients with persistent LTF elevations continued treatment with a reduced dose of atovastatin, 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 (eg. semiannually) thereafter. Liver enzyme changes generally occur in the first 3 months of treatment with arotustatin. 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 atorvastatin is recommended. Atorvastatin 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 contraindications to the use of atorvastatin security and persistent transaminase elevations are contraindications to the use of atorvastatin security and persistent should be advised to report promptly unexplained muscle pain, tenderness or weakness, and/or marked elevation of CPK. Patients shoul

Abrocastain therapy should be temporarily withheld or discontinued in any patient with an acute, serious condition suggestive of a mypathy or having a risk factor predisposing to the development of renal failure secondary to rhabdomyolysis (eg. severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte discorders, and uncentral designation, and acute of control hypotensions. The proper designation of the property of the property

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 anomalies 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 atresis (VATER association) in a baby born to a woman who took lovastatin with dextroamphetamine sulfate during the first trimester of pregnancy. LIPTOR should be administered to women of child-bearing potential 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 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 [50 mg/kg]. The 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 placebo, the most common adverse experience sobserved 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 CLINICAL PHARMACOLOGY, Clinical Studies section in till prescribing information, Adolescent females should be counseled on appropriate contraceptive methods while on LIPTOR therapy (see CONTRAINDIOS) and PRECAUTIONS, Pregnancy, LIPTOR has not been studied in controlled clinical trials involving pre-pubertal patients or patients younger than 10 years of age) in full prescribing inform

age groups.

ADVENSE REACTIONS: LIPITOR is generally well-tolerated. 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 atorvastatin. 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
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 SYSTE	М				
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
SKIN AND APPENDA	GES				
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL	SYSTEM				
Arthralgia	1.5	2.0	0.0	5.1	0.0
Mya l gia	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.

orative Atorvastatin Diabetes Study (CARDS)—In CARDS (see CLINICAL PHARMACOLOGY, Clinical Studie prescribing information) involving 2838 subjects with type 2 diabetes treated with LIPTIDR 10 mg daily (n=1428) ebot (n=1410), here was no difference in the overall frequency of adverse events or serious adverse events en the treatment groups during a median follow-up of 3.9 years. No cases of rhabdomyolysis were reported.

atorvastatin in clinical trials. The events in italics occurred in 22% 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, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, biliary pain, chellitis, duodenal ulcer, dysphagia, entertis, melena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatitis, hepatitis, pancettis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. Nervous System: Insomnia, dizziness, paresthesia, sonnonolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypestenia, Bypestronia, Musculoskeletal System: Arthritis, lag cramps, bursitis, tenosynovitis, myasthenia, tendinous contracture, myositis. Skin and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, urticaria, eczean, seborrhea, skin ulcer. Uncapental System: Urinary tract infection, hematuria, albuminuria, urinary frequency, cystitis, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, breast enlargement, metorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency, abnormal ejaculation, uterine hemorrhage. Special Senses: Amblyopia, timinitus, orty eyes, refraction disorder, eye hemorrhage, deafness, glacucona, parosmia, taste loss, taste perversion. Cardiovascular System: Palpitation vasodilatation, syncope, migraine, postural hypotension, phebitis, arrhythmia, angina pectoris, hypertension. Metabolic and Nutritional Disorders: Peripheral edema, hyperglycemia, semessment, include the following: anaphylaxis, angioneurotic edema, bullous rashes l 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, hemoidalysis is not expected to significantly enhance atorvastatin clearance. mation about LIPITOR

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