Helping Patients Stick With Lifestyle Modification

BY SHERRY BOSCHERT San Francisco Bureau

SAN FRANCISCO — Most physicians believe in urging hypertensive patients to alter their lifestyle in beneficial ways, even though this seldom happens, Norman Kaplan, M.D., said at the annual meeting of the American Society of Hypertension.

'I'm not sure that we're going to be depending as much on lifestyle modifications as we have in the past" because of the

-acid ethyl esters) Capsules

108

-4.8 314 -1.7 24 0.0

+49.3

DESCHIPTION Omacor, a lipid-regulating agent, is supplied as a liquid-filled gel capsule for oral administration. Each one gram capsule of Omacor (omega-3 acid ethyl esters) contains at least 900 mg of the ethyl esters of omega-3 fatty acids. These are predominantly a combination of ethyl esters of eicosapentaenoic acid (EPA - approximately 465 mg) and doccsahexaenoic acid (DHA - approximately 375 mg).

CLINICAL STUDIES The effects of Omacor 4 g per day were assessed in two randomized, placebo-controlled, double-blind, parallel-group studies of 84 adult patients (42 on Omacor, 42 on placebo) with very high triglyceride levels (Table 1). Patients whose baseline triglyceride levels were between 500 and 2000 mg/dL were enrolled in these two studies of 6 and 16 weeks duration. The median triglyceride and LDL-C levels in these patients were 792 mg/dL and 100 mg/dL, respectively. Median HDL-C level was 23.0 mg/dL.

Table 1. Median Baseline and Percent Change From Baseline in Lipid Parameters in Patients with Very High TG Levels (≥500 mg/dL)

-9.7

Omacor 4 g per day reduced median TG, VLDL-C, and non-HDL-C levels and increased median HDL-C from baseline relative to placebo. Omacor treatment to reduce very high TG levels may result in elevations in LDL-C and non-HDL-C in some individuals. Patients should be monitored to ensure that the LDL-C level does not increase excessively. The effect of Omacor on the risk of pancreatitis in patients with very high TG levels has not been evaluated. The effect of Omacor on cardiovascular mortality and morbidity in patients with very high TG levels has not been evaluated.

INDICATIONS AND USAGE Omacor_is indicated as an adjunct to diet to reduce very high (≥500 mg/dL) triglyceride (TG) levels in adult patients

According to accepted clinical guidelines, excess body weight and excess alcohol intake may be important tactors in hypertriglyceridemia (HTG) and should be addressed before initiating any drug therapy. Physical exercise can be an important ancillary measure. Diseases contributory to hyperlipidemia, (such as hypothyroidism or diabetes mellitus) should be looked for and adequately treated. Estrogen therapy, thiazide diuretics, and beta blockers are sometimes associated with massive rises in plasma TG levels. In such cases, discontinuation of the specific etiologic agent may obviate the need for specific drug therapy for HTG. The use of lipid-regulating agents should be coisdered only when reasonable attempts have been made to obtain satisfactory results with non-drug methods. If the decision is made to use lipid-regulating agents, the patient should be advised that use of lipid-regulating agents does not reduce the importance of adhering to diet. (See PRECAUTIONS).

Initial interapy Laboratory studies should be performed to ascertain that the patient's TG levels are consistently abnormal before instituting Omacor therapy. Every attempt should be made to control serum TG levels with appropriate diet, exercise, weight loss in overweight patients, and control of any medical problems (such as diabetes mellitus and hypothy-rodism) that may be contributing to the patient's TG abnormalities. Medications known to exacerbate HTG (such as

beta blockers, thiazides, and estrogens) should be discontinued or changed, if possible, before considering TG-lower

Deta Diuckeio, unaccessing ing drug therapy. Continued Therapy Laboratory studies should be performed periodically to measure the patient's TG levels during Omacor therapy. Omacor therapy should be withdrawn in patients who do not have an adequate response after 2 months of treatment.

Umacor therapy should be withdrawn in patients who do not have an adequate response after 2 months of treatment. **Information for Patients** Omacor should be used with caution in patients with known sensitivity or allergy to fish. Patients should be advised that use of lipid-regulating agents does not reduce the importance of adhering to diet. **Laboratory Tests** In some patients, increases in alanine aminotransferase (ALT) levels without a concurrent increase in aspartate

In some patients, increases in alanine aminotransferase (ALT) levels without a concurrent increase in aspartate aminotransferase (AST) levels were observed. Alanine aminotransferase levels should be monitored periodically during Omacor therapy. In some patients, Omacor increased low-density lipoprotein cholesterol (LDL-C) levels. As with any lipid-regulating product,LDL-C levels should be monitored periodically during Omacor therapy. **Drug Interactions**

Anticaguiants Some studies with omega-3-acids demonstrated prolongation of bleeding time. The prolongation of bleeding time reported in these studies has not exceeded normal limits and did not produce clinically significant bleeding episodes. Clinical studies have not been done to thoroughly examine the effect of Omacor and concomitant anticoag-ulants. Patients receiving treatment with both Omacor and anticoaguiants should be monitored periodically. *Cytochrome P450-Dependent Monoxygenase Activities* Omega-3-fatty acid containing products have been shown to increase hepatic concentrations of cytochrome P450 and activities of certain P450 enzymes in rats. The potential of Omacor to induce P450 activities in humans has not been studied

. CONTRAINDICATIONS Omacor is contraindicated in patients who exhibit hypersensitivity to any component of this medication

ing to accepted clinical guidelines, excess body weight and excess alcohol intake may be important factors in

T6
LDL-C
CHOL
HDL-C
VLDL-C
non-HDL-C

BL
% Chg
Mail
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% Chg

22 +9.1

175

175 -41.7 271 -13.8

-0.9 292

Brief Summary of Prescribing Information

OMACOR®

DESCRIPTION

Placebo

Omaco 4g/day

Usage Co

PRECAUTIONS General

Initial Therapy

Accord

788 +6.7

816 -44.9 89 +44.5 296

-51.6

recognition that high blood pressures need to be lowered quickly, said Dr. Kaplan, professor of medicine at the University of Texas, Dallas. He described lifestyle modifications that do and don't work in treating hypertension:

▶ Smoking cessation. Usually found at the bottom of lists of lifestyle modifications for treating hypertension, smoking cessation deserves first mention because it is the major reversible cardiovascular risk factor in hypertensive smokers. Until recently, physicians didn't recognize the pressor effects of nicotine because patients weren't allowed to smoke during blood pressure measurements. Ambulatory monitoring consistently shows higher blood pressures while smoking.

Advise patients repeatedly to stop smoking, and explain or show to them the pressor effect of smoking, Dr. Kaplan said. Nicotine replacement products such as patches should not have persistent pressor effects but advise patients to check their

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blood pressure on these products because some people may be particularly sensitive. ▶ Weight loss. Significant weight loss reduces blood pressure, but most dieters put the pounds back on in a short amount of time. Studies comparing weight loss diets suggest that the cheapest and "probably the most logical" method-Weight Watchers-may be the best diet strategy, he said.

For morbidly obese people (body mass index greater than 40 kg/m^2), gastric bypass surgery typically results in a 30% weight loss over a 10-year follow-up, as shown in a study of 1,000 patients. The surgery reduced the incidence of diabetes by about one-third and lowered the risk of dyslipidemia and hyperuricemia, compared with not having gastric bypass surgery, Dr. Kaplan said. But the surgery did not radically alter the risk for hypertension.

Gastric banding surgeries have been less successful in morbidly obese patients. It appears that enough food is forced past the banded stomach over time that the patient regains the weight initially lost after surgery. ▶ Physical activity. Unhealthy diets and physical inactivity share equal blame for Americans' march toward morbid obesity.

Duration is more important than intensity of physical activity for lowering blood pressure, studies show. Thirty minutes on a treadmill at 50%-75% of maximal heart rate significantly reduced blood pressure with effects persisting over 24 hours, one study found, he said.

A metaanalysis of studies on diabetic patients found that walking as little as 2 hours or more each week reduced mortality by about 40%, compared with less active patients, Dr. Kaplan said.

▶ Sodium reduction. Patients who reduce their sodium intake typically return to old habits over time. The result is that no difference is seen after 5 years, according to an analysis of about 30 studies.

High-sodium foods abound in U.S. culture, with 1,000-3,000 mg sodium in some fast food items. "Most people have no perception of what they're eating when they eat this kind of food," he said.

► Moderation of alcohol. Drinking modest amounts of alcohol while eating food does not increase the risk of hypertension and may even provide some cardiovascular benefits, he said. Consuming alcohol without food or having more than three drinks per day increases the risk for hypertension and other health problems.

▶ Increasing potassium. Hypertensive patients can reduce their blood pressure by taking 40-80 mmol/day of supplemental potassium, but it's better to recommend that patients eat more fruits and vegetables to boost their potassium intake. One reason the Dietary Approaches to Stop Hypertension diet works is that it triples the typical potassium intake, Dr. Kaplan noted.

Reducing caffeine. Be aware that the first cup of the day causes a pressor effect in many people. Advise patients monitoring their blood pressure to check before and after drinking coffee or tea containing caffeine, he advised.

► Calcium or magnesium. These minerals, in the form of supplements, have no significant effect on hypertension, Dr. Kaplan said.

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and known whether omega-3-acid ethyl esters are excreted in human milk. Because many drugs are excreted in nan milk, caution should be exercised when Omacor is administered to a woman who is breastfeeding. Pediatric Use Safety and effectiveness in pediatric patients under 18 years of age have not been established.

a-3-acid ethyl esters) Capsules

Generatic Use A limited number of patients over 65 years of age were enrolled in the clinical studies. In the pooled analyses, safety and efficacy findings in subjects over 60 years of age (approximately 25% of the study population) did not appear to differ from those of subjects less than 60 years of age.

ADVERSE REACTIONS

Treatment-emergent adverse events reported in at least 1% of patients treated with Omacor 4 g per day or placebo during 8 andomized, placebo-controlled, double-blind, parallel-group studies for HTG are listed in Table 2. Adverse events led to discontinuation of treatment in 3.5% of patients treated with Omacor and 2.6% of patients

Table 2. Adverse Events in Randomized, Place Hypertriglyceridemia That Used Omacor 4 g per Day led, Double-Blind, Parallel-Group Studies for

SAGIEW	

BODY SYSTEM	(N = 226)		(N = 228)			
Adverse Event	n	%	n	%		
Subjects with at least 1 adverse event	80	35.4	63	27.6		
Body as a whole						
Back pain	5	2.2	3	1.3		
Flu syndrome	8	3.5	3	1.3		
Infection	10	4.4	5	2.2		
Pain	4	1.8	3	1.3		
Cardiovascular						
Angina pectoris	3	1.3	2	0.9		
Digestive						
Dyspepsia	7	3.1	6	2.6		
Eructation	11	4.9	5	2.2		
Skin						
Rash	4	1.8	1	0.4		
Special senses						
Taste perversion	6	2.7	0	0.0		
Adverse events were coded using COSTART, version 5.0. Subjects were counted only once for each body system						

*Placebo was corn oil for all studie:

Additional adverse events reported by 1 or more patients from 22 clinical studies for HTG are listed below: BODY AS A WHOLE: enlarged abdomen, asthenia, body odor, chest pain, chills, suicide, fever, generalized edema, fungal infection, malaise, neck pain, neoplasm, rheumatoid arthritis, sudden death, and viral infection. CARDIOVASCIULAR SYSTEM: arrhythmia, bypass surgery, cardiac arrest, hyperlipemia, hypertension, migraine, myocardial infarct, myocardial ischemia, occlusion, peripheral vascular disorder, syncope, and tachycardia. DIGESTIVE SYSTEM: anorexia, constipation, dry mouth, dysphagia, colitis, fecal incontinence, gastribis, gastrointestinal disorder, increased appetite, intestinal obstruction, melena, pancreatitis, tenesmus, and vomiting. HEMATOLOGIC-LYMPHATIC SYSTEM: tymphadenogathy. METABOLIC AND NUTRITIONAL DISORDERS: edema, hyperglycemia, increased ALT, and increased AST. MUSCULOSKELETAL SYSTEM: cartralia, arthritis, myalgia, pathological fracture, and tendon disorder. NERVOUS SYSTEM: central nervous system neoplasia, depression, dizziness, emotional lability, facial paralysis, insompia vacordilation and vertino.

nisomnia, vasodilatation, and vertigo. RESPIRATORY SYSTEM: asthma, bronchitis, increased cough, dyspnea, epistaxis, laryngitis, pharyngitis, pneumonia, HESTINATION STOLEM. Business Section 2015 Automatical Stoces Stoc

DRUG ABUSE AND DEPENDENCE Omacor does not have any known drug abuse or withdrawal effects.

OVERDOSAGE In the event of an overdose, the patient should be treated symptomatically, and general supportive care measu instituted, as required.

DOSAGE AND ADMINISTRATION Patients should be placed on an appropriate lipid-lowering diet before receiving Omacor, and should continue this diet during treatment with Omacor. In clinical studies, Omacor was administered with meals. dose of Omacor is 4 g per day. The daily dose may be taken as a single 4-g dose (4 capsules) or as two 2-g The daily doses (2 capsules given twice daily)

HOW SUPPLIED Omacor (omega-3-acid ethyl esters) capsules are supplied as 1-gram transparent soft-gelatin capsules filled with light-yellow oil and bearing the designation OMACOR in bottles of 120 (NDC 65726-424-27). Recommended Storage Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature]. Do not

freeze. Keep out of reach of children.

Rx only July 2005



on a body surface area comparison). **Pregnancy Category C** There are no adequate and well-controlled studies in pregnant women. It is unknown whether Omacor can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. Omacor should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Omega-3-acid ethyl esters have been shown to have an embryocidal effect in pregnant rats when given in doses resulting in exposures 7 times the recommended human dose of 4 g/day based on a body surface area comparison. In female rats given oral gavage doses of 1000, 600, 2000 mg/kg/day beginning two weeks prior to mating and con-tinuing through gestation and lactation, no adverse effects were observed in the high dose group (5 times human systemic exposure following an oral dose of 4 g/day based on body surface area comparison). In regnant rats given oral gavage doses of 1000, 3000, 6000 mg/kg/day from gestation day 6 through 15, no adverse effects were observed (14 times human systemic exposure following an oral dose of 4 g/day based on a body surface area comparison).

area comparison). In prepnant rats given oral gavage doses of 100, 600, 2000 mg/kg/day from gestation day 14 through lactation day 21, no adverse effects were seen at 2000 mg/kg/day (5 times the human systemic exposure following an oral dose of 4 g/day based on a body surface area comparison). However, decreased live births (20% reduction) and decreased survival to postnatal day 4 (40% reduction) were observed in a doser ranging study using higher doses of 3000 mg/kg/day (7 times the human systemic exposure following an oral dose of 4 g/day based on a body surface area

comparison). In pregnant rabbits given oral gavage doses of 375, 750, 1500 mg/kg/day from gestation day 7 through 19, no find-ings were observed in the fetuses in groups given 375 mg/kg/day (2 times human systemic exposure following an oral dose of 4 g/day based on a body surface area comparison). However, at higher doses, evidence of maternal toxicity was observed (4 times human systemic exposure following an oral dose of 4 g/day based on a body surface

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Address Medical Inquiries to Reliant Pharmaceuticals, Inc Medical Affairs

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110 Allen Road Liberty Corner, NJ 07938