Heart Patients Worry About Repeat Procedures

BY HEIDI SPLETE Senior Writer

WASHINGTON — More than half of patients undergoing percutaneous coronary interventions reported in a survey that they were "worried a little" about repeat revascularization, said Dan Greenberg, Ph.D., in a poster presented at a scientific forum sponsored by the American Heart Association.

Improved physician-patient communi-

cation may especially benefit patients with a history of revascularization, said Dr. Greenberg of the Harvard Clinical Research Institute, Boston, and colleagues, on the basis of the responses of 382 patients to a self-administered questionnaire.

Of the patients, 54% said they were 'worried a little," 17% said they were "worried a lot," and 29% said they were "not worried at all" about the chance their blockages would return. In terms of risk perception, 49% rated their risk as the same as that of a typical patient, 32% perceived their risk as lower, and 20% perceived their risk as higher.

In a univariate analysis, patients with a history of myocardial infarction had a significantly higher perceived risk of repeat revascularization, compared with patients without history of MI. Patients with prior percutaneous coronary interventions or psychiatric conditions and those who were smokers at the time of the procedure were significantly more concerned about repeat surgery, compared with patients without those characteristics. Both increased concern and a greater perceived risk were significantly associated with younger age and worse health-related quality of life.

Most of the patients were white (94%), and male (75%), with an average age of 63 years. A fifth were past or current smokers, 24% had a previous coronary artery bypass graft, 38% had a previous acute MI, 41% had a previous angioplasty, and 17% had a psychiatric condition, he said.

Anemia is sometimes seen in patients receiving MOBIC. This may be due to fluid retention, Gi blood loss, or an incompletely described effect upon erythropolesis. Patients on long-term treatment with MOBIC should have their hemoglobin or hematocrit checked if they exhibit any signs or symptoms of anemia. Drugs which inhibit the biosynthesis of prostaglandins may interfere to some extent with platelet function and vascular responses to bleeding.

tunction and vascular responses to bleeding. NSADs inhibit platelet aggregation and have been shown to prolong bleeding time in some patients. Unlike aspirin their effect on platelet function is quantitatively less, or of shorter duration, and reversible. MOBIC does not generally affect platelet counts, prothrombin time (PT), or partial thromboplastin time (PT). Patients receiving MOBIC who may be adversely affected by alterations in platelet function, such as those with coagulation disorders or patients receiving anticoagulants, should be carefully monitored.

Fluid Retention and Edema

Fluid retention and edema have been observed in some patients taking MOBIC. Therefore, MOBIC should be used with caution in patients with fluid retention, hypertension, or heart failure.

MOBIC should be used with caution in patients with fluid retention, hypertension, or heart failure. **Pre-existing Asthma** Patients with asthma may have aspirin-sensitive asthma. The use of aspirin in patients with aspirin-sensitive asthma has been associated with severe bronchospasm which can be fatal. Since cross reactivity, including bronchospasm, between aspirin and other nonsteridal anti-inflammatory drugs has been reported in such aspirin-sensitive patients, MOBIC should not be administered to patients with this form of aspirin sensitivity and should be used with caution in patients with pre-existing asthma. **Information for Patients** MOBIC cause discomfort and rarely more serious side effects, such as pastrinitestinal Information for Patients MOBIC can cause discomfort and, rarely, more serious side effects, such as gastrointestinal bleeding, which may result in hospitalization and even fatal outcomes. Although serious GI tract ulcerations and bleeding can occur without warning symptoms, patients should be alert for the signs and symptoms of ulcerations and bleeding, and should ask for medical advice when observing any indicative signs or symptoms. Patients should be made aware of the importance of this follow-up (see WARNINGS, Gastrointestinal (GI) Effects - Risk of GI Ulceration, Bleeding and Perforation.

Gastrointestinal (GI) Effects - Risk of GI Ulceration. Bleeding, and Perforation

Gastrointestinal (GI) Effects - Risk of GI Ulceration, Bleeding, and Perforation: Serious gastorintestinal toxicity, such as inflammation, bleeding, ulceration, and perforation of the stomach, small intestine or large intestine, can occur at any time, with or without warning symptoms, in patients treated with nonsteroidal anti-inflammatory drugs (NSADs). Minor upper gastrointestinal problems, such as dyspepsia, are common and may also occur at any time during NSAID therapy. Therefore, physicians and patients should remain alert for ulceration and bleeding, even in the absence of previous GI symptoms. Patients should be informed about the signs and/or symptoms of serious GI synptoms. Patients should be informed about the signs and/or symptoms of serious GI toxicity and the steps to take if they occur. The utility of periodic laboratory monitoring has not been demonstrated, nor has it been adequately assessed. Only one in five patients who develop a serious upper GI adverse event on NSAD therapy is symptomatic. It has been demonstrated that upper GI ulcers, gross bleeding or perforation, caused by NSADs, appear to occur in approximately 1% of the patients treated for 3-6 months, and in about 2-4% of patients treated for one year. These trends continue thus, increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk.

meloxicam tablets

CITE CUTTE UTTE Tablets MOBIC® (meloxicam) Tablets 7.5 mg and 15 mg Brief Summary of Prescribing Information INDICATIONS AND USAGE MOBIC is indicated for relief of the signs and symptoms of osteoarthritis and rheumatoid arthritis. CONTRAINDICATIONS MOBIC is contrained by early the set of the signs and symptoms of osteoarthritis and rheumatoid arthritis.

MOBIC is contraindicated in patients with known hypersensitivity to meloxicam. It should not be given to patients who have experienced asthma, uricraria, or allergic-type reactions after taking aspirin or other NSAIDs. Severe, rarely tatal, anaphylactic-like reactions to NSAIDs have been reported in such patients (see WARNINGS, Anaphylactic/ Reactions, and PRECAUTIONS, Pre-existing Asthma).

even short-term therapy is not without risk. NSADs should be prescribed with extreme caution in those with a prior history of ulcer disease or gastrointestinal bleeding. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therafore special care should be taken in treating this population. To **minimize the potential risk for an adverse GI event, the lowest effective dose should be used for the shortest possible duration**. For high-risk patients, alternate therapies that do not involve NSADs should be considered.

NSAIDs should be considered. Studies have shown that patients with a *prior history of peptic ulcer disease and/or gastro-intestinal bleeding* and who use NSAIDs, have a greater than 10-fold risk for developing a GI bleed than patients with neither of these risk factors. In addition to a past history of ulcer disease and/or disease than the mission of the series of the series

Anaphylactoid Reactions

WARNINGS

Anaphylactoid Reactions Anaphylactoid reactions have occurred in patients without known prior exposure to MOBIC. MOBIC should not be given to patients with the aspirin triad. This symptom complex typically occurs in asthmatic patients who experience rhinitis with or without nasal polyps, or who exhibit severe, potentially fatal bronchospasm after taking aspirin or other NSAIDs (see CONTRAINDICATIONS and PRECAUTIONS, Pre-existing Asthma). Emergency help should be sought in cases where an anaphylactoid reaction occurs. Advanced Renal Disease

In cases with advanced kidney disease, treatment with MOBIC is not recommended. If NSAID therapy must be initiated, close monitoring of the patient's kidney function is advisable (see PRECAUTIONS, Renal Effects).

Pregnancy MOBIC should be avoided in late pregnancy because it may cause premature closure of the ductus arterios is. PRECAUTIONS

General MOBIC cannot be expected to substitute for corticosteroids or to treat corticosteroid insufficiency. Abrupt discontinuation of corticosteroids may lead to disease exacerbation. Patients on prolonged corticosteroid therapy should have their therapy tapered slowly if a decision is made to discontinue corticosteroids.

The pharmacological activity of MOBIC in reducing inflammation and possibly fever may diminish the utility of these diagnostic signs in detecting complications of presumed noninfectious, painful conditions.

Hepatic Effects

repatic Effects Borderline elevations of one or more liver tests may occur in up to 15% of patients taking MOBIC. These laboratory abnormalities may progress, may remain unchanged, or may be transient with continuing therapy. Notable elevations of ALT or AST (approximately three or more times the upper limit of normal) have been reported in approximately 1% of patients in clinical trials with NSAIDs. In addition, rare cases of severe hepatic reactions, including jaundice and fatal fulriminant hepatitis, liver necrosis and hepatic failure, some of them with fatal outcomes, have been reported with NSAIDs.

Patients with signs and/or symptoms suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of a more severe hepatic reaction while on therapy with MOBIC. If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), MOBIC should be

Renal Effects

Caution should be used when initiating treatment with MOBIC in patients with considerable dehydration. It is advisable to rehydrate patients first and then start therapy with MOBIC. Caution is also recommended in patients with pre-existing kidney disease (see WARNINGS, Advanced Bread Disease). also recommendenal Disease).

Renal Disease). Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal medullary changes. Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of NSAIDs may cause dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

The extent to which metabolites may accumulate in patients with renal failure has not be studied with MOBIC. Because some MOBIC metabolites are excreted by the kidney, patients w significantly impaired renal function should be more closely monitored.

Patients should report to their physicians signs or symptoms of gastrointestinal ulceration or bleeding, skin rash, weight gain, or edema. Patients should be informed of the variing signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). It these occur, patients should be instructed to stop therapy and seek immediate medical therapy. Patients should also be instructed to seek immediate emergency help in the case of an anaphylactoid reaction (see WARNINGS, Anaphylactoid Reactions).

MOBIC should be avoided in late pregnancy because it may cause premature closure of the ductus arte Laboratory Tests

Patients on long-term treatment with MOBIC should have their CBC and a chemistry profile checked periodically. If clinical signs and symptoms consistent with liver or renal disease develop, systemic manifestations occur (e.g., eosinophilia, rash, etc.) or if abnormal liver tests persist or worsen, MOBIC should be discontinued. Drug Interactions ACE inhibitors

Reports suggest that NSAIDs may diminish the antihypertensive effect of angiotensin-converting enzyme (ACE) inhibitors. This interaction should be given consideration in patients taking NSAIDs concomitantly with ACE inhibitors.

Aspirin Concomitant administration of aspirin (1000 mg TID) to healthy volunteers tended to increase the AUC (10%) and C_{max} (24%) of meloxicam. The clinical significance of this interaction is not known; however, concomitant administration of meloxicam and aspirin is not generally recommended because of the potential for increased adverse effects. Concomitant administration of low-dose aspirin with MOBIC may result in an increased rate of GI ulceration or other complications, compared to use of MOBIC alone. MOBIC is not a substitute for aspirin for cardiovascular prophylaxis.

Cholestvramin

Pretreatment for four days with cholestyramine significantly increased the clearance of meloxicam by 50%. This resulted in a decrease in $t_{1/2}$, from 19.2 hours to 12.5 hours, and a 35% reduction in AUC. This suggests the existence of a recirculation pathway for meloxicam in the gastrointestinal tract. The clinical relevance of this interaction has not been established. Cimetidine

Concomitant administration of 200 mg cimetidine QID did not alter the single-dose pharmaco kinetics of 30 mg meloxicam. Digoxin

Digoxin Meloxicam 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after 6-acetyldigoxin administration for 7 days at clinical doses. In vitro testing found no protein binding drug interaction between digoxin and meloxicam.

Furosemide Clinical studies, as well as post-marketing observations, have shown that NSAIDs can reduce the natriuretic effect of furosemide and thiazide diuretics in some patients. This effect has been attributed to inhibition of renal prostaglandin synthesis. Studies with furosemide single and multiple dose pharmacodynamics and pharmacokinetics are not affect. Furosemide single and multiple dose pharmacodynamics and pharmacokinetics are not affect. Furosemide single and multiple dose pharmacodynamics and pharmacokinetics are not affected by multiple doses of meloxicam. Nevertheless, during concomitant therapy with furosemide and MOBIC, patients should be observed closely for signs of declining renal function (see PRECAUTIONS, Renal Effects), as well as to assure diuretic efficacy. Lithium

Linhum In a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 21% in subjects receiving lithium doses ranging from 804 to 1072 mg BID with meloxicam 15 mg QD as compared to subjects receiving lithium alone. These effects have been attributed to inhibition of renal prostagiandin synthesis by MOBIC. Patients on lithium treatment should be closely monitored when MOBIC is introduced, adjusted, or withdrawn.

should be closely monitored when MUDio is introduced, adjusted, or where are Methotrexate A study in 13 rheumatoid arthritis (RA) patients evaluated the effects of multiple dos meloxicam on the pharmacokinetics of methotrexate taken once weekly. Meloxicam did not a significant effect on the pharmacokinetics of single does of methotrexate. In vitro, methotr did not displace meloxicam from its human serum binding sites.

Warfarin Anticoagulant activity should be monitored, particularly in the first few days after initiating or changing MOBIC therapy in patients receiving warfarin or similar agents, since these patients are at an increased risk of bleeding. The effect of meloxicam on the anticoagulant effect of warfarin was studied in a group of healthy subjects receiving daily doess of warfarin that produced an INR (International Normalized Ratio) between 1.2 and 1.8. In these subjects, meloxicam did not alter warfarin pharmacokinetics and the average anticoagulant effect of warfarin as determined by prothrombin time. However, one subject showed an increase in INR from 1.5 to 2.1. Caution should be used when administering MOBIC with warfarin since patients on warfarin may experience changes in INR and an increased risk of bleeding complications when a new medication is introduced.