Supplements Don't Cut Fractures in At-Risk

BY DIANA MAHONEY New England Bureau

HARROGATE, ENGLAND - Calcium and vitamin D supplementation do not reduce the risk of clinical fracture among women identified as having one or more risk factors for hip fracture, a randomized controlled trial has shown.

Investigators at the University of York (England), in collaboration with community primary care providers, recruited 3,322 women aged 70 years and older, who had at least one of the following risk factors for hip fracture: previous fracture, low body weight, maternal history of hip fracture, a fall in the previous 12 months, or older age (per year increase).

Approximately half of the women were randomized to receive daily oral supplementation of 1,000 mg of calcium and 800 IU vitamin D, along with a patient information leaflet on dietary calcium intake and fall prevention. The remaining patients were randomized to a control group and received only the patient information leaflet, reported York University research fellow Jill Porthouse in a presentation at the annual conference of the National Osteoporosis Society.

After a median follow-up of 25 months, there were no significant differences between the two groups in the rates of all clinical fractures or hip fractures.

The odds ratio for all fractures in the supplement group compared with the control group was 1.03. For hip fractures specifically, the odds ratio was 0.82, according to the study findings.

These results are disappointing, noted Ms. Porthouse.

"Fall-related low-trauma fractures represent a significant burden of illness in older people. Calcium and vitamin D supplementation is a relatively inexpensive intervention, but it does not appear to reduce fracture rates in women at risk," she noted.



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

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

Gastonational (G) Effects - Risk of GI Uscention, Elevating, and Performation: stormack, small intestine to large insettine, can occur at any time, with or without warring symptoms, in particular basis, and the information, biologi duration and any protection of the stormack, small intestine to large insettine, can occur at any time, durating NAD thermals, Therefore, physicians and patients build remain after for ulcanation and signs and/or symptoms of serious GI toxicity and the stores toxic and any time durating NAD thermap. Therefore, physicians and patients build remain after for ulcanation and signs and/or symptoms of serious GI toxicity and the stores to toxics and and signs and/or symptoms of serious GI toxicity and the stores to toxics durating and periodic librotoxicity in the some dimonstrated that upper GI adventee event on NSAD thereapy is symptomics. In this beam dimonstrated that upper GI adventee event on NSAD thereapy is symptomics. This beam dimonstrated that upper GI adventee event of thereapy to thereapy and in about 2-4% of patients treated for one year. These trends continue thus, protessing the like/licood i diveloping a serious GI event at some time during the course of hereapy of diveloping patients and hereafter specification in those with a patient text and the store hereapy of biotized patients and thereapy is any event. These tends continue thus, protessing the like/licood i diveloping a serious GI event at some time divel for thereapy of diverd series and therefore specification without risk. NADas should be supportively with series there (thereave to adverse of adverse diverded beauted on the shortest possible duration. For high-risk patients, atternate therapies that do not movies NADas should be considered.

Sortest possible duration. For hybrids patients, alternate thrangies that do not involve NSADs should be considered. Studies have shown that patients with a prior history of paptic ular deases and/or gastro-intestinal bleeding and who use NSADs, have a greater than 10-bid risk for developing all bleed than patients with mather of these risk factors. In addition to a pash that you route the third to be all the patients with a prior history of paptic ular developing all bleed than patients with process the trick for to bleeding pack as theatmen with real contostencies, and pack of the patients with a prior history, enclosed, activations of the and contostencies, and pack green hash status, or duration of NSAD thereap, enclosed, acchelism, odde age, **Anaphylechit Beatter**.

and poor general health status. Anaphytactical Reactions Anaphytactical reactions have occurred in patients without known prior exposure to MOBIC. MOBIC should not be given to patients with the aspini friad. This symptom complex typically occurs in asthmatic patients who experiment initial with write yamptom complex typically soccurs in gondraidly fails. Unconclusions and the taking aspinin or other NAADs (see sourch production) where an anaphytical fraction occurs. Advanced Renal Disease

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 PRECAUTIONS

General MOBIC carry to be sepacted to substitute for continuations or to treat continuation of advanced advanced and advanced and years to the design expected statute. Patients on prodraged continuement of thereign years that have their therapy tapered slowly if a decision is made to discontinue controceteroids. They physical the therapy tapered slowly if a decision is made the physical 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

Include calculations of more and the set tests may occur in to be 15% of raisers being MCBC. Exclude evaluations of more lister tests may occur in to be 15% of raisers being MCBC. The set of test of test

NSAUL: 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 MOBC. I clinical agins and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophila, rash, etc.), MOBIC should be discontinued.

Renal Effects

Nenal Intercts 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 kichey disease (see WARNINGS, Advanced Renal Disease).

Panel Desses). Long-term administration of NAODs has resulted in renal papellary necrosis and other cereal modulary changes. Renal toxicity has also been seen in patients in whom renal potalgaindriss have a compression yole in the maintenance of renal potission. In these patients, administration of NADBs may cause dose-dependent exclusion in prostagland in formation and, secondarily, in renal blood flow, which may propriately cereal renal blow of two which may program as a greatest rais of the accompression base of the maintenance of renal potentiation. In these patients, administration of NADBs may cause dose-dependent exclusion, has taken to deal maintenance of the maintenance of the patients and ACE relations, and the adding. Discontinuation of NADD theory is usually followed by recovery to the pretreatment state. The disclose the ACE Dessaues some may accumulate in patients with erral failure, has not been tradied with MOBCIC Beause some may accumulate in patients with erral failure, has not been and adding the ACED. Beause some may accumulate in patients with significantly impaired renal function should be more closely monitored.

signs or symptoms of anomia. Drugs which inhibit the biosynthesis of prostaglandins may interfere to some extent with plattel function and vescular responses to bleeding. NADBs inhibit plattelat aggregation and have been shown to prolong bleeding time in some patients. Unlike aggins the effect on plattels function is quantitatively less, or of shorter duration, and reversible. MOBIC does not generally allef plattels coulds, profitmorthin mice (PT), or praiting thromhogularis time (PT). Platters incoulting IA/DEC who may be adversible. MOBIC does not should be carefully monitored. Fuid Retention and Edema Baint application and sciences

Hematological Effects

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 Pre-existing Asthma

Anemia is sometimes seen in patients receiving MOBIC. This may be due to fluid retention, Gl 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 amemia.

Pre-oxiding Jatitma Patients with alterna may have appirn-sensitive asthma. The use of aspirin in patients with aspirin-sensitive astima has been associated with severe benoticipasmi which can be field intermediate data in the set of the second second second second second second second administered to patients with his form of aspirin sensitivity and should be used with caution in patient with the executing authma. administered to paper its wi patients with pre-existing as Information for Patients

nummation for Patients MOBIC can cause disconfort and, rarely, more serious side effects, such as gastrointestinal bleeding, which may result in hospitalization and even fatal outcomes. Although serious GI tract ulcentions and bleeding can occur without warning symptoms, patients hand/able alert for the signs and symptoms of ulcerations and bleeding, and should ask for medical advice when observing any indicate signs or symptoms. Patients hand/able banded bander of this follow-up (see WARNAS), Gastromisstral (Q) Effects - Risk of GI Ulceration, Bleeding Patients should be cond to the indication.

and Perforation). Patients should report to their physicians signs or symptoms of gastrointestimal ulceration or biseding, sikin rash, weight gain, or edoma. Patients should be intormed of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lithrags, pruntus, jaundos, right upper quadrant tenderness, and "tu-like" symptoms), if 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 cluctus articlesus

Laboratory Tests

Preserver and the second secon Drug Interactions

ACE inhibitors

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

Aspin Concentrate administration of aspin (1000 mg TID) to healthy volunteers tended to increase the ALC (10%) and C_{em} (24%) of matoxicam. The thirds significance of this interaction is not known; ALC (10%) and C_{em} (24%) of matoxicam. The thirds significance of this interaction is not known; bocase of the potential for increased adverse effects. Concontent administration of low-does aspin with MOSE may result in an increased rate of cal lucention or other complications, compared to use of MOBIC alone. MOBIC is not a substitute for septim for cardiovascular prophysics.

Direct years. **Cholestyramine** Pretreatment for four days with cholestyramine significantly increased the clearance of meloxicam by 50%. This exugates in a decrease in 1₁₀, 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.

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

Meloxicam 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after 8-acetyldigoxin administration for 7 days at clinical doses. In vitro testing found no protein binding drug interaction between digoxin and meloxicam.

Furosemide

Furosenide Circled studies, as well as post-marketing observations, have shown that NSADs can reduce the nativuted to inhibition of read postagional synthesis. This effect has been etholds to inhibition of read postagional synthesis. Studies with twostenide agents and budge to the synthesis of the synthesis of the synthesis of the synthesis of the does phermacodynamics and phermacokinetics are not affected by multiple doese of melocotan. Nevertheless, during concomitant therapy with furcesande and MOEIG, painters should be observed closely for signs of declining renal function (see PRECAUTIONS, Renal Effects), as well as to assure direct efficacy.

Lithium

Limitum in a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 21% in subjects neoking lithium doses ranging from 604 to 1072 mg BD with melociam 16 mg 00 as compared to subjects neoking lithium altore. These effects have been attributed to inhibition of renal prostaglandin synthesis by MOBIC. Patients on lithium treatment found to dose monthe with an ACCE is introduced, adjusted, or withoutawn.

Methotrexate A study in 13 rheumatoid arthritis (PA) patients evaluated the effects of multiple doese of meloxicam on the pharmacokinetics of methotrexate taken once weekly. Meloxicam did not have a significant effect on the pharmacokinetics of single doese of methotrexate. In vitro, methotrexate did not displace meloxicam from its human serum binding sites.

Warkani Androsoguiant activity should be monitored, particularly in the first few days after initiating or changing MOBC therapy in patients receiving warkani or similar agents, ando these patients are an noncessed in 6 bioleding. The elect of metodocamon the anticologuiant effect of wardam was studied in a group of healthy subjects receiving daily doses of wardarin that produced an INR informational Revenues 12 and 13.8 in these subjects, metodocam did not wardare informational failed bieward in 2 and 13.8 in these subjects, metodocam did not after wardare informational activity biewards and the average anticologularit effect of wardam vari-should be used when administering MOBC with wardarin since patients on wardarin wardare produces changes in INR and an increased risk of biesding complications when a new medication is introduced.