pressure, HDL cholesterol, and BMI were not significant, they reported.

But despite the improvements, only 2% of the patients had achieved all three target goals of the NHANES study at the time of their most recent office visit. For the ADA guidelines, 9% reached all five, 28% reached four, 28% reached three, 22% reached two, 10% reached one, and 3% reached none.

Lack of medication was not the reason: Of the 334 patients, 59% were taking metformin, 40% insulin, 38% thiazolidinediones, 36% sulfonylureas, and 16% nonsulfonylurea secretagogues (8% repaglinide and 8% nateglinide). Of these, monotherapy was used in 25%, two glucose-lowering drugs in 41%, three in 22%, a three-drug regimen plus

Only 2% of the patients had achieved all three target goals of the NHANES study at the time of their most recent visit to the endocrinologists' office.

insulin in 6%, and lifestyle modification

As for antihypertensive drugs, 53% were receiving angiotensin-converting enzyme inhibitors, 28% diuretics, 17% angiotensin II receptor blockers, 14% βadrenergic blocking agents, 12% calcium channel blockers, and 1% α-adrenergic

blocking agents. Of these patients, 42% were taking one, 23% two, 8% three, and 3% more than three, while 24% were not taking any antihypertensive drugs.

In the lipid-lowering category, statins were taken by 61%, fibrates by 10%, ezetimibe by 9%, and niacin by 1%. Most (63%) were on monotherapy, while 9% were taking two drugs and 28% weren't taking any, they

Carcinogenesis, Mutagenesis, Impairment of Fertility
No carcinogenic effect of meloxicam was observed in rats given oral doses up to 0.8 mg/kg/day (approximately 0.4-fold the human dose at 15 mg/day for a 50 kg adult based on body surface area conversion) for 104 weeks or in mice given oral doses up to 8.0 mg/kg/day (approximately 2.2-fold the human dose, as noted above) for 99 weeks.
Meloxicam was not mutagenic in an Ames assay, or clastogenic in a chromosome aberration assay with human hymphocytes and an *in vivo* micronucleus test in mouse bone marrow. Meloxicam did not impair male and female fertility in rats at oral doses up to 9 and 5 mg/kg/day, respectively (4.9-fold and 2.5-fold the human dose, as noted above). However, an increased incidence of embryolethility at oral doses ≥ 1 mg/kg/day (0.5-fold the human dose, as noted above) was observed in rats when dams were given meloxicam 2 weeks prior to mating and during early embryonic development.

Pregnancy

# **Teratogenic Effects:** Pregnancy Category C.

Teratogenic Effects: Pregnancy Category C. Meloxica caused an increased incidence of septal defect of the heart, a rare event, at an oral dose of 60 mg/kg/day (64.5-fold the human dose at 15 mg/day for a 50 kg adult based on body surface area conversion) and embryolethality a toral doses ≥ 5 mg/kg/day (64.7-fold the human dose, as noted above) when rabbits were treated throughout organogenesis. Meloxicam was not teratogenic in rats up to an oral dose of 4 mg/kg/day (approximately 2.2-fold the human dose, as noted above) throughout organogenesis. An increased incidence of stillbirths was observed when rats were given oral doses ≥ 1 mg/kg/day throughout organogenesis. Meloxicam crosses the placental barier. There are no adequate and well-controlled studies in pregnant women. MOBIC should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

## Nonteratogenic Effects:

Moloxicam caused a reduction in birth index, live births, and neonatal survival at oral doses ≥ 0.125 mg/kg/day (approximately 0.07-fold the human dose at 15 mg/day for a 50 kg adult based on body surface area conversion) when rats were treated during the late gestation and lactation period. No studies have been conducted to evaluate the effect of meloxicam on the closure of the ductus arteriosus in humans; use of meloxicam during the third trimester of pregnancy should be avoided.

pregnancy should be avoided. **Labor and Delivery**Studies in rats with meloxicam, as with other drugs known to inhibit prostaglandin synthesis, showed an increased incidence of stillbirths, increased length of delivery time, and delayed parturition at oral dosages = 1 mg/kg/da/ (approximately 0.5-fold the human dose at 15 mg/day for a 50 kg adult based on body surface area conversion), and decreased pup survival at an oral dose of 4 mg/kg/da/ pproximately 2.1-fold the human dose, as noted above) throughout organogenesis. Similar findings were observed in rats receiving oral dosages ≥ 0.125 mg/kg/day (approximately 0.07-fold the human dose, as noted above) during late gestation and the lactation period.

Studies of meloxicam excretion in human milk have not been conducted; however, meloxicam was excreted in the milk of lactating rats at concentrations higher than those in plasma. Because of the potential for serious adverse reactions in unraing infants from MOBIC, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use
Safety and effectiveness in pediatric patients under 18 years of age have not been established.

Geriatric Use
Caution should be exercised in treating the elderly (65 years and older).

ADVERSE REACTIONS

The MOBIC phase 2/3 clinical trial database includes 10,122 OA patients and 1012 RA patients treated with MOBIC 7.5 mg/day, 3505 OA patients and 1351 RA patients treated with MOBIC 15 mg/day, MOBIC at these doses was administered to 681 patients for at least 6 months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in ten placebo and/or active-controlled osteoarthritis trials and 2363 of these patients were treated in ten placebo and/or active-controlled rheumatoid arthritis trials. Gastrointestinal (GI) adverse events were the most frequently reported adverse events in all treatment groups across MOBIC trials.

m patients with meumatoid arthritis to compare the efficacy and safety of MOBIC with placebo. The following adverse events (%) occurred in ≥ 2% of MOBIC 7.5 mg daily (n=154) and 15 mg daily (n=154) and 15 mg daily (n=158) patients, respectively, in a 12-week osteoarthritis placebo- and active-controlled trial: abdominal pain, 1.9%, 2.6%; diarrhea, 7.8%, 3.2%; dyspepsia, 4.5%, 4.5%; faltulence, 3.2%, 3.2%; nausea, 3.9%, 3.8%; accident household, 4.5%, 3.2%; edema¹, 1.9%, 4.5%; 5,6%; fall, 2.6%, 0.0%; influenza-like symptoms, 4.5%, 5.8%; dizziness, 2.6%, 3.8%; headache, 7.8%, 8.3%; pharyngitis, 0.6%, 3.2%; upper respiratory tract infection, 3.2%, 1.9%; rash², 2.6%, 0.0%.

The following adverse events (%) occurred respectively with MOBIO 7.5 and 15 mg daily in 2 % of patients treated in two 12-week rheumatoid arthritis placebo controlled trials: abdominal pain NOS\*, 2.9%, 2.3%; cliarrhea NOS\*, 4.8%, 3.4%; dyspeptic signs and symptoms¹, 5.8%, 4.0%; nausea², 3.3%, 3.8%; influenza like illness², 2.9%, 2.3%; upper respiratory tract infections-pathogen class unspecified¹, 7.0%, 6.5%; joint related signs and symptoms¹, 1.5%, 2.3%; musculoskeletal and connective tissue signs and symptoms NEC¹, 1.7%, 2.9%; headaches NOS², 6.4%, 5.5%; dizziness (excl vertigo)², 2.3%, 0.4%; rash NOS², 1.0%, 2.1%.

1.0%, 2.1%.
'MedDRA high level term (preferred terms): dyspeptic signs and symptoms (dyspepsia, dyspepsia, dyspepsia, dyspeptia aggravated, eructation, gastrointestinal irritation), upper respiratory tract infections-pathogen unspecified (laryngitis NOS, pharyngitis NOS, sinusitis NOS), joint related signs and symptoms (arthralgia, arthralgia aggravated, joint crepitation, joint effusion, joint swelling), and musculoskeletal and connective tissue signs and symptoms NEC (back pain, back pain aggravated, muscle spasms, musculoskeletal pain).

<sup>2</sup>MedDRA preferred term: diarrhea NOS, abdominal pain NOS, influenza like illness, headaches NOS, dizziness (excl vertigo), and rash NOS.

NUS, dizziness (exa vertigu), an unash ruco. Higher doses of MOBIC (22 fing and greater) have been associated with an increased risk of serious GI events; therefore the daily dose of MOBIC should not exceed 15 mg.

The following is a list of adverse drug reactions occurring in < 2% of patients receiving MOBIC in clinical trials involving approximately 16,200 patients. Adverse reactions reported only in worldwide post-marketing experience or the literature are shown in talkics and are considered rare

Worldwide post-frianzeuing experience of the interatural are shrown finalists and are considered rate (<0.1%).</p>
Body as a Whole: allergic reaction, anaphylactoid reactions including shock, face edema, fatigue, fever, hot flushes, malaise, syncope, weight decrease, weight increase Cardiovascular: angina pectoris, cardiac failure, hypertension, hypotension, myocardial infarction, vasculitis. Central and Peripheral Nervous System: convulsions, paresthesia, tremor, vertigo.
Gastrointestinal: colitis, dry mouth, duodenal ulcer, eructation, esophagitis, gastric ulcer, gastritis, gastroesophageal reflux, gastrointestinal hemorrhage, hematenesis, hemorrhagic duodenal ulcer, hemorrhagic gastric ulcer, intestinal perforation, melena, pancreatitis, perforated duodenal ulcer, perforated gastric ulcer, stomatitis ulcerative Heart Rate and Rhythm: arrhythmia, palpitation, tachycardia Hematologic: agranulocytosis, leukopenia, purpura, thrombocytopenia Liver and Billiary System: ALT increased, AST increased, bilirubinemia, GGT increased, benefitis, jaundice, liver failure Metabolic and Nutritional: dehydration Psychiatric Disorders: abnormal dreaming, anxiety, appetite increased, confusion, depression, nervousness, somnolence Respiratory; asthma, bronchospasm, dyspena Skin and Appendages: alopecia, angioedema, bullous eruption, erytherna multiforme, photosenstivity reaction, pruritus, Stevens-Johnson syndrome, sweating increased, toxic epidermal nercolysis, urticaria Special Senses: abnormal vision, conjunctivitis, taste perversion, trinnitus Urinary System: abuminuria, BUN increased, creatinine increased, hematuria, interstitial nephritis, renal failure.
OVERDOSAGE

### OVERDOSAGE

niginest recommended dose; all recovered. Cholestyramine is known to accelerate the clearance of meloxicam.

Symptoms following acute NSAID overdose are usually limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which are generally reversible with supportive care. Gastrointestinal bleeding can occur. Severe poisoning may result in hypertension, acute renal failure, hepstic dysfunction, respiratory depression, coma, convulsions, cardiovascular collapse, and cardiac arrest. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs, and may occur following an overdose.

Patients should be managed with symptomatic and supportive care following an NSAID overdose. In cases of acute overdose, gastric lavage followed by activated charcoal is recommended. Gastric lavage performed more than one hour after overdose has little benefit in the treatment of overdose. Administration of activated charcoal is recommended for patients who present 1-2 hours after overdose. For substantial overdose or severely symptomatic patients, activated charcoal in performed more than one hour after enoval of meloxicam by 4 gm oral doses of cholestyramine given three times a day was demonstrated in a clinical trial. Administration of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

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# Majority Not **Meeting AACE Target Levels**

BY MIRIAM E. TUCKER Senior Writer

WASHINGTON — Two-thirds of Americans with type 2 diabetes are not meeting the American Association of Clinical Endocrinologists' target hemoglobin A<sub>1c</sub> level of 6.5% or less, according to a report issued by the association at its annual meeting.

The AACE's "State of Diabetes in America" report is based in part on data from more than 157,000 individuals with type 2 diabetes from 39 states and the District of

The AACE has launched a public awareness campaign in which patients are encouraged to take an 'oath' to better control their blood sugar levels.

Columbia who were tracked by Surveillance Data Inc. (SDI) during 2003-2004. The study was funded by GlaxoSmith-Kline Inc.

Overall, 67% of patients had HbA<sub>1c</sub> levels above 6.5%. The 10 worst states were Mississippi (73%); Illinois (73%);

Utah (72%); Ohio (72%); Alabama, Louisiana, New York, and Pennsylvania (all approximately 71%); Arkansas and West Virginia (both approximately 70%); and Georgia (69%). Even in the best state, Montana, 55% did not meet the AACE target.

In 11 additional states in which SDI data were not available, the National Committee for Quality Assurance's Health Employer Data and Information Set (HEDIS) were used instead, showing the proportion of patients with HbA<sub>1c</sub> levels above 9%. Of those, California was the worst, with 35% of patients having  $HbA_{1c}$  values that high. The next four were Hawaii (33%), and North Dakota, Rhode Island, and Massachusetts (all approximately 30%). New Hampshire scored the "best," at 20%.

The AACE has launched a public awareness campaign encouraging patients to take an "oath" to better control their blood sugar levels. To take the oath and order items such as a diabetes-friendly cookbook, patients can go to www.stateofdiabetes.com or call 800-704-4694.

## - Verbatim -

'Remember to think: "Maybe that suprapubic pain isn't a UTI. Maybe it's an appendix. Remember to think outside the box."'

Dr. John Rose, p. 54