Think Efficacy, Toxicity When Treating Psoriasis

BY KERRI WACHTER Senior Writer

PARIS — Nonbiologic systemic drugs can be effective choices for the treatment of psoriasis if they are chosen properly, according to Dr. Jonathan Barker.

Traditional systemic drugs work but are not always effective, and are often associated with considerable toxicity, he said at the annual congress of the

European Academy of Dermatology and Venereology.

To optimize systemic therapy, we're talking about maximizing efficacy and minimizing toxicity," said Dr. Barker, head of the skin inflammation unit at St. John's Institute of Dermatology, King's College, London. He gave an overview of several standard systemic drugs: ▶ Methotrexate. The preferred drug for

unrelenting disease that is likely to require

long-term therapy, it also helps in psoriatic arthritis. The key to avoiding adverse events is to start with a low dose and increase it slowly. Dr. Barker said he and his colleagues begin psoriasis patients on 5 mg/week and then increase the dose by 5 mg/week up to 15 mg/week for the first 3 months. The maximum dose they use for psoriasis is 25 mg/week.

Most causes of death that are associated with methotrexate are attributable



Brief Summary of Prescribing Information

USE IN PREGNANCY IN PREGNANCY en used in pregnancy during the second and third trimesters, drugs that act directly on the n-angiotensin system can cause injury and even death to the developing fetus. When mancy is detected, MICARDIS® tablets should be discontinued as soon as possible. When used in pregnancy caring a cause injury and even de pregnancy is detected, MICARDIS® tablets should be discon See WARNINGS: Fetal/Neonatal Morbidity and Mortality

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MICARDIS is indicated for the treatment of hypertension. It may be used alone or in combination with other CONTRAINDICATIONS

nisartan) is contraindicated in patients who are hypersensitive to any component of this product. WARNINGS

WARNINGS Fetal/Neonatal Morbidity and Mortality Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal morbidity and death when administered to pregnant women. Several dozen cases have been reported in the world literature in patients who were taking angiotensin converting enzyme inhibitors. When pregnancy is detected, MICARDIS (telmisartan) tablets should be discontinued as soon as possible. The use of fetal and neonatal morbidity and death when administered to pregnant women. Several dozen cases have been reported in the world literature in patients who were taking anglotensin converting enzyme inhibitors. When pregnancy is detected, MICAPIDS (telimistran) tables should be discontinued as soon as possible. The use of drugs that act directly on the renin-anglotensin system during the second and third trimesters of pregnancy has been associated with fetal and neonatal injury, including hypotension, neonatal skull hypoplasia, anuria, reversible or irreversible renal failure, and death. Oligohydramnios has also been reported, presumably resulting from decreased fetal renal function: oligohydramnios has also been associated with fetal limb contractures, craniofacial deformation, and hypoplastic lung development. Prematurity, intrauterine growth retardation, and patent ductus arteriosus have also been reported, although it is not clear whether these occurrences were due to exposure to the drug. These adverse effects of not appear to have resulted from intrauterine drug exposure that has been limited to the first trimester. Mothers whose embryos and fetuses are exposed to an angiotensin II receptor antagonist only less often than once in every thousand pregnancies), no alternative to an angiotensin II receptor antagonist will be found. In these rare cases, the mothers should be apprised of the potential hazards to their fetuses, and serial ultrasound examinations should be discontinued unless they are considered IIfe-saving for the mother. Contraction stress testing (CST), ano-stress test (NST), no biophysical profiling (BPP) may be appropriate, depending upon the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may on appear until accurs, attention should be closely observed for hypotension, oliguria, and hyperkalemia. If oliguria accurs, attention should be directed toward support of blood pressure and renal perfusion. Exchange transfusion on dialysis ma

patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized.
PRECAITONS
General. Impaired Hepatic Function: As the majority of telmisartan is eliminated by biliary excretion, patients with biliary obstructive disorders or hepatic insuring the trainer and the activity of the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible individuals. In patients whose renal function may depend on the activity of the renin-angiotensin-aldosterone system (e.g., patients with severe congestive heart failure), treatment with angiotensin-aldosterone system (e.g., patients with severe congestive heart failure), treatment with angiotensin-aldosterone system (e.g., patients with severe congestive heart failure), treatment with angiotensin-aldosterone system (e.g., patients with severe congestive heart failure), treatment with angiotensin-aldosterone system (e.g., batients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen were observed. There has been no long term use of MICARDIS tablets in patients with unilateral or bilateral renal artery stenosis but an effect similar to that seen with AGE inhibitors should be anticipated. Information for Patients. Pregnancy: Female patients of childbearing age should be told about the consequences of second- and third-timester. These or unger-digitatization. Marterin: Efficience and they should also son as possible. Drug Interactions. Digitar: Wate contration (24%) were observed. It is, therefore, recommended that displate allow the patients induces and adverted or to days signify decreased the mean warfarin trug adjusting, and discontinuing telmisartan to avoid possible overour under-digitatization. Marterin: Efficience and difference is an effect sinvastatin, hydrochorothiz

ADVERSE REACTIONS MICARDIS (telmisartan) misartan) has been evaluated for safety in more than 3700 patients, including 1900 treated for over six months and more than 1300 for over one year. Adverse experiences have generally been mild and transient in nature and have only infrequently required discontinuation of therapy. In placebo-controlled trials involving 104 plateins treated with advance bases of telmisatra (20-160m) monotherapy for up to 12 weeks, an overall incidence of adverse events similar to that of placebo was observed. Adverse events occurring at an incidence of their causal association, are presented as follows: The most common adverse events occurring with MICAPDIS Tablets monotherapy pay at rate of 21% and greater than placebo, respectively, were at least as frequent in the placebo group: influenza-like symptoms, dyspepsia, myaliga, urinary tract infection, John (7%, 6%), back pain (3%, 1%), sinustiis (3%, 2%), diarrhea (3%, 2%), and pharyngtiis (1%, 0%), ha dition to the adverse events was required in 2.8% of 1455 patients treated with MICAPDIS tables and 61% of 380 placebo patients in placebo-controlled dirical trials. The incidence of adverse events was not dose-related and did nct correlate with gender, age, or race of patients. The incidence of adverse events was to the events were tables and 61% of 380 placebo patients in placebo-controlled dirical trials. The incidence of adverse events was not dose-related and did nct correlate with gender, age, or race of patients. The incidence of ough occuring with telmisartan in six placebo-controlled trials are listed below. It cannot be determined whether these events weat cocurate, involving 100 (3%), 63% observes and another adverse events that cocured in more than 0.3% of 3500 patients treated with MICAPDIS tables. *Automotic Kervous System:* motence, increased sweating, flusting, *Body as a Whole*: altery, fiver, leg pain, malaise; *Cardioascular:* papitation, dependent edema, angina pectoris, tachycardi, leg edema, anonaberse events weat cocuracions, hypoaesthesia, *Bastrointestinal*.

OVERDOSAGE

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UVER/DUSAGE Limited data are available with regard to overdosage in humans. The most likely manifestation of overdosage with MICARDIS (telmisartan) tablets would be hypotension, dizziness and tachycardia; bradycardia could occur from parasympathetic (vagal) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Telmisartan is not removed by hemodialysis. DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION Dosage must be individualized. The usual starting dose of MICARDIS (telmisartan) tablets is 40 mg once a day. Blood pressure response is dose related over the range of 20-30 mg. Special Populations: Patients with depletion of intravascular volume should have the condition corrected or MICARDIS tablets should be initiated under close medical supervision (see WARNINGS, Hypotension in Volume-Depleted Patients). Patients with biliary obstructive disorders or hepatic insufficiency should have treatment started under close medical supervision (see PRECAUTIONS, General, Impaired Hepatic Function, and Impaired Renal Function). Most of the antihypertensive effect is apparent within two weeks and maximal reduction is generally attained after four weeks. When additional blood pressure reduction beyond that achieved with 80 mg MICARDIS is required, a diuretic may be added. No initial dosing adjustment is necessary for elderly patients on patients with mild-to-moderate renal impairment, including those on hemodialysis. Patients on dialysis may develop orthostatic hypotension; their blood pressure should be closely monitored. MICARDIS tablets may be administered with other antihypertensive agents. MICARDIS tablets may be administered with or without food. **Rx only**

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to bone marrow suppression, not hepatotoxicity. These deaths usually result from confusion over dosage, or from folic acid deficiency, he said. Bone marrow suppression is rare when patients are on folic acid supplementation.

Liver function can be monitored without routine liver biopsy by measuring serum levels of procollagen III aminopeptide (Br. J. Dermatol. 2005;152:444-50). Dr. Barker checks serum levels every 3 months for psoriasis patients on longterm methotrexate. "If this practice were to be widely adopted, then methotrexate would become a more acceptable option for many patients who are dissuaded from considering it because of the threat of repeated liver biopsy," he said.

► Cyclosporine. It is a fast-acting drug that "presents a different set of problems with respect to usage," Dr. Barker noted.

In patients receiving long-term methotrexate treatment, liver function can be monitored without routine liver biopsy by measuring serum levels of procollagen III aminopeptide.

"It's a very good drug for patients with intermittent disease, where they need a quick fix but you're hoping that the duration of therapy will be very short."

Glomerular sclerosis is extremely unlikely to occur in patients who are treated with cyclosporine for less than 12 months and in whom there is an insignificant rise in creatinine levels. Glomerular sclerosis is much more likely to occur when cyclosporine is used for more than a year.

Also, long-term cyclosporine A-the main form of this drug-is associated with an increased risk of nonmelanoma skin cancer. However, this risk can be minimized by limiting both dosage and duration of use (no longer than 1-2 years), Dr. Barker said. Cyclosporine use should be minimized in patients who have had significant phototherapy.

► Acitretin. It can be used "occasionally in moderate chronic plaque psoriasis, more so in palmo-plantar pustulosis," said Dr. Barker, who added that he starts with the lowest dosage (25 mg/day) and uses it with narrow-band UVB phototherapy.

But one should use extreme caution when treating women of child-bearing age with acitretin because it can cause major fetal abnormalities, he cautioned.

In addition, it is very helpful as an adjunctive treatment for patients with severe disease and multiple squamoproliferative lesions who have been on phototherapy in the past.

"This is not an immunosuppressive drug, and there is some evidence that it has chemoprotective activity for malignancy," he said.

Dr. Barker has consulted for several pharmaceutical companies making biologics but noted that none was relevant to his presentation.