Risk of Colonic Polyps High in Diabetic Patients

BY MICHAEL VLESSIDES

BANFF, ALTA. — Patients with diabetes appear to be at higher risk of developing colon polyps than are nondiabetics, according to the results of a case control study.

In the chart review of 305 people who had received a colonoscopy, those in whom adenomas and/or carcinomas were detected had seven times the odds of being diabetic, compared with patients without those lesions.

On the basis of these findings, Dr. Nitasha Anand recommended that diabetic patients undergo earlier or more frequent colon screening than patients without diabetes. However, she pointed out that the study's several confounders made it difficult to draw definite conclusions.

'Insulin is a growth factor for epithelium in the colon," Dr. Anand said at the

Rx Only

Canadian Digestive Diseases Week. "So we were wondering whether people with higher insulin levels in the blood would have more polyps in the colon than the average person." Previous studies have found a slightly increased risk of colon polyps in diabetic patients, with odds ratios from 1.2 to 1.3, said Dr. Anand of St. Michael's Hospital in Toronto.

Of the 305 charts eligible for analysis, 40 were from patients with diabetes. Controls comprised the first 265 consecutive patients without diabetes.

Three diabetic patients had neoplasms, as did three controls. The odds ratio for patients with diabetes having adenomas and/or carcinomas was 7.4, compared with nondiabetic patients.

There are several of limitations to this study," Dr. Anand said in an interview. "It's retrospective, which comes with its own host of issues. In addition, if it's not charted, we had no way of knowing if a patient was diabetic or not." In addition, the diabetic patients were older than their counterparts in the control group (mean age 64 vs. 58 years, respectively), she said.

Association of Gastroenterology and the Canadian Association for the Study of the Liver. Dr. Anand had no financial interests to disclose regarding the study. ■

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Occult Blood Test Useful in Ca Screening

BANFF, ALTA. — A screening program in Ontario was successful in detecting high-risk adenomas and colorectal cancer in patients referred because of positive fecal occult blood test results or a family history of colorectal cancer.

Dr. William G. Paterson and his colleagues reviewed the charts of 764 patients referred to the program; 122 were referred because of positive fecal occult blood tests (FOBTs). Of those, 14 patients were found to have cancer (11.4% diagnostic yield) and 30 had high-risk adenomas (24.6% diagnostic yield).

The remaining 642 patients screened through the program had a family history of colorectal cancer. Eleven cases of cancer (1.7% diagnostic yield) and 37 high-risk adenomas (5.8% diagnostic yield) were found. The yield for this cohort was not statistically different between patients whose first-degree relative was diagnosed at age 60 years or younger, or at older than 60 years of age.

A separate group of 2,011 patients underwent screening colonoscopy outside the newly developed program; 135 of them were considered to be of average risk, Dr. Paterson reported at the Canadian Digestive Diseases Week.

Among average-risk patients, one was found to have cancer (0.7% diagnostic yield); five others had high-risk adenoma (3.7% diagnostic yield).

"So the yield for those who came with a positive FOBT was significantly higher than all the other routes," said Dr. Paterson, chief of gastroenterology at Queen's University in Kingston, Ontario.

Dr. Paterson disclosed that he has no relevant financial interests to disclose regarding this topic. CDDW is sponsored by the Canadian Association of Gastroenterology and the Canadian Association for the Study of the Liver.

-Michael Vlessides

AMRIX®

aprine Hydrochloride Extended-Release Capsules)

Brief Summary of Prescribing Information. The following is a brief summary only. Please see full Prescribing Information for complete product information.

AMRIX® (Cyclobenzaprine Hydrochloride Extended-Release Capsules) is a skeletal muscle relaxant which relieves muscle spasm of local origin without interfering with muscle function. The active ingredient in AMRIX extended-release capsules is cyclobenzaprine hydrochloride, USP. AMRIX extended-release capsules for oral administration are supplied in 15 and 30 mg strengths.

INDICATIONS AND USAGE

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AMRIX is indicated as an adjunct to rest and physical therapy for relief of muscle spasm associated with acute, painful musculoskeletal conditions. Improvement is manifested by relief of muscle spasm and its associated signs and symptoms, namely, pain, tenderness, and limitation of motion.

AMRIX should be used only for short periods (up to two or three weeks) because adequate evidence of effectiveness for more prolonged use is not available and because muscle spasm associated with acute, painful musculoskeletal conditions is generally of short duration and specific therapy for longer

periods is seldom warranted.

AMRIX has not been found effective in the treatment of spasticity associated with cerebral or spinal cord disease or in children with cerebral palsy.

- Hypersensitivity to any component of this product.
 Concomitant use of monoamine oxidase (MAO) inhibitors or within 14 days after their discontinuation.
 Hyperpyretic crisis seizures and deaths have occurred in patients receiving cyclobenzaprine (or structurally similar tricyclic antidepressants) concomitantly with MAO inhibitor drugs.
 During the acute recovery phase of myocardial infarction, and in patients with arrhythmias, heart block conduction disturbances, or congestive heart failure.
 Hyperthyroidism.

WARNINGS

ely related to the tricyclic antidepressants, e.g., amitriptyline and imipramine. In short term studies for indications other than muscle spasm associated with acute musculoskeletal conditions, and usually at doses somewhat greater than those recommended for skeletal muscle spasm, some of the more serious central nervous system reactions noted with the tricyclic antidepressants have occurred (see WARNINGS, below, and ADVERSE REACTIONS section of full

antidepressants have occurred (see WARNINGS, below, and ADVERSE REACTIONS section of full Prescribing Information).

Tricyclic antidepressants have been reported to produce arrhythmias, sinus tachycardia, prolongation of the conduction time leading to myocardial infarction and stroke. AMRIX may enhance the effects of alcohol, barbiturates, and other CNS depressants.

As a result of a two-fold higher cyclobenzaprine plasma levels in subjects with mild hepatic impairment, as compared to healthy subjects, following administration of immediate-release cyclobenzaprine and because there is limited dosing flexibility with AMRIX, use of AMRIX is not recommended in subjects with mild, moderate or severe hepatic impairment.

As a result of a 40% increase in cyclobenzaprine plasma levels and a 56% increase in plasma half-life following administration of AMRIX in elderly subjects as compared to young adults, use of AMRIX is not recommended in elderly.

PRECAUTIONS

Because of its atropine-like action, AMRIX should be used with caution in patients with a history of urinary retention, angle-closure glaucoma, increased intraocular pressure, and in patients taking anticholinergic medication.

Information for Patients

AMRIX, especially when used with alcohol or other CNS depressants, may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle.

Drug Interactions

AMRIX may have life-threatening interactions with MAO inhibitors. (See CONTRAINDICATIONS.)

AMRIX may enhance the effects of alcohol, barbiturates, and other CNS depressants. Tricyclic antidepressants may block the antihypertensive action of guanethidine and similarly acting compounds. Tricyclic antidepressants may enhance the seizure risk in patients taking tramadol (ULTRAM® (tramadol HCl tablets, Ortho-McNeil Pharmaceutical) or ULTRACET® (tramadol HCl and acetaminophen tablets, Ortho-McNeil Pharmaceutical)).

Carcinogenesis, Mutagenesis, Impairment of Fertility
In rats treated with cyclobenzaprine for up to 67 weeks at doses of approximately 5 to 40 times the maximum recommended human dose, pale, sometimes enlarged, livers were noted and there was a dose-related hepatocyte vacuolation with lipidosis. Cyclobenzaprine did not affect the onset, incidence, or distribution of neoplasia in an 81-week study in the mouse or in a 105-week study in the rat. At oral doses of up to 10 times the human dose, cyclobenzaprine did not adversely affect the reproductive performance or fertility of male or female rats.

A battery of mutagenicity tests using hacterial and mammalian systems for point mutations and

A battery of mutagenicity tests using bacterial and mammalian systems for point mutations and cytogenic effects have provided no evidence for a mutagenic potential for cyclobenzaprine.

PregnancyPregnancy Category B: Reproduction studies have been performed in rats, mice, and rabbits at doses up to 20 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to cyclobenzaprine. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers
It is not known whether this drug is excreted in human milk. Because cyclobenzaprine is closely related to the tricyclic antidepressants, some of which are known to be excreted in human milk, caution should be exercised when AMRIX is administered to a nursing woman.

Pediatric Use Safety and effectiveness of AMRIX has not been studied in pediatric patients.

Use in the Elderly
The plasma concentration and half-life of cyclobenzaprine are substantially increased in the elderly when compared to the general patient population (see CLINICAL PHARMACOLOGY, Pharmacokinetics, Special Populations, Elderly in full Prescribing Information). Accordingly, AMRIX should not be used

ADVERSE REACTIONS

se reactions in the two 14-day clinical efficacy trials are presented in Table 1.

	AMRIX 15 mg N = 127	AMRIX 30 mg N = 126	Placebo N = 128
Dry mouth	6%	14%	2%
Dizziness	3%	6%	2%
Fatigue	3%	3%	2%
Constipation	1%	3%	0%
Somnolence	1%	2%	0%
Nausea	3%	3%	1%
Dyspepsia	0%	4%	1%

In a postmarketing surveillance program (7607 patients readed with cyclobenzaprine 10 mg TID), the adverse reactions reported most frequently were drowsiness, dry mouth, and dizziness. Among the less frequent adverse reactions, there was no appreciable difference in incidence in controlled clinical studies or in the surveillance program. Adverse reactions which were reported in 1% to 3% of the patients were: fatigue/triedness, asthenia, nausea, constipation, dyspepsia, unpleasant taste, blurred vision, headache, nervousness, and confusion. The following adverse reactions have been reported in post-marketing experience or with an incidence of less than 1% of patients in clinical trials with the 10 mg TID tablet:

Body as a Whole: Syncope; malaise.

Cardiovascular: Tactypcardia; arrhythmia; vasodilatation; palpitation; hypotension.

Digestive: Vomiting; anorexia; diarrhea; gastrointestinal pain; gastritis; thirst; flatulence; edema of the tongue; abnormal liver function and rare reports of hepatitis, jaundice, and cholestasis.

Hypersensitivity: Anaphylaxis; angioedema; pruritus; facial edema; urticaria; rash.

Musculoskeletal: Local weakness.

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Nervous System and Psychiatric: Seizures, ataxia; vertigo; dysarthria; tremors; hypertonia; convulsions; muscle twitching; disorientation; insomnia; depressed mood; abnormal sensations; anxiety; agitation; psychosis, abnormal thinking and dreaming; hallucinations; excitement; paresthesia; diplopia.
Skin: Sweating.
Special Senses: Ageusia; tinnitus.
Urogenital: Urinary frequency and/or retention.

DRUG ABUSE AND DEPENDENCE

Pharmacologic similarities among the tricyclic drugs require that certain withdrawal symptoms be considered when AMRIX (Cyclobenzaprine Hydrochloride Extended-Release Capsules) is administered, even though they have not been reported to occur with this drug. Abrupt cessation of treatment after prolonged administration rarely may produce nausea, headache, and malaise. These are not indicative of addiction.

Indicative of addiction.

OVERDOSAGE
Although rare, deaths may occur from overdosage with AMRIX. Multiple drug ingestion (including alcohol) is common in deliberate cyclobenzaprine overdose. As management of overdose is complex and changing, it is recommended that the physician contact a poison control center for current information on treatment. Signs and symptoms of toxicity may develop rapidly after cyclobenzaprine overdose; therefore, hospital monitoring is required as soon as possible.

All patients suspected of an overdose with AMRIX should receive gastrointestinal decontamination. This should include large volume gastric lavage followed by activated charcoal. If consciousness is impaired, the airway should be secured prior to lavage and emesis is contraindicated.

The principles of management of child and adult overdosage are similar. It is strongly recommended that the physician contact the local poison control center for specific pediatric treatment.

DOSAGE AND ADMINISTRATION

TUSAGE AND ADMINISTRATION

The recommended adult dose for most patients is one (1) AMRIX 15 mg capsule taken once daily.
Some patients may require up to 30 mg/day, given as one (1) AMRIX 30 mg capsule taken once daily or as two (2) AMRIX 15 mg capsules taken once daily.
It is recommended that doses be taken at approximately the same time each day.
Use of AMRIX for periods longer than two or three weeks is not recommended (see INDICATIONS AND USAGE).

Dosage Considerations for Special Patient Populations: AMRIX should not be used in the elderly or in patients with impaired hepatic function (see WARNINGS).

HOW SUPPLIED

ase capsules are available in 15 and 30 mg strengths, packaged in bottles

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN. IN CASE OF ACCIDENTAL OVERDOSE, SEEK PROFESSIONAL ASSISTANCE OR CONTACT A POISON CONTROL CENTER IMMEDIATELY.

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