Consider Allergy Testing in Patients With Asthma

BY KATE JOHNSON

Montreal Bureau

SAN ANTONIO — Consider routine allergy testing for patients with asthma and/or allergic rhinitis, Helen Smith, M.B., advised at the annual meeting of the American Academy of Allergy, Asthma, and Immunology.

There's no doubt that rhinitis is one of those things that goes unnoticed and unattended to, and one could argue that

identifying the allergic causes of it could reduce repeat consultations about poorly managed chronic asthma," she told this newspaper.

Her study of 127 such patients found an 83% allergy rate after skin prick testinginformation which resulted in significant changes in patient habits and medications, said Dr. Smith, professor of primary care at Brighton and Sussex Medical School (England).

"We have some follow-up data a few

months after the allergy diagnosis, and there have been changes in lifestyle in 35% of patients and changes in medication in 15%," she said.

The study tested patients for the five most common aeroallergens in England. It identified grass allergy in 55% of patients, pollen allergies in 55%, tree pollen allergy in 41%, cat allergy in 38%, and dog allergy in 15%.

The lifestyle changes that patients adopted after diagnosis were largely avoidance measures such as no longer cutting the grass, she said. And medication changes were mostly additions of medications, such as antihistamines, to the existing asthma/rhinitis regimens.

These are very much proxy markers, suggesting that there was this unmet ability to improve patient care," she said. A more accurate assessment of the value of allergy testing is currently being evaluated in another ongoing randomized, controlled trial of skin prick test and allergy assessment, which is following patients for 12 months to track changes in quality of life and symptom control.

BONIVA®
(ibandronate sodium) TABLETS
BRIEF SUMMARY
CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

- CONTRAINDICATIONS

 Known hypersensitivity to BONIVA or to any of its excipients

 Uncorrected hypocalcemia (see PRECAUTIONS: General)

 Inability to stand or sit upright for at least 60 minutes
 (see DOSAGE AND ADMINISTRATION)

PRECAUTIONS: General

Mineral Metabolism: Hypocalcemia and other disturbances of bone and mineral
metabolism should be effectively treated before starting BONIVA therapy. Adequate
intake of calcium and vitamin 0 is important in all patients.

Upper Gastrointestinal Effects: Bisphosphonates administered orally have been
associated with dysphagia, esophagitis, and esophageal or gastric ulcers. This
association has been reported for bisphosphonates in postmarketing experience but
has not been found in most preapproval clinical trials, including those conducted
with BONIVA. Therefore, patients should be advised to pay particular attention to and
be able to comply with the dosing instructions to minimize the risk of these effects
(see DOSAGE AND ADMINISTRATION).

Severe Renal Impairment: BONIVA is not recommended for use in patients with
severe renal impairment (creatinine clearance - 30 mL/min).

Jaw Osteonecrosis: Osteonecrosis. orimanily in the law, has been recorted in

severe renal impairment (creatinine clearance <30 mL/min).

Jaw Osteonecrosis: Osteonecrosis, primarily in the jaw, has been reported in patients treated with bisphosphonates. Most cases have been in cancer patients undergoing dental procedures, but some have occurred in patients with postmenopausal osteoprorsis or other diagnoses. Known risk factors for osteonecrosis include a diagnosis of cancer, concomitant therapies (ep. chemotherapy, radiotherapy, corticosteroids), and co-morbid disorders (ep. anetia, cagulopathy, infection, pre-existing dental disease). Most reported cases have been in patients treated with bisphosphonates intravenously but some have been in patients treated vally. For patients who develop osteonecrosis of the jaw (ONJ) while on bisphosphonate breapy, dental surgery may exacerbate the condition. For patients requiring dental procedures, there are no data available to suggest whether discontinuation of bisphosphonate treatment reduces the risk of ONJ. Clinical judgment of the treating physical should guide the management plan of each patient based on individual benefit/risk assessment.

patient based on individual benefibrisk assessment.

Musculoskeletal Pain: In postmarketing experience, severe and occasionally incapacitating bone, joint, and/or muscle pain has been reported in patients taking bisphosphonates that are approved for the prevention and treatment of osteoprosis (see ADVERSE REACTIONS). However, such reports have been infrequent. This category of drugs include BONIVA (ibandronate sodium) Tablets. Most of the patients were postmenopausal women. The time to onset of symptoms varied from one day to several months after starting the drug. Most patients had relief of symptoms after stopping. A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate. In placebo-controlled studies with BONIVA, the percentages of patients with these symptoms were similar in the BONIVA and septients several patients had rectained to read the Deliver Information for Patients.

order to maximize absorption and clinical benefit or the distribution of the day and collicial benefit or the first food or drink (other than water) of the day and before taking any oral medications containing multivalent cations (including antacids, supplements or vitamins).

To facilitate delivery to the stomach, and thus reduce the potential for esophageal irritation, BONIVA tablets should be swallowed whole with a full glass of plain water (6 to 8 oz) while the patient is standing or sitting in an upright position. Patients should not lie down for 60 minutes after taking BONIVA.

Plain water is the only drink that should be taken with BONIVA. Please note that some mineral waters may have a higher concentration of calcium and therefore should not be used.

Patients should not for our suck the tablet because of a catastial for Patients should not be used.

Patients should not chew or suck the tablet because of a potential for haryngeal ulceration.

BONIVA 150-mg tablet should be taken on the same date each month (ie, the nt's BONIVA day).

patient's BONIVA day).

If the once-monthly dose is missed, and the patient's next scheduled BONIVA day is more than 7 days away, the patient should be instructed to take one BONIVA 50-mg tablet in the morning following the date that it is remembered (see DOSAGE AND ADMINISTRATION). The patient should then return to taking one BONIVA 150-mg tablet every month in the morning of their chosen day, according to their original schedule.

original schedule.

The patient must not take two 150-mg tablets within the same week. If the patient's next scheduled BONIVA day is only 1 to 7 days away, the patient must wait until their next scheduled BONIVA day to take their tablet. The patient should then return to taking one BONIVA 150-mg tablet every month in the morning of their chosen day, according to their original schedule. Patients should receive supplemental calcium and vitamin D if dietary intake is inadequate. Intake of supplemental calcium and vitamin D should be delayed for at least 60 minutes following oral administration of BONIVA in order to maximize absorption of BONIVA.

absorption of BONIVA.

Physicians should be alert to signs or symptoms signaling a possible esophageal reaction during therapy, and patients should be instructed to discontinue BONIVA and seek medical attention if they develop symptoms of esophageal irritation such as new or worsening dysphagia, pain on swallowing, retrosternal pain, or heartburn.

Drug Interactions

Calcium Supplements/Antacids: Products containing calcium and other multivalent cations (such as aluminum, magnesium, iron) are likely to interfere with absorption of BONIVA BONIVA should be taken at least 60 minutes before any oral medications rotalning multivalent cations (including antacids, supplements or vitamins) (see PRECAUTIONS: Information for Patients).

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times, respectively, human exposure at the recommended daily oral dose of 2.5 mg, and cumulative exposures up to 3.5 and 2 times, respectively, human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). There were no significant durg-related tumor findings in male or female rats. In a 78-week carcinogenicity study, doses of 5.20, or 40 mg/kg/day were administered by oral gavage to male and female NIMEI mice (exposures up to 475 and 70 times, respectively, human exposure at the recommended daily oral dose of 2.5 mg and cumulative exposures up to 135 and 20 times, respectively, human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). There were no significant drug-related tumor findings in male or female mice. In a 90-week carcinogenicity study, doses of 5.20, or 80 mg/kg/day were administered in the drinking water to NMRI mice (cumulative monthly exposures in males and females up to 70 and 115 times, respectively, human exposure at the recommended dose of 150 mg, based on AUC comparison). A dose-related increased incidence of adrenal subcapsular adenoma/carcinoma was observed in female mice, which was statistically significant at 80 mg/kg/day (220 to 400 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). The relevance of these findings to humans is unknown.

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AUC companson). The relevance of these findings to humans is unknown.

Mutagenesis: There was no evidence for a mutagenic or dastopenic potential of ibandronate in the following assays: in vitro bacterial mutagenesis assay in Salmonella typhimurium and Escherichia coli (Ames test), mammalian cell mutagenesis assay in Chinese hamster V79 cells, and chromosomal aberration test in human peripheral lymphocytes, each with and without metabolic activation. Ibandronate was not genotoxic in the in vivo mouse micronucleus tests for chromosomal damage.

Salmonella typhimurium and Escherichia coli (Ames test), mammalian cell inutagenesis assay in Chinese hamster V79 cells, and chromosomal aberration test in human peripheral lymphocytes, each with and without metabolic activation. Inadronate was not genotoxic in the in vivo mouse micronucleus tests for chromosomal damage.

Impairment of Fertility, in female rats treated from 14 days prior to mating through gestation, decreases in fertility, corpora lutea, and implantation sites were observed at an oral dose of 15 mg and 13 times human exposure at the recommended once-monthly oral dose of 2.5 mg and 13 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison).

Pregnancy: Pregnancy Category C: In female rats given oral doses of 1, 4, or 16 mg/kg/day beginning 14 days before mating and continuing through lactation, maternal deaths were observed at the time of delivery in all dose groups (<3 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). Perinatal pul polss in dams given 16 mg/kg/day (45 times human exposure at the recommended daily oral dose of 2.5 mg and 13 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). Perinatal pul polss in dams given 16 mg/kg/day (45 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). Perinatal pul polss in dams given 16 mg/kg/day (45 times human exposure at the recommended once-monthly oral dose of 2.5 mg and 13 times human exposure at the recommended once-monthly oral dose of 2.5 mg and 4.4 6 times human exposure at the recommended donce-monthly oral dose of 2.5 mg and 4.4 6 times human exposure at the recommended donce-monthly oral dose of 2.5 mg and 4.4 6 times human exposure at the recommended donce-monthly oral dose of 2.5 mg and 4.4 times human exposure at the recommended donce-monthly oral dose of 2.5 mg and 4.4 times human exposure at the recommended donce-monthly oral dose of 2.5 mg and 4.4 t

potential risk to the mother and fetus.

Nursing Mothers: In lactating rats treated with intravenous doses of 0.08 mg/kg, ibandronate was present in breast milk at concentrations of 8.1 to 0.4 ng/ml. from 2 to 24 hours after dose administration. Concentrations in milk averaged 1.5 times plasma concentrations. It is not known whether BONIVA is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when BONIVA is administered to a nursing woman.

Pediatric Use: Safety and effectiveness in pediatric patients have not been

Geriatric Use: Of the patients receiving BONIVA 2.5 mg daily in postmenopausal osteoporosis studies, 52% were over 65 years of age, and 10% were over 75 years of age. Of the patients receiving BONIVA 15.0 mg once monthly in the postmenopausal osteoporosis 1-year study, 52% were over 65 years of age, and 9% were over 75 years of age. No overall differences in effectiveness or safety were observed between these patients and younger patients but greater sensitivity in some older individuals cannot be ruled out.

ADVERSE REACTIONS

Daily Dosing: Daily treatment with oral BONIVA was studied in over 3900 patients in postmenopausal osteoporosis trials of up to 3 years duration. The overall adverse event profile of BONIVA 2.5 mg once daily in these studies was similar to that of placebo.

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Treatment and Prevention of Postmenopausal Osteoporosis: Most adverse events were mild or moderate and did not lead to discontinuation. The incidence of serious adverse events was 20% in the placebo group and 23% in the BONIVA 2.5 mg daily group. The percentage of patients who withdrew from treatment due to adverse events was approximately 17% in both the BONIVA 2.5 mg daily group and the placebo group. Overall, and according to body system, there was no difference between BONIVA and placebo, with adverse events of the digestive system being the most common reason for withdrawal.

Table 1 lists adverse events from the Treatment and Prevention Studies reported in x2% of patients and in more patients treated daily with BONIVA than patients treated with placebo. Adverse events are shown without attribution of causality. Table 1: Adverse Events Occurring at a Frequency x2% and in More Patients Treated with Blacebo Daily in the Osteoporosis Treatment and Prevention Studies

BONIVA 5.5 mg BONIVA 10.2.5 mg BONIVA 2.5 mg B

Body System	Placebo % (n=1134)	BUNIVA 2.5 mg % (n=1140)
Body as a Whole Back Pain Pain in Extremity Infection	12.2 6.4 3.4	13.5 7.8 4.3

Asthenia	2.3	3.5
Allergic Reaction	1.9	2.5
Digestive System		
Dyspepsia	9.8	11.9
Diarrhea	5.0	6.8
Tooth Disorder	2.3	3.5
Vomiting	2.1	2.7
Gastritis	1.9	2.2
Metabolic and Nutritional Dis		
Hypercholesterolemia	4.2	4.8
Musculoskeletal System		
Myalgia	5.1	5.7
Joint Disorder	3.3	3.6
Arthritis	2.7	3.2
Nervous System		
Headache	5.8	6.5
Dizziness	2.6	3.7
Vertigo	2.5	3.0
Nerve Root Lesion	1.9	2.2
Respiratory System		
Upper Respiratory Infection	33.2	33.7
Bronchitis	6.8	10.0
Pneumonia	4.3	5.9
Pharyngitis	1.5	2.5
Urogenital System		
Urinary Tract Infection	4.2	5.5

(2% of patients without attribution of causainy.
Table 2: Adverse Events with an Incidence of at Least 2% in Patients Treated with RONIVA 150 mg Once Monthly or 2.5 mg Daily

with BONIVA 150 mg Once Monthly or 2.5 mg Daily				
Body System/Adverse Event	BONIVA	BONIVA		
	2.5 mg daily	150 mg monthly %		
	(n=395)	(n=396)		
Vascular Disorders				
Hypertension	7.3	6.3		
Gastrointestinal Disorders				
Dyspepsia	7.1	5.6		
Nausea	4.8	5.1		
Diarrhea	4.1	5.1		
Constipation	2.5	4.0		
Abdominal Pain ^a	5.3	7.8		
Musculoskeletal and Connective				
Arthralgia	3.5	5.6		
Back Pain	4.3	4.5		
Pain in Extremity	1.3	4.0		
Localized Osteoarthritis	1.3	3.0		
Myalgia	0.8	2.0		
Muscle Cramp	2.0	1.8		
Infections and Infestations				
Influenza	3.8	4.0		
Nasopharyngitis	4.3	3.5		
Bronchitis	3.5	2.5		
Urinary Tract Infection	1.8	2.3		
Upper Respiratory Tract Infection	2.0	2.0		
Nervous System Disorders				
Headache	4.1	3.3		
Dizziness	1.0	2.3		
General Disorders and Administra	ation Site Conditions			
Influenza-like Illness ^b	0.8	3.3		
Skin and Subcutaneous Tissue D				
Rash	1.3	2.3		
Psychiatric Disorders				
Insomnia	0.8	2.0		

erythematous, dermatitis, dermatitis allergic, dermätitis medicamentosa, erythema and exanthem. Patients with a previous history of gastrointestinal disease, including patients with peptic uler without recent bleeding or hospitalization and patients with dyspesia or reflux controlled by medication, were included in the once-monthly treatment study. For these patients, there was no difference in upper gastrointestinal adverse events with the 150 mg once-monthly regimen compared to the 2.5 mg once-daily regimen. Ocular Adverse Events: Reports in the medical literature indicate that bisphosphonates may be associated with ocular inflammation such as uveitis and sciertis. In some cases, these events did not resolve until the bisphosphonate was discontinued. There were no reports of ocular inflammation in studies with BONIVA 2.5 mg daily. Two patients who received BONIVA once monthly experienced ocular inflammation, one was a case of uveitis and the other sciertis.

Laboratory Test Findings: the 3-year treatment study with BONIVA 2.5 mg daily, there were no clinically significant changes from baseline values or shifts in any laboratory variable for each of the treatment groups. As expected with significant existence in the active treatment groups compared to placebo. There was no difference compared with placebo for laboratory administration in the 1-year study. OVERDOSAGE: No specific information is available on the treatment or overtosage.

OVERDIOSAGE: No specific information is available on the treatment of overdosage with BONIVA. However, based on knowledge of this class of compounds, oral overdosage may result in hypocalcemia, hypophosphatemia, and upper gastrointestinal adverse events, such as upset stomach, dyspepsia, esophagitis, gastritis, or ulcer. Milk or antacids should be given to bind BONIVA. Due to the risk of esophageal irritation, vomiting should not be induced, and the patient should remain fully upright. Dialysis would not be beneficial.

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FDA: Drugs for Asthma, COPD Misadministered

he Food and Drug Administration has The Food and Drug Physicians issued an alert warning physicians and pharmacists that it has received reports of inadvertent oral administration of the aerolized drugs Foradil and Spiriva.

The agency has received information on 30 cases of oral administration of the two drugs. Most of these reports did not indicate an adverse event, but one did involve difficulty breathing following oral ingestion. Another case involved hospitalization resulting from exacerbation of chronic obstructive pulmonary disease (COPD).

The Foradil Aerolizer (formoterol inhalation powder), a long-acting, selective β-2 adrenoreceptor agonist manufactured by Novartis Pharmaceuticals Corp., is indicated for the scheduled maintenance therapy for asthma and COPD and for the prevention of exercise-induced bronchospasm on an as-needed basis. The Spiriva Handi-Haler (tiotropium inhalation powder), a long-acting anticholinergic agent manufactured by Boehringer Ingelheim Corp., is indicated for the scheduled maintenance therapy for asthma and COPD.

The misadministration occurs because these capsules resemble those typically taken orally. In addition, the capsules are supplied in packages that do not prominently display "NOT FOR ORAL USE." Swallowing instead of inhaling the capsules may lead to delayed onset of action, reduced efficacy, and inadequate drug delivery, the FDA warned.

The FDA is working with the manufacturers to resolve the problems. In the meantime, the agency recommends:

- ► Counsel patients about the potential for confusion and how to avoid it.
- ▶ Avoid dispensing the capsules for inhalation without the inhalation device.
- ▶ If the capsules for inhalation are dispensed separately as unit-dose capsules, affix a cautionary label or statement indicating "FOR INHALATION USE WITH SPECIAL INHALER ONLY."
- ► Advise patients to store the capsules for inhalation together with the inhaler.
- ► Highlight the "FOR INHALATION USE ONLY" statement on the product package and container if possible

-Kerri Wachter