Patch Test Series May Miss Cosmetic Allergens

BY JEFF EVANS Senior Writer

HERSHEY, PA. — Patch testing with personal cosmetic products or topical prescriptions may identify allergens that are not found on common series in patients with suspected allergic contact dermatitis to cosmetics, Erin M. Warshaw, M.D., said at a meeting on contact dermatitis sponsored by Pennsylvania State University.

Most of the allergens that are found in

cosmetic products function as fragrance, preservative, emulsifier, pigment, antioxidant, or surfactant, said Dr. Warshaw, codirector of the occupational and contact dermatitis clinic at the University of Minnesota, Minneapolis.

At least 6% of the positive reactions to patch tests were thought to be related to cosmetics in a study of 8,093 patients. More than 90% of the patients with reactions related to cosmetics were women and patients aged 20-49 years (J. Am.

Acad. Dermatol. 1982;6:909-17). The most common cosmetic products that caused allergic contact dermatitis in that series of patients included skin care products, facial makeup, nail preparations, and fragranced products.

In a separate study of 203 patients with persistent or recurrent eyelid dermatitis, 151 (74%) of the cases were caused by cosmetics. Of the 167 patients with allergic contact dermatitis, 66 (40%) would have been missed by the 24-item thin-layer rapid use epicutaneous (TRUE) test (J. Am. Acad. Dermatol. 2002:47:755-65).

The Chemotechnique Diagnostics cosmetic series contains 48 allergens plus the standard series, but only 6 of these allergens are on the TRUE test. "It's important to patch test to an extended series as well as personal products," Dr. Warshaw advised.

Preservatives, "probably the most important category" of ingredients in cosmetics, include formaldehyde-releasing chemicals such as quaternium-15, triclosan, benzyl alcohol, Kathon CG, Euxyl K 400, and iodopropynyl butyl carbamate, Dr. Warshaw said. She reviewed some of these preservatives:

▶ Quaternium-15. In more than nine U.S. studies, quaternium-15 has been the most common cause of preservative allergy. The prevalence of allergic contact dermatitis to

When identifying sources of allergic contact dermatitis, preservatives are 'probably the most important category' of ingredients in cosmetics.

the preservative has increased in studies ducted by the North American Contact Dermatitis Group, from 2.3% in the 1970s to 9.6% in 1998. Most (58%-66%) of the positive reactions quaternium-15 during patch

testing have been reported to be relevant to a current or past episode of dermatitis.

About half of the patients with an allergy to quaternium-15 will cross-react to other formaldehyde-releasing preservatives such as bronopol, imidazolidinyl urea, diazolidinyl urea, DMDM hydantoin, Grotan BK, ethylene urea melamine formaldehyde (in clothing), and toluene sulfonamide formaldehyde resin (in nail polish), said Dr. Warshaw, also of the department of dermatology at the university.

- ► Triclosan. This antimicrobial agent is found in deodorants, soaps, powders, and
- ▶ Benzyl alcohol (phenylcarbinol). This preservative is a rare allergen that is not on the TRUE test. Patch testing to patients' personal products such as prescription creams and Aveeno lotion will help check for a reaction to this allergen, she said.
- ► Kathon CG. This allergen is on the TRUE test. It is a mix of methylchloroisothiazolinone and methylisothiazolinone.

Lanolin is another common allergen found in lipstick, lip balm, creams, and waxes, and is found on the TRUE test. Bee glue or wax (propolis), known as the dimethylallyl ester of caffeic acid, is an allergen in lipstick, ointments, and mascara. Propolis is a primary ingredient in Burt's Bees products.

The members-only portion of the American Contact Dermatitis Society Web site, www.contactderm.org, contains a database that includes an ingredient dictionary to help sort through the chemical names of allergens, information on the cross-reactivity potential of allergens, and a list of products that are free of specific allergens, she explained.

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

- ONTRAINDICATIONS

 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)

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WARNINGS

BONIVA, like other bisphosphonates administered orally may cause upper gastrointestinal disorders such as dysphagia, esophagitis, and esophageal or gastric ulcer (see PRECAUTIONS).

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 D 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 EdoNiVA is not recommended for use in patients with postmenopausal osteoprocisis or other diagnoses. Known risk factors for osteonecrosis. Osteonecrosis, primarily in the jaw, has been reported in patients with postmenopausal osteoprocisis or other diagnoses. Known risk factors for osteonecrosis include a diagnosis of cancer, concomitant therapies (eg, chemotherapy, adultotherapy, corticosteroids), and co-morbid disorders (eg, anemis, patients with postmenopausal osteoprocisis or other diagnoses. Known risk factors for osteonecrosis include a diagnosis of cancer, concomitant therapies (eg, chemotherapy, adultotherapy, corticosteroids), and co-morbid disorders (eg, anemis diagnosis of cancer, concomitant therapies (eg, chemotherapy, adultotherapy, corticosteroids), and co-morbid disorders (eg, anemis diagnosis of cancer, concomitant therapies (eg, chemotherapy, adultotherapy, a

patient based on individual benefit/risk assessment.

Musculoskeletal Pair: 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 osteoporosis (see ADVERSE REACTIONS). However, such reports have been infrequent. This category of trugs 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 placebo groups.

Information for Patients: Valentes should be instructed to good the Detection of the patients with the same day to the patients which these symptoms were similar in the BONIVA and placebo groups.

Information for Patients: Patients should be instructed to read the Patient Information for Patients: Patients should be instructed to read the Patient Information Leaflet carefully before taking BONIVA, to re-read it each time the prescription is renewed and to pay particular attention to the dosing instructions in order to maximize absorption and clinical benefit.

-BONIVA should be taken at least 60 minutes before the first food or drink (other than water) of the day and before taking any oral medications containing multivalent cations (including antacids, supplements or vitaminis).

-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 stiting 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 chew or suck the tablet because of a potential for oropharyngeal ulceration.

The BONIVA 150-mg tablet should be taken on the same date each month (ie, the nation's RONIVA 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 150-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 scheduler.

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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 150-mg tablet every month in the advanced by their chosen day, according to their original scheduler.

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 BUNIVA.

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 anew or worsening dysphagia, pain on swallowing, retrosternal pain, or hearthum.

new or worsening dysphagia, pain on swallowing, retrostemal 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 BONINA BONIVA should be taken at least 50 minutes before any oral medications containing multivalent cations (including antacids, supplements or vitamins) (see PRECAUTIONS: Information for Patients).

H2 Blockers and Proton Pump Inhibitors (PPIs): Of over 3500 patients enrolled in the BONIVA osteoporosis Treatment and Prevention Studies, 15% used anti-peptic agents (primarily H2 blockers and PPIs). Among these patients, the incidence of upper gastrointestinal adverse experiences in the patients treated with BONIVA was similar to that in placeb-treated patients. Similarly, of over 1600 patients enrolled in a study comparing once-monthly with daily dosing regimens of ibandronate, 14% of patients used anti-peptic agents. Among these patients, the incidence of upper gastrointestinal adverse experiences in the patients treated with BONIVA 150 mg once monthly was similar to that in patients treated with BONIVA 150 mg once monthly was similar to that in patients treated with BONIVA 2.5 mg once daily. Aspirin/Nonsteroidal Antiinflammatory Drugs (INSAIDs): In the large, placebo-controlled osteoporosis Treatment Study, aspirin and nonsteroidal antiinflammatory drugs were taken by 62% of the 2946 patients. Among aspirin or NSAID users, the incidence of upper gastrointestinal adverse events in patients treated with bandronate 2.5 mg daily (28.9%) was similar to that in placebo-treated patients (30.7%). Similarly, in the 1-year monthly comparison to that in placebo-treated patients (30.7%). Similarly, in the 1-year monthly comparison and onlysterioidal antiinflammatory drugs were taken by 39% of the 1602 patients. The incidence of upper gastrointestinal events in patients concomitantly taking aspirin or NSAIDs was similar to that in blacebo-treated patient (30.7%

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reinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: In a 104ek carcinogenicity study, doses of 3, 7, or 15 mg/kg/day were administered
oral gavage to male and female Wistar rats (systemic exposures up to 12 and 7

comparison). Perinatal pup loss in dams given 16 mg/kg/day (45 times human exposure at the recommended daily or al dose of 150 mg, based on AUC comparison). Perinatal pup loss in dams given 16 mg/kg/day (45 times alter of deliver) in length are proparison). Perinatal pup loss in dams given 16 mg/kg/day (45 times human exposure at the recommended daily or all dose of 2.5 mg and 13 times human exposure at the recommended daily or all dose of 2.5 mg and 13 times human exposure at the recommended daily or all 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 (45 times human exposure at the recommended daily oral dose of 150 mg, based on AUC comparison). Perinatal pup loss 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 pup loss 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 pup loss 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). Was likely related to maternal dystocia. In pregnant rats given oral doses of 6, 20, or 60 mg/kg/day during gestation, calcium supplementation (32 mg/kg/day by subcutaneous injection from gestation day 18 to parturition) did not completely prevent dystocia and periparturient mortality in any of the treated groups (16 times human exposure at the recommended once-monthly oral dose of 150 mg, based on AUC comparison). A low incidence of postimplariation loss was doseved in rats treated from 14 days before mating through learning, maternal dystocia and periparturient mortality, were observed at doses 5 mg/kg/day (equivalent to human exposure at the recommended daily oral dose of 2.5 mg and 4 times human exposure at the recommended daily oral dose of 150 mg, based on AU

Table 1 cont.		
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	orders	
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
		ble-blind, multicenter study comparing

	%	%		
	(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 Tissue Disorders				
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 Administration Site Conditions				
Influenza-like Illness ^b	0.8	3.3		
Skin and Subcutaneous Tissue Disorders				
Rash ^c	1.3	2.3		
Psychiatric Disorders				
Insomnia	0.8	2.0		

vere noted for the 150 mg once-monthly administration in the 1-year study.
VERDOSAGE: No specific information is available on the treatment of overdosage
with BONIVA. However, based on knowledge of this class of compounds, or
verdosage may result in hypocalcemia, hypophosphatemia, and upper
astrointestinal adverse events, such as upset stomach, dyspepsia, esophagitis,
satritis, or ulcer. Milk or antacids should be given to bind BONIVA. Due to the risk
f esophageal irritation, vomiting should not be induced, and the patient should
main fully upright. Dialysis would not be beneficial.



Pharmaceuticals

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