Summer Comeback Seen for Contraceptive Sponge

BY ELIZABETH MECHCATIE

Senior Writer

ore than a decade after it was taken off the market because of manufacturing issues, the contraceptive sponge has been cleared by the Food and Drug Administration and is expected to be available this summer.

The Today Sponge, which is made of polyurethane foam and contains a 1-g reservoir of nonoxynol-9, will be available

over the counter this summer, according to Allendale Pharmaceuticals Inc., the N.J.based company that bought the rights to the product in 1998. It is the same device taken off the market in 1994, when safety issues were raised with the facilities where the sponge was manufactured.

One sponge, which provides a barrier between the cervix and sperm, continually releases 125-150 mg of nonoxynol-9 into the vagina and can be used for 24 hours, the company said. The polyurethane foam "traps and absorbs semen" before the sperm are able to enter the cervix. It must be left in place for at least 6 hours after the last act of intercourse, and it does not protect against sexually transmitted diseases,

In multicenter clinical trials of more than 1.800 women conducted in the United States and eight other countries before the device was pulled from the market, the sponge was 89% effective in preventing pregnancies during 1 year among 939 parous women studied and 91% effective among 915 nulliparous women studied, when used properly for every act of intercourse, according to the company. When used improperly and inconsistently, the effectiveness rate ranged from 84%-87%, the company said.

Use of the Today Sponge is contraindicated in individuals who are allergic or sensitive to nonoxynol-9. Typical symptoms can include vaginal burning, itching, redness, rash, and irritation. In the U.S. portion of the clinical study, 4% of women discontinued use of the sponge due to allergic symptoms. Worldwide, this figure was 2.1%. If the user or her partner is allergic to sulfa drugs, he or she should con-

during menstruation. Some cases of nonmenstrual toxic shock syndrome have been reported in women using barrier contraceptives, including Today Sponge, the diaphragm, and the cervical cap.

sult a physician before using the sponge. The sponge is contraindicated for use

St. John's Wort May Not Curb **OC** Effectiveness

Los Angeles — St. John's wort does not appear to interfere with the antiandrogenic effects of oral contraceptive pills, Robin Fogle, M.D., said at the annual meeting of the Society for Gynecologic Investigation.

She said testosterone levels decreased, while a marker of androgen metabolism increased, in 15 healthy women treated with St. John's wort and Loestrin 1/20 (norethindrone/estradiol) in a 4-month study.

Although the changes did not reach statistical significance, the outcomes strongly suggest St. John's wort will not interfere with the pill's effects when used as a primary treatment for hirsutism, said Dr. Fogle, of the University of Southern California, Los Angeles, in an interview.

The study was undertaken because reports have shown the over-the-counter herbal remedy, commonly used for depression and inflammation, induces cytochrome P450 activity. This can interfere with the efficacy of some drugs, including oral contraceptives, Dr. Fogle and her coinvestigators wrote in a poster presented at the meeting.

None of the women in the study had hirsutism. They took Loestrin 1/20 for four consecutive 28-day cycles. During the last two cycles, the protocol added 300 mg of St. John's wort taken three times daily.

Mean testosterone fell 10.7% (from 44.8 ng/dL to 40.0 ng/dL), and free testosterone fell 15.8% (from 0.38 ng/dL to 0.32ng/dL) after the addition of St. John's wort. Conversely, 3α-androstanediol glucuronide, the marker of androgen metabolism, rose 6.5% from 2 ng/mL to 2.13 ng/mL.

"It appears that St. John's wort enhances androgen metabolism and does not interfere with the antiandrogenic properties of oral contraceptive pills," they said.

_Jane Salodof MacNeil

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

- NINAMIDIATIONS

 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)

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

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 DDSAGE AND ADMINISTRATION).

with BONNA. 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 (seratinine 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 osteoporosis or other diagnoses. Known risk factors for steonecrosis include a diagnosis of cancer, concomitant therapies (eg. chemotherapy, radiotherapy, corticosteroids), and co-morbid disorders (eg. anemia, infection, pre-existing dental disease). Most reported cases have been in patients treated with bisphosphonates intravenously but some have been in patients treated with bisphosphonates intravenously but some have been in patients treated vith bisphosphonates intravenously but some have been in patients treated vith bisphosphonates intravenously but some have been in patients treated vith bisphosphonates intravenously but some have been in patients treated vith bisphosphonate treatment reduces the risk of ONJ. Clinical judgment of the treating physician should guide the management plan of each patient based on individual benefit/risk 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 osteoporosis (see ADVERSE REACTIONS). However, such reports have been infrequent. This category of drugs include BONIVA (bandronate sodium) Tablests. Most of the patients were postmenopausal women. The time to onset of symptoms were retailed or symptoms after stopping, A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate. I

oropharyngeal ulceration.

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

patient's BUNIVA 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 schedule.

(see PRECAUTIONS: Information for Patients).

He Blockers and Protop Pump Inhibitos: 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 placebo-treated patients. Similarly, of over 1600 patients enrolled in a study companing once-monthly with daily osting 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 2.5 mg once daily. 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 study, aspirin and nonsteroidal 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 in patients taking ibandronate 2.5 mg daily (21.7%) and 150 mg once monthly (22.0%). However, since aspirin, NSAIDs, and bisphosphonates are all associated with gastrointestinal irritation, caution should be exercised in the concomitant use of aspirin or NSAIDs with BONIVA.

Drugfaboratory Test Interactions: Bisphosphonates are known to interfere with the use of bone-imaging agents. Specific studies with ibandronate have not been performed.

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

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 drug-related tumor findings in male or female rats. In a 78-week carniogenicity study, doses of 5, 20, or 40 mg/kg/day were administered by oral gavage to male and female NMRI 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.

Mutagenesis: There was no evidence for a mutagenic or clastogenic potential of bandronate in the following assays: in vitro bacterial mutagenesis easay in Salmonella typhimurium and Escherichia coli (Ames test), mammalian cell mutagenesis assay in Chinese hamster V79 cells, and chromosomal aberration test forchromosomal damage.

satisfication was not genotoxic in the inmutagenesis assay in Chinese hamster V79 cells, and chromosomal aberation test
in human peripheral lymphocytes, each with and without metabolic activation.
Ibandronate was not genotoxic in the ininmore more properated by the properation of the propera

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 established.

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 150 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 overal 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.

Treatment and Prevention of Postmenopausal Osteoporosis: Most adverse events were mild or moderned and the studies are studies and studies and the studies are studies and studies and studies and studies are studies and s

event profile or Bolivity 2.5 mg once daily in these studies was similar to that of placebo.

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 ists adverse events from the Treatment and Prevention Studies reported in 12% 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 22% and in More Patier Treated with BONIVA than in Patients Treated with Placebo Daily in the

(n=1140)

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		
Dnce-Monthly Dosing: In a 1-year, double-blind, multicenter study comparing BONINA 2.5 mg once daily and BONINA 150 mg once monthly in women with postmenopausal osteoporosis, the overall safety and tolerability profiles of the two oral dosing regimens were similar. The incidence of serious adverse events was 4.8% in the BONINA 2.5 mg daily group and 7.1% in the BONINA 150 mg once-monthly group. The percentage of patients who withdrew from treatment due to adverse events was approximately 8.9% in the BONINA 2.5 mg daily group and 7.8% in the BONINA 150 mg once-monthly group. Table 2 lists the adverse events reported in £2% of patients without attribution of causality.				
Table 2: Adverse Events with an Incidence of at Least 2% in Patients Treated				

5.7 3.6

12% of patients without attribution Table 2: Adverse Events with an	of causality.	•
with BONIVA 150 mg	g 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	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 Administra	tion Site Conditio	
Influenza-like Illness ^b	0.8	3.3
Skin and Subcutaneous Tissue Di	sorders	
Rash ^c	1.3	2.3
Psychiatric Disorders		
Insomnia	0.8	2.0
*Combination of abdominal pain and	l abdominal pain up	pper

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2.5 mg daily. Two patients who received BONIVA once monthly experienced ocular inflammation, one was a case of uveitis and the other scleritis.

Laboratory Test Findings: In 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 bisphosphonate treatment, a decrease in total alkaline phosphatase levels was seen in the active treatment groups compared to placebo. There was no difference compared with placebo for laboratory abnormalities indicative of hepatic or renal dysfunction, hypocalcemia, or hypophosphatemia. Smilarly, no change were noted for the 150 mg once-monthly administration in the 1-year study.

were noted for the 15 mg once-monmly administration in me 1-year study. **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, esophaglifis, gastritis, or ulcer. Milk or antacids should be given to bind BONIVIA. 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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