## Access to HPV Vaccine May Hit Funding Barriers

## BY HEIDI SPLETE Senior Writer

WASHINGTON — The challenge of paying for vaccinations has become even greater now the human papillomavirus vaccine is on the immunization schedule.

At a meeting of the National Vaccine Advisory Committee, representatives from several organizations reported that there isn't enough money to go around and that states will have to make tough choices about funding for the HPV vaccine, which is scheduled to become a standard immunization for 11- to 12-year-old girls.

The evidence used by the Advisory Committee on Immunization Practices to make vaccine recommendations includes economic factors as part of the public health perspective, said Dr. Lance Rodewald, director of the immunization services division at the Centers for Disease Control and Prevention.

But the price of a vaccine cannot be a consideration for resolutions made by the Vaccines for Children (VFC) program. The key consideration in a VFC resolution simply is whether the vaccine is recommended for VFC-eligible children, Dr. Rodewald said.

Consequently, an ACIP recommendation raises the possibility of disparity, with VFC-eligible children receiving a vaccine because it is paid for, and children who have private insurance not receiving the

<b>FLOMAX</b> ® TAMSULOSIN HCI <sup>CAPSULES 0.4 MG</sup>
BRIEF SUMMARY OF PRESCRIBING INFORMATION

INDICATIONS AND USAGE: FLOMAX® (tamsulosin HCI) capsules are indicated for the treatment of the signs and symptoms of benign prostatic hyperplasia (BPH). FLOMAX capsules are not indicated for the treatment

CONTRAINDICATIONS: FLOMAX (tamsulosin HCI) capsules are contraindicated in patients known to be hypersensitive to tamsulosin HCI or any component of FLOMAX capsules.

WARNINGS: The signs and symptoms of orthostasis (possitural hypotension, dizziness and vertigo) were detected more frequently in FLOMAX (tamsulosin HCI) capsule treated patients than in placebo recipients. As with other alpha-adrenergic blocking agents there is a potential risk of syncope (see **ADVERSE REACTIONS**). Patients beginning treatment with FLOMAX capsules should be cautioned to avoid situations where injury could result should syncope occur.

Rarely (probably less than one in fifty thousand patients), tamsulosin, like other alpha, antagonists, has b associated with priapism (persistent painful penile erection unrelated to sexual activity). Because this condition ead to permanent impotence if not properly treated, patients must be advised about the seriousness of condition (see **PRECAUTIONS**, Information for Patients).

Lead to permanent impotence if not properly treated, patients must be advised about the seriousness of the condition (see PRECAUTIONS: Information for Patients).
PRECAUTIONS: General: 1. Carcinoma of the prostate: Carcinoma of the prostate and BPH cause many of the same symptoms. These two diseases frequently co-exist. Patients should be evaluated prior to the start of FLOMAX (tamsulosin HCI) capsules therapy to rule out the presence of carcinoma of the prostate.
2. *Intraoperative Flogpy Iris Syndrome*: Intraoperative Flogpy Iris Syndrome (IFIS) has been observed during cataract surgery in some patients treated with alpha-1 blocker had been stopped prior to surgery. In most of these cases, the alpha-1 blocker had been stopped recently prior to surgery (2 to 14 days), but in a few cases, IFIS vas reported after the patient had been of the alpha-1 blocker for a longer period (5 weeks to 9 months). IFIS is a variant of small pupil syndrome and is characterized by the combination of a flaccid iris that billows in response to intraoperative ringsiton currents, progressive intraoperative discide substances. The benefit of stopping alpha-1 blocker therapy prior to cataract surgery has not been established.
3. *Sulfa Allergy:* In patients with sulfa allergy, caution is warranted when administering FLOMAX (a Drug-Drug Interactions. The patients with sulfa allergy, caution is warranted when administering FLOMAX capsules and other alpha-adrenergic blocking agents have not been determined. However, interactions may be expected and FLOMAX capsules should ND te used in combination with other alpha-adrenergic blocking agents. The pharmacokinetic interaction should on the durand with other alpha-adrenergic blocking agents.
The pharmacokinetic interaction between cimetidine and FLOMAX capsules was investigated. The results indicate significant changes in tarword or durantion with other alpha-adrenergic blocking agents.
The pharmacokinetic interaction between cimetidine and FLOMAX capsules

FLOMAX capsules. Information for Patients: Patients should be told about the possible occurrence of symptoms related to postural hypotension such as dizziness when taking FLOMAX capsules, and they should be cautioned about driving, operating machinery or performing hazardous tasks. Patients should be advised not to crush, chew or open the FLOMAX capsules. Patients should be advised about the possibility of priapism as a result of treatment with FLOMAX capsules and other similar medications. Patients should be informed that this reaction is extremely rare, but if not brought to immediate medical attention, can lead to permanent erectile dysfunction (impotence). Laboratory Tests: No laboratory test interactions with FLOMAX capsules are forware.

immediate medical attention, can lead to permanent erectile dysfunction (impotence). Laboratory Tests: No laboratory test interactions with FLOMAX capsules are known. Treatment with FLOMAX capsules for up to 12 months had no significant effect on prostate-specific antigen (PSA). Pregnancy: Teratogenic Effects, *Pregnancy Category B*. Administration of tamsulosin HCI to pregnant female rats at dose levels up to 300 mg/kg/day (approximately 50 times the human therapeutic AUC exposure) revealed no evidence of harm to the fetus. Administration of tamsulosin HCI to pregnant rabbits at dose levels up to 50 mg/kg/day produced no evidence of fetal harm. FLOMAX capsules are not indicated for use in women. Geriatric Use: Of the total number of subjects (1,783) in clinical studies of tamsulosin, 36% were 65 years of age and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and the other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Nursing Mothers: FLOMAX capsules are not indicated for use in women.

Pediatric Use: FLOMAX capsules are not indicated for use in pediatric populations

**Nursing Mothers:** HLUMAX capsules are not indicated for use in women. **Pediatric Use:** FLOMAX capsules are not indicated for use in pediatric populations. **Carcinogenesis, Mutagenesis, and Impairment of Fertility:** Rats administered doses up to 43 mg/kg/day in males and 52 mg/kg/day in females had no increases in tumor incidence with the exception of a modest increase in the frequency of mammary gland fibroadenomas in female rats receiving doses ≥ 5.4 mg/kg (P<0.015). The highest doses of tamsulosin HCI evaluated in the rat carcinogenicity study produced systemic exposures (AUC) in rats 3 times the exposures in men receiving the maximum therapeutic dose of 0.8 mg/kg/day. Mice were administered doses up to 127 mg/kg/day in males and 158 mg/kg/day in temales. There were no significant tumor findings in male mice. Female mice treated for 2 years with the two highest doses of 45 and 158 mg/kg/day had statistically significant increases in the incidence of mammary gland fibroadenomas (P<0.0001) and adenocarcinomas (P<0.0075). The highest dose levels of tamsulosin HCI evaluated in the mice carcinogenicity study produced systemic exposures (AUC) in mice 8 times the exposures in men receiving the maximum therapeutic dose of 0.8 mg/day. The increased incidences of mammary gland neoplasms in female rats and mice were considered secondary to tamsulosin HCI induced hyperprolactinemia. It is not known if FLOMAX capsules elevate prolactin in humans. The relevane for human risk of the findings of prolactin-mediated endocrine tumors in rodents is not known. Tamsulosin HCI produced no evidence of mutagenic potential *in vitro* in the Ames reverse mutation test, mouse hymphoma thrymidine kinase assay. unscheduled DNA repair synthesis assay, and chromosomal aberration assays Studies in rats revealed significantly reduced fertility in male rats considered to be an effect of the compound on the vaginal plug formation possibly due to changes of seme content or impairment of ejaculation. The effects on fertility

not been evaluated. Studies in female rats revealed significant reductions in fertility after single or multiple dosing with 300 mg/kg/day of the R-isomer or racemic mixture of tamsulosin HCI, respectively. In female rats, the reductions in fertility after single doses were considered to be associated with impairments in fertilization. Multiple dosing with 10 or 100 mg/kg/day of the racemic mixture of tamsulosin HCI, respectively. In female rats, the reductions about the single doses were considered to be associated with impairments in fertilization. Multiple dosing with 10 or 100 mg/kg/day of the racemic mixture did not significantly after fertilization. Multiple dosing short-term U.S. and European placebo-controlled clinical trials in which daily doses of 0.1 to 0.8 mg FLOMAX (tamsulosin HCI) capsules were used. These studies evaluated safety in 1783 patients treated with FLOMAX capsules and 786 patients administered placebo. Table 3 summarizes the treatment-emergent adverse events that occurred in ≥2% of patients receiving either FLOMAX capsules 0.4 mg, or 0.8 mg and at an incidence numerically higher than that in the placebo group during two 13-week U.S. trials (US92-03A and US93-01) conducted in 1487 men.

BODY SYSTEM/ Adverse event	FLOMAX CAPSULES GROUPS		PLACEBO
	0.4 mg n=502	0.8 mg n=492	n=493
BODY AS WHOLE			
Headache	97 (19.3%)	104 (21.1%)	99 (20.1%)
Infection <sup>2</sup>	45 (9.0%)	53 (10.8%)	37 (7.5%)
Asthenia	39 (7.8%)	42 (8.5%)	27 (5.5%)
Back pain	35 (7.0%)	41 (8.3%)	27 (5.5%)
Chest pain	20 (4.0%)	20 (4.1%)	18 (3.7%)
NERVOUS SYSTEM			
Dizziness	75 (14.9%)	84 (17.1%)	50 (10.1%)
Somnolence	15 (3.0%)	21 (4.3%)	8 (1.6%)
Insomnia	12 (2.4%)	7 (1.4%)	3 (0.6%)
Libido Decreased	5 (1.0%)	10 (2.0%)	6 (1.2%)
RESPIRATORY SYSTEM			
Rhinitis <sup>3</sup>	66 (13.1%)	88 (17.9%)	41 (8.3%)
Pharyngitis	29 (5.8%)	25 (5.1%)	23 (4.7%)
Cough Increased	17 (3.4%)	22 (4.5%)	12 (2.4%)
Sinusitis	11 (2.2%)	18 (3.7%)	8 (1.6%)
DIGESTIVE SYSTEM			
Diarrhea	31 (6.2%)	21 (4.3%)	22 (4.5%)
Nausea	13 (2.6%)	19 (3.9%)	16 (3.2%)
iooth Disorder	6 (1.2%)	10 (2.0%)	7 (1.4%)
JROGENITAL SYSTEM			
Abnormal Ejaculation	42 (8.4%)	89 (18.1%)	1 (0.2%)
SPECIAL SENSES			
Burred vision	1 (0.2%)	10 (2.0%)	2 (0.4%)

<sup>1</sup>A treatment-emergent adverse event was defined as any event satisfying one of the following criteria: • The adverse event occurred for the first time after initial dosing with double-blind study medication. • The adverse event was present prior to or at the time of initial dosing with double-blind study medication and subsequently increased in severity during double-blind treatment; or • The adverse event was present prior to or at the time of initial dosing with double-blind study medication, disappeared completely, and then reappeared during double-blind treatment.

<sup>2</sup>Coding preferred terms also include cold, common cold, head cold, flu, and flu-like symptoms.
<sup>3</sup>Coding preferred terms also include nasal congestion, stuffy nose, runny nose, sinus congestion, and hay fever.

<sup>3</sup>Coding preferred terms also include nasal congestion, stuffy nose, runny nose, runs' congestion, and hay fever. Signs and Symptoms of Orthostasis: In the two U.S. studies, symptomatic postural hypotension was reported by 0.2% of patients (1 of 502) in the 0.4 mg group, 0.4% of patients (2 of 492) in the 0.4 mg group, 0.4% of patients (2 of 492) in the 0.8 mg group and 0.6% of patients (2 of 492) in the 0.4 mg group, 0.4% of patients (2 of 492) in the 0.8 mg group, 0.4% of patients (3 of 493) in the placebo group. Dizeness was reported by 15% of patients (75 of 502) in the 0.4 mg group, 17% of patients (3 of 493) in the placebo group. Dizeness was reported by 15% of patients (75 of 502) in the 0.4 mg group, 17% of patients (3 of 493) in the placebo group. Dizeness was reported by 15% of patients (75 of 502) in the 0.8 mg group, and by 0.6% of patients (3 of 492) in the 0.4 mg group, 1% of patients (5 of 492) in the 0.8 mg group and b 0.6% of patients (3 of 493) in the placebo group. Divertion of the following criteria: (1) a decrease in systolic blood pressure e1 ≥ 20 mmHg upon standing from the supine position during the orthostatic tests; (2) a decrease in diastolic blood pressure ≥10 mmHg upon standing, with the standing diastolic blood pressure ≤65 mmHg during the orthostatic test; (3) an increase in pulse rate of ≥20 bm upon standing with a standing pulse rate ≥100 bpm during the orthostatic test; (4) an increase in presence of clinical symptoms (fantness, lightheadedeness/lightheadede, dizziness, spinning sensation, vertigo, or postural hypotension) upon standing during the orthostatic test.

presence of clinical symptoms (naminess, inglinicated), ut22ness, spinning Seriasulon, verigo, or postural hypotension) upon standing during the orthostatic test. Following the first dose of double-blind medication in Study 1, a positive orthostatic test result at 4 hours post-dose was observed in 7% of patients (37 of 498) who received FLOMAX capsules 0.4 mg once daily and at% (9 of 250) who received placebo. At 8 hours post-dose, a positive orthostatic test result at 4 hours observed for 6% of the patients (31 of 498) who received FLOMAX capsules 0.4 mg once daily and 4% (9 of 250) who received placebo. At 8 hours post-dose, a positive orthostatic test result was observed for 6% of the patients (31 of 498) who received FLOMAX capsules 0.4 mg once daily and 4% (9 of 250) who received placebo (Note: patients in the 0.8 mg group received 0.4 mg once daily group, 92 of these studies for 81 of the 502 patients (16%) in the FLOMAX capsules 0.4 mg once daily group, 92 of the 491 patients (19%) in the FLOMAX capsules 0.8 mg once daily group and 54 of the 493 patients (11%) in the placebo group. Because orthostasis was detected more frequently in FLOMAX capsule-treated patients than in placebo recipients, there is a potential risk of syncope (see WANINGS). *Abnormal Ejaculation:* Abnormal ejaculation includes ejaculation failure, ejaculation disorder, retrograde ejaculation and ejaculation and was dose-related in the U.S. studies. Withdrawal from these clinical studies of FLOMAX capsules because of abnormal ejaculation was also dose-dependent with 8 of 492 patients (15%) in the 0.8 mg group, and no patients in the 0.4 mg or placebo groups discontinuing treatment due to abnormal ejaculation.

And no patients in the 0.4 mg or placebo groups discontinuing treatment 2 patients (100 mg and patients) in the 0.4 mg or placebo groups discontinuing treatment 2 patients (100 mg and patients) in the 0.4 mg or placebo groups discontinuing treatment 2 patients (100 mg and patients) in the 0.4 mg or placebo groups discontinuing treatment 2 patients (100 mg and patients) in the 0.4 mg or placebo groups discontinuing treatment 2 patients (100 mg and patients) in the 0.4 mg and 100 m

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**DUSAGE AND DOMINISTRATION:** FLOMAX (tamsulosin HCI) capsules 0.4 mg once daily is recommended as the dose for the treatment of the signs and symptoms of BPH. It should be administered approximately one-half hour following the same meal each day. For those patients who fail to respond to the 0.4 mg dose after two to four weeks of dosing, the dose of FLOMAX capsules administration is discontinued or interrupted for several days at either the 0.4 mg or 0.8 mg dose, therapy should be started again with the 0.4 mg once daily dose.

Vality duse. Keep FLOMAX capsules and all medicines out of reach of children. Patients should be reminded to read and follow the "Patients' Instructions for Use," which should be dispensed with the product.



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same vaccine because it is not paid for.

Neither state-appropriated funds nor funds from Section 317 (a discretionary program within the Public Health Service Act that covers individuals whose insurance doesn't cover vaccines or who are not eligible for VFC funds) has kept up with VFC's need-based funding, Dr. Rodewald said

What happens when the need outstrips the resources?

The programs are put in a tough spot," Dr. Rodewald said. "The states will need to prioritize vaccinations, and we are looking to other groups to help resolve the financing dilemma."

Dr. Poki Stewart Namkung, president of the National Association of County & City Health Officials shared responses to

## Insured

individuals are covered in theory, but there are concerns that as new, costly vaccines become available, more plans will not cover them all.

a survey that solicited their members' concerns about implementing HPV vaccines. Key issues raised by the local health departments included how to vaccinate girls and young women who fall outside the bounds of pub-

lic assistance given the limitations of the VFC program and Section 317.

States will receive VFC funding, but do not know what other funds to expect, said Claire Hannan, executive director of the Association of Immunization Managers (AIM). AIM members are involved in every aspect of vaccination, including distribution, purchasing, and provider and consumer education.

Uninsured individuals aged 9-18 years will be covered by VFC, and limited coverage for uninsured females aged 9-26 years may be available through Merck & Co.'s vaccine assistance program.

Insured individuals are covered in theory, but AIM members are concerned that as new, expensive vaccines are added to the vaccine schedule, more insurance plans will not cover all the vaccines, Ms. Hannan said.

"Programs are making decisions about how to use limited funds, and they are making different decisions," she said. The result is a patchwork of vaccination coverage.

Possible solutions to the problem of patchwork coverage could include enlisting the help of ob.gyns. and dermatologists, since they treat children and adolescents and could enroll their eligible younger patients in the VFC program, Ms. Hannan said.

No one knows how the financing for HPV vaccines will play out until the vaccine actually is in use, but vaccine financing is dynamic because both the payments and the individual insurance plans change annually, said Dr. Gregory Wallace of the CDC's National Immunization Program. "Difficult decisions have to be made with competing priorities every year." 

FL-11490