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## HPV Vaccine Cost, Funding Challenges Surface

BY PATRICE WENDLING

Chicago Bureau

KANSAS CITY, Mo. — In the rush to mandate the human papillomavirus vaccine, several implementation issues, not the least of which is cost, remain unresolved. Dr. Howard Backer said at the National Immunization Conference sponsored by the Centers for Disease Control and Prevention.

Private providers can expect to pay be-

tween \$10,000 and \$15,000 in vaccine inventory per month when adding in the human papillomavirus (HPV) vaccine approved for use in girls and women aged 9-26 years. For a multiprovider practice with five to six physicians who provide childhood vaccines, inventory costs could add up to about \$100,000 a month.

"A lot of them aren't willing to put out that much money up front when it may take months before they're reimbursed,' said Dr. Backer, immunization branch chief, California Department of Health Services in Sacramento, and chair of the Association of Immunization Managers.

The American Medical Association and American Academy of Pediatrics are working on ways of addressing this. But for now, it means a lot of providers aren't jumping into HPV vaccinations. "They thought it was a good idea until they looked at what it really meant to buy that much vaccine for their practice[s]," he said.

In addition, reimbursement for vaccine

PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

administration costs, which include staff time, storage equipment, injection supplies, and possibly even insurance against vaccine loss, is woefully inadequate. It is often about \$5-\$10 per administered dose, and probably should be at least 20%-25% above vaccine cost, which is approximately \$120 per dose, with three doses required over 6 months.

Private providers can sign up with the federal Vaccines for Children (VFC) program, which allows clinicians to receive free vaccines for qualified individuals up to age 18. But this leaves two problem populations-women aged 19-26 years, and the underinsured, whose insurance may not cover vaccinations.

Dr. Backer presented a recent Association for Immunization Managers survey of 50 program managers that shows 72% of states provide HPV vaccine to VFC-eligible children. About half (53%) of the program managers use Medicaid funds to cover vaccinations for women aged 19-26 years,



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whereas very few cover the underinsured in the private (22%) or public (30%) settings.

"It's a challenge to fund this vaccine across the spectrum of girls and women for whom it is recommended," he said in an interview. "The numbers are increasing as the states add funding or pass insurance mandates, but I doubt it will reach 100% coverage for 9- to 26-year-old females."

Many private insurance companies have not yet decided if they will cover the vaccine, and some states have been hesitant to commit beyond the 11- to 12-year-old age group until they receive the necessary state appropriations and are reassured they will have enough vaccine for the VFC population. Still, a number of new nontraditional vaccine providers such as STD clinics, family planning offices, and pharmacies are expressing interest in the vaccine. Although enthusiastic, many have a poor understanding of vaccine implementation issues and lack the necessary office infrastructure, Dr. Backer said.

Moreover, some of the new partners, such as ob.gyns., want to provide only the HPV vaccine. Under VFC rules, providers are supposed to offer all vaccines for which the patient is eligible.

It is unclear whether an exemption will be made for these new partners. Currently, permission is granted on an individual basis by the CDC to states that want to obtain exemptions or add new rules to the VFC program requirements.

Finally, Dr. Backer questioned whether the emergence of nontraditional HPV vaccine providers would jeopardize the medical home model, upon which the VFC program was based, if patients opt to bypass their physician's office in favor of their local pharmacy.

MIRENA® (levonorgestrel-releasing intrauterine system)

PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES

RX only

INDICATIONS AND USAGE: MIRENA® is indicated for intrauterine contraception for up to 5 years. Thereafter, if continued contraception is desired, the system should be replaced. RECOMMENDED PATIENT PROFILE: MIRENA® is recommended for women who have had at least one child, are in a stable, mutually monogamous relationship, have no history of pelvic inflammatory disease, and have no history of ectopic pregnancy.

CONTRAINDICATIONS: MIRENA® insertion is contraindicated when one or more of the following conditions exist. 1. Pregnancy or suspicion of pregnancy. 2. Congenital or acquired uterine anomaly including fibroids if they disbort the uterine cavity. 3. Acute pelvic inflammatory disease or a history of pelvic inflammatory disease unless there has been a subsequent intrauterine pregnancy. 4. Postpartum endometritis or infected abortion in the past 3 months. 5. Known or suspected uterine or cervical neoplasia or unresolved, abnormal Pap smear. 6. Genital bleeding of unknown etiology. 7. Untreated acute cervicitis or vagnitist, including bacterial vaginosis or other lower genital tract infections until infection is controlled. 8. Acute liver disease or liver tumor (benign or malignant). 9. Woman or her partner has multiple sexual partners. 10. Conditions associated with increased susceptibility to infections with micro-organisms. Such conditions include, but are not limited to, butkernia, acquired immune deficiency syndrome (AIDS), and I.V. drug abuse. 11. Gentila attainomycosis (See WARNINGS) 1.2. Apreviously inserted IUD that has not been removed. 13. Hypersensitivity to any component of this product. 14. Known or suspected carcinoma of the breast. 15. History of ectopic pregnancy: In large clinical trials of MIRENA®, half of all pregnancies detected during the studies were

tumor (Besign or malignant). 9. Woman or hie parther has multiple sexual partners. 10. Conditions associated with increased susceptibility in unfections with micro-organisms. Such conditions include, his are not limited in Justemia, acquired immune deficiency syndrome (AIDS), and I.V. Grug abuse. 11. Genital actions/costs (See WARNINGS) 12. A previously inserted ILIU or has not been removed. 13. Hypersepssitivity to any component of this product. 14. Known or suspected carcinoma of the breast. 15. Hothory of eclopic pregnancy.

WARNINGS 1. Edopic Pregnancy: In large clinical triads of MRIERAN\* and perpranneds selected during the studies were ectopic. The per-year ancidence of ecopic pregnancy in the clinical triads was approximately? He ctopic impagnancy per 1000 users achievement on using any contraception. Clinical triads of MRIERAN\* and the ecopic pregnancy or conditions that increases the risk of ecopic pregnancy. When when chooses MRIERAN\* must be warred about the risks of eclopic pregnancy. They should be terrored ecopic pregnancy, Women should also be informed that the ecopic pregnancy, whomen should also be informed that ecopic pregnancy, whomen should also be informed that ecopic pregnancy, whomen should also be informed that an intractine pregnancy with MRIERAN\*, in eclotiving should be considered, a) Spiric abortion in patients becoming pregnant MRIERAN\* in the contraction of the pregnancy in the world of the pregnancy in the contractine pregnancy with MRIERAN\*, in the contraction of the members of the members of the pregnancy in the

AGE GROUP						
No Birth Control Method/Term	4.7	5.4	4.8	6.3	11.7	20.6
No Birth Control Method/AB	2.1	2.0	1.6	1.9	2.8	5.3
IUD	0.2	0.3	0.2	0.1	0.3	0.6
Periodic Abstinence	1.4	1.3	0.7	1.0	1.0	1.9
Withdrawal	0.9	1.7	0.9	1.3	0.8	1.5
Condom	0.6	1.2	0.6	0.9	0.5	1.0
Diaphragm/Cap	0.6	1.1	0.6	0.9	1.6	3.1
Sponge	0.8	1.5	0.8	1.1	2.2	4.1
Spermicides	1.6	1.9	1.4	1.9	1.5	2.7
Oral Contraceptives	0.8	1.3	1.1	1.8	1.0	1.9
Implants/Injectables	0.2	0.6	0.5	8.0	0.5	0.6
Tubal Sterilization	1.3	1.2	1.1	1.1	1.2	1.3
Vasectomy	0.1	0.1	0.1	0.1	0.1	0.2

Harlap S. et al., Preventing Pregnancy, protecting health: a new look at birth control choices in the US. The Alan Guttmacher Institute 1991: 1-129

(levonorgestrel-releasing intrauterine system)

Mirena

PRECAUTIONS

PATIENTS SNOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

1. PATIENT COUNSELING: Prior to insertion, the physician, nurse, or other trained health professional must provide the patient with the Patient Package Insert. The galactic stoud be given the opportunity for read the information and discass fully counseling of the user prior to insertion regarding the expected bleeding patient. The possible international variation in changes in bleeding and the eliotopy of the changes may have an effect on the frequency of removal due to bleeding problems and amenorhea. The patient should be told that some bleeding such as irregular or prolinged bleeding adoption, and/or cramps may occur during the first few weeks after insertion. If her symptoms continue or are severe she tought in the patient of the patient should be provider. She should be internated also be given instructions on what other symptoms require her to call her health care provider. She should be instructed on how to check after her menstrain period to make certain that the read still protrude from the receive and catalisation and to pull on the thread and designade MIRENAT's she should be informed that there is no contraceptive protection in fillwalls' is displaced or expelled. FVALUATION AND CLINICAL CONSIDERATIONS.

3. A complete medical and social history, including that of the pathers, should be chained to determine conditions that might influence the selection at 100 for contraceptive protection of Mirenative in the selection of an 100 for contraceptive protection of Mirenative in the selection of the pathers should be clustered to the contraceptive protection of Mirenative in the selection of the pathers should be contraceptive the selection and the pathers of the pathers should be contraceptive to the pathers of the pathers should be contraceptive protection and the pathers of the pathers should be contraceptive to the pathers should be contraceptive to the pa

blood pressuire; \* severe arterial diseases such as stroke or myocardial infarction. 4. Glucose Tolerance: Levonorgestrel may affect glucose tolerance, and the blood glucose concentration should be monitored in diabetic users of MIRENA\*. 

DRUG INTERACTIONS: The effect of hormonal contraceptives may be impaired by drugs which induce liver enzymes. The influence of these drugs on the contraceptive efficacy of MIRENA\* has not been studied. CARCINGGENESIS: Long-tensitudies in animals to assess the carcinogenic potential of levonorgestrel releasing intrauterine system have not been performed. See "WARNINGS" section. PREGNANCY: Pregnancy Category X. See "WARNINGS" section. NURSING MOTHERS. Levonorgestrel has been identified in small quantities in the breast milk of leacting women using MIRENA\* in a study of 14 breastfeeding women using a MIRENA\* prototype during lactation, mean infant serum levels of levonorgestrel were approximately 7% of maternal serum levels. Hormonal contraceptives are not recommended as the contraceptive method of first choice during lactation. PEDIATRIC USE: Satety and efficacy of MIRENA\* have been established in women of reproductive age. Use of this product before menarche is not indicated. (See RECOMMENDED PATIENT PROFILE) GERIARTION (USE: MIRENA\* has not been studied in women over age 65 and is not currently approved for use in this population. INFOR-MATION FOR THE PATIENT: See Patient Labeling. Patients should also be advised that the prescribing information is available to them at their request. It is recommended that potential users be fully informed about the risks and benefits associated with the use of MIRENA\*, with other forms of contraception, and with no contraception at all. Return to fertility: About 20% of women wishing to become pregnant conceived within 12 months after removal of MIRENA\* ADVERSE REACTIONS: The most serious adverse reactions associated with the use of MIRENA\* capacity infection, Leukorrhea, Nausae, Headache, Nevousness, Vagainits, Opymenorrhea, Back pink Veigi

STORAGE AND HANDLING: Store at 25°C (77°F); with excursions permitted between 15°-30°C (59-86°F) [See USI

Controlled Room Temperature]

DIRECTIONS FOR USE: NOTE: Health care providers are advised to become thoroughly familiar with the insertior instructions before attempting insertion of MIRENA\*.

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