## Medicare May Encourage Electronic Prescriptions

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Senior Writer

edicare officials have proposed new uniform standards for elec-Ltronic prescribing that will govern transactions between prescribers and dispensers of prescriptions.

Under the proposal, the standards would take effect in January, to coincide with the beginning of the new Medicare Part D prescription drug benefit. The proposed standards would apply to transactions between prescribers and dispensers of new prescriptions, refill requests, prescription changes, and cancellation requests.

In addition, the standards would govern eligibility and benefits inquiries between prescribers and drug plans and Part D

The Health and Human Services Department will accept comments on the proposal through April 5. Additional electronic prescribing standards will be developed by 2008.

Electronic prescribing is voluntary for physicians, but the aim of the standards is to make it more attractive for physicians to do so. "These proposed e-prescription rules would set standards to help Medicare, physicians, and pharmacies take advantage of new technology that can improve the health care of seniors and persons with disabilities," HHS Secretary Mike Leavitt said in a statement.

Table 1: Summary of Solicited Events Observed within 10 Days after Each Dose for Vaccine and Placebo Recipients; Healthy Children 60-71 Months of Age

For the cohort of 128 children who received FluMist® (Influenza Virus Vaccine Live, Intranasal) across three consecutive years, rates of solicited adverse events were not significantly increased when compared to placebo recipients.

years, rates of solicited adverse events were not significantly increased when compared to placeto recipients. Medically Attended Events in Children and Adolescents: A large randomized, double-blind, placebo-controlled trial in healthy children 1 through 17 years of age was conducted at 31 clinics in the Northern California Kaiser-Permanente Health Maintenance Organization (HMO) to assess the rate of medically attended events (MAEs) within 42 days of vaccination. Participants were randomized 2.1 (vaccine), a total of 6657 evaluable children 5-17 years of age were enrolled, including 3244 boys and 3413 girls. Of these 6657 children, 2606 were 5-8 years of age and 4051 were 9-17 years of age. Dose Two for children less than nine years of age was to be administered 28 to 42 days after Dose One.

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Data regarding MAEs were obtained from the Kaiser-Permanente computerized health care utilization databases for hospitalizations, emergency department visits and clinical visits. MAEs were analyzed individually and within four pre-specified grouped diagnoses: acute respiratory tract events, systemic bacterial infections, acute gastrointestinal tract events, and rare events potentially related to influenza. For these four pre-specified grouped diagnoses, no significant increase in risk for FluMist recipients was seen in the combined analyses across all utilization settings, doses, and age groups. Selected respiratory tract elinesses of special interest (pneumonia, bronchitis, bronchiolitis, and croup) were included in acute respiratory tract events and were not associated with increased risk for FluMist recipients in any protocol-specified analysis. No systemic bacterial infection occurred. In FluMist recipients, an increased risk was not observed for rare events that have been reported with naturally occurring influenza vinsi infection, including seizures, febrile seizures, and epilepsy. No cases of encephalitis, acute (diopathic polyneuritis (Gailiain-Barré syndrome), Reye syndrome, or myocarditis (influenza-associated are disorders) were reported in this study. In this study, in individual MAEs associated with increased risk, a biological association with FluMist exists for seven: astma, bronchitis, conjunctivitis, cough, viral syndrome, otitis media, and wheezing/shortens of breath. However, in the same study, a statistically significant increase in asthma or reactive airways disease was observed for children 12-59 months of age following Dose One (Relative Risk 3.53, 90% ct. 1.1, 15.7). As a result of livis finding, HuMist is not indicated for children <50 months of age solvents in the placebo-controlled Adult Effectiveness Study, the rate of solicited averse events in the subset o

One of the most successful strategies for getting physicians to adopt electronic prescribing in their offices is to provide ongoing reimbursement, said Jonathan Teich, M.D., chief medical officer at Healthvision, an Internet health care company, who chaired the Electronic Prescribing Project of the eHealth Initiative.

Over the last few years, there's been a lot of work in both the public and private sectors examining what drives adoption of eprescribing. What they have found is that there is money to be saved through the use of the technology, but it's usually saved by the payer, not by the physician, Dr. Teich

But payers and others can provide incentives to physicians by supplying the technology up front, giving increased reimbursement per visit for the use of electronic prescribing, or incorporating electronic prescribing into a pay for performance program, he said.

A group of health plans in Massachusetts has joined forces to cover the costs of electronic prescribing for physicians interested integrating the technology into their practices.

Blue Cross Blue Shield of Massachusetts, Tufts Health Plan, and the Neighborhood Health Plan have partnered with the technology vendor ZixCorp to provide physicians in Massachusetts with the hardware and software needed for electronic prescribing.

The project is called the eRx Collaborative, and from October 2003 through the end of 2004, nearly 2,700 physicians and their clinical staff members signed up to participate in the project. At the end of last year, more than 1,500 doctors had incorporated the technology into their practices.

The collaborative plans to cover the costs of the e-prescribing technology through the end of this year.

The project uses ZixCorp's PocketScript e-prescribing system. This technology allows physicians to create new and refill prescriptions electronically and allows for real-time access to a patient's prescription history, as well as formulary and eligibility information. Physicians can access the program either through a secure Web site or a handheld device.

This year, physicians will also be able to choose to use DrFirst Inc.'s Rcopia electronic prescription management program.

Facilitating the adoption of electronic prescribing is a way to try to curb both high pharmacy costs and medication errors, said Robert Mandel, M.D., vice president of eHealth for Blue Cross Blue Shield of Massachusetts.

And electronic prescribing seems like a good solution because it would easier to incorporate into the physician's workflow than an electronic health record, Dr. Mandel said. But he said he hopes that physicians will choose to move to a fully functional electronic health record in the

We do believe that this is a transitional technology," he said. The project, which is the largest of its kind, could be a model for how to drive adoption of this technology, Dr. Mandel said.



2004-2005 Formula FOR NASAL ADMINISTRATION ONLY

Rx only Brief summary of Prescribing Information INDICATIONS AND USAGE

INDICATIONS AND SAGE
FINDIST is indicated for active immunization for the prevention of disease caused by influenza A and B viruses in healthy children and adolescents, 5-17 years of age, and healthy adults, 18-49 years of age, and indicated for immunization of individuals less than 5 years of age, or 50 years of age and older, or for therapy of influenza, nor will it protect against infections and illness caused by infectious agents other than influenza. A or B viruses.

Hullist is not inducate no incompanies of influenza, nor will it protect against infections and illness caused by infectious agents one or influenza, nor will it protect against infections and illness caused by infectious agents one or influenza nor will it protect against infections and illness caused by infectious agents of age products, should not receive FluMist.

Individuals with a history of hypersensitivity, especially anaphylactic reactions, to any component of FluMist, including eggs or egg products, should not receive FluMist.

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FluMist should not be administered to individuals who have a history of Guillain-Barré syndrome.

As with other live virus vaccines, FluMist should not be administered to individuals with known or suspected immune deficiency diseases such as combined immunodeficiency, againmaglobulineria, and thymic abnormalities and conditions such as human immunodeficiency virus infection, malignancy, leukemia, or lymphoma. FluMist is also contraindicated in patients who may be immunosuppressed or have altered or compromised immune status as a consequence of treatment with systemic corticosteroids, alkylating drugs, antimetabolities, radiation, or other immunosuppressive therapies.

WARNINGS

WARNINGS

The safety of FluMist in individuals with asthma or reactive airways disease has not been established. In a large safety study in children 1-17 years of age, children -5 years of age who received FluMist were found to have an increased rate of asthma within 42 days of vaccination when compared to placebo recipients (see ADVERSE REACTIONS). FluMist should not be administered to individuals with a history of asthma or reactive airways disease.

The safety of FluMist in individuals with underlying medical conditions that may predispose them to severe disease following wild-type influenza infection has not been established. FluMist is not indicated for these individuals. High-risk individuals include, but are not limited to, adults and children with cronic disorders of the cardiovascular and pulmoranty systems, including asthma; pregnant women, adults and children with or required regular medical follow-up or hospitalization during the preceding year because of chronic metabolic diseases (including diabetes), reral dysfunction, or hemoglobinopities; and adults and children with congenital or acquired immunosuppression caused by underlying disease or immunosuppressive therapy (see CONTRAINDICATIONS). Intranuscularly administrated indurence vaccines are available to immunize high-risk individuals.

with any vaccine, FluMist may not protect 100% of individuals receiving the vaccine.

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\*\*PRECAUTIONS\*\*

General: CARE IS TO BE TAKEN BY THE HEALTH CARE PROVIDER FOR THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.

Prior to administration of FluMist, individuals or their parent/guardian should be asked about their current health status and heir personal medical history, including immune status, to determine the existence of any contraindications (see CONTRAINDICATIONS and WARNINGS) to immunization with FluMist recipients should avoid close contact (e.g., within the same household) with immunocompromised individuals for at least 21 days. EPINEPHRINE INJECTION (1:1000) OR COMPARABLE TREATMENT MUST BE READILY AVALIABLE IN THE EVENT OF AN ACUTE AVAPHYLACTIC REACTION FOLLOWING WACCINATION. The health care provider should ensure prevention of any allergic or other adverse reactions by reviewing the individual's history for possible sensitivity to influenza vaccine components, including eggs and egg products. Administration of FluMist should be postponed until after the acute phase (at least 72 hours) of febrile and/or respiratory illnesses.

Administration of FluMist should be postponed until after the acute phase (at least 72 hours) of febrile and/or respiratory illnesses. Information for Vaccine Recipients or Parents/Guardians: Vaccine recipients or their parents/guardians should be informed by the health care provider of the potential benefits and risks of FluMist, and the need for two doses for the first use of FluMist in 6-8 year olds. Due to the possible transmission of vaccine recipients or their parents/guardians should be advised to avoid close contact (e.g., within the same household) with immunocompromised individuals for at least 12 days. The vaccine recipient should be told for report any suspected adverse events to the physician or clinic where the vaccine was administered feee ADVERSE EVENT REPORTING). Drug Interactions: Children or adolescents who are receiving aspirin therapy or aspirin-containing therapy should not receive FluMist (see CONTRAINDICATIONS). FluMist should not be administered to persons on immunosuppressive therapy. The concurrent use of FluMist with artifivial compounds that are active against influenza A and/or B vituses has not been evaluated. However, based upon the potential for interference between such compounds and FluMist, it is advisable not to administer FluMist until 48 hours after the cessation of antilivial therapy and that antilivial agents not be administered until two weeks after administration of FluMist with ses medically indicated.

There are no data regarding co-administration of FluMist with other intranasal preparations, including steroids. Concurrent Administration with Other Vaccines: The safety and immunogenicity of FluMist when administered concurrently with other vaccines have not been determined. Therefore, FluMist should not be administered concurrently with other vaccines have not been determined. Therefore, FluMist should not be administered concurrently with other vaccines have not been determined. Therefore, FluMist should not be administered concurrently with other vaccines have not

Carcinogenesis, Mutagenesis, Impairment of Fertility: FluMist has not been evaluated for its carcinogenic or mutagenic potential or its potential to impair fertility.

potential or in governant o impair returns of Pregnancy (Category C): Animal reproduction studies have not been conducted with FluMist. It is also not known whether FluMist can cause fetal harm when administered to a pregnant woman or affect reproduction capacity. Therefore, FluMist should not be administered to pregnant women.

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Nursing Mothers: It is not known whether FluMist is excreted in human milk. Therefore, as some vinues are excreted in human milk and additionally, because of the possibility of shedding of vaccine virus and the close proximity of a nursing infant and mother, caution should be exercised if FluMist is administered to nursing mothers.

Pediatric Use: The safety of FluMist in infants and children -60 months of age has not been established.

Geriatric Use: Clinical studies with FluMist did not include sufficient numbers of adults age 65 years and older has not been established.

ADVERSE REACTIONS

Serious Adverse Events: Across all clinical trials, serious adverse events (SAEs) were monitored after vaccination for 42 days in children and for 28 days in adults. SAEs occurred at a similar rate (<1%) in FluMist and placebo recipients for both healthy children and healthy adults.

Overall, across the placebo-controlled trials in adults and children, the incidence of selected adverse reactions that may be complications of influenza (such as pneumonia, bronchildis, or central nervous system events) was similar in FluMist and placebo groups.

Adverse Events in Placebo-Controlled Trials: In all placebo-controlled studies, allantoic fluid from uninfected eggs was used as the placebo. In randomized, placebo-controlled trials, 4719 healthy children 5-17 years of age and 2664 healthy adults 18-49 years of age received Hubilst and 23257 healthy children and 1454 healthy adults received the placebo. In placebo-controlled clinical trials conducted in healthy populations, solicited adverse events and daily temperatures were collected ordary cards. These solicited events included runny nose/hasal congestion, sore throat, cough, irribability, headand-pc, chills, vomiting, muscle aches, and decreased activity and a feeling of tiredness/weakness.

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Solicited Adverse Events in Children: Table 1 shows an analysis of solicited events for the Pediatric Efficacy Study in the subset of healthy children 60-71 months of age. The largest absolute differences between FluMist and placebo after Dose One were observed in the incidences of headache and runny nose/nasal congestion. No differences were observed for few (1010°F cral), Following Dose flow, the largest absolute differences between FluMist and placebo were runny nose/nasal congestion and cough. There was no significant increase in influenza-like illness (ILI) as defined by the CDC in the FluMist group compared to the placebo group. CDC has defined CDC-ILI as having fever (temperature ≥100°F oral) plus either cough or sore throat on the same day or on consecutive days.

97.9% of placebo recipients.]

Other Adverse Events in Children and Adults: In addition to the solicited events, parents of subjects in the Pediatric Efficacy Irial also reported other adverse events that occurred during the course of the trial. Among healthy children age 60-71 months, the events that occurred in at least 1% of FluMist recipients and at a higher rate compared to placebo were: abdominal pain (3.7% FluMist vs 0% placebo), othis media (1.4% FluMist vs 0% placebo), accidental injury (2.3% FluMist vs 2.1% placebo), diarnhea (3.7% FluMist vs 1.1% placebo), following Dose Two. None of these differences were statistically significant. In addition to the solicited events, adults who participated in the Adult Effectiveness Study also reported other adverse events that occurred during the course of the clinical trial. For adults 18-49 years of age in the Adult Effectiveness Study, nasal congestion (9.2% FluMist vs 2.2% placebo), arministic 6.3% FluMist vs 2.1% placebo) and sinusitis (4.1% FluMist vs 2.2% placebo) were reported significantly more often by FluMist recipients compared to placebo recipients.

Adverse events reported post-licensure have included nausea, rash, hypersensitivity reactions (including anaphylaxis, facial edema, and urricaria). These events occurred at similar rates in FluMist versus placebo recipients in pre-licensure studies.

Oral lemp > 103°+ 0.0 0.0 0.0 Denotes statistically significant p-value "0.05; no adjustments for multiple comparisons; Fisher's exact method.

Number of evaluable subjects (those who returned diary cards). [97.9% of FluMist recipients and 97.9% of placebo recipients.]

was reported. Evidence of a causal relationship between influenza vaccines, including FluMist, has not been establishe ADVERSE EVENT REPORTING

Reporting by vaccine recipients or the parents/guardians of vaccinees and health care providers of all adverse events occurring after vaccine administration is encouraged. The U.S. Department of Health and Human Services (DHHS) has established a Vaccine Adverse Event Reporting System (VAERS) to accept all reports of suspected adverse events after the administration of any vaccine. The VAERS toll-free number is 1-800-822-7967. Reporting forms may also be obtaine at the FDA Web site at: http://www.vaers.org.

DOSAGE AND ADMINISTRATION FOR NASAL USE ONLY, DO NOT ADMINISTER PARENTERALLY.

FluMist® should be administered according to the following schedule:		
Age Group	Vaccination Status	Dosage Schedule
Children age 5 years through 8 years	Not previously vaccinated with FluMist	2 doses (0.5 mL each, 60 days apart ± 14 days) for initial season
Children age 5 years through 8 years	Previously vaccinated with FluMist	1 dose (0.5 mL) per season
Children and Adults age 9 through 49 years	Not applicable	1 dose (0.5 mL) per season

For healthy children age 5 years through 8 years who have not previously received FluMist vaccine, the recommended dosage schedule for nasal administration is one 0.5 mL dose followed by a second 0.5 mL dose given at least 6 weeks later. Only limited data are available on the degree of protection in children who receive one dose. For all other healthy individuals, including children age 5-8 years who have previously received at least one dose of FluMist, the recommended schedule is one dose.

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Fluvins should be administered prior to exposure to influenza. The peak of influenza activity is variable from year to year but generally occurs in the U.S. between late December and early March. Because the duration of protection induced by Fluvinst is not known and yearly antigenic variation in the influenza strains is possible, annual revaccination may increase the likelihood of protection.

Based on Fluvinst Prescribing Information dated September 2004.

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