# Physicians, Staff Are Urged to Get Flu Vaccine

#### BY DENISE NAPOLI Associate Editor

WASHINGTON — It is "unconscionable for health care workers who do not have a medical contraindication to not receive the flu vaccine," Dr. Julie L. Gerberding, director of the Centers for Disease Control and Prevention, said at a press briefing presented by the National Foundation for Infectious Diseases.

"We need to create the expectation that

this is a given. ... It's that important," she emphasized.

A panel of experts at the briefing expressed concern about the low vaccination rate among health care professionals and urged more physicians to get the vaccine this flu season.

"It is both the ethical and professional responsibility of every health care worker to get vaccinated. It is a patient safety issue,' " said Dr. William Schaffner, chairman of the department of preventive medicine at Vanderbilt University, Nashville, Tenn., and president-elect of NFID.

Dr. Ardis D. Hoven, an internist and infectious disease specialist in Lexington, Ky., and a member of the American Medical Association's board of directors, encouraged clinicians to vaccinate themselves and to ensure that their staff members also get the shot. It should be given to "anybody who is engaged in providing care within the clinic of the building in which the health care is being provided-medical technicians, nurses, people who are going to be involved in providing some kind of service or care to that patient-in addition to the physician. It's very important and, in most practices, small or large, because we so depend on these people.

Dr. Renée R. Jenkins, president of the American Academy of Pediatrics, emphasized the need for vaccination among children.

"The recommendations from the CDC and the American Academy of Pediatrics are to vaccinate all children 6 months through 18 years of age," she noted. This includes 5- to 18-year-olds, a new group that was added this year. The burden of



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**DR. GERBERDING** 

disease in this group includes missed school days, increased antibiotic use, doctors' visits, and the economic impact of parents' lost time taking care of them, all of which lent support for the group's inclusion in the recommendations.

Dr. Jenkins added that during a typical influenza season, up to a third of all children in the U.S. are infected. In the 2007-2008 season, 86 children died as a result of influenza, and half of those deaths were in children aged 15-17 years.

The panel also emphasized the need for increased communication between physicians and their patients about the benefits of the flu vaccine.

Dr. Hoven cited data from an NFID telephone survey of 2,029 adults taken in August of this year that showed that nearly 4 in 10 adult patients had never discussed the flu vaccine with their health care professional and that half of those patients who had discussed it had initiated the conversation. Nearly 1 in 5 patients aged 65 years or older and 3 in 10 patients aged 50-64 years had ever discussed vaccine with their health care professional, she added.

These data are especially troubling because a health care professional's recommendation is a strong predictor of whether a patient gets the shot-almost 70% of the NFID survey respondents said they would be very likely or likely to get the vaccine if their health care professional had recommended it.

A total of 261 million people in the United States, or 85% of all Americans, are recommended to be vaccinated this year, including all children aged 6 months through 18 years, all adults aged 50 years and older, all health care professionals, and all pregnant women.

The press conference was sponsored in part by CSL Biotherapies, GlaxoSmith-Kline PLC, MedImmune Inc., Merck & Co., Novartis Vaccines, Hoffmann-La Roche Inc., and Sanofi Pasteur Inc.

PROFESSIONAL BRIEF SUMMARY - See package insert for full prescribing information

#### CUTIVATE® LOTION, 0.05% (fluticasone propionate lotion) Rx Only

## FOR TOPICAL USE ONLY. Not for ophthalmic, oral, or intravaginal use.

NUT FOR OFFITHALIMIC, URAL, UR IN TRAVAGINAL USE. INDICATIONS AND USAGE: CUTIVATE® (fluticasone propionate) Lotion is indicated for the relief of the inflammatory and pruritic manifestations of atopic dermatitis in patients 1 year of age or older. The safety and efficacy of drug use for longer than 4 weeks in this population have not been established. The safety and efficacy of CUTIVATE® Lotion in pediatric patients below 1 year of age have not been established. CLINICAL PHARMACOLOGY: Like other topical corticosteroids, fluticasone propionate has anti-inflar and use constricting proparties

Although fullciasone propionate has a weak affinity for the progesterone receptor and virtually no affinity for the mineraloconti-coid, estrogen or androgen receptors, the clinical relevance as related to safety is unknown. Fluticasone propionate is lipophilic and has strong affinity for the glucocorticoid receptor. The therapeutic potency of glucocorticoids is related to the hall-life of the glucocorticoid receptor complex. The hall-life of the fluticasone propionate-glucocorticoid receptor complex approximately 10 hours. Pharmacokinetics: Absorption: The extent of percutaneous absorption of topical corticosteroids is determined by many factors, including the vehicle and the integrity of the epidermal barrier. Occlusive dressing enhances penetration. Topical corticosteroids can be absorbed from normal intact skin. Inflammation and/or other disease processes in the skin increase percutaneous absorption. Special Population (Pedilatric): Plasma fluticasone levels were measured in patients 2 years - 6 years of age in an HPA axis suppres-sion study. A total of 13 (62%) of 21 patients tested had measurable fluticasone at the end of 3 - 4 weeks of treatment. The mean ± Special Population (Penulatric): Plasma huticasone levels were measured in patients 2 years - 6 years of age in an IPH 2 axis suppres-sion study. A total of 13 (62%) of 21 patients tested had measured in patients 2 years - 6 years of age in an IPH 2 axis suppres-SD futicasone plasma values for patients aged under 3 years was 47.7 ± 31.7 gy/mL and 175.5 ± 243.6 gy/mL. Three patients had futicasone levels over 300 gy/mL, with one of these having a level of 819.81 gy/mL. No data was obtained for patients < 2 years of age. CLINICAL STUDIES: CUTIVAE" Lotion applied once daily was superior to vehicle in the treatment of atopic dermatitis in two studies. The two studies enrolled 438 patients with atopic dermatitis aged 3 months and older, of which 169 patients were selected as having clinically significant\* signs of erythema, infiltration/papulation and erosion/oozing/crusting at base-line. Table 1 presents the percentage of patients with completely cleared of erythema, infiltration/papulation and erosion/oozing/crusting at Week 4 out of those patients with clinically significant baseline signs.

Table 1: Complete Clearance Rate				
	CUTIVATE® Lotion	Vehicle		
Study 1	9/45 (20%)	0/37 (0%)		
Study 2	7/44 (16%)	1/43 (2%)		

2%)

\*Clinically significant was defined as having moderate or severe involvement for at least two of the three signs (erythema, infiltration/papulation, or erosion/oozing/crusting) in at least 2 body regions. Patients who had moderate to severe disease in a single body region were excluded from the analysis. CONTRAINDICATIONS: CUTIVATE® Lotion is contraindicated in those patients with a history of hypersensitivity to any of the

components of the preparat PRECAUTIONS:

nic absorption of topical corticosteroids can produce reversible hypothalamic-pituitary-adrenal (HPA) axis suppn ial for glucocorticosteroid insufficiency after withdrawal from treatment. Manifestations of Cushing's syndrome,

severar: systemic assorption or topical contocsteroids can produce reversible hypothalamic-pituilary-adrenal (HPA) axis suppression with the potential for glucocorticosteroid insufficiency after withdrawal from treatment. Manifestations of Cushing's syndrome, hyperglycemia, and glucosuria can also be produced in some patients by systemic absorption of topical conticosteroids wille on treatment. Patients applying a potent topical steroid to a large surface area or to areas under occlusion should be evaluated periodically for evidence of HPA axis suppression. This may be done by using cosyntropin (ACTH-4<sub>224</sub>) stimulation testing. Forty-two pediatric patients (4 months to < 6 years of age) with moderate to severe atopic eczema who were treated with CUTIVATE<sup>®</sup> Lotion for at least 3-4 weeks were assessed for HPA axis suppression and 40 of these subjects applied at least 90% of appli-cations. None of the 40 evaluable patients suppressed, where the sole criterion for HPA axis suppression is a plasma cortisol level of less than or equal to 18 micrograms per deciliter after cosyntropin stimulation. Atthough HPA axis suppression is observed in 0 of 40 pediatric patients (upper 95% confidence bound is 7.2%), the occurrence of HPA axis suppression in a run patient and especially with longer use cannot be ruled out. In other studies with fluticasone propionate topical formulations, afrenal suppression in a been observed. If HPA axis suppression is a plasma atternation, see presenting information for those products. Pediatric patients may be more susceptible to systemic toxicity from equivalent desse due to their larger skin surface to body mass ratios (see PRECAUTIONS: Pediatric Date). Systemic toxicity from equivalent doses due to their larger skin surface to body mass ratios (see PRECAUTIONS: Pediatric Date).

idiatric Use). 1ate Lotion, 0.05% may cause local cutaneous adverse reactions (see ADVERSE REACTIONS)

Hutcasone propionate Lotion, 0.05% may cause local cutaneous adverse reactions (see AUV-RSE HEACTIONS). Fulticasone propionate lotion contains the excipient imilidures which releases traces of formaldehyde as a breakdown product. Formaldehyde may cause allergic sensitization or irritation upon contact with the skin. If irritation develops, CUTIVATE® Lotion should be discontinued and appropriate therapy instituted. Allergic contact dermati-tis with corticosteroids is usually diagnosed by observing failure to heal rather than noting a clinical exacerbation as with most topical products not containing corticosteroids. Such an observation should be corroborated with appropriate diagnostic match topical. natch testing

f concomitant skin infections are present or develop, an appropriate antifungal or antibacterial agent should be used. If a favorable response does not occur promptly, use of CUTIVATE<sup>®</sup> Lotion should be discontinued until the infection has been adefavorable respor

latorane response used not occur, promotion of the presence of preexisting skin atrophy and should not be used where infection CUTIVATE<sup>®</sup> Lotion should not be used in the presence of preexisting skin atrophy and should not be used where infection is present at the treatment site. CUTIVATE<sup>®</sup> Lotion should not be used in the treatment of rosacea and perioral dermatitis. Laboratory Tests: The cosyntropin (ACTH<sub>1•24</sub>) stimulation test may be helpful in evaluating patients for HPA axis suppression. Carcinogenesis, **Mutagenesis**, and **Impairment of Fertility**: No studies were conducted to determine the photoco-carcinogenic

**Carcinogenesis, Mutagenesis, and Impairment of Fertility:** No Studies were consulted to determine any protect of a potential of CUTIVATE<sup>®</sup> Lotion. In an oral (gavage) mouse carcinogenicity study, doese of 0.1, 0.3 and 1 mg/kg/day fluticasone propionate were administered to mice for 18 months. Fluticasone propionate demonstrated no tumorigenic potential at oral doese up to 1 mg/kg/day (less than the MRHD in adults based on body surface area comparisons) in this study. In a dermal mouse carcinogenicity study, 0.05% fluticasone propionate ointment (40 µl) was topically administered for 1, 3 or 7 days/week for 80 weeks. Fluticasone propionate demonstrated no tumorigenic potential at dermal doese up to 6.7 µg/kg/day (less than the MRHD in adults based on body surface area comparisons) in this study. Fluticasone propionate revealed no evidence of mutagenic or clastogenic potential based on the results of five in vitro genotoxicity tests (Ames assay, *E. coll* fluctuation test, *S. cerevisiae* gene conversion test, Chinese harmster ovary cell chromosome aberration assay and human lymphocyte chromosome aberration assay) and one in vivo genotoxicity test (mouse micronu-

aberration assay and human lymphocyte chromosome aberration assay) and one in vivo genorous uses the state of the state of

isons). Subcutaneous doses of 10, 30 and 100  $\mu g/kg/day$  of fluticasone propionate were administered to pregnant female rats in two embryofetal development studies (one study administered fluticasone propionate from gestation days 6 – 15 and the other study from gestation days 7 – 17). In the presence of maternal toxicity, fetal effects noted at 100  $\mu g/kg/day$  (less than the MRHD in adults based on body surface area comparisons) included decreased fetal weights, somphalocele, cleft patalet, and relarded skeletal ossification. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 10  $\nu deforded$  in dec.

relative sketeal ossincation, no relatinent relative energy of energy of relatigementy were index at 10  $\mu_{\rm p}/k_{\rm p}/k_{p$ 

Oral doses of 3, 30 and 300 µg/kg/day fluticasone propionate were administered to pregnant female rabbits from gestatio days 8 – 20. No fetal or teratogenic effects were noted at oral doese up to 300 up/kg/day (less than the MRHD in adults based on body surface area comparisons) in this study. However, no fluticasone propionate was detected in the plasma in this study, consistent with the established low bioavailability following oral administration (see CLINICAL PHARMACOLOGY). Fluticasone propionate crossed the placenta following administration of a subcutaneous or an oral dose of 100 µg/kg tritiated fluticasone propionate to pregnant rats

There are no adequate and well-controlled studies in pregnant women. During clinical trials of CUTIVATE<sup>®</sup> Lotion, women of childbear-ing potential were required to use contraception to avoid pregnancy. Therefore, CUTIVATE<sup>®</sup> Lotion should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. **Nursing Mothers:** Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. It is not known whether topical administration of corti-costeroids could result in sufficient systemic absorption to produce detectable quantities in human milk. Because many drugs are excreted in human milk, caution should be exercised when CUTIVATE<sup>®</sup> Lotion is administered to a nursing woman.

are excreted in human milk, caution should be exercised when CUTIVATE<sup>®</sup> Lotion is administered to a nursing woman. Pediatric Use: CUTIVATE<sup>®</sup> Lotion may be used in pediatric patients as young as 1 year of age. The safety and efficacy of CUTIVATE<sup>®</sup> Lotion in pediatric patients below 1 year of age have not been established. Forty-two pediatric patients (4 months to < 6 years of age) with moderate to severe atopic eczema who were treated with CUTIVATE<sup>®</sup> Lotion for at least 3-4 weeks were assessed for HPA axis suppression and 40 of these subjects applied at least 90% of applications. None of the 40 evaluable patients suppressed, where the sole criterion for HPA axis suppression is a plasma cortisol level of less None of the 40 evaluable patients suppressed, where the sole criterion for HPA axis suppression is a plasma cortisol level of less than or equal to 18 micrograms per deciliter after cosyntropin stimulation. Although HPA axis suppression was observed in 0 of 40 pediatric patients (upper 95% confidence bound is 7.2%), the occurrence of HPA axis suppression in any patient and especially with longer use cannot be ruled out. In other studies with fluticasone propionate topical formulations, adrenal suppression has been observed. CUTIVATE<sup>®</sup> (fluticasone propionate) Cream, 0.05% caused HPA axis suppression in 2 of 43 pediatric patients, ages 2 and 5 years old, who were treated for 4 weeks covering at least 35% of the body surface area. Follow-up testing 12 days after treatment discontinuation, available for 1 of the 2 patients, demonstrated a normally responsive HPA axis. HPA axis suppression, Cushing's syndrome, linear growth retardation, delayed weight gain, and intracranial hypertension have been reported in pediatric patients receiving topical corticosteroids. Manifestations of afrenal suppression in pediatric patients include low plasma cor-tisol levels to an absence of response to ACTH stimulation. Manifestations of intracranial hypertension include bulging fontanelles, headaches, and bilateral papilledema. In addition, local adverse events including cutaneous atrophy, striae, telangiectasia, and pigmentation change have been reported with topical use of corticosteroids in pediatric patients.

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with topical use of corticosteroids in pediatric patients. Gerlahric Use: A limited number of patients above 65 years of age have been treated with CUTIVATE" Lotion in US and non-US clinical trials. Specifically only 8 patients above 65 years of age ware treated with CUTIVATE" Lotion in controlled clinical trials. The number of patients is too small to permit separate analyses of efficacy and safety. **ADVERSE REACTIONS:** In 2 multicenter vehicle-controlled clinical trials of once-daily application of CUTIVATE Lotion by 196 adult and 242 pediatric patients, the total incidence of adverse reactions considered drug related by investigators was approximately 4%. Events were local cutaneous events, usually mild and self-limiting, and consisted primarily of burning/stinging (2%). All other drug-related events occurred with an incidence of last barn 1% and inclusively were contact dermatitis, exacerbation of atopic dermatitis, folliculit is of legs, pruritus, pustules on arm, rash, and skin infection (0 vs. 1%). Per Table 2, the actual number/(per cent) of drug-related events for the CUTIVATE Lotion group (N=221) versus the vehicle group (N=217), respectively, were burning/stinging 4(2%) vs. 3/(1%); contact dermatitis 0(0) vs. 1/(1%); exacerbation of atopic der-matitis 0(0) vs. 1/(1%); folliculitis of legs 2/(1%) vs. 0/(0); pruritus 1/((1%) vs. 1/((1%); pustules on arm 1/((1%) vs. 0/(0); rash 1/((-1%) vs. 2/((1%)); colliculities of the vehicle (4% and 5%, respectively) was similar. Events as per Table 3

The incidence of drug-related events on drug compared to vehicle (4% and 5%, respectively) was similar. Events as per Table 3 were local, cutaneous, and inclusively were dry skin, 3 events (7%); stinging at application sites, 2 events (5%); and excoriation, 1 event (2%). - abel study of 44 pediatric patients applying CUTIVATE<sup>®</sup> Lotion to at least 35% of body surface area twice daily for 3 or 4 overall incidence of drug-related adverse events was 14%. Events as per Table 3 were local, cutaneous, and inclusively weeks, the overall incidence of drug-related adverse events was 14%. Events as pe were dry skin (7%), stinging at application site (5%), and excoriation, 1 event (2%).

### Table 4: Adverse Events Occurring in $\geq$ 1% of Patients from Either Arm from Controlled Clinical Trials (n=438)

Body System	CUTIVATE® Lotion N = 221	Vehicle Lotion N = 217
Any Adverse Event	77 (35%)	82 (38%)
Skin Burning and Stinging Pruritus Rash Skin Infection	4 (2%) 3 (1%) 2 (<1%) 0	3 (1%) 5 (2%) 3 (1%) 3 (1%)
Ear, Nose, Throat Common Cold Ear Infection Nasal Sinus Infection Rhinitis Upper Respiratory Tract Infection	9 (4%) 3 (1%) 2 (<1%) 1 (<1%) 6 (3%)	5 (2%) 3 (1%) 4 (2%) 3 (1%) 7 (3%)
Gastrointestinal Normal Tooth Eruption Diarrhea Vomiting	2 (< 1%) 3 (1%) 3 (1%)	3 (1%) 0 2 (<1%)
Lower Respiratory Cough Influenza Wheeze	7 (3%) 5 (2%) 0	6 (3%) 0 3 (1%)
Neurology Headache	4 (2%)	5 (2%)
Non-Site Specific Fever	8 (4%) 2 ( <1%)	8 (4%)

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 2 (<176)
 3 (176)

Uuring the clinical trials, eczema harpeticum occurred in a 33-year-old male patient treated with CUTIVATE<sup>®</sup> Lotion. Additionally,
a 4-month-old patient treated with CUTIVATE<sup>®</sup> Lotion in the open-label trial had marked elevations of the hepatic enzymes AST
and ALT. Reported systemic post-marketing systemic adverse events with CUTIVATE<sup>®</sup> Corean and CUTIVATE<sup>®</sup> Lotion. Additionally,
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included: immunosuppressible carini penetro and uncertain the adverse adverse events with CUTIVATE<sup>®</sup> to thread adverse adverse treation (edema, uriticaria, pruritus, and thread
swelling). A causal role of CUTIVATE<sup>®</sup> in most cases could not be determined because of the concomitant use of topical corticosteroids, confounding medical conditions, and insufficient clinical information.
The following local adverse reactions have been reported infrequently with topical corticosteroids, and they may occur more frequently with the use of occurse dressing and higher potency corticosteroids. These reactions are listed in an approximately
decreasing order of occurrence: irritation, folliculitis, acneiform eruptions, hypopigmentation, perioral dermatitis, allergic contact
dermatitis, secondary infection, skin atrophy, striae, hypertrichosis, and miliaria. Also, there are reports of the development of
pustular positiar sist from chronic plaque positias following readuction or discontinuation of potent topical corticosteroid products. **VERDOSAGE:** Topically applied CUTIVATE<sup>®</sup> Lotion can be absorbed in sufficient amounts to produce systemic effects (see PRECAUTIONS). **DOSAGE AND ADMINISTRATION:** CUTIVATE<sup>®</sup> Lotion to the affected skin areas once daily. Rub in gently.
As with other corticosteroids, therapy should be discontinued when control is achieved





Store between 15° and 30°C (59° and 86°F). Do not refrigerate. Keep the container tightly closed.