Uncertainty Reigns in Error Disclosure Debate

BY JANE M. ANDERSON

Contributing Writer

WASHINGTON — Physicians generally believe that medical errors—especially those that cause an adverse event—should be disclosed to patients, but there is disagreement about the level of detail that should be provided, according to a physician who has studied the issue.

Dr. Thomas Gallagher, associate professor of medicine at the University of Washington, Seattle, told attendees at the annual meeting of the American College of Physicians that physicians are unsure about what to include when they disclose a medical error. But he added that physicians are actively debating the best way to proceed.

"Over the next 5 years, we're going to see very exciting changes," he said. "I think physicians as a profession will be leading the way to set some standards as to how these difficult conversations should go."

Patients conceive of errors broadly and

desire full disclosure of harmful errors, while at the same time worrying that health care workers might hide them. In disclosure, they want "an explicit statement that an error occurred," details of what happened, and the implications for their health, he said.

Physicians define errors more narrowly than patients do. They agree in principle with full disclosure and want to be truthful, but perceive barriers to disclosure. "Physicians feared that disclosure could be

harmful to the patient," Dr. Gallagher said.

The University of Washington recently surveyed 4,000 physicians about communication with patients, colleagues, and health care institutions about errors.

According to Dr. Gallagher, the survey on error disclosure was sent to 2,000 physicians in Washington State and 2,000 Canadian physicians. The survey, which asked about general attitudes regarding disclosure, had a response rate of 63%.

Respondents were randomized to one of four specialty-specific disclosure scenarios and answered five questions to measure the content of their disclosure. Each question offered actual disclosure language that contained no information, a little information, or full disclosure.

When asked about general attitudes regarding disclosure, 98% of U.S. physicians said serious errors should be disclosed, and more than three-quarters said minor errors should be disclosed to patients. Less than one-third, however, said near misses should be disclosed, Dr. Gallagher said.

But when asked for answers in the specific scenarios, physicians didn't always want to admit that a medical error occurred, he said.

For example, one fictitious scenario involved an inpatient insulin overdose. In the example, a physician wrote an order for the patient to receive "10 U" of insulin, but the "U" in the order looked like a "0," and the following morning the patient received 100 units of insulin. The patient, found unresponsive with a blood glucose level of 35 mg/dL, was resuscitated and transferred to the intensive care unit and is expected to make a full recovery.

Nearly 65% of physicians said they would "definitely" disclose the error, and about 32% said they "probably" would disclose the error, Dr. Gallagher said. When asked how they would explain the situation, 1% said they would tell the patient, "Your blood sugar went too low and you passed out"; 28% said they would say, Your blood sugar went too low because you received more insulin than you needed"; and 71% said they would tell the patient, "Your blood sugar went too low because an error happened and you received too much insulin.

When asked how much detail they would provide, 11% said they would not volunteer any specific information about the details of the error unless asked by the patient; 36% said they'd tell the patient, 'You received more insulin than you needed"; and 54% said they'd tell the patient, "You received 100 units rather than your usual 10 units of insulin."

Dr. Gallagher said that preliminary survey conclusions show that physicians support the concept of disclosure, but are uncertain about the core content of any disclosure. Most would disclose less information about errors that would not be apparent to the patient, he said.

There is accelerating interest in disclosure and growing experimentation with disclosure approaches among health care organizations and malpractice insurers, Dr. Gallagher said, and this goes hand-inhand with the increased emphasis on transparency in health care generally.

PROFESSIONAL BRIEF SUMMARY - See package insert for full prescribing information

CUTIVATE® LOTION, 0.05%

(fluticasone propionate lotion)

FOR TOPICAL USE ONLY.

NOT FOR OPHTHALMIC, ORAL, OR INTRAVAGINAL USE.

INDICATIONS AND USAGE: CUTIVATE" (fluticasone propionate) Lotion is indicated for the relief of the inflammatory and pruritic manifestations of atopic dermatilis 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

CLINICAL PHARMACULUSY: Like other topical corticosterous, fluticasone propionate has anti-inflammatory, antipruritic, and vasconstrictive properties.

Although fluticasone propionate has a weak affinity for the progesterone receptor and virtually no affinity for the mineralocorticoid, 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 half-life of the glucocorticoid receptor complex sapproximately 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 (Pediatric): Pasara fluticasone levels were measured in patients 2 years - 6 years of age in an PlA axis suppression study. A total of 13 (62%) of 21 patients tested had measurable fluticasone at the end of 3 - 4 weeks of treatment. The mean ± SD fluticasone plasma values for patients aged under 3 years was 47.7 ± 31.7 pg/ml. and 175.5 ± 243.6 pg/ml. Three patients had fluticasone plasma values for patients aged under 3 years was 47.7 ± 31.7 pg/ml. and 175.5 ± 243.6 pg/ml. Three patients had fluticasone plasma values for patients see having a clinically significant* signs of erythema, infiltration/papulation and erosion/oozing/crusting at baseline. Table 1 presents the percentage of 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 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%)

*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

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PRECAUTIONS:
General: Systemic absorption of topical corticosteroids can produce reversible hypothalamic-pituitary-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 corticosteroids while 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-14-24) stimulation testing. Forty-two pediatric patients (4 months to <6 years of age) with moderate to severe atopic exerma who were treated with CUTIVATE® 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 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 is noted, an attempt should be made to withdraw the drug, to reduce the frequency of application, or to substitute

adrenal suppression has been observed. If HPA axis suppression is noted, an attempt should be made to withdraw the drug, to reduce the frequency of application, or to substitute a less potent steroid. Recovery of HPA axis function is generally prompt upon discontinuation of topical conticosteroids. Infrequently, signs and symptoms of glucocordicosteroid insufficiency may occur requiring supplemental systemic corticosteroids. For information on systemic supplemental systemic conticosteroids. For information on systemic supplemental systemic toxicity from equivalent doses due to their larger skin surface to body mass ratios (see PRECAUTIONS: Pediatric Due). Ruticasone propionate Lotion, 0.05% may cause local cutaneous adverse reactions (see ADVERSE REACTIONS). Fluticasone propionate lotion contains the excipient imidurea 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 dermatitis with corticosteroids is usually diagnosed by observing failure to heal rather than noting a clinical experipation distinguish products not containing corticosteroids. Such an observation should be corroborated with appropriate diagnostic patch testing.

patch testing. If 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* Lotion should be discontinued until the infection has been adequately controlled.

CUTIVATE* 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* Lotion should not be used in the treatment of rosacea and perioral dermatitis.

Laboratory Tests: The cosyntropin (ACTH₁₋₂₋₄) 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 potential of CUTIVATE* Lotion.

In an oral (gavage) mouse carcinogenicity study, doses 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 doses up to 1 mg/kg/day (less than the MRHD in adults hased on bords variance area comanisons) in this study.

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toxicity tests (Arnes assay, E. coli fluctuation test, S. cerevisiae gene conversion test, Chinese hamster ovary cell chromosome aberration assay and human lymphocyte chromosome aberration assay) and one in vivo genotoxicity test (mouse micronu-

cleus assay).

No evidence of impairment of fertility or effect on mating performance was observed in a fertility and general reproductive nance study conducted in male and female rats at subcutaneous doses up to 50 μg/kg/day (less than the MRHD in

performance study conducted in intended and seriale task at subcutaneous doses up to 50 pprojudy (less than the winth D in adults based on body surface area comparisons).

Pregnancy: Teratogenic Effects: Pregnancy Category C. Corticosteroids have been shown to be teratogenic in laboratory animals when administered systemically at relatively low dosage levels. Some corticosteroids have been shown to be teratogenic after dermal application in laboratory animals.

Systemic embryofetal development studies were conducted in mice, rats and rabbits. Subcutaneous doses of 15, 45 and 150 confident in the conduction of the con

TSO µg/kg/day of fluticasone propionate were administered to pregnant female mice from gestation days 6 – 15. A terato-genic effect characteristic of corticosteroids (cleft palate) was noted after administration of 45 and 150 µg/kg/day (less than the MRHD in adults based on body surface area comparisons) in this study. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 15 µg/kg/day (less than the MRHD in adults based on body surface area compari-

isons). Subcutaneous doses of 10, 30 and 100 µg/kg/day of fluticasone propionate were administered to pregnant female rats in two mbryofetal 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 µg/kg/day (less than the MRHD in adults based on body surface area comparisons) included decreased fetal weights, omphalocele, cleft palate, and retarded skeletal ossification. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 10 µg/kg/day (less than the MRHD in adults based on body surface area comparisons). Subcutaneous doses of 0.08, 0.57 and 4 µg/kg/day of fluticasone propionate were administered to pregnant female rabbits from gestation days 6 – 18. Fetal effects noted at 4 µg/kg/day (less than the MRHD in adults based on body surface area comparisons) included decreased fetal weights, cleft palate and retarded skeletal ossification. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 0.57 µg/kg/day (less than the MRHD in adults based on body surface area comparisons).

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Oral doses of 3, 30 and 300 µg/kg/day fluticasone propionate were administered to pregnant female rabbits from gestation days 8 – 20. No fetal or teratogenic effects were noted at oral doses up to 300 µg/kg/day (less than the NIRHD in adults based no body surface area comparisons) in this study, However, on 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® Lotion, women of childbearing potential were required to use contraception to avoid pregnancy. Therefore, CUTIVATE® 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 corticosteroids 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® Lotion is administered to a nursing woman.

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Pediatric Use: CUTIVATE* Lotion may be used in pediatric patients as young as 1 year of age. The safety and efficacy of CUTIVATE* Lotion in pediatric patients below 1 year of age have not been established.

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In other studies with fluticasone propionate topical formulations, adrenal suppression has been observed. CUTIVATE* (fluticasone propionate) Cream, 0.05% caused IPAA 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 IPAA axis suppression in pediatric patients include low plasma cortisol levels to an absence of response to ACTH stimulation. Manifestations of intracranial hypertension include bulging fontanelles, headaches, and biateral papilledema.

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.

Geriatric Usez: 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 were 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/striang (2%). All other drug-related events occurred with an incidence of less than 1% and inclusively were contact dermatitis, exacerbation of atopic dermatitis, folliculities of lens, purples, pushles on arm rash, and skin infection (0x s. 1%).

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Per Table 2, the actual number/(per cent) of drug-related events for the CUTIVATE Lotion group (N=211) versus the vehicle group (N=217), respectively, were burning/stinging 4/(2%) vs. 3/(1%); contact dermatitis 0/(0) vs. 1/c1%); floatitis of legs 2/c14% vs. 0/(0); pruritis 1/c14%) vs. 1/(51%); pustules on arm 1/(51%) vs. 0/(0); rash 1/(51%) vs. 2/(51%); and skin infection 0/(0) vs. 3/(1%).

resum (r,s, re, r, s, and skill illiecture (r) vs. 3(17%). 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 excordation, 1 event (7%).

ريم. n-label study of 44 pediatric patients applying CUTIVATE® Lotion to at least 35% of body surface area twice daily for 3 or 4 weeks, the overall incidence of drug-related adverse events was 14%. Events as per Table 3 were local, cutaneous, and inclusivere dry skin (7%), stinging at application site (5%), and excortation, 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 Seasonal Allergy	8 (4%) 2 (<1%)	8 (4%) 3 (1%)

During the clinical trials, eczema herpeticum occurred in a 33-year-old male patient treated with CUTIVATE® Lotion. Additionally, a 4-month-old patient treated with CUTIVATE® 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® Coream and CUTIVATE® Ointment have included: immunosuppression/Pneumocystis carinii pneumonia/leukopenia/thrombocytopenia; hyperglycemia/glycosuria; Cushing syndrome; generalized body edema/blurred vision; and acute urticarial reaction (edema, urticaria, rutius, and throat swelling). A causal role of CUTIVATE® 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 occlusive dressings and higher potency corticosteroids. These reactions are listed in an approximately decreasing order of occurrence: irritation, folliculitis, caneform eruptions, hypopoigmentation, perioral dermatins, algregic contact dermatitis, secondary infection, skin atrophy, striae, hypertrichosis, and miliaria. Also, there are reports of the development of pustual psoriasis from chronic plaque psoriasis following reduction or discontinuation of potent topical corticosteroid products.

OVERDIOSAGE: Topically applied CUTIVATE® Lotion may be used in adult and pediatric patients 1 year of age or older. The safety and efficacy of CUTIVATE® Lotion to the affected skin areas once daily. Rub in gently.

As with other corticosteroids, therapy should be discontinued when control is achieved. If no improvement is seen within 2 weeks have not been established.

As with other corticosteroids, therapy should be discontinued when control is achieved. If no improvement is seen within 2 weeks, reassessment of diagnosis may be necessary. The safety and efficacy of drug use for longer than 4 weeks have not been established. CUTIVATE* Lotion should not be used with occlusive dressings or applied in the diaper area unless directed by a physician.

HOW SUPPLIED: CUTIVATE* Lotion is supplied in:

120mL bottle (NDC 0462-0434-04)

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



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