

Contact Allergy to Corticosteroid Often Masked

BY BRUCE JANCIN

WAIKOLOA, HAWAII — Contact allergy to a corticosteroid molecule is considerably underdiagnosed—and it's no wonder why.

Even when suspicion runs high enough that patch testing is performed, the anti-inflammatory action of the corticosteroid often masks the allergic contact reaction, at least early on, Dr. Joseph F. Fowler Jr. said at the annual Hawaii dermatology seminar sponsored by Skin Disease Education Foundation.

Contact allergy to the corticoid molecule itself—not to some component of the medication's vehicle—is by no means rare. The incidence in various studies is 0.5%-5%. "Just because it's an anti-inflammatory molecule doesn't mean your body can't make an allergen to it," observed Dr. Fowler of the University of Louisville (Ky.).

Contact allergy to a corticosteroid should be suspected when a patient has a long-standing skin disorder that isn't responding to appropriately prescribed topical steroid therapy, or when a dermatitis is getting bigger and bigger as the patient applies more medication, he said.

Contact dermatitis experts divide corticosteroids into the following five

groups for allergy purposes, based on their molecular structure:

- ▶ Group A, known as the hydrocortisone type.
- ▶ Group B, the triamcinolone acetonide type.
- ▶ Group C, the betamethasone type.
- ▶ Group D1, the betamethasone dipropionate type.
- ▶ Group D2, the hydrocortisone-17-butyrate type.

In the United States, because of usage patterns, at least 90% of cases of corticoid allergy involve Group A, and most of those involve hydrocortisone. Allergy to Group B steroids is the next most common, accounting for 5%-7% of cases. Most of the rest involve Group D. Group C steroids are almost never allergenic, according to Dr. Fowler, who is the current president of the North American Contact Dermatitis Group.

Tixocortol pivalate is the standard agent that represents Group A in patch testing. The others in Group A are fludrocortisone acetate, hydrocortisone acetate, and—importantly—methylprednisolone and prednisone. Cross-reactivity can occur within steroid groups, so a patient with contact allergy to a Group A steroid that's used in topical medications could be at risk for a serious reaction to

oral or injectable prednisone, he noted.

Group B is composed of all the steroids ending in '-ide.' Budesonide is the one used as the Group B representative in patch testing. Group D steroids all end in '-ate.' Clobetasol propionate is employed as the representative of Group D1 in patch testing; hydrocortisone-17-butyrate is the test material for Group D2.

Group C, which almost never causes contact allergy, is a select group that comprises clocortolone pivalate, desoximetasone, and dexamethasone. When allergy to corticosteroids is known or suspected, a switch to a Group C steroid is the safest bet. Clocortolone cream is the hypoallergenic midpotency steroid of choice, whereas desoximetasone cream or ointment is the safest mid- to high-potency option, Dr. Fowler said.

With regard to contact allergy to the vehicles used in topical corticosteroid medications, Dr. Fowler said the big offenders are the various preservatives and propylene glycol.

"Propylene glycol in a small amount is not a big problem. If it's under 5% or 10% it's rarely a problem. The trouble is that when you read the label, you don't always know how much is in a product," he explained.

When allergy to a vehicle is suspected, the safest option is to turn to a product that utilizes an ointment or spray vehicle.

Topical steroids that are free of problem preservatives and propylene glycol include desonide ointment, hydrocortisone-17-butyrate lipid cream, clocortolone cream, triamcinolone spray, and—in the high-potency range—halcinonide ointment, amcinonide cream, flucocinonide oil, and clobetasol spray, he noted. ■

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'Just because it's an anti-inflammatory molecule doesn't mean your body can't make an allergen to it.'

DR. FOWLER

Short Course of 3.75% Imiquimod Reduces AKs

BY HEIDI SPLETE

ORLANDO — Daily application of 3.75% imiquimod cream with a 2-week dosing cycle was well tolerated and effective for treating actinic keratoses in adults, based on data from two studies.

In the first study, 160 patients were

group and 31% of the 2.5% group achieved complete clearance, vs. 6% of the placebo group.

The 3.75% cream, however, was significantly better than the 2.5% cream for partial clearance and lesion reduction. Approximately 60% of the 3.75% group achieved partial clearance (defined as at least 75%), compared with 48% of the 2.5% group and 23% of the placebo group.

"Median percent lesion reduction of 81.8% was comparable to that observed for imiquimod 5% cream applied for 16 weeks," the researchers noted. Median lesion reduction from baseline was 71.8% in the 2.5% group and 25% in the placebo group.

A companion study randomized 164 patients to a placebo cream, 164 patients to imiquimod 2.5% cream, and 162 patients to imiquimod 3.75% cream. No significant improvement was seen with either imiquimod cream, reported Dr. C. William Hanke, a dermatologic surgeon in Carmel, Ind., and his colleagues.

When both studies were evaluated together, though, "efficacy was better with imiquimod 3.75% than with 2.5%. Extending the cycle duration from 2 weeks to 3 weeks did not further increase efficacy," Dr. Hanke and his colleagues wrote. ■

VITALS **Major Finding:** A 3.75% imiquimod cream used daily for 2 weeks yielded a median reduction in AK lesions of 82%.
Data Source: Two randomized trials including 969 patients.
Disclosures: Both studies were funded by Graceway Pharmaceuticals. Dr. Swanson, Dr. Hanke, and their coauthors have financial relationships with Graceway.

randomized to 3.75% imiquimod cream (Aldara, Graceway Pharmaceuticals), 160 patients to 2.5% imiquimod cream, and 159 patients to a placebo cream. The patients, aged 18 years and older, had 5-20 clinically diagnosed actinic keratoses (AKs) on the face or balding scalp, said Dr. Neil Swanson of Oregon Health and Science University, Portland, and his colleagues in a poster at the Orlando Dermatology Aesthetic and Clinical Conference.

Both the 3.75% and 2.5% creams were significantly more effective than placebo at fully clearing AKs after 2 weeks of daily use. Overall, 36% of the 3.75%

Colchicine Cut Steroid Use in Chronic Urticaria Patients

BY HEIDI SPLETE

NEW ORLEANS — Colchicine is an effective steroid-sparing agent that can be used to treat refractory chronic idiopathic urticaria, based on data from a review of adults who received colchicine for CIU from 2003 to 2008.

Colchicine has been shown to decrease mast cell degranulation, suppress leukotriene generation, and decrease leukocyte adhesiveness and migration, said Dr. Mary S. Georgy of Northwestern University, Chicago, and her associates.

To assess the agent's effectiveness in this setting, the investigators reviewed charts from 55 patients with CIU who were treated with colchicine for at least 7 days, focusing on the type of urticaria, type of response, and use of oral steroids before and after colchicine treatment.

Overall, 24 patients responded to colchicine, 2 partially responded, and 29 did not respond (44%, 4%, and 53%, respectively). The average number of steroid courses in the responders dropped significantly between the 6 months prior to and the 6 months after colchicine use (2.44 vs. 0.33). Information on the average number of steroid courses was available only for the responders. The findings were presented at the annual meeting of the American Academy

VITALS **Major Finding:** Patients with chronic urticaria who responded to colchicine used significantly fewer steroids after starting colchicine than before starting it.
Data Source: A review of 55 patients who were treated with colchicine for chronic urticaria.
Disclosures: Dr. Georgy had no financial conflicts to disclose.

of Allergy, Asthma, and Immunology.

Response was defined as subjective improvement and a decrease in the oral steroid dosage of at least 50% within 3 months of beginning colchicine. A partial response was defined as a subjective improvement with no decrease in oral steroids by 50% within 3 months of beginning colchicine.

Skin biopsies from 27 patients—14 responders, 12 nonresponders, and 1 partial responder—showed neutrophilic urticaria in 86% of responders and in 25% of nonresponders.

"Colchicine was particularly effective in patients with neutrophilic urticaria," the researchers noted.

Overall, 10 responders, 5 nonresponders, and 1 partial responder (29% of the patients) reported gastrointestinal complaints, but the differences among the groups were not significant.

"Colchicine has a relatively safe profile in chronic idiopathic urticaria," the researchers noted. ■