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Beer Consumption Found to Boost Psoriasis Risk

BY KATE JOHNSON

MONTREAL — Women who drank alcohol, especially those consuming at least five beers per week, were at increased risk of developing psoriasis, based on an analysis of the Nurses' Health Study.

Compared to abstainers, women who drank alcohol (defined as consumption of at least 30 grams, or roughly two drinks, per week) had a significantly increased

risk of developing psoriasis, with a relative risk (RR) of 1.6, said Dr. Patrick Dominguez, who presented his findings at the annual meeting of the Society for Investigative Dermatology

When type of alcohol was examined, however, only regular beer consumption of more than 5 drinks per week was a significant predictor (RR 1.8) for the development of psoriasis. "For any amount of light beer, wine, or liquor consumed, the

relative risks were not significant."

At study entry in 1989, women in the Nurses' Health Study were asked about their level of alcohol consumption in grams per week. According to the Centers for Disease Control and Prevention, a standard drink contains 13.7 grams of alcohol and is defined as 12 ounces of regular beer, 8 ounces of malt liquor, 5 ounces of wine, or 1.5 ounces of 80proof distilled spirits.

Over a 14-year period, biennial questionnaires were used to monitor both the amount as well as the type of alcohol consumed (regular beer, light beer, wine, or liquor), said Dr. Dominguez, who is a research fellow in the department of dermatology at Brigham and Women's Hospital in Boston.

In 2005, participants were asked if they had psoriasis. A total of 2,169 reported a diagnosis of psoriasis; 1,162 were prevalent cases and the remaining 1,007 were incident cases, said Dr. Dominguez, who declared no conflicts of interest. After excluding incident cases for which there was incomplete information on alcohol consumption, 955 participants with new onset psoriasis were included for analysis.

The abstainers and women who drank alcohol did not differ significantly in age.



Gluten, which is found in beer but not other forms of alcohol, may be a trigger.

Abstainers had slightly higher body mass indices. Drinkers were more physically active, and a higher percentage of drinkers also reported current or past smoking.

One possible explanation for the study's findings is that gluten, a non-alcoholic ingredient found in beer, might trigger the onset of psoriasis, Dr. Dominguez speculated.

"There are multiple case series in which patients with gluten sensitivity, or celiac disease, and psoriasis go on a gluten-free diet, and their psoriasis clears up," he said in an interview. "Beer is the only alcoholic drink that contains gluten. Light beer has some gluten but much less.'

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"plastic surgery" than the

'The public has more confidence in the brand

brand "dermatology"

when it comes to

Not for Ophthalmic Use

deaths and a decrease in fetal weights in litters from dams treated topically with the drug product.

In a dermal application study in pregnant rats treated with TRI-LUMA Cream during organogenesis there was evidence of teratogenicity of the type expected with treitonic. These morphological alterations included cleft palate, protruding tongue, open eyes, umbilical hernia, and retinal folding or dysplasia.

In a dermal application study on the gestational and postental effects of a 10-fold dilution of TRI-LUMA Cream in rats, an increase in the number of stillborn pups, lower pup body weights, and delay in preputial separation were observed. An increase in overall activity was seen in some treated litters at postnatal day 22 and in all treated litters at five weeks, a pattern consistent with effects previously noted in animals exposed in utero with retinoic acids. No adequate study of the late gestational and postnatal effects of the full-strength TRI-LUMA Cream has been performed.

It is difficult to interpret these animal studies on retarogenicity with TRI-LUMA Cream, because the availability of the dermal applications in these studies could not be assured, and comparison with clinical dosing is not possible.

Ul pregnancies have a risk of birth defect, loss, or other adverse event regardless of drug exposure. Typically, estimates of norceased fetal risk from drug exposure rely heavily on animal data. However, animal studies do not always predict effects in unamas. Even if human data are available, such data may not be sufficient to determine whether there is an increased risk to the stuss flurge effects on behavior, cognitive function, and fertility in the offspring are particularly difficult to assess.

Lursing Mothers Corticosteroids, when systemically administered appear in human milk, Eation son milk. Because many drugs are secreted in human milk, action should be varcised when TRI-LUMA Cream is administered to a nursing woman. Care should be taken to avoid contact between the infant leng nursed and r

exercised when TRI-LUMA Cream is administered to a nursing woman. Care should be taken to avoid contact between the infant being nursed and TRI-LUMA Cream.

Padiatric Use: Safety and effectiveness of TRI-LUMA Cream in pediatric patients have not been established.

Beriatric Use: Clinical studies of TRI-LUMA Cream did not include sufficient number of subjects aged 65 and over to determine whether they respond differently from younger subjects. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy.

AVERSE REACTIONS: In the controlled clinical trials, adverse events were monitored in the 161 patients who used TRI-LUMA Cream once daily during an 8-week treatment period. There were 102 (63%) patients who experienced at least one treatment-related adverse event during these studies. In the long-term clinical study, from a total of 314 patients treated adverse event. No significant increase in severity or incidence of the adverse events was observed from long term used events. A compared with events reported during the 8-week controlled clinical studies. The most frequently reported adverse events that were observed from long term used that that were observed from the controlled clinical trials and the long term safety were erythema, desquamation, and burning, at the site of application. The number and percentages of these events were markedly love in the long-term study than in the controlled clinical studies. The great majority of these events were markedly love in the long-term study than in the controlled clinical studies. The great majority of these events were markedly love in the long-term study than in the controlled clinical studies. The event is patient to the controlled of the controlled of the opening and the long-term study are summarized (in decreasing order of frequency).

Incidence and Frequency of Treatment-related Adverse Events with TRI-LUMA Cream in at least 1% or more of Patients (N=161) Number (%) of Patients Adverse Event Burning 29 (18% Dryness Paresthesia 5 (3%) Telangiectasi 3 (2% 3 (2%) Papules Acne-like

In an open-label long-term safety study, patients who have had cumulative treatment of melasma with TRI-LUMA Cream for 6 months showed a similar pattern of adverse events as in the 8-week studies.

Summary		eatment-related Adverse Events Study 29		
Preferred Term	Number (%) of Patients Treatment Group TRI-LUMA			
			All Patients (N=569)	Patients with at least 180 Cumulative Days of TRI-LUMA Treatment (N=314)
			Total number of TRAE ^a	326 (57.29)
	Application site erythema	166 (29.17)	105 (33.44)	
Application site desquamation	145 (25.48)	91 (28.98)		
Application site dryness	46 (8.08)	27 (8.60)		
Application site burning	38 (6.68)	25 (7.96)		
Application site inflammation	31 (5.45)	24 (7.64)		
Application site reaction nos	31 (5.45)	17 (5.41)		
Application site rash	30 (5.27)	18 (5.73)		
Application site pruritus	24 (4.22)	18 (5.73)		
Application site pigmentation changes	23 (4.04)	18 (5.73)		

"Defined as "probably" or "possibly" related to study medication
Data source: Section 14.3, Tables 8.1.1, 8.1.2, and 8.1.3

The severity, incidence and type of adverse events experienced from 6 months cumulative use were not significantly different from the events reported for all patients.

The incidence of application size pigmentation changes that occurred in both the controlled and long-term safety studies included 11 occurrences of hypopigmentation in 27 patients.

The following local adverse reactions have been reported infrequently with topical corticosteriods. They may occur more frequently with the use of occlusive dressings, especially with higher potency corticosteroids. These reactions are listed in an approximate decreasing order of occurrence burning, fiching, irritation, dryness, follicutilis, canelform eruptions, hypopigmentation, perioral dermatitis, allergic contact dermatitis, secondary infection, skin atrophy, striae, and miliaria.

TRI-LUMA Cream contains hydroquinone, which may produce exogeneous ochronosis, a gradual blue-black darkening of the skin, whose occurrence should prompt discontinuation of therapy.

Cutaneous hypersensitivity to the active ingredients of TRI-LUMA Cream has been reported in the literature. In a patch test study to determine sensitization potential in 221 healthy volunteers, three volunteers developed sensitivity reactions to TRI-LUMA Cream or its components.

Galderma Laboratories, L.P., Fort Worth, TX 76177 USA GALDERMA is a registered trademark.

Reference: 1. Taylor SC, Torok H, Jones T, et al. Efficacy and safety of a new triple-combination agent for the treatment of facial melasma. Cutis. 2003;72:67-72.

cutaneous surgeries.' GALDERMA Dr. Vinh Q. Chung, discussing his survey of patients, p. 21

TRI-LUMA® Cream (fluocinolone acetonide 0.01%, hydroquinone 4%, tretinoin 0.05%) had Summary For External Use Only

Brief Summany

Not for Ophthalmic Use

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have not been studied.

Because pregnant and lactating women were excluded from, and women of child-bearing potential had to use birth control measures in the clinical trials, the safety and efficacy of TRI-LUMA Cream in pregnant women and nursing mothers have not been established (See PRECAUTIONS, Pregnancy).

CONTRAINDICATIONS: TRI-LUMA Cream is contraindicated in individuals with a history of hypersensitivity, allergy, or intolerance to this product or any of its components.

WARNINGS: TRI-LUMA Cream contains sodium metabisulfite, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening asthmatic episodes in susceptible people.

The overall prevalence of sulfite sensitivity in the general population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in non-asthmatic people.

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TRI-LUMA Cream contains hydroquinone, which may produce exogenous ochronosis, a gradual blue-black darkening of the skin, whose occurrence should prompt discontinuation of therapy. The majority of patients developing this condition are Black, but it may also occur in Caucasians and Hispanics.

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PRECAUTIONS: General: TRI-LUMA Cream contains hydroquinone and tretinoin that may cause mild to moderate irritation. Local irritation, such as skin reddening, peeling, mild burning sensation, dryness, and puritivis may be expected at the site of application. Transient skin reddening or mild burning sensation does not preclude treatment. If a reaction suggests hypersensitivity or chemical irritation, the use of the medication should be discontinued. Systemic absorption of topical corticosteroids can produce reversible hypothalamic-plutialry-adrenal (HPA) axis suppression with the potential for glucocorticosteroid scan produce reversible hypothalamic-plutialry-adrenal (HPA) axis suppression with the potential for glucocorticosteroid insufficiency after withdrawal of treatment. Manifestations of Cushing's syndrome, hyperglycemia, and glucosuria can also be produced by systemic absorption of topical corticosteroid while on treatment. If HPA axis suppression is noted, the use of TRI-LUMA Cream should be discontinued. Recovery of HPA axis function generally occurs upon discontinuation of topical corticosteroids.

tise of In-LOWA Clear Should be discontinued. Necovery of In-PA axis initiating generally occurs upon in secondination to replicate corticosteroids. Information for Patients: Exposure to sunlight, sunlamp, or ultraviolet light should be avoided. Patients who are consistently exposed to sunlight or skin irritants either through their work environment or habits should exercise particular caution. Sunscreen and protective covering (such as the use of a hat) over the treated areas should be used. Sunscreen use is an essential aspect of melasma therapy, as even minimal sunlight sustains melanocytic activity. Weather extremes, such as heat or cold, may be irritating to patients treated with TRI-LUMA Cream. Because of the drying effect of this medication, a moisturizer may be applied to the face in the morning after washing. Application of TRI-LUMA Cream should be kept away from the eyes, nose, or angles of the mouth, because the mucosa is much more sensitive than the skin to the irritant effect. If local irritation persists or becomes severe, application of the medication should be discontinued, and the health care provider consulted. Allergic contact dermatifis, bitstering, crusting, and severe burning or swelling of the skin and irritation of the mucous membranes of the eyes, nose, and mouth require medical attention. If the medication is applied excessively, marked redness, peeling, or discomfort may occur.
This medication is to be used as directed by the health care provider and should not be used for any disorder other than that for which it is prescribed.

which it is prescribed.

Laboratory Tests: The following tests may be helpful in evaluating patients for HPA axis suppression

ACTH or cosyntropin stimulation test

A.M. plasma cortisol test

Urinary free cortisol test

Drug Interactions: Patients should avoid medicated or abrasive soaps and cleansers, soaps and cosmetics with drying effects, products with high concentration of alcohol and astringent, and other irritants or keratolytic drugs while on TRI-LUMA Cream treatment. Patients are cautioned on concomitant use of medications that are known to be photosensitizing.

Carcinogenesis, Mulagenesis, Impairment of Fertility: Long-term animal studies to determine the carcinogenic potential of TRI-LUMA Cream have not been conducted.

Studies of hydroquinone in nimals have demonstrated some evidence of carcinogenicity. The carcinogenic potential of hydroquinone in humans is unknown.

vydroquinone in humans is unknown. Studies in hairless allbin omice suggest that concurrent exposure to tretinoin may enhance the tumorigenic potential of arcinogenic doses of UVB and UVA light from a solar simulator. This effect has been confirmed in a later study in pigmental indic, and dark pigmentation did not overcome the enhancement of photocarcinogenesis by O.5% tretinoin. Although the significance of these studies to humans is not clear, patients should minimize exposure to sunlight or artificial ultraviolet regrifting occurse.

significance of these studies to humans is not clear, patients should minimize exposure to sunlight or artificial ultravolet irradiation sources.

Mutagenicity studies were not conducted with this combination of active ingredients, Published studies have demonstrated that hydroquinone is a mutagen and a clastogen. Treatment with hydroquinone has resulted in positive findings for genetic toxicity in the Ames assay in bacterial strains sensitive to oxidizing mutagens, in in vitro studies in mammalian cells, and in the in vivro mouse micronucleus assay. Tetrition has been shown to be negative for mutageness in the Ames assay. Additional information regarding the genetic toxicity potential of tretinoin and of fluocinolone acetonide is not available.

A dermal reproductive tertility study was conducted in SD rats using a 10-fold dilution of the clinical formutation. No effect was seen on the traditional parameters used to assess fertility, although prolongation of estrus was observed in some temales, and there was a trend towards an increase in pre-and post-implantation loss that was not statistically significant. No adequate study of fertility and early embryonic toxicity of the full-strength drug product has been performed. In a six-month study in milipigs, small testes and severe hypospermia were found when males were treated topically with the full strength drug product.

Prepanacy: Fartagenic Effects. Prepanacy Category C: TRI-LUMA Cream on potential neurologic deficits. It is difficult to interpret the animal studies on teratogenicity with TRI-LUMA Cream, because the availability of the dermal applications in these studies cannot be assured, and comparison with clinical dosing is not possible. There are no adequate and well-controlled studies in pregnant women. TRI-LUMA Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

In the fetus.

Summary Statement on Teratogenic Risk

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TRI-LUMA Cream contains the teratogen, tretinoin, which may cause embryo-fetal death, altered fetal growth, congenital maiformations, and potential neurologic deficits. However, human data have not confirmed an increased risk of these developmental abnormalities when tretinoin is administered by the topical route.

Clinical considerations relevant to actual or potential inadvertent exposure during pregnancy.

In clinical trials involving TRI-LUMA Cream in the treatment of facial melsams, women of child-bearing potential initiated treatment only after having had a negative pregnancy test and used effective birth control measures during therapy. Thus, safety and efficacy of TRI-LUMA Cream in pregnancy, than so to been established, in general, use of drugs should be reduced to a minimum in pregnancy, a patient has been inadvertently exposed to TRI-LUMA Cream in pregnancy, he should be counseled on the risk of teratogenesis due to this exposure. The risk of teratogenesis in the first trimester is theoretically more likely to produce adverse outcome than in later pregnancy.

The prescriber should have the following clinical considerations in making prescribing decisions:

- The potential developmental effects of tretinoin are serious but the risk from topical administration is small.

- Exposure during the period for organogenesis in the first trimester is theoretically more likely to produce adverse outcome than in later pregnancy.

• Exposure during the period for organogenesis in the first trimester is theoretically more likely to produce adverse outcome than in later pregnancy.
• The risk to the mother for not treating melasma should be determined by the physician with the patient. Mild forms of melasma may not necessarily require drug treatment. TRI-LUMA Cream is indicated for the treatment of moderate to severe melasma. Melasma may also be managed with other forms of therapy such as topical hydroquinone in the presence of sunlight avoidance, or stopping the use of hormonal birth control methods. If possible, delaying treatment with TRI-LUMA Cream until after delivery should be considered.
• There are no adequate and well-controlled studies in pregnant women. TRI-LUMA Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
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. Human Data.

In clinical trials involving TRI-LUMA Cream in the treatment of facial melasma, women of child-bearing potential initiated treatment only after having had a negative pregnancy test, and used effective birth control measures during therapy. However, 15 women became pregnant during treatment with TRI-LUMA Cream. Of these pregnancies, 6 resulted in healthy babies, 6 outcomes still unknown, 2 were reported as miscarriages, and 1 case was lost to follow-up. Epidemiologic studies have not confirmed an increase in birth defects associated with the use of topical tretinoin. However, there may be limitations to the sensitivity of epidemiologic studies in the detection of certain forms of fetal injury, such as subtle neurologic or intelligence deficits.

2. Animal Data.
 In a dermal application study using TRI-LUMA Cream in pregnant rabbits, there was an increase in the number of in utero

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