

oan showed me the muddy pigmentation on the side of her neck.

ROCKOFF, M.D.

explained. "It's called poikiloderma, but it's basically chronic sun damage." I was about to

UNDER MY SKIN 'I Know Why I Got This'

launch into one of my riveting discourses on Greek etymology and the life and times of Jean Civatte, but Joan interrupted.

"I got this from my perfume," she said. "It made me irritated and changed my skin. First it was just on one side, but now it's on both.'

Of course, this made no sense and ran counter to what I had just said, but I've learned not to contradict patients when they explain how things happened to them.

I make exceptions only when countering their theory promises to make a real difference, and even then it's an uphill battle.

Connie got MRSA 2 years ago and was worried she had it again. In fact, all she had was a cyst on her back, but she knew for sure how she'd gotten MRSA the first time.

"My husband used clothes from the gym," she explained, certain my student and I would be appalled, which of course we made a polite show of being. "Never mind towels," she went on. "They even cleaned jockstraps and let clients use them. Can you imagine?" We couldn't.

I expressed surprise that in an athletic culture certain that sweat conveys all kinds of health evils, they would lend out used clothing. "I sure don't let my husband do that anymore," she said. We sighed with relief.

Then there was Ron, who presented with rosacea all over his face. He too knew just how he got it. "I put tretinoin

Vehicle

ALDARA[®]

[al dar' a] Cream, 5%

(imiquimod)

Brief Summary of Prescribing Information See Package Insert for Full Prescribing Information

To report SUSPECTED ADVERSE REACTIONS, contact Graceway Pharmaceuticals, LLC at 1-800-328-0255 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

1 INDICATIONS AND USAGE

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1.1 Actinic Keratosis Aldara Cream is indicated for the topical treatment of clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or scalp in immunocompetent adults.
1.2 Superficial Basal Cell Carcinoma Aldara Cream is indicated for the topical treatment of biopsyconfirmed, primary superficial basal cell carcinoma (8BCC) in immunocompetent adults, with a maximum tumor diameter of 2.0 cm, located on the trunk (excluding anogenital skin), neck, or extremities (excluding hands and feet), only when surgical methods are medically less appropriate and patient follow-up can be reasonably assured. The histological diagnosis of <u>superficial</u> basal cell carcinoma should be established prior to treatment, since sately and efficacy of Aldara Cream is indicated for the ne setablished for other types or basal cell carcinomas, including nodular and morpheaform (fibrosing or sclerosing) types. 1.3 External Genital Warts Aldara Cream is indicated for the treatment of exclaral genital and perianal warts/condyloma acuminata in patients 12 years or older. 1.4 Limitations of Use Aldara Cream is aluet in children ages 2 to 12 years with molluscum contagiosum and these studies failed to demonstrate efficacy (*See Use in Specific Populations (8.4)*). 1.5 Unevaluated Populations The safety and efficacy of Aldara Cream in internits with pre-existing autoimmune conditions. The efficacy and safety of Aldara Cream have not been established for patients the wear to been established of patients (Cell Nevus Syndrome or Xeroderma Pigmentosum. 4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5 WARNINGS AND PRECAUTIONS
5.1 Local Inflammatory Reactions Intense local inflammatory reactions including skin weeping or erosion can occur after few applications of Aldara Cream and may require an interruption of dosing. *Isee Dosage and Administration (2)* and Adverse Reactions (6). I Adara Cream has the potential to exacerbate inflammatory conditions of the skin, including chronic graft versus host disease. Administration of Aldara Cream has the potential to exacerbate inflammatory conditions of the skin, including chronic graft versus host disease. Administration of Aldara Cream is not recommended until the skin is completely healed from any previous drug or surgical iretament. 5: **25 ystemic Reactions** Flui-like signs and symptoms may accompany, or even precede, local inflammatory reactions and may include malaise, fever, nausea, myalgias and rigors. An interruption of dosing should be considered. *Jese Adverse Reactions* (6) **15.3 Ultraviolet Lignes Exposure** Foxposure to sunlight (including sunlamps) should be avoided or minimized during use of Aldara Cream because of concern for heightened sunburn susceptibility. Patients should be advised not to use Aldara Cream Unit I fully recovered. Patients with sunburn should be advised not to use Aldara Cream. Aldara Cream. Shortherd Hit time to skin tumor formation in an animal photoco-carcinogenicity study *[see Nonclinical Toxicology (13.1)]*. The enhancement of ultraviolet carcinogenicity is not necessarily dependent on phototoxic mechanisms. Therefore, patients should minimize or avoid natural or artificial sunlight exposure. **5.4 Unevaluated Uses: Actionis Kratosis** skind yand efficacy have not been established for Aldara Cream in the treatment of actinic keratosis sharty and efficacy have not been established for Aldara Cream in the treatment of addinic keratosis sharty nee ensets than 25 cm² (e.g., 5 cm X 5 cm) for the treatment of actinic keratosis sharty nee ensets and fifticas prevaluated Uses: **Superificial Basal Cell Carcinoma**. The safe pgy (12.3)]. **5.5 Unevaluated Uses: Superficial Basal Cell Carcinoma** The safety and efficacy Prantacology (12.3), 5.0 Unevaluated uses: Superincial basis clein Carcinoma The safety and elimicacy of Aldrac Cream have not been established for other types of basis cleil carcinomas (BCC), including nodular and morpheaform (fibrosing or sclerosing) types. Aldara Cream is not recommended for treatment of BCC subtypes other than the superficial variant (1.e., sBCC). Patients with sBCC treated with Aldara Cream should have regular follow-up of the treatment site. [see Clinical Studies (14.2)]. The safety and efficacy of treating sBCC lesions on the face, head and anogenital area have not been established. 5.6 Unevaluated Uses: External Genital Warts Aldara Cream has not been evaluated for the treatment of urethral, intra-vaginal, cervical, rectal, or intra-anal human papilloma viral disease. 6 ADVERSE REACTIONS

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed becase clinical trials of a drug cannot be directly compared to rates in the clinical trials of backet marks observed in may not reflect the rates observed in practice. **6.1 Clinical Trials Experience: Actinic Keratosis** The data described below reflect exposure to Aldara Cream or vehicle in 436 subjects enrolled in two double-blind, vehicle-controlled studies. Subjects applied Aldara Cream or vehicle to a 25 cm² contiguous treatment area on the face or scalp 2 times per week for 16 weeks.

Table 2: Selected Adverse Reactions Occurring in >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Actinic Keratosis)

Preferred Term	Aldara Cream (n=215)	Vehicle (n=221)
Application Site Reaction	71 (33%)	32 (14%)
Upper Resp Tract Infection	33 (15%)	27 (12%)
Sinusitis	16 (7%)	14 (6%)
Headache	11 (5%)	7 (3%)
Carcinoma Squamous	8 (4%)	5 (2%)
Diarrhea	6 (3%)	2 (1%)
Eczema	4 (2%)	3 (1%)
Back Pain	3 (1%)	2 (1%)
Fatigue	3 (1%)	2 (1%)
Fibrillation Atrial	3 (1%)	2 (1%)
Infection Viral	3 (1%)	2 (1%)
Dizziness	3 (1%)	1 (<1%)
Vomiting	3 (1%)	1 (<1%)
Urinary Tract Infection	3 (1%)	1 (<1%)
Fever	3 (1%)	0 (0%)
Rigors	3 (1%)	0 (0%)
Alopecia	3 (1%)	0 (0%)

	•	,	
Included Term	Aldara Cream n=215	Vehicle n=221	
Itching	44 (20%)	17 (8%)	
Burning	13 (6%)	4 (2%)	
Bleeding	7 (3%)	1 (<1%)	
Stinging	6 (3%)	2 (1%)	
Pain	6 (3%)	2 (1%)	
Induration	5 (2%)	3 (1%)	
Tenderness	4 (2%)	3 (1%)	
Irritation	4 (2%)	0 (0%)	
Local skin reactions were collected i effort to provide a better picture of	ndependently of the adverse reaction "application the specific types of local reactions that might	on site reaction" in a nt be seen. The mos	

Table 3: Application Site Reactions Reported by >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Actinic Keratosis)

request to provide a better picture or the specific types of local reactions that might be seen. The most frequently reported local skin reactions were erythema, flaking/scaling/dryness, and scabbing/crusting The prevalence and severity of local skin reactions that occurred during controlled studies are shown in the following table. ing tab

Table 4: Local Skin Reactions in the Treatment Area as Assessed by the Investigator (Actinic Keratosis) Aldara Crean

	(n=215)		(n=220)	
	All Grades*	Severe	All Grades*	Severe
Erythema	209 (97%)	38 (18%)	206 (93%)	5 (2%)
Flaking/Scaling/Dryness	199 (93%)	16 (7%)	199 (91%)	7 (3%)
Scabbing/Crusting	169 (79%)	18 (8%)	92 (42%)	4 (2%)
Edema	106 (49%)	0 (0%)	22 (10%)	0 (0%)
Erosion/Ulceration	103 (48%)	5 (2%)	20 (9%)	0 (0%)
Weeping/Exudate	45 (22%)	0 (0%)	3 (1%)	0 (0%)
Vesicles	19 (9%)	0 (0%)	2 (1%)	0 (0%)

*Mild. Moderate. or Severe

Aj Hi Ba Uj Ri

L) Fa Si Di Ci Fe Di Al Pl Ci

Erythe Flaking Indura Scabb Edema Erosio Ulcera Vesicle

The adverse reactions that most frequently resulted in clinical intervention (e.g., rest periods, withdrawal from study) were local skin and application site reactions. Overall, in the clinical studies, 2% (5/215) of The adverse reaction from study) were local skin and application site reactions. Overall, in the clinical studies, 2% (5/215) of subjects discontinued for local skin/application site reactions. Of the 215 subjects treated, 35 subjects (16%) on Aldara Cream and 30 220 subjects (1%) on vehicle cream had at least one rest period. Of these Aldara Cream subjects, 32 (91%) resumed therapy after a rest period. In the AK studies, 22 of 678 (3.2%) of Aldara-treated subjects developed treatment site infections that required a rest period off Aldara Cream and were treated with antibiotics (19 with rot and a) with topical). Of the 206 Aldara subjects with both baseline and 8-week post-treatment scarring assessments, 6 (2.9%) had a greater degree of scarring scores at 8-weeks post-treatment than at baseline. **6.2** Clinical Trials **Experience: Supericial Basal Cell Carcinoma The data described below reflect exposure to Aldara Cream or vehicle in 364 subjects while in two double-blind, vehicle-controlled studies. Subjects applied Aldara Cream or vehicle 5 times per week for 6 weeks. The incidence of adverse reactions reported by >1% of subjects during the studies is summarized below.** d hel

Table 5: Selected Adverse Reactions Reported by >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Superficial Basal Cell Carcinoma)

eferred Term	Aldara Cream (n=185) N %	Vehicle (n=179) N %
oplication Site Reaction	52 (28%)	5 (3%)
adache	14 (8%)	4 (2%)
ack Pain	7 (4%)	1 (<1%)
oper Resp Tract Infection	6 (3%)	2 (1%)
ninitis	5 (3%)	1 (<1%)
mphadenopathy	5 (3%)	1 (<1%)
tique	4 (2%)	2 (1%)
nusitis	4 (2%)	1 (<1%)
/spepsia	3 (2%)	2 (1%)
bughing	3 (2%)	1 (<1%)
ver	3 (2%)	0 (0%)
zziness	2 (1%)	1 (<1%)
nxiety	2 (1%)	1 (<1%)
naryngitis	2 (1%)	1 (<1%)
nest Pain	2 (1%)	0 (0%)
ausea	2 (1%)	0 (0%)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1.1

The most frequently reported adverse reactions were local skin and application site reactions including erythema, edema, induration, erosion, flaking/scaling, scabbing/crusting, itching and burning at the application site. The incidence of application site reactions reported by >1% of the subjects during the 6-week treatment period is summarized in the following table.

Table 6: Application Site Reactions Reported by >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Superficial Basal Cell Carcinoma)

cluded Term	Aldara Cream n=185	Vehicle n=179
hing	30 (16%)	1 (1%)
rning	11 (6%)	2 (1%)
in	6 (3%)	0 (0%)
eding	4 (2%)	0 (0%)
/thema	3 (2%)	0 (0%)
pule(s)	3 (2%)	0 (0%)
nderness	2 (1%)	0 (0%)
ection	2 (1%)	0 (0%)

Local skin reactions were collected independently of the adverse reaction "application site reaction" in an effort to provide a better picture of the specific types of local reactions that might be seen. The prevalence and severity of local skin reactions that occurred during controlled studies are shown in the following table. Table 7: Local Skin Reactions in the Treatment Area as Assessed by the Investigator

		Aldara Cream n=184		Vehicle n=178
	All Grades*	Severe	All Grades*	Severe
ma	184 (100%)	57 (31%)	173 (97%)	4 (2%)
g/Scaling	167 (91%)	7 (4%)	135 (76%)	0 (0%)
tion	154 (84%)	11 (6%)	94 (53%)	0 (0%)
ing/Crusting	152 (83%)	35 (19%)	61 (34%)	0 (0%)
ı Ö	143 (78%)	13 (7%)	64 (36%)	0 (0%)
n	122 (66%)	23 (13%)	25 (14%)	0 (0%)
tion	73 (40%)	11 (6%)	6 (3%)	0 (0%)
es	57 (31%)	3 (2%)	4 (2%)	0 (0%)

"That has a fancy name," I on my temple and it irritated it," he said. "Now I have this rash."

I could, of course, have pointed out how these explanations are inaccurate and don't even work on their own terms. I might have told Joan that her skin changes preceded her use of the offending perfume, or that irritation doesn't cause permanent damage. I could have explained to Connie that sweat and dirt are not the same as Staphylococcus, penicillin-sensitive or not, and that in any event her husband now uses home-cleaned athletic supporters. I might have observed to Ron that irritating your temple in June doesn't leave you with pimples all over your face in September. But there wouldn't have been much point. What is wonderful about patients' self-explanations is both their power and their splendid inconsistency. A certain cream caused a reaction here but not there, now but not then.

Pointing out these contradictions generally doesn't help. Saying, "I've prescribed clindamycin gel for 30 years and I never saw it cause that," convinces nobody. After all, it happened to me now, didn't it?

Just as they often fail at changing political beliefs, arguments do little to dislodge explanatory models of health and disease. The general principles of these models are easy enough to catalog: Trauma causes irritation, irritation causes permanent damage, dirt causes infection, and so on.

My own conviction, in and out of the office, is that arguing to win a point is a waste of breath. The only times I try to counter, or at least adjust, patients' health beliefs are when holding on to these beliefs will make their lives worse or more complicated than necessary, or when the patients blame their problems on me.

Examples of the former are patients who stop a crucial medicine because they think their rash or hair loss is a reaction to it, who stop exercising because they've read it aggravates rosacea, or who won't polish their nails because they think pol-

The adverse reactions that most frequently resulted in clinical intervention (e.g., rest periods, withdrawal from study) were local skin and application site reactions; 10% (19/185) of subjects received rest periods. The average number of doses not received per subject due to rest periods was 7 doses with a range of 2 to 22 doses; 79% of subjects (15/19) resumed therapy after a rest period. Overali, in the clinical studies, 2% (4/185) of subjects discontinued for local skin/application site reactions. In the sBCC studies, 17 of 1266 (1.3%) Aldara-treated subjects developed treatment site infections that required a rest period and treatment with antibiotics. **6.3 Clinical Trials Experience: External Genital Warts** in controlled clinical trials for genital warts, the most frequently reported adverse reactions. Were local skin and application site reactions. Some subjects also reported systemic reactions. Overall, 1.2% (4/327) of the subjects discontinued due to local skin/application site reactions. The incidence and severity of local skin reactions were table. during controlled clinical trials are shown in the following table

Table 8: Local Skin Reactions in the Treatment Area as Assessed by the Investigator

(External Genital Warts)									
	Aldara Cream			Vehicle					
	Females n=114		Male n=15	Males n=156		Females n=99		Males n=157	
	All Grades*	Severe	All Grades*	Severe	All Grades*	Severe	All Grades*	Severe	
Erythema	74 (65%)	4 (4%)	90 (58%)	6 (4%)	21 (21%)	0 (0%)	34 (22%)	0 (0%)	
Erosion	35 (31%)	1 (1%)	47 (30%)	2 (1%)	8 (8%)	0 (0%)	10 (6%)	0 (0%)	
Excoriation/ Flaking	21 (18%)	0 (0%)	40 (26%)	1 (1%)	8 (8%)	0 (0%)	12 (8%)	0 (0%)	
Edema	20 (18%)	1 (1%)	19 (12%)	0 (0%)	5 (5%)	0 (0%)	1 (1%)	0 (0%)	
Scabbing	4 (4%)	0 (0%)	20 (13%)	0 (0%)	0 (0%)	0 (0%)	4 (3%)	0 (0%)	
Induration	6 (5%)	0 (0%)	11 (7%)	0 (0%)	2 (2%)	0 (0%)	3 (2%)	0 (0%)	
Ulceration	9 (8%)	3 (3%)	7 (4%)	0 (0%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	
Vesicles	3 (3%)	0 (0%)	3 (2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	

*Mild, Moderate, or Severe Remote site skin reactions were also reported. The severe remote site skin reactions reported for female

Nemicle site shift reactions were also reported. The severe reminde site shift reactions reported to reminates were erythema (3%), ulceration (2%), and edema (1%), and for males, erosion (2%), and erythema, edema, induration, and excontation/flaking (each 1%). Selected adverse reactions judged to be probably or possibly related to Aldara Cream are listed below. Table 9: Selected Treatment Related Reactions (External Genital Warts)

	Famalaa Malaa				
	Fem	ales	imaies		
	Aldara Cream n=117	Vehicle n=103	Aldara Cream n=156	Vehicle n=158	
Application Site Disorders:					
Application Site Reactions					
Wart Site:					
Itching	38 (32%)	21 (20%)	34 (22%)	16 (10%)	
Burning	30 (26%)	12 (12%)	14 (9%)	8 (5%)	
Pain	9 (8%)	2 (2%)	3 (2%)	1 (1%)	
Soreness	3 (3%)	0 (0%)	0 (0%)	1 (1%)	
Fungal Infection*	13 (11%)	3 (3%)	3 (2%)	1 (1%)	
Systemic Reactions:					
Headache	5 (4%)	3 (3%)	8 (5%)	3 (2%)	
Influenza-like symptoms	4 (3%)	2 (2%)	2 (1%)	0 (0%)	
Myalgia	1 (1%)	0 (0%)	2 (1%)	1 (1%)	

cidences reported without regard to causality with Aldara Crean

 Myajja
 1(1%)
 0(0%)
 2(1%)
 1(1%)

 * Incidences reported without regard to causality with Aldara Cream.

 Adverse reactions judged to be possibly or probably related to Aldara Cream and reported by more than 1% of subjects included: Application Site Disorders: burning, hypopigmentation, irritation, itching, pain, rash, sensitivity, soreness, stinging, tenderness.

 Readress, timea cruris Body as a Whole: fatigue, fever, influenza-like symptoms Central and Peripheral Nervous System Disorders: headache Gastro-Intestinal System Disorders: durines: molecular clause intration, and applications is the ractions were reported in the clinical studies (see Adverse Reactions (6)).

 Potential for Addrar Cream to cause irritation, and applications is the ractions were reported in the clinical studies (see Adverse Reactions (6)).
 6.5 Postmarketing Experience: Duringia diverse reactions have been identified during post-aproval use of Aldara Cream. Because these reactions are reported voluntarily from apopulation of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Body as a Whole: angioedema. Cardiovascular. capillary leak syndrome, cardia failure, cardiomyopathy, pulmonary dema, arrhythmias (tachycardia, atrial fail fail failution), palpitations), chest pain, ischemia, myocardial infarction, syncope. Endocrine: thyroiditis. Hematological: decreases in red cell, white cell and platelet counts (including idiopathic tromoborytopenic purpura), lymphoma Hepatite: angiotedema. Cardiovascular accident, comuliation (failor febrile convulsions), depression, insomnia, multiple sclerosis aggravation, paresis, suicide. Respiratory dyspea. Urinary System Disorders: proteinuria. Skin and Appendages: extoliatito dermatis: syndrome

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy Pregnancy Category C: Note: The Maximum Recommended Human Dose (MRHD) was set at 2 packets per treatment of Aldara Cream (25 mg imiquimod) for the animal multiple of human exposure ratios presented in this label. If higher doses than 2 packets of Aldara Cream are used clinically, then the animal multiple of human exposure would be reduced for that dose. A non-proportional increase in systemic concernment of Aldara Cream was patient in the clinical pharmachitetic study conducted in the clinical pharmachitetic study condu animal multiple of human exposure "would be reduced for that dose. A non-proportional increase in systemic exposure with increased dose of Aldara Cream was noted in the clinical pharmacokinetic study conducted in actinic keratosis subjects [See Clinical Pharmacology (12.3)]. The AUC after topical application of 6 packets of Aldara Cream was 8 fold greater than the AUC after topical application of 2 packets of Aldara Cream in actinic keratosis subjects. Therefore, if a dose of 6 packets per treatment of Aldara Cream was topically administered to an individual, then the animal multiple of human exposure would be either 1/3 of the value provided in the label (based on body surface area comparisons) or 1/8 of the value provided in the label (based on AUC comparisons). The animal multiples of human exposure would be either of aldara come for the carcinogenicity studies described in this label. The animal multiples of human exposure calculations were based on weakly dose comparisons were based on daily dose comparisons for the reproductive toxicology studies described in this label. Systemic embryofetal development studies were conducted in rats and rabbits. Oral doses of 1, 5 and 20 mg/kg/day imiquimod were administered during the period of organogenesis (gestational days 6 – 15) to pregnant female rats. In the presence of maternal toxicity, fetal effects noted at 20 mg/kg/day is inskelad. female rats. In the presence of maternial toxicity, fetal effects noted at 20 mg/kg/day (577X MRHD based on AUC comparisons) included increased resorptions, decreased fetal body weights, delays in skeletal ossification, bent limb bones, and two fetuses in one litter (2 of 1567 fetuses) demonstrated exencephaly, protruding tongues and low-set ears. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 5 mg/kg/day (98X MRHD based on AUC comparisons). Intravenous doese of 0.5, 1 and 2 mg/kg/day imiquimod were administered during the period of organogenesis (gestational days 6 – 18) to pregnant female rabbits. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 2 mg/kg/day (15.X MRHD based on BAC comparisons). A combined fertility and peri- and post-natal development study was conducted in rats. Oral doese of 1, 1.5, 3 and 6 mg/kg/day imiquimod were administered to male rab from 70 days prior to mating through the mating period and to female ras from 14 days prior to mating through parturition and lactation. No effects on growth, fertility, reproduction or post-natal development were noted at doses up to 6 mg/kg/day (87X MRHD based on AUC comparisons), the highest dose evaluated in this study. In the absence of maternal toxicity, bent limb bones were noted in the F1 fetuses at a dose of 6 mg/kg/day (87X MRHD based on AUC comparisons). This fetal effect was also noted in the oral rat embryofetal development study conducted with imiguimod. No treatment related effects on teratogenicity were noted at 3 mg/kg/day (41X MRHD based on AUC comparisons). There are no adequate and well-controlled studies in pregnant women. Adraa Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. **8.3 Nursing Mothers** It is not known whether imiguimod is excreted in human milk following use of Aldrar Gream. Because many drugs are excreted in human milk, caution should be excreised when Addra Cream. Because many drugs are excreted in human milk, caution should be excreised when Addra Cream. Because many drugs are excreted in human milk, caution should be excreised when Addra Cream. Because many drugs are excreted in human milk, caution should be excreised when Addra Cream set of banks are not been established. Addra Cream for XG reBCC in patients less than 18 years of age have not been established. Addra Cream raves evaluated in two randomized, whiche-controlled, double-bilnd trials involving 702 pediatric subjects with molluscum contagiosum (MC) (470 exposed to Aldrar; median age 5 years; range 2-12 years). Subjects applied Aldraa Cream group compared with 28% (55/126) in the vehicle group. These studies tailed to demonstrate efficacy. Similar to the studies conducted in adults, the most frequently reported adverse reaction from 2 studies in indications approved for adults and also included othis media (5% Aldrar vs. 3% vehicle) and conjunctivitis (3% Aldrar vs. 2% vehicle). Erythema was the most frequently reported local skin reaction. Severe local skin reactions approved for adults and also include area was abelieved to 22 subjects aged 2 to 12 years with extensive MC. (bively), sathting reactions at the end of 10 OVERDOSAGE

<u>Topical</u> overdosing of Aldara Cream could result in an increased incidence of severe local skin reactions and may increase the risk for systemic reactions. The most clinically serious adverse event reported following multiple oral imiquimod doses of >200 mg (equivalent to imiquimod content of >16 packets) was hypotension, which resolved following oral or intravenous fluid administration.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility In an oral (gavage) rat carcinogenicity study, imiquimod was administered to Wistar rats on a 2X/week (up to 6 mg/kg/day) or daily (3 mg/kg/day) dosing schedule for 24 months. No treatment related tumors were noted in the oral rat carcinogenicity study up to the highest doses tested in this study of 6 mg/kg administered 2X/week in male rats (37X MRHD based on weekly AUC comparisons), 4 mg/kg administered 2X/week in male rats (37X MRHD based on weekly AUC comparisons). In a dermal mouse carcinogenicity study attrast (153X MRHD based on weekly AUC comparisons). In a dermal mouse carcinogenicity study attrast (153X MRHD based on weekly AUC comparisons). In a dermal mouse carcinogenicity study care mg/kg/application imiguimod or 0.3% imiguimod cream was applied to the backs of mice 3X/week for 24 months. A statistically cardinate relation at the and remain rate (153X MRHD based on weekly AUC comparisons). Imiguined or 0.3% imiguined cream) was applied to the back of mice 3X/week for 24 months. A statistically significant increase in the incidence of liver adenomas and carcinomas was noted in high dose male mice compared to control male mice (2511 MRHO based on weekly AUC comparisons). An increased number of skin papillomas was observed in vehicle cream control group animals at the treated site only. The quantitative composition of the vehicle cream used in the dermal mouse carcinogenicity study is the same as the vehicle cream used for Aldrar Caream, minus the active moiety (imiquinod). In a 52-week dermal photoco-carcinogenicity study, the median time to onset of skin tumor formation was decreased in hairless mice following chronic topical dosing (3X/week; 40 weeks of treatment followed by 12 weeks of observation) with concurrent exposure to UV radiation (5 days per week) with the Aldrar Cream vehicle alone. No additional effect on tumor development beyond the vehicle effect was noted with the addition of the active ingredient, imiquinod, to the vehicle cream. Iniquiumd revealed no evidence of mutagenic or clastogenic potential based on the results of five in vitro genotoxicity tests (fame sasay, mouse lymphoma L5178Y assay, Chinese hamster ovary cell chromosome aberration assay, and He in one protoxicity tests (rat and hamster bore marrow cytogenetics out mating

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ish will seal in the fungus infection they don't have. Examples of the latter are the Rons of this world to whom I prescribed tretinoin. ("Well, of course I got this rash from tretinoin, doctor. I never had the rash before, did I?")

Although debates are sometimes worth having, they are still hard to win. Often the best you can do is negotiate a compromise. ("OK, we won't use tretinoin, we'll use adapalene.") When the stakes are higher ("You scarred me for life, you bum!"), it's time to call your insurer.

DR. ROCKOFF practices dermatology in Brookline, Mass. To respond to this column, write Dr. Rockoff at our editorial offices or email him at sknews@elsevier.com.

LETTERS

Collective Work of Physician Writers

I read your article on Dr. Daniel C. Bryant with great interest ("Revering the Work of Physician Writers," October 2008, p. 70).

My father, Benjamin Bernard Weinstein, M.D., established three collections of works by physician writers at three different medical schools. The largest is at the Tulane Medical School Library. He collected books for these collections until his death.

I had to laugh when Dr. Bryant mentioned William Carlos Williams because Williams was always the first example of a physician author that my father cited—along with Sir Arthur Conan Doyle.

When I traveled to England with my father, we spent many hours shopping for books. The article brought back many memories from my childhood.

Frederick G. Weinstein, M.D. Timonium, Md.

Correction

In "Hypertension Meds May Lower BCC, SCC Risk" (SKIN & ALLERGY



This is the



DR. JENNIFER B. CHRISTIAN correct pho-

to of Dr. Christian, who is with the Providence (Rhode Island) VA Medical Center and Brown University.

LETTERS

Letters in response to articles in SKIN & ALLERGY NEWS and its supplements should include your name and address, affiliation, and conflicts of interest in regard to the topic discussed. Letters may be edited for space and clarity.

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