18

Study: HIV Screening in Pregnancy Falls Short

BY KATE JOHNSON

MONTREAL — HIV screening of pregnant women falls well short of national guidelines, particularly among patients seen in private practice, according to a study presented at the annual meeting of the Infectious Diseases Society for Obstetrics and Gynecology.

We have to really reinforce with all providers the importance of universal

screening," said Dr. Harold Wiesenfeld, senior investigator of the study, which found that patients were 17.5 times less likely to undergo screening in private practice than were those in a clinic setting.

The study of 300 women revealed that 61% had no HIV screening results in their medical record at the time of parturition.

Guidelines adopted in 1999 by the In-

ALDARA[®] (imiquimod) Cream, 5%

Brief Summary of External Genital Wart Prescribing Information See Package Insert for Full Prescribing Information

INDICATIONS AND USAGE: External Genital Warts: Aldara Cream is indicated for the treatment of extern genital and perianal warts/condyloma acuminata in patients 12 years or older. Unevaluated Population: The safety and efficacy of Aldara Cream in immunosuppressed patients have not been established. Alda Cream should be used with caution in patients with pre-existing autoimmune conditions. Efficacy an safety of Aldara Cream have not been established for patients with Basal Cell Nevus Syndrome of Xeroderma Pigmentosum.

CONTRAINDICATIONS: None

CONTRAINDICATIONS: None. WARNINGS AND PRECAUTIONS: 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. 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 treatment. Systemic Reactions: Full 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. Ultraviolet Light Exposure: Exposure to sunlight (including sunlamps) should be avoided or minimized during use of Aldara Cream because of concern for heightened sunburn susceptibility. Patients should be wared to use protective coltains (e.g. a bat) when using Aldara Cream. Patients with sunburn should be advised use protective clothing (e.g., a hat) when using Aldara Cream. Patients with sunburn should be advised not to use Aldara Cream until fully recovered. Patients who may have considerable sun exposure, e.g., due to their occupation, and those patients with inherent sensitivity to sunlight should exercise caution when using Aldara Cream. Aldara Cream shortened the time to skin tumor formation in an animal photococarcinogenicity study. The enhancement of ultraviolet carcinogenicity is not necessarily dependent on phototoxic mechanisms. Therefore, patients should minimize or avoid natural or artificial sunlight exposure. **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.

ADVERSE REACTIONS: Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. 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 stemic reactions. Overall, 1.2% (4/327) of the subjects discontinued due to local skin/application site ctions. The incidence and severity of local skin reactions during controlled clinical trials are shown in the following table.

Table 1: Local Skin Reactions in the Treatment Area as Assessed by the Investigator

 External Genital	warts)	

	Aldara Cream			Vehicle				
	Females n=114		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/	21 (18%)	0 (0%)	40 (26%)	1 (1%)	8 (8%)	0 (0%)	12 (8%)	0 (0%)
Flaking								
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 Mode	rate or Sever	a						

Remote site skin reactions were also reported. The severe remote site skin reactions reported for females were erythema (3%), ulceration (2%), and edema (1%); and for males, erosion (2%), and erythema, edema, induration, and excoriation/flaking (each 1%). Selected adverse reactions judged to be probably or possibly related to Aldara Cream are listed below.

Table 2: Selected Treatment Related Reactions	(External Genital Warts)
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	Fem	ales	Males		
	Aldara Cream	Vehicle	Aldara Cream	Vehicle	
	n=117	n=103	n=156	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%)	
*Incidences reported without re	gord to coupolity with	Aldara Croom	. ,	. ,	

*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. Remote Site Reactions: bleeding, burning, itching, pain, tenderness, tinea cruits. Body as a Whole: fatigue, fever, influenza-like symptoms. Central and Peripheral Nervous System Disorders: headache. Gastro-Intestinal System Disorders: clarinea. Musculo-Skeletal System Disorders: myalgia. Clinical Trials Experience: Dermal Safety Studies Provocative repeat insult patch test studies involving induction and challenge phases produced no evidence that Aldara Cream causes photoallergenicity or contact sensitization in healthy skin; however, cumulative irritancy testing revealed the potential for Aldara Cream to cause irritation, and application site reactions were reported in the clinical studies. Declarementers: The following adverse reactions Paus hean identified during nock: potential for Aldara Cream to cause irritation, and application site reactions were reported in the clinical studies. **Postmarketing Experience:** The following adverse reactions have been identified during post-approval use of Aldara Cream. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to Medicine.

drug exposure. Body as a Whole: angioedema. Cardiovascular: capillary leak syndrome, cardiac failure, cardiomyopathy, pulmonary edema, arrhythmias (tachycardia, atrial fibrillation, palpitations), chest pain, ischemia, myocardial infarction, syncope. Endocrine: thyroidilis. Hematological: decreases in red cell, white cell and platelic counts (including idiopathi trombocytopenic purpura), lymphoma. Hepatic: anhormal liver function. Neuropsychiatric: agitation, cerebrovascular accident, convulsions (including febrile convulsions), depression, insomnia, multiple sclerosis aggravation, paresis, suicide. Respiratory: dyspnea. Urinary System Disorders: proteinuria. Skin and Appendages: extollative dermatitis, erythema multiforme, hyperpigmentation. Vascular: Henoch-Schonlein purpura syndrome.

USE IN SPECIFIC POPULATIONS: Pregnancy: Pregnancy Category C: 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 (577X MRHD based on AUC best imiquimod were administered uring the period of organogenesis (gestational days 6 – 15) to pregnant female rats. In the presence of maternal toxicity, tetal 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 doses of 0.5, 1 and 2 mg/kg/day (inguimod 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 5 mg/kg/day (98X MRHD based on AUC comparisons). In thighest dose evaluated in this study, or 1 mg/kg/day (407X MRHD based on BSA comparisons). A combined fertility and peri- and post-natal development study was conducted in rats. Oral doses of 1, 1.5, 3 and 6 mg/kg/day inniguimod were administered to male rats from 70 days prior to mating through the mating period and to female rats 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 the fra fluxess 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 iniquimod. No treatment related effects on etatogenicity were noted at 3 mg/kg/day (41X MRHD based cream budb the used during pregnanoy only if the potential benefit justifies the potential risk to the fetus. **Nursing Mothers:** It is not known whether imiquimod is excreted in human milk (following use of Aldara Cream is administered to nursing women. Pediatric **Uses**: Staty and efficacy in patients with exter MC involving at least 10% of the total body surface area was observed after single and multiple doses at a dosing frequency of 3 applications per week for 4 weeks. The investigator determined the dose applied, either dosing frequency of 3 applications per week for 4 weeks. The investigator determined the dose applied, either 1, 2 or 3 packets per dose, based on the size of the treatment area and the subjects weight. Among the 20 subjects with evaluable laboratory assessments, the median WBC count decreased by 14.10/N. and the median absolute neutrophil count decreased by 1.42'10/N. **Ceriatric Use**: Of the 215 subjects treated with Aldrar Cream in the actinic keratosis clinical studies, 127 subjects (59%) were 65 years and older, while 80 subjects (28%) were 75 years and older. Of the 185 subjects treated with Aldrar Cream in the superficial basel cell carcinoma clinical studies, 65 subjects (35%) were 65 years and older, while 80 were 75 years and older. No overal differences in safety or effectiveness were observed between these subjects and younger subjects. No other clinical experience has identified differences in responses between the elderly and younger subjects, but greater sensitivity of some older individuals cannot be ruled out.

eactions 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.

18 years of age and older withgenital/perianal warts were treated with Aldara Cream or vehicle control 3 times per week for a maximum of 16 weeks. The median baseline wart area was 69 mm² (range 8 to 5525 mm²). Data on complete clearance are listed in the table below. The median time to complete wart clearance was 10 weeks.

Treatment	Subjects with Complete Clearance of Warts	Subjects Without Follow-up	Subjects with Warts Remaining at Week 16
Overall			
Aldara Cream (n=109)	54 (50%)	19 (17%)	36 (33%)
Vehicle (n=100) Females	11 (11%)	27 (27%)	62 (62%)
Aldara Cream (n=46)	33 (72%)	5 (11%)	8 (17%)
Vehicle (n=40) Males	8 (20%)	13 (33%)	19 (48%)
Aldara Cream (n=63)	21 (33%)	14 (22%)	28 (44%)
Vehicle (n=60)	3 (5%)	14 (23%)	43 (72%)



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stitute of Medicine, the Centers for Disease Control, the American College of Obstetricians and Gynecologists, and the American Academy of Pediatrics recommend routine, universal HIV screening in pregnancy to avoid vertical transmission, said study presenter Margaret Kennedv.

Ms. Kennedy is a student at the University of Pittsburgh School of

OVERDOSAGE: Topical overdosing of Aldara Cream could result in an increased incidence of severe local skin

CLINICAL STUDIES: In a double-blind, placebo-controlled clinical study, 209 otherwise healthy

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But among the study's subjects, all of whom were questioned up to 72 hours before delivery, only 65% reported undergoing HIV screening during pregnancy, while 25% reported no screening, and 10% were not sure if they had been tested.

Multivariate analysis of the data revealed that being white and married were each independently associated with a threefold greater risk of not being screened.

The provider's influence was the most important factor in screening, said Ms. Kennedy.

Women whose provider did not consider screening important were14 times more likely to be unscreened; those

'My personal opinion is the importance of HIV screening is not stressed in many patient/provider encounters.' Some don't think HIV is relevant to their patient population.

whose providers considered screening optional were 2.9 times more likely to be unscreened.

On the other hand, women whose providers encouraged screening were 3.7 times more likely to have undergone screening.

"My personal opinion is the importance of HIV screening is not stressed in many patient/provider encounters," said Dr. Wiesenfeld.

"Some providers don't think HIV is relevant to their population because they have an affluent population. It mirrors chlamydia screening. They don't think their patients are at risk," the physician related.

A comparison of medical records with subjects' responses revealed some recall bias.

Two percent of those who reported having been tested had actually declined testing.

Of those who reporting no screening, 11% had actually been screened (35% said they had not been offered screening, and 65% said they had declined).

In addition, 17% of those who were unsure had been screened.

"Universal offering of HIV screening as an opt-out, in conjunction with encouragement from providers, may greatly increase prenatal HIV screening rates," Ms. Kennedy said.

"Universal HIV screening is not at the rates we would like across the country," concluded Dr. Wiesenfeld.

'The take-home message is that it's low-but what's more important is who is not being screened. Women who are white, and affluent, and in a private practice center ... are less likely to be screened, as are those who don't feel their provider is encouraging it," he opined.

The investigators said they had no conflicts of interest.