CURRENT & UPCOMING MEETINGS

Advisory Committee on Immunization Practices

Masters of Pediatrics and Masters of Pediatric Dermatology Conference **Eastern Society for Pediatric Research** Miami Children's Hospital: Perspectives in Pediatrics Society for Adolescent Medicine

We Bring You the News

OXISTAT[®] (oxiconazole nitrate cream) Cream, 1%* OXISTAT® (oxiconazole nitrate lotion) Lotion, 1%*

FOR TOPICAL DERMATOLOGIC USE ONLY-NOT FOR OPHTHALMIC OR INTRAVAGINAL USE

DESCRIPTION OXISTAT® (ox contain the antif Tre (axiconazole nitrate cream) Cream, 1% and OXISTAT* (oxiconazole nitrate lotion) Lotion, 1% for e antifungal active compound oxiconazole nitrate. Both formulations are for topical dermatologic ally, oxiconazole nitrate is 27.4.dichtoro-2-initiazo1-1-iyacetophenone (27.6.2.4.dichtoro benz)/i) mpound has the molecular formula C₁₈H₁₃ON₃Cl₄•HNO₃, a molecular weight of 492.15, and the following rai formula:

N-CH2 O-CH2 CI C=N CI •HNO3

Oxiconazole nitrate is a nearly white crystal-line powder, soluble in methanol; sparingly soluble in ethanol, chloro-orm, and acetone; and very slightly soluble in water. OXISTAT* Cream contains 10 mg of oxiconazole per gram of cream in a white to off-white, opaque cream base of runfied water USP, white petrolatum USP, stearyl alcohol NF, propylene glycol USP, polysorbate 60 NF, cetyl alcohol NF, ind benzoic acid USP 0.2% as a preservative. OXISTAT* Lotion contains 10 mg of oxiconazole per gram of lotion in a white to off-white, opaque lotion base of puri-ied water USP, white petrolatum USP, stearyl alcohol NF, propylene glycol USP, polysorbate 60 NF, cetyl alcohol NF, ind benzoic acid USP 0.2% as a preservative. SP, white petrolatum USI acid USP 0.2% as a pre

CLINICAL PHARMACOLOGY

HARMACOLOGY instricts: The penetration of oxiconazole nitrate into different layers of the skin was assessed using an in tition technique with human skin. Five hours after application of 2.5 mg/cm² of oxiconazole nitrate cream skin, the concentration of oxiconazole nitrate was demonstrated to be 16.2 µmol in the epidermits, 30 upper corium, and 1.29 µmol in the deeper corium. Systemic absorption of oxiconazole nitrate is low. Using drug, less than 0.3% of the applied dose of oxiconazole nitrate was recovered in the urine of volunteer to 5 days after application of the cream formulation.

is. ggr: Oxiconazole nitrate is an imidazole derivative whose antifungal activity is derived primarily from the inhi gosterol biosynthesis, which is critical for cellular membrane integrity. It has in vitro activity against a wide of ergosterol biosynthesis, which is critical for cellular membrane integrity. It has in vitro activity against a wide of pathogenic fungi. nonazole has been shown to be active against most strains of the following organisms both in vitro and in clinical ns at indicated body sites (see INDICATIONS AND USAGE):

Epidermophyton floccosum Trichophyton mentagrophytes Trichophyton rubrum Malassezia furfur

ving in vitro data are available; <u>however, their clinical significance is unknown</u>. Oxiconazole exhibits sat-ritro minimum inhibitory concentrations (MICs) against most strains of the following organisms; however, the fficacy of oxiconazole in treating clinical infections due to these organisms have not been established in d well-controlled clinical triate:

IDICATIONS AND USAGE

cruris, and tinea corporis due to *Trichophyton rubrum*, *Trichophyton mentagrophytes*, or *Epid* OXISTAT[®] Cream is indicated for the topical treatment of tinea (pityriasis) versicolor due to *Me* AGE AND ADMINISTRATION and CLINICAL STUDIES). tric patients for tinea corporis, tinea cruris, tinea pedis, and tinea (pityriasis) which OXISTAT® Cream has been shown to be effective rarely occur in chil-

or; however, thes low the age of 12

CONTRAINDICATIONS OXISTAT[®] Cream and Lotion are contraindicated in individuals who have shown hypersensitivity to any of their cor ponents.

WARNINGS OXISTAT®

nazole nitrate cream) Cream, 1% and OXISTAT® (oxiconazole nitrate lotion) Lotion, 1% are not for

PRECAUTIONS General: OXISTAT[®] Cream and Lotion are for external dermal use only. Avoid introduction of OXISTAT[®] Cream or Loti into the eyes or vagina. If a reaction suggesting sensitivity or chemical irritation should occur with the use of OXISTA Cream or Lotion, treatment should be discontinued and appropriate therapy instituted. If signs of epidermal irritation should occur, the drug should be discontinued. Information for Patients: The patient should be instructed to: 1. Use OXISTAT[®] as directed by the physician. The hands should be washed after applying the medication to the affi ed area(s). Avoid contact with the eyes, nose, mouth, and other mucous membranes. OXISTAT[®] is for external use

- the medication for the **full** treatment time recommended by the physician, even though symptoms may have oved. Notify the physician if there is no improvement after 2 to 4 weeks, or sooner if the condition worsens (so . the physician if the area of application shows signs of increased irritation, itching, burning, blistering, swelling
- of occlusive dressings unless ofherwise directed by the physician. is medication for any disorder other than that for which it was prescribed. ms: Potential drug interactions between OXISTAT[®] and other drugs have not been systematically evalu

- urug interactions: Potential drug interactions between OXISTAT® and other drugs have not been systematically evaluated.
 Carcinogenesis, Mutagenesis, Impairment of Fertility: Although no long-term studies in animals have been performed to evaluate carcinogenic potential, no evidence of mutagenic effect was found in 2 mutation assays (Ames test and Chinese hamster VT9 in vitro cell mutation assay) or in 2 cytogenetic assays (human peripheral blood lymphocyte in vitro chromosome aberration assay and in vivo micronucleus assay in mice).
 Reproductive studies revealed no impairment of fertility in rats at oral doses of 3 mg/kg/day in females (1 time the human dose based on mg/m²) and 15 mg/kg/day in males (4 times the human dose based on mg/m²). However, at doses above this level, the following effects were observed: a reduction in the fertility parameters of males and females a reduction in the number of sperm in vaginal smears, extended estrous cycle, and a decrease in maing frequency.
 Pregnancy: Teratogenic Effects: Pregnancy: Reproduction studies have been performed in rabits, rats, and mice at oral doses up to 100, 150, and 200 mg/kg/day (57, 40, and 27 times the human dose based on mg/m²), respectively, and revealed no evidence of harm to the fetus
 due to oxiconazole nitrate. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are bare or dale ways predictive of human response, this drug should be used during pregnancy only if clearly needed.
- rs: Because oxiconazole is excreted in human milk, caution should be exercised when the drug is

tered to a nursing woman. ic Use: OXISTAT[®] Cream may be used in pediatric patients for tinea corporis, tinea cruris, tinea pedis, and tinea is) versicolor; however, these indications for which OXISTAT[®] Cream has been shown to be effective rarely occu en below the age of 12.

Infection Fear May Not Curb Sex in Teen Girls

BY BRUCE K. DIXON Chicago Bureau

INDIANAPOLIS — Female adolescents at high risk for acquiring sexually transmitted infections may not respond well to counseling and prevention efforts that focus on the fear of becoming infected, according to a study by researchers at In-

Geriatric Use: A limited number of patients at or above 60 years of age (n ~ 396) have been treated with OXISTAT[®] Cream in US and non-US clinical trials, and a limited number (n = 43) have been treated with OXISTAT[®] Lotion in US clinical trials. The number of patients is too small to permit separate analysis of efficacy and safety. No adverse events were reported with OXISTAT[®] Lotion in geriatric patients, and the adverse reactions reported with OXISTAT[®] Cream in this population were similar to those reported by younger patients. Based on available data, no adjustment of dosage of OXISTAT[®] Cream and Lotion in geriatric patients is warranted.

Ronly

ADVERSE REACTIONS During clinical trials, of 955 patients treated with oxiconazole nitrate <u>cream</u>, 1%, 41 (4.3%) reported adverse reac-tions thought to be related to drug therapy. These reactions included prurius (1.6%), burning (1.4%); irritation and aller-gic contact dermatilis (0.4% each); follo-ulitis (0.3%); erythema (0.2%); and papules, fissure, macertaion, rash, stinging and nodules (0.1% each). and nodules (0.1% each). In a controlled, multicenter clinical trial of 269 patients treated with oxiconazole nitrate <u>lotion</u>, 1%, 7 (2.6%) reported adverse reactions thought to be related to drug therapy. These reactions included burning and stinging (0.7% each) and pruritus, scaling, tingling, pain, and dyshidrotic eczema (0.4% each).

OVERDOSAGE

Note: % oxiconazole cream (5 times the concentration of the marketed product) was applied a tely 10% of body surface area of a group of 40 male and female rats for 35 days, 3 deal mation were reported. No overdoess in humans have been reported with use of oxicona

biolon. DOSAGE AND ADMINISTRATION OXISTAT[®] Cream or Lotion should be applied to affected and immediately surrounding areas once to twice daily in patients with times pedis, time acropris, or timea cruris. OXISTAT[®] Cream should be applied once daily in the treatment of timea (pityriasis) versicolor. Timea corporis, timea cruris, and timea (pityriasis) versicolor should be treated for 2 weeks and timea pedis, time to reduce the possibility of recurrence. If a patient shows no clinical improvement after the treatment period, the diagnosis should be reviewed. Note: Timea (pityriasis) versicolor may give rise to hyperpigmented or hypopigmented patches on the truck that may extend to the neck, arms, and upper thighs. Treatment of the infection may not immediately result in restoration of pig-ment to the affected sites. Normalization of pigment following successful therapy is variable and may take months, depending on individual skin type and incidental sun exposure. Although timea (pityriasi) versicion's not contagious, i may recur because the organism that causes the disease is part of the normal skin flora.

CLINICAL STUDIES The following defin

following definitions were applied to the clinical and microbiological outcomes in patients enrolled in the clinical at form the basis for the approvals of OXISTAT[®] Lotion and OXISTAT[®] Cream.

This is a specific of the second of the sec . ess: <u>Both</u> a global evaluation of 90% clinical improvement and a microbiologic eradication (see

eatment Success: <u>Both</u> a global evaluation of 90% clinical improvement and a microbiologic eradication (see over) at the 2-week post-treatment visit. **a Pedis:** THERE ARE NO HEAD-TO-HEAD COMPARISON TRIALS OF THE OXISTAT[®] CREAM AND LOTION FOR-ATIONS IN THE TREATMENT OF TINEA PEDIS. *otion Formulation:* The clinical trial for the lotion formulation line extension involved 332 evaluable patients with scally and microbiologically established tinea pedis. Of these evaluable patients, 64% were diagnosed with hyper-lotic plantar linea pedis and 28% with interdigital linea pedis. Seventy-seven percent (77%) had disease secondary fection with *Trichophyton rubrum*, 18% had disease secondary to infection with *Trichophyton mentagrophytes*, and had disease secondary to infection with *Trichophyton mentagrophytes*, and had disease secondary to infection with *Dicher-mophyton faccosum*.

	OXISTAT® Lotion		
Patient Outcome	b.i.d.	q.d.	Vehicle
Mycological cure Treatment success	67% 41%	64% 34%	28% 10%

In this study, the improvement and cure rates of the b.i.d.- and q.d.-treated groups did not differ significantly (95% infidence interval) from each other but were statistically (95% confidence interval) superior to the vehicle-treated

ulation: The two pivotal trials for the cream formulation involved 281 evaluable patients (total from both ally and microbiologically established tinea pedis. d results of these 2 clinical trials at the 2-week post-treatment follow-up visit are shown in the following

	OXIST	OXISTAT® Cream	
Patient Outcome	b.i.d.	q.d.	Vehicle
Mycological cure Treatment success	77% 52%	79% 43%	33% 14%

All the improvement and cure rates of the b.i.d.- and q.d.- treated groups did not differ significantly (95% confidence terval) from each other but were statistically (95% confidence interval) superior to the vehicle-treated group. In addition, pediatric data (95 children ages 10 and under) available with the cream formulation indicate that it is safe deflective for use in children when used as directed. Adverse events were reported in 2 children; 1 child was report-t to have reddening of the skin and 1 child was reported to have eczema-like skin alterations. **nea (pityriasis) Versicolor:** Two pivotal clinical trials of OXISTAT[®] Cream in tinea (pityriasis) versicolor involved 219 raluable patients in the q day OXISTAT[®] and vehicle arms of the trial with clinical and mycological evidence of tinea (tyriasis) versicolor. Tatients were treated for 2 weeks with OXISTAT[®] Cream once daily, or with cream vehicle. The mbined results of these clinical trials at the 2-week post-treatment follow-up visit are shown in the following table. s) versicolor. Patients were treated for 2 weeks with OXISTAT[®] Cream once daily, or with cream vehicle. The d results of these clinical trials at the 2-week post-treatment follow-up visit are shown in the following table. sults are based on 207 patients (110 in the OXISTAT[®] group and 97 in the vehicle group) with efficacy evaluations this visit.

	OXISTAT® Cream	
Patient Outcome	q.d.	Vehicle
Mycological cure Treatment success	88% 83%	67% 62%

Only once a day was shown in both studies to be statistically superior to vehicle for all efficacy parameters at 2 eeks and follow-up.

HOW SUPPLIED

NUM SUPPLIED OXISTAT® (oxiconazole nitrate cream) Cream, 1% is supplied in: 15-g tubes (NDC 0462-0358-15), 30-g tubes (NDC 0462-0358-30), and 60-g tubes (NDC 0462-0358-60). Store between 15- and 30-C (59- and 86-F). OXISTAT® (oxiconazole nitrate lotion), 1% is supplied in a 30-mL bottle (NDC 0462-0359-30). Store betw 15- and 30-C (59- and 86-F). Shake well before using.

PharmaDerm®

Manufactured By: GlaxoSmithKline, Mississaug Distributed By: PharmaDerm® a division of ALTANA Inc Duluth, GA 30096 USA ga, Ontario, Canada

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diana University in Indianapolis.

Instead, programs and physicians may need to tailor their pregnancy and sexually transmitted infection (STI) counseling to recent patterns of sexual behavior, said Dr. Mary A. Ott of the university's section of adolescent medicine.

"Physicians and other counselors should be aware that fear related to being infected influences sexual behavior only in the short term, and therefore should focus on interpersonal and relationship factors to influence long-term decisions about sex and abstinence," Dr. Ott said at the annual meeting of the Midwest Society for Pediatric Research.

This urban study of 378 high-risk females aged 14-18 years indicated that the decision to have sex after a period of abstinence was strongly influenced by the relationship between the girl and the male she was involved with, as well as by sexual interest and mood, Dr. Ott explained. This challenges the notion that adolescent sex is largely casual and lacking in personal commitment and caring.

The cohort completed quarterly face-toface interviews and two 3-month daily diary collections per year, and were followed up for a maximum of 4.5 years.

Periods of abstinence were defined as consecutive days of no vaginal sex as recorded in the daily diary. At the time of the study, 9% of the girls had an active STI, either Chlamydia trachomatis, Neisseria gonorrhea, or Trichomonas vaginalis.

Frailty models were used to estimate the effects of intrapersonal and interpersonal factors, as well as the effect of STI diagnosis, on the time to ending a period of abstinence. A frailty model is an adaptation of a proportional hazards model that controls for multiple observations from a single participant.

The study cohort had more than 6,000 periods of abstinence, of which 55% ended in sex. The median length of abstinence was 10 days, and the mean length was 39 days."Each year increase in a participant's age increased the hazard of ending an abstinence period with sex by 22%," Dr. Ott said.

"For interpersonal influences, each unit increase in positive mood increased the hazard by 2%, each unit increase in negative mood decreased the hazard by 1%, and each unit increase in sexual interest raised the hazard by 22%," she said.

As for interpersonal influences, each unit increase in partner support hiked the hazard of having sex by 25%; each unit increase in relationship quality raised the hazard by 5%, while a recent STI decreased the hazard of having sex and stopping a period of abstinence by 17%.

However, although mood and the influence of a previous STI lowered the risk of ending short periods of abstinence, they had little effect on ending longer periods of abstinence.

The longer that young women at high risk for STIs went without having sex, the more likely they were to remain abstinent. Dr. Ott said.