Azithromycin No Use for Pityriasis Rosea

BY ROBERT FINN

San Francisco Bureau

SAN FRANCISCO — Azithromycin had no influence on the clinical course of pityriasis rosea, according to a poster presentation of a small randomized controlled trial at the annual meeting of the Pediatric Academic Societies.

The etiologic agent for pityriasis rosea, an acute inflammatory skin disease common in children and adolescents, is un-

known. A study published in 2000 reported complete resolution of symptoms in 73% of patients treated with erythromycin (J. Am. Acad. Dermatol. 2000;42:241-4).

Dr. Ahdi Amer and Dr. Howard Fischer, of the Wayne State University, Detroit, treated 49 children an average of 1.5 weeks after a diagnosis of pityriasis rosea. The children, aged 2-18 years, were randomly assigned to get a 5-day course of azithromycin or placebo, the researchers said at the meeting, sponsored by the

PSYCHIATRIC DISORDERS

American Pediatric Society, the Society for Pediatric Research, the Ambulatory Pediatric Association, and the American Academy of Pediatrics. Fifteen patients in the azithromycin group (60%) and 10 in the placebo group (42%) had complete resolution of symptoms within 2 weeks. Seven patients in each group had partial resolution. There were three treatment failures in the azithromycin group and seven in the placebo group. These differences weren't statistically significant.

CHANTIX (varenicline) TABLETS

INDICATIONS AND USAGE CHANTIX is indicated as an aid to smoking cessation treatment

PRECAUTIONS

General Nausea was the most common adverse event associated with CHANTIX treatment. Nausea was generally described as mild or moderate and often transient; however, for some subjects, if was persistent over several months. The incidence of nausea was dose-dependent, Initial dose-thation was beneficial in reducing the occurrence of nausea. Nausea was reported by approximately 30% of patients treated with CHANTIX in pB ID after an initial week of dose titration. In patients taking CHANTIX 10.5 mg BID, the micidence of nausea was 16% following initial titration. Approximately 3% of subjects treated with CHANTIX 1 mg BID in studies involving 12 weeks of treatment discontinued treatment prematurely because of nausea. For patients with intolerable nausea, dose reduction should be considered. Effect of snorking cessation. Physiological changes resulting from smoking cessation, with or without treatment with CHANTIX, may after the pharmacokinetics or pharmacodynamics of some drugs, for which dosage adjustment may be necessary (examples include theophylline, warfarin and insulin).

Purus Interactions Readed on variencing characteristics and clinical experience in date. CHANTIX has no clinically meaninoful.

Drug Interactions Based on varenicline characteristics and clinical experience to date, CHANTIX has no clinically meaningful pharmacokinetic drug interactions (See Full Prescribing Information, CLINICAL PHARMACOLOGY, Drug-Drug Interactions).

pharmacokinetic drug interactions (See Full Prescribing Information, CLINICAL PHARMACOLORY, Drug-Drug Interactions), Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis. Lifetime carcinogenicity studies were performed in CD-1 mice and Sprague-Dawley rats. There was no evidence of a carcinogenic effect in mice administered varenicine by oral gavage for 2 years at doses up to 20 mg/kg/day (47 times the maximum recommended human daily exposure based on AUC), Rats were administered varenicine (1, 5, and 15 mg/kg/day) by oral gavage for 2 years. In male rats (n = 65 per sex per dose group), incidences of hibernoma (tumor of the brown fat) were increased at the mid dose (1 tumor, 5 mg/kg/day, 23 times the maximum recommended human daily exposure based on AUC), The clinical relevance of this finding to humans has not been established. There was no evidence of carcinogenicity in female rats. Mutagenesis. Varenicline was not genotoxic, with or without metabolic activation, in the following assays: Ames bacterial mutation assay; mammalian CHOHJEPRT assay; and tests for cytogenetic aberrations in vivo in rat bone marrow and in vitro in human lymphocytes.

mammalian churrierH assay, and less for cytogenetic apertations in wor in at other marrow and in wor in numan hymphocytes. Impairment of fertility. There was no evidence of impairment of fertility in either male or female Sprague-Dawley rats administered varenicline succinate up to 15 mg/kg/day (67 and 36 times, respectively, the maximum recommended human daily exposure based on AUC at 1 mg BID). However, a decrease in fertility was noted in the offspring of pregnant rats who were administered varenicline succinate at an oral dose of 15 mg/kg/day (36 times the maximum recommended human daily exposure based on AUC at 1 mg BID). This decrease in fertility in the offspring of treated female rats was not evident at an oral dose of 3 mg/kg/day (9 times the maximum recommended human daily exposure based on AUC at 1 mg BID).

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Pregnancy Pregnancy Category C. Varenicline succinate was not teratogenic in rats and rabbits at oral doses up to 15 and 30 mg/kg/day, respectively (36 and 50-times the maximum recommended human daily exposure based on AUC at 1 mg BID, respectively). Nontreatogenic effects Varenicline succinate has been shown to have an adverse effect on the fetus in animal reproducing studies. Administration of varenicline succinate to pregnant rabbits resulted in reduced fetal weights at an oral dose of 30 mg/kg/day (50 times the human AUC at 1 mg BID); this reduction was not evident following treatment with 10 mg/kg/day (32 times the maximum recommended daily human exposure based on AUC, In addition, in the offspring of pregnant rats breated with varenicline succinate there were decreases in fertility and increases in auditory startle response at an oral dose of 15 mg/kg/day (36 times the maximum recommended human daily exposure based on AUC at 1 mg BID). There are no adequate and well-controlled studies in pregnant women. CHANTIX should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Nursing mothers Although it is not known whether this drug is excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing push because many drugs are excreted in human milk, and because of the potential for serious adverse reactions in nursing infants from CHANTIX, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Labor and delivery The potential effects of CHANTIX on labor and delivery are not known. Pediatric safety and effectiveness of CHANTIX in pediatric patients have not been established; therefore, CHANTIX is not recommended for use in patients under reported clinical experi

- formation for Patients:

 Patients should be instructed to set a date to quit smoking and to initiate CHANTIX treatment one week before the quit date.

 Patients should be instructed to set a date to quit smoking and to initiate CHANTIX treatment one week before the quit date.

 Patients should be instructed how to titrate CHANTIX, beginning at a dose of 0.5 mg/day, Prescribers should explain that one 0.5 mg tablet should be taken daily for the first three days, and that for the next four days, one 0.5 mg tablet should be taken in the morning and one 0.5 mg tablet should be taken in the verning.

 Patients should be advised that, after the first seven days, the dose should be increased to one 1 mg tablet in the morning and one

- I mg tablet in the evening.

 Patients should be encouraged to continue to attempt to quit if they have early lapses after quit day.

 Patients should be informed that nausea and insomnia are side effects of CHAYTIX and are usually transient; however, patients should be advised that if they are persistently troubled by these symptoms, they should notify the prescribing physician so that a dose reduction can be considered.
- reduction can be considered.

 Patients should also be provided with educational materials and necessary counseling to support an attempt at quitting smoking.

 Patients should be informed that some medications may require dose adjustment after quitting smoking.

 Patients intending to become pregnant or planning to breast-feed an infant should be advised of the risks of smoking and risks and benefits of smoking cessation with CHANTIX.

ADVERSE REACTIONS

During the premarketing development of CHANTIX, over 4500 individuals were exposed to CHANTIX, with over 450 treated for at least 24 weeks and approximately 100 for a year. Most study participants were treated for 12 weeks or less. In Pitase 2 and 3 placebontrolled studies, the treatment discontinuation rate to due to adverse events in patients doesd with 1 mg BID was 12% for CHANTIX compared to 10% for placebo in studies of three months' treatment. In this group, the discontinuation rates for the most common adverse events in CHANTIX treated patients were as follows: nauses (3.9% vs. 0.5% for placebo), had adverse events in CHANTIX treatment (1.3% vs. 1.1% for placebo), adverse events in placebo headach (6.0% vs. 0.9% for placebo), insomnia (1.2% vs. 1.1% for placebo), adhormal dreams (0.3% vs. 0.2% for placebo). Adverse Events were categorized using the Medical Dictionary for Regulatory Activities (MedDRA Version 7.1).

The most common adverse events associated with CHANTIX (>5% and twice the rate seen in placebo-treated patients) were nausea,

The most common adverse events associated with CHANTIX (>5% and twice the rate seen in placebo-treated patients) were nausea, sleep disturbance, constipation, flatulence, and vomiting. Smoking cessation, with or without treatment, is associated with nicotine withdrawal symptoms.

The most common adverse event associated with CHANTIX treatment is nausea. For patients treated to the maximum recommended dose of 1 mg BID following initial dosage titration, the incidence of nausea was 30% compared with 10% in patients taking a comparable placebo regimen. In patients taking CHANTIX 0.5 mg BID following initial titration, the incidence was 16% compared with 11% for placebo. Nausea was generally described as mild or moderate and often transient; however, for some subjects, it was persistent throughout the treatment period.

persistent unougnout use treatment person.

Table 3 shows the adverse events for CHANTIX and placebo in the 12 week fixed dose studies with titration in the first week (Studies 2 (titrated arm only), 4, and 5). MedDRA High Level Group Terms (HLGT) reported in ≥ 5% of patients in the CHANTIX 1 mg BID dose group, and more commonly than in the placebo group, are listed, along with subordinate Preferred Terms (PT) reported in ≥ 1% of CHANTIX patients (and at least 1.0% more frequent than placebo). Closely related Preferred Terms such as "Insonnia", "Initial insonnia", "Middle insonnia", "Early morning awakening" were grouped, but individual patients reporting two or more grouped events are observated once.

Table 3: Common Treatment Emergent AEs (%) in the Fixed-Dose, Placebo-Controlled Studies (>1% in the

1 mg BID CHANTIX Group, and 1 mg BID CHANTIX at least 0.5% more than Placebo)				
SYSTEM ORGAN CLASS	CHANTIX	CHANTIX 1mg	Placebo	
High Level Group Term Preferred Term	0.5 mg BID N=129	1mg BID N=821	N=805	
GASTROINTESTINAL				
GI Signs and Symptoms				
Nausea	16	30	10	
Abdominal Pain*	5	7	5	
Flatulence	9	6	3	
Dyspepsia	5	5	3	
Vomiting	1	5	2	
Gl Motility/Defecation Conditions				
Constipation	5	8	3	
Gastroesophageal reflux disease	1	1	0	
Salivary Gland Conditions	1			
Dry mouth	4	1 6	4	

Nightmare NERVOUS SYSTEM

Headaches Headache	19	15	13
Neurological Disorders NEC	0	_	4
Dysgeusia Somnolence	0)	4
	3	3	2
Lethargy Disconners			U
GENERAL DISORDERS			
General Disorders NEC	l .	_	
Fatigue/Malaise/Asthenia	4	/	6
RESPIR/THORACIC/MEDIAST			
Respiratory Disorders NEC			
Rhinorrhea	0	1	0
Dyspnoea	2	1	1
Upper Respiratory Tract Disorder	7	5	4
SKIN/SUBCUTANEOUS TISSUE			
Epidermal and Dermal Conditions			
Rash	1 1	3	2
Pruritis	0	1	1
METABOLISM & NUTRITION			
Appetite/General Nutrit. Disorders			
I Conserved annually	1 4		

* Includes PTs Abdominal (pain, pain upper, pain lower, discomfort, tenderness, distension) and Stomach discomfort
** Includes PTs Insomnia/Initial insomnia/Middle insomnia/Early morning awakening

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The overall pattern, and the frequency of adverse events during the longer-term trials was very similar to that described in Table 3, though several of the most common events were reported by a greater proportion of patients. Nausea, for instance, was reported in 40% of patients treated with CHANTX i mg BID in a one-year study, compared to 8% of placebo-freated patients.
Following is a list of treatment emergent adverse events reported by a greater proportion of patients. Nausea, for instance, was reported in 40% of patients treated with CHANTX furning all clinical trials. The listing does not include those events afready listed in the previous tables or elsewhere in labeling, those events of which a drug cause was remote, those events which were so general as to be uninformative, and those events provided on one which of have a substantial probability of being acutely life-threatening. BLODD AND LYMPHATIC SYSTEM DISONDERS. Infrequent Anemia, Lymphadenopathy. Rare. Leukocytosis, Thrombocytopenia, Splenomegaly, CARDIAC DISONDERS. Infrequent Anemia, Lymphadenopathy. Rare. Leukocytosis, Thrombocytopenia, Splenomegaly, CARDIAC DISONDERS. Infrequent Anemia, Lymphadenopathy. Rare. Leukocytosis, Thrombocytopenia, Splenomegaly, CARDIAC DISONDERS. Infrequent Anemia, Lymphadenopathy. Rare. Leukocytosis, Thrombocytopenia, Splenomegaly, CARDIAC DISONDERS. Infrequent Tinnitus, Vertico, Arribythmia, Brindequerdia, Ventroidus et al., Splenomegaly, CARDIAC DISONDERS. Infrequent Tinnitus, Vertico, Carlacted Disonders, Menire's disease. ENDOCRINE DISONDERS. Infrequent: Conjunctivitis, Dry eye, Eye irritation, Vision blurred, Visual disluthance, Eye pain. Rare Acquired night blindness, Blindness transient, Cataract subcapsular, Ocular vascular disorder, Photophobia, Vifreus floaters, GasTriontTeSTINAL DISONDERS. Infrequent: Conjunctivitis, Dry eye, Eye irritation, Vision blurred, Visual field defense. Photophade Disonberg, Burbana, Burbana, Burbana,

DRUG ABUSE AND DEPROPENCE

Controlled Substance Class Varenicline is not a controlled substance. <u>Humans:</u> Fewer than 1 out of 1000 patients reported euphoria in clinical trials with CHANTX. At higher doses (greater than 2 mg), CHANTIX produced more frequent reports of gastrointestinal disturbances such as nausea and vomiting. There is no evidence of dose-escalation to maintain therapeutic effects in clinical studies which suggests that tolerance does not develop. Abrupt discontinuation of CHANTIX was associated with an increase in irritability and sleep disturbances in up to 3% of patients. This suggests that, in some patients, varenicline may produce mild physical dependence which is not associated with addiction. In a human laboratory abuse liability subuly, a single oral dose of 1 mg varenicline did not produce. winch is not associated with adolction. In a human abdoratory adose lability soulty, a single drail obes of in my adentionile do in for produce any significant positive or negative subjective responses in smokers. In non-smokers, if my adenticine produced an increase in some positive subjective effects, but this was accompanied by an increase in negative adverse effects, especially nausea. A single oral dose of a my arrenicine uniformly produced unpleasant subjective responses in both smokers and non-smokers, Animals: Studies in rodents have shown that varenicine produces behavioral responses similar to those produced by nicotine. In rats trained to discriminate nicotine from saline, varenicine produced full generalization to the nicotine cue. In self-administration studies the degree to which varenicine substitutes for nicotine is dependent upon the requirement of the task. Rats trained to self-administer nicotine under easy conditions continued to self-administer varenicline to a degree comparable to that of nicotine, however in a more demanding task, rats self-administered varenicline to a lesser extent than nicotine. Varenicline pretreatment also reduced nicotine self-administration.

In case of overdose, standard supportive measures should be instituted as required. Varenicline has been shown to be dialyzed in patients with end stage renal disease (see Full Prescribing Information, CLINICAL PHARMACOLOGY, Pharmacokinetics, Pharmacokinetics in Special Patient Populations), however, there is no experience in dialysis following overdose.

Usual Dosage for Adults Smoking cessation therapies are more likely to succeed for patients who are motivated to stop smoking and who are provided additional advice and support. Patients should be provided with appropriate educational materials and counseling to support the quit attempt. The patient should set a date to stop smoking. CHANTIX dosing should start one week before this date. CHANTIX fould be taken after eating and with a full glass of water. The recommended dose of CHANTIX is 1 mg twice daily following a 1-week titration as follows:

Days 1-3:	0.5 mg once daily
Days 4-7:	0.5 mg twice daily
Days 8-End of treatment:	1 mg twice daily

Patients who cannot tolerate adverse effects of CHANTIX may have the dose lowered temporarily or permanently. Patients should be treated with CHANTIX for 12 weeks. For patients who have successfully stopped smoking at the end of 12 weeks, an additional course of 12 weeks treatment with CHANTIX is recommended to thruther increase the likelihood of long-term abstinence. Patients who do not succeed in stopping smoking during 12 weeks of initial therapy, or who relapse after treatment, should be encouraged to make another attempt once factors contributing to the failed attempt have been identified and addressed.

Special Populations
Patients with impaired renal function. No dosage adjustment is necessary for patients with mild to moderate renal impairment. For patients with severe renal impairment, the recommended starting dose of CHANTIX is 0.5 mg once daily. Patients may then titrate as needed to a maximum dose of 0.5 mg twice a day. For patients with End-stage renal disease undergoing hemodialysis, a maximum dose of 0.5 mg once daily may be administered if tolerated well (See Full Prescribing Information, CLINICAL PHARMACOLOGY, Pharmacokinetics, Pharmacokinetics in Special Populations, Renal impairment). Dosing in elderly patients and patients with impaired hepatic function. No dosage adjustment is necessary for patients with hepatic impairment. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (See PRECAUTIONS, Gertatric Use). Use in children. Safety and effectiveness of CHANTIX in pediatric patients have not been established; therefore, CHANTIX is not recommended for use in patients under 18 years of age.

Cat Exposure **Ups Infant** Eczema Risk

BY JANE SALODOF MACNEIL Southwest Bureau

SAN DIEGO — Newborns who come home to a family cat may be at greater risk of developing eczema by their first birthday, according to an ongoing, prospective birth cohort study presented at the International Conference of the American Thoracic Society.

Dr. Esmeralda Morales reported 28% of 134 infants with household cats developed eczema by 1 year of age. The skin condi-



The difference was statistically significant with an OR of 1.75 that early exposure to cats would lead to eczema.

DR. MORALES

tion appeared in only 18% of 286 infants raised without cats. The difference was statistically significant with an odds ratio of 1.75 that early exposure to cats would lead to eczema. The effect was stronger for babies whose mothers did not have asthma.

Dr. Morales, of the University of Arizona in Tucson, said the finding was a surprise to the researchers. They had hypothesized that early pet exposure would be associated with less risk of wheeze, eczema, and rhinitis apart from colds.

Dogs fared better in the analysis from the Infant Immune Study. More families had dogs: 341 had fewer than two indoor dogs, and 80 had two or more.

Infants exposed to two or more indoor dogs from birth were significantly less likely to develop wheeze by age 1 year (OR 0.53). If the family kept any dog indoors, the risk of rhinitis at 1 year also was significantly less (OR 0.50). There was no significant effect of indoor dog ownership on eczema.

The investigators plan to do a longitudinal analysis to determine whether the infants that develop eczema also are more likely to develop allergic conditions such as asthma and hay fever.

