

Parents of international adoptees may decide to revaccinate their children because of the unreliability of immunization records.

MAXAIR® AUTOHALER®

(pirbuterol acetate inhalation aerosol) For Oral Inhalation Only Brief Summary of Prescribing Information See Package Insert for Full Prescribing Information

See Package Insert for Full Prescribing Information INDICATIONS AND USAGE MAXAIR AUTOHALER is indicated for the prevention and reversal of bronchospasm in patients 12 years of age and older with reversible bronchospasm including asthma. It may be used with or without concurrent theophylline and/or corticosteroid therapy. CONTRAINDICATIONS MAXAIR AUTOHALER is contrandicated in patients with a history of hypersensitivity to pirbuterol or any of its ingredients. WARNINGS Cardiovascular: MAXAIR AUTOHALER, like other inhaled beta adrenergic agonists, can produce a clinically significant cardiovascular effect in some patients, as measured by pulse rate, blood pressure and/or symptoms. Although such effects are uncommon after administration of MAXAIR AUTOHALER at recommended doses, if they occur, the drug may need to be discontinued. In addition, beta-agonists have been reported to produce ECG changes, such as flattening of the T wave, prolongation of the QTc interval, and ST segment depression. The clinical significance of these findings is unknown. Therefore, MAXAIR AUTOHALER, like all sympathomimetic amines, should be used with caution in patients with cardiovascular disorders, especially coronary insufficiency, cardiac arrhythmias, and hypertension. Paradoxical Bronchospasm: MAXIR AUTOHALER and produce paradoxical bronchospasm, which can be life threatening. If paradoxical bronchospasm occurs, MAXAIR AUTOHALER should be discontinued immediately and alternative therapy instituted. It should be recognized that paradoxical bronchospasm, when associated with inhaled formulations, frequently occurs with the first use of a new canister or vial. Use of Anti-Inflammatory Agents: The use of beta adrenergic agonist bronchodilators alone may not be adequate to control asthma in many patients. Early consideration of Asthma: Asthma may deteriorate acutely over a period of hours or chronically over several days or longer. If the patient needs more doses of MAXAIR AUTOHALER than usual, this may be a marker access your a period induct or United to United to the patient and your object: In the patient freedoms of MAXAR AUTOHALER than usual, this may be a marker of destabilization of asthma and requires reevaluation of the patient and the treatment e.g., controlsateroids **PRECAUTONS Energits**. The patient is the cardiovascular disorders, including ischemic heart diseases hyperfersion, or cardiac arrinythmias, in patients with the united isorders including ischemic heart diseases hyperfersion, or cardiac arrinythmias, in patients with the united isorders including ischemic heart diseases hyperfersion, or cardiac arrinythmias, in patients with the united isorders including ischemic heart diseases hyperfersion, or cardiac arrinythmias, in patients with the united isorders. Supplicant hypotelimical to prove the symptometry of MAXAR AUTOHALER should be the provide the optical to provide adverse cardiovascular effects. The decreases is usually transitient, on trenguing supplementation, information of Pretions: The accinct of MAXAR AUTOHALER should for you are using MAXAR AUTOHALER should for you are being you provide adverse cardiovascular effects. The decreases is usually transitient, on trenguently and the used with a statistic provided as the product more frequently than treatment with MAXAR AUTOHALER MUTOHALER whole is a set of the NAXAR AUTOHALER whole adverse the product more frequently than treatment with MAXAR AUTOHALER the indications thread you are using MAXAR AUTOHALER. The frequent or nunsing, contract your physician about use of the maximum endications that access the maximum of the set of the way the medications that access the maximum of the provided is a set of the NAXAR AUTOHALER that and the medications that way the individed adverse adverse the state of the AUTOHALER the set of the NAXAR AUTOHALER the state of the NAXAR AUTOHALER the state of the NAXAR AUTOHALER that the treatment medication should be adverse of the set of the NAXAR AUTOHALER theo the set of the NAXAR AUTOHALER that access the maximum r

International Adoptees' Records of **Immunizations** Are Often Unreliable

BY ROBERT FINN San Francisco Bureau

HONOLULU — Children adopted internationally by American parents often are accompanied by immunization records from their birth countries, but the records cannot be relied on, according to a study

of more than 400 children. It's important to inform adoptive parents of this, Emaculate Verla-Tebit, Ph.D., of Case Western Reserve University, Cleveland, said in an interview. Parents then can decide whether to simply revaccinate or to order serum antibody testing and vaccinate based on those results.

Nursing Mothers: It is not known whether pirbuterol is excreted in human milk. Therefore, MAXAIR AUTOHALER should be used during nursing only if the potential benefit justifies the possible risk to the newborn. Pediatric Use: MAXAIR AUTOHALER is not recommended for patients under the age of 12 years because of insufficient clinical data to establish safety and effectiveness. **ADVERSE REACTIONS** The following rates of adverse reactions to pirbuterol are based on single- and multiple-dose clinical trials involving 761 patients, 400 of whom received multiple doses (mean duration of treatment was 2.5 months and maximum of whom received multiple doses (mean duration of treatment was 2.5 months and maximum was 19 months). The following were the adverse reactions reported more frequently than 1 in 100 patients: **CNS**: nervousness (6.9%), tremor (6.0%), headache (2.0%), dizziness (1.2%). **Cardiovascular**: palpitations (1.7%), tachycardia (1.2%). **Respiratory**: cough (1.2%). **Gastrointestinal**: nausea (1.7%). The following adverse reactions occurred less frequently than 1 in 100 patients and there may be a causal relationship with prioturerol: **CNS**: depression, anxiety, confusion, insomnia, weakness, hyperkinesia, syncope. **Cardiovascular**: hypotension, axiety, confusion, insomnia, weakness, hyperkinesia, syncope. **Cardiovascular**: smell/taste changes, sore throat. **Dermatological**: rash, pruritus. **Other**: numbness in extremities, alopecia, bruising, fatigue, edema, weight gain, flushing. Other adverse reactions were reported with a frequency of less than 1 in 100 patients but a causal relationship between pirbuterol and the reaction could not be determined: migraine, productive cough, wheezing, and dermatitis.

The following rates of adverse reactions during three-month controlled clinical trials involving 310 patients are noted. The table does not include mild reactions.

PERCENT OF PATIENTS WITH MO	DERATE TO SEVER	E ADVERSE REACTIONS
Reaction	Pirbuterol	Metanroterenol

Reaction	Pirbuterol	Metaproterenol
	N=157	N=153
Central Nervous System		
tremors	1.3%	3.3%
nervousness	4.5%	2.6%
headache	1.3%	2.0%
weakness	.0%	1.3%
drowsiness	.0%	0.7%
dizziness	0.6%	.0%
Cardiovascular		
palpitations	1.3%	1.3%
tachycardia	1.3%	2.0%
Respiratory		
chest pain/tightness	1.3%	.0%
cough	.0%	0.7%
Gastrointestinal		
nausea	1.3%	2.0%
diarrhea	1.3%	0.7%
dry mouth	1.3%	1.3%
vomiting	.0%	0.7%
Dermatological		
skin reaction	.0%	0.7%
rash	.0%	1.3%
Other		
bruising	0.6%	.0%
smell/taste change	0.6%	.0%
backache	.0%	0.7%
fatigue	.0%	0.7%
hoarseness	.0%	0.7%
nasal congestion	.0%	0.7%

nasal congestion
.0%
0.7%
Electrocardiograms: Electrocardiograms, obtained during a randomized, double-blind, cross-over study in 57 patients, showed no observations or findings considered clinically significant, or related to drug administration. Most electrocardiographic observations, obtained during a randomized, double-blind, cross-over study in 40 patients, were judged not clinically significant or related to drug administration. One patient was noted to have some changes on the one hour postdose electrocardiogram consisting of 51 and T wave some changes or the six hours postdose ECG. A treadmill was subsequently performed and all the findings were normal. OVERDOSAGE The expected symptoms with overdosage are those of excessive beta-stimulation and/or any of the symptoms listed under ADVERSE REACTIONS, e.g., seizures, angina, hypertension or hypotension, tachycardia with rates up to 200 beats per minute, arrhythmias, nervousness, headache, tremor, dry mouth, palpitation, nausea, dizziness, fatigue, malaise, and insomnia. Hypokalemia may also occur. As with al sympathomimetic aerosol medication, cardiac arrest and even death may be associated with abuse of MAXAIR AUTOHALER. Treatment consists of discontinuation of pirbuterol together with appropriate symptomatic therapy. The judicious use of a cardioselective beta-receptor blocker may be considered, bearing in mind that such medication can produce browchosagem. Theora is insufficient evidence to determine if dialysis is beneficial for overdosage. The oral median lethal dose of pirbuterol dihydrochloride in mice and rats is greater than 2000 mg/kg (approximately 3400 and 6800 times the maximum recommended daily inhalation dose for adults on a mg/m² basis).

Note: The indented statement below is required by the Federal government's Clean Air Act for all products containing or manufactured with chlorofluorocarbons (CFC's).

WARNING: Contains trichloromonofluoromethane and dichlorodifluoromethane, substances which harm public health and environment by destroying ozone in the upper atmosphere.

A notice similar to the above WARNING has been placed in the "Patient's Instructions For Use" portion of this package insert under the Environmental Protection Agency's (EPA's) regulations. The patient's warning states that the patient should consult his or her physician if there are questions about alternatives.

This is only a brief summary of important information regarding MAXAIR AUTOHALER. For more information please visit www.maxairautohaler.com or call 1-800-328-0255.

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The cross-sectional study involved 465 children seen at an adoption health clinic at Rainbow Babies and Children's Hospital in Cleveland. The investigators excluded children who had hepatitis B or C infections, those who presented more than 180 days after their arrival into the United States, and those who had received any vaccine in the United States.

The children came from Russia, China, Guatemala, Eastern Europe, Southeast Asia, the West Pacific, and Latin America; they were a mean 19.4 months at adoption. More than 85% had vaccine records available. The investigators obtained venous blood samples and measured antibody titers for diphtheria, tetanus, measles, hepatitis B, and polio.

The level of protective immunity was worst for polio. Of children reported to have received three or more polio vaccine doses, only about 60% had protective immunity to polio type 1, 85% had protective immunity to type 2, and just over 50% had protective immunity to type 3, Dr. Verla-Tebit reported in a poster presented at the annual meeting of the Pediatric Academic Societies.

Of children reported to have received two or more doses of hepatitis B vaccine, 95% had protective immunity. Of children reported to have received one or more doses of measles vaccine, about 80% had protective immunity.

Of children reported to have three or more doses of diphtheria vaccine, 95% had protective immunity, and of those who were reported to have three or more doses of tetanus vaccine, 90% had protective immunity

Dr. Verla-Tebit said that several factors could explain the discordance between immunization records and protective immunity. It's possible that some records were falsified, but it's also possible that in some cases there may have been a break in the cold chain—a common occurrence in developing countries-which could have compromised vaccine strength.

Another possibility is that the child's nutritional status may have played a role. Investigators judged 79% of children in this study to be well nourished, 15% to have moderate to severe chronic malnutrition, and 6% to have moderate to severe acute malnutrition.

Dr. Verla-Tebit stated that she had no conflicts of interest related to her study.

Brochure Available **On Eye Allergies**

he Asthma and Allergy Foundation of America is offering a free brochure titled "Eye Health and Allergies." The brochure describes causes, signs and symptoms, and tips for preventing eye allergies. It also lists strategies and options for contact lens wearers. To print copies of the brochure, which is supported by Johnson & Johnson Vision Care Inc., visit the foundation's Web site, www.aafa.org/pdfs/eye allergybrochure.pdf.