

ince I had seen her last year, my 5-year-old patient Tiana had gained so much weight that I almost didn't recog-

nize her. I knew that when I looked at her growth curve it would now include a

## LETTERS FROM MAINE Weighty Mysteries

steep upslope. The change had not caught burned, those packets will accumulate in her mother, Maria, by surprise. Tiana's weight was the first topic of her answer to my usual, "How are things goin'?"

Over the years we had had many discussions about how she might remedy the girls' sleep problems. Now we had a new issue to discuss: impending obesity.

My simplistic understanding of obesity has always been that if someone takes in more packets of energy than are the body as fat.

One must also account for genetic variation because it is clear that some of us are better at storing fat than others are.

Likewise, two automobiles of the same size may have dramatically different fuel efficiency ratings just because that's the way they were designed and built.

It seems, to those of who were blessed with lean parents, to be such a blatantly

## MAXAIR® AUTOHALER®

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

Brief Summary of Prescribing Information Sce 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 contraindicated 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 OTc 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: MAXAIR AUTOHALER can produce paradoxical bronchospasm, which can be life threatening, If paradoxical bronchospasm occurs, MAXAIR AUTOHALER, like all sympathomimetic, agonist bronchospasm occurs, MAXAIR AUTOHALER, bloub de 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 bleat adrenergic agonist bronchodilators alone may not be adequate to control asthma in many patients. Early consideration of Astma: Asthma may deteriorate and hypatentsion, or cardiac arrhythmias, in patients with hyperth Befa adrenergic agonist medications may produce significant hypokalemia in some patients, possibly through intracellular shutning, which has the potential to produce adverse actiovascular effects. The decrease is usually transient, not requiring supplementation. Information for Patients: The action of MAXAR AUTOHALER should last up to five hours or oringer. MAXAR AUTOHALER should not be used more frequently than recommended. Do not increase the dose or frequency of MAXAR AUTOHALER without consulting your physician. The set in that treatment with MAXAR AUTOHALER becomes less effective for symptomatic relief, or your symptoms become worse, and/or you need to use the product more frequently than usual, you should seek medical attention immediately. While you are using MAXAR AUTOHALER, other inhaled drugs and asthma medications should be taken only as directed by your physician. Common adverse effects include supplications, cheet pain, rapid heard rate, temor or nervousness. If you are pregnant or nursing, contact your physician about use of MAXAR AUTOHALER. Effective and safe use includes an understanding of the way the medication should be administered. As with all aerosol medications, it is recommended to prime (test) MAXAR AUTOHALER before using for the first time. MAXAR AUTOHALER should also be primed if thas not been used in 48 hours. As described in the priming procedure, use the test fire side to release two priming sprays into the air away from yourself and other people. (See "Patients's instructions For Use" portion of this package insert). The MAXAR AUTOHALER actuator should not be used with any other inhalation aerosol canister, should not be used concomitantly with MAXIR AUTOHALER because the yma have additive effects. Monoamine Oxidase Inhibitors or Tricyclic Antidepressants: Pirbuterol should be administered with extreme caution to patients being treated with the tablockers. However, under certain circumstances, e.g., as prophylaxis after myocarial infarction, there may be no acceptable alternatives 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 FLEACTIONS 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 vas 19 months). The following were the adverse reactions reported more frequently than 1 in 100 patients: OKS: nervousness (6.9%), tremor (6.0%), headache (2.0%), dizziness (1.2%). Castrointestinal: nausea (1.7%). The following adverse reactions occurred less frequently than 1 in 100 patients: and there may be a causal relationship with pirbuterol: CMS: approximations (1.7%). The following adverse reactions courred less frequently than 1 in 100 patients; and there may be a causal relationship with pirbuterol: CMS: approximations (1.7%). Eastrointestinal: nausea (1.7%). The following adverse reactions occurred less frequently than 1 in 100 patients; and there may be a causal relationship with pirbuterol: CMS: approximations, insomnia, weakness, hyperkinesia, syncope. Cardiovascular: hypotension, skipped beats, cheet pain. Gastrointestinal: dry mouth, glossitis, abdominal pain/cramps, anorexia, diarrhea, stomattis, nausea and vomiting. Cher 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 dermattis.

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	ADVERSE REACTIONS	
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%
drv mouth	1.3%	1.3%
vomiting	.0%	0.7%
Dermatological		
skin reaction	.0%	0.7%
rash	.0%	1.3%
Other		
bruisina	0.6%	.0%
smell/taste change	0.6%	.0%
backache	.0%	0.7%
fatique	.0%	0.7%
hoarseness	.0%	0.7%
nasal congestion	.0%	0.7%

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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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simple concept that we are easily frustrated by other families who "just don't get it." Which side of my simplistic equation

had changed for Tiana?

Suspecting that it was an intake problem, I began to quiz Maria about the family's diet. It continues to be predominantly vegetables and grains, no soda, rare desserts. She admitted that there has been a slight increase in chips and snack food since she and her husband had taken over a mom-and-pop convenience store. But, the amounts didn't sound excessive.

I then began to explore the energy utilization side of the balance sheet.

"How much TV are the girls watching?" Here the answer was significantly different from the year before. The television was now on all the time.

"Why?" It turns out that since taking over the new business, Maria had been so busy keeping the books that she admitted using television as a babysitter. In the past, she would often take them outside and spend a good part of the day playing. But now the girls are full-time couch potatoes.

I told Maria what she had suspected herself: that the inactivity was the major contributor to Tiana's weight gain.

Digging deeper, I asked if there was a way that she could do the bookkeeping in the evening after the girls were asleep. The problem with that solution is that the younger child still sleeps poorly and Maria feels she must lie down with her whenever she wakes. She feels that she can't let her cry because it will interrupt her already sleep-deprived and overworked husband. With evenings consumed by sleep refusal, Maria must steal daytime from the girls to do the books. So we were back to talking about sleep, the same issue that Maria and I had batted around for the last 4 years.

Although growth curves as dramatic as Tiana's are unusual, when they do occur they reopen my eyes to the complexity of the obesity problem.

Sometimes the steep rise in body mass index is the result of a cookie-baking grandmother assuming the full-time daycare responsibilities. In other cases, opportunities for activity are lost and dietary supervision gets lost in the family shuffle.

In any case, obesity is one of those rare situations where my simplistic survival tool fails me.

## LETTERS

Letters in response to articles in PEDIATRIC 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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