## High Schools Urged to Aid in Asthma Management

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pproximately one in six U.S. high school students has asthma, according to the Centers for Disease Control and Prevention.

The CDC examined data from the 2003 national Youth Risk Behavior Survey (YRBS) of public and private school students in grades 9-12 in all 50 states and the District of Columbia.

The CDC noted that 18.9% of students had been told by a doctor or nurse at least once that they had asthma; 16.1% had current asthma; and 37.9% of those with current asthma had a wheezing episode or attack during the 12 months preceding the YRBS.

"These findings underscore the need for health care providers, schools, families, and public health care practitioners to be prepared to respond to asthma-related emergencies and to help students manage their asthma," said the CDC (MMWR 2005:54:766-7).

The survey used a three-stage cluster sample design to obtain cross-sectional data representative of the nation's high school students. The school, student, and overall response rates were 81%, 83%, and 67%, respectively. The first question "Has a doctor or nurse ever told you that you have asthma?" was answered by 13,553 students. The second question "During the past 12 months, have you had an episode of asthma or an asthma attack?" was answered by 13,232 students. Each student was expected to answer both questions, and 13,222 students did so.

Fewer Hispanic students (15.6%) than black (21.3%) or white (19.3%) reported lifetime asthma. And fewer Hispanic students (12.9%) than black (16.8%) or white (17%) reported current asthma, as did a smaller proportion of 10th-grade students (15%), compared with 9th-grade students (17.5%). In addition, more 9th-grade students with current asthma reported having an attack or episode (45%), compared with 10th (36.4%), 11th (34.6%), and 12th graders (33%). Girls reported higher rates of asthma episodes than did boys (44.5%, compared with 31.1%). All these data reached statistical significance.

These YRBS results differ from those of the 2003 National Health Interview Survey (NHIS) reported by the CDC earlier this year. In that unpublished survey, parents reported 14.5% of their children aged 14-17 years had lifetime asthma; 8.9% had current asthma, and among that group, 57% had an asthma episode or attack during the preceding year. The agency said the differences between the two surveys might be attributable to differences in age (grades 9-12 versus 14-17 years), the fact that data were reported by students and not by parents, and question wording. Further research is needed to better understand the reasons for these differences and their implications for asthma management, the CDC said.

The agency also said it is noteworthy that while other national data sources have revealed black children get asthma more often than do white children, the YRBS survey found no such racial difference for current asthma. Further research also may shed light on why more girls with asthma and more ninth-grade students reported having had an asthma episode or attack during the preceding 12 months.

The YRBS investigators emphasize that their survey has limitations: The data do not include the 5% of adolescents not enrolled in high school; the extent of underor overreporting of asthma and asthma episodes cannot be determined; and data for Hispanic respondents are derived from a combination of Mexican American, Puerto Rican, and other Hispanic students.

"A primary prevention strategy for asthma does not exist, but asthma can be controlled," the CDC said. "Schools can help improve asthma management among students whose asthma is not well controlled by providing health services, education, and control of environmental triggers. The CDC, other federal agencies, the National Asthma Education and Prevention Program, and national nongovernmental organizations have developed resources to support asthma management activities at schools. CDC's 'Strategies for Addressing Asthma Within a Coordinated School Health Program' recommends researchbased activities for schools to help students manage their asthma." Management includes providing a written action plan for all asthmatic students, ensuring those students receive education on asthma, and enforcing a schoolwide smoking ban.

LPITOR® (Accountation Calcium) Tables
Brief Summary of Prescribing Information
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development was delayed (rotorod performance at 100 mg/kg/day and acoustic startle at 225 mg/kg/day, pinnae detachment and eye opening at 225 mg/kg/day. These doses correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg) the human AUC at 80 mg/day. Rare reports of congenital anomales have been received following intrauterine exposure to HMC-CoA reductase inhibitors. There has been one report of severe congenital bony deformity, tracheo-esophageal fistula, and anal atresis (VATER association) in a baby born to a woman who took lovastatin with dextroamphetamine sulfate during the first trimester of pregnancy. LIPTOR should be daministered to women of child-bearing optential only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the woman becomes pregnant while taking LIPTOR is should be discontinued and the patient advised again as to the potential hazards to the fetus. Nursing Mothers — Nursing rat pups had plasma and liver drug levels of 50% and 40%, respectively, of that in their mother's mik. Because of the potential horactins in nursing infants, women taking LIPTOR is should be discontinued and the potential horactins in nursing infants, women taking LIPTOR had an adverse experience by patient by and postmenarchal grifs. Patients treated with LIPTOR had an adverse experience so beserved in both groups, regardless of causality spaces, the controlled clinical trial of 6 months duration in addescent boys and postmenarchal grifs. Patients treated with LIPTOR had an adverse experience so beserved in both groups, regardless of causality sassessment, were intertions. Doses greater than 20 mg have not been studied in this patient population. In this limited controlled study, there was no detectable effect on growth or sexual maturation in boys or on menstrual cycle length in girls (see CUNITAAINDICATIONS and PERCAUTIONS, Pregnancy). LIPTOR has not been studied in controlled dinical trials involving pre-pubertal patients or patients young by a girl in lip rescen

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Adverse Events in Placebo-Controlled Studies (% of Patients)					
BODY SYSTEM	Placebo	Atorvastatin	Atorvastatin	Atorvastatin	Atorvastatin
Adverse Event		10 mg	20 mg	40 mg	80 mg
	N = 270	N = 863	N = 36	N = 79	N = 94
BODY AS A WHOLE					
Infection	10.0	10.3	2.8	10.1	7.4
Headache	7.0	5.4	16.7	2.5	6.4
Accidental Injury	3.7	4.2	0.0	1.3	3.2
Flu Syndrome	1.9	2.2	0.0	2.5	3.2
Abdominal Pain	0.7	2.8	0.0	3.8	2.1
Back Pain	3.0	2.8	0.0	3.8	1.1
Allergic Reaction	2.6	0.9	2.8	1.3	0.0
Asthenia	1.9	2.2	0.0	3.8	0.0
DIGESTIVE SYSTEM					
Constipation	1.8	2.1	0.0	2.5	1.1
Diarrhea	1.5	2.7	0.0	3.8	5.3
Dyspepsia	4.1	2.3	2.8	1.3	2.1
Flatulence	3.3	2.1	2.8	1.3	1.1
RESPIRATORY SYSTEM					
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
SKIN AND APPENDAGES					
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL SYSTEM					
Arthra <b>l</b> gia	1.5	2.0	0.0	5.1	0.0
Mvalgia	1.1	3.2	5.6	1.3	0.0

atorvastatin in clinical trials. The events in italics occurred in ≥2% of patients and the events in plain type occurred in <2% of patients. Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized edema. Digestive System: Nausea, gastroenteritis, liver function tests abnormal, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, biliary pain, chelificis, duodenal ulcer, dysphagia, enteritis, melena, gum hemorrhage, stomach ulcer, tenesmus, ulcerative stomatitis, hepatitis, paneuronia, panoreatitis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. Narvous System: Insomnia, dizziness, paraesthesia, somnolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertonia. Musculos/teletal System: Arthritis, leg cramps, burstis, tenosynovitis, myssthenia, tendinous contracture, myositis, Skin and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, urticaria, ezem, seborrhea, skin ulcer. Urogenital System Urinary ract infection, urinary frequency, cystitis, hemotrhage, albuminuria, breast enlargement, metrorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency, abnormal ejaculation, uterine hemorrhage, Special Senses: Ambyopia, tinnitus, dry eyes, refraction disorder, eye hemorrhage, dealmess, glaucoma, parosmia, taste loss, taste perversion. Cardiovascular System: Palpitation, vasodilatation, syrcope, migraine, postural hypotensino, phlebitis, arrhythmia, angina pectoris, hypertension. Metabolic and Murritional Disorders: Peripheral dediadobov, regardless of causality assessment, include the following-anaphylaxis, angioneurotic edema, bullous System: Palpitation, vasodilation, syrcope, migraine, postural hypotensino, phlebitis, arrhythmia

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