Mass. Curtails Free Vaccines for Older Children

BY JANE ANDERSON

Contributing Writer

assachusetts health authorities, facing huge demands for vaccines to prevent meningitis, diphtheria/tetanus/pertussis, and chickenpox, have asked the state's pediatricians to limit use of the shots in older children under the state's free vaccine program.

Although state officials said that no child will go without needed vaccines, pediatricians in Massachusetts said the shortage, plus a state decision last year not to cover the quadrivalent human papillomavirus vaccine (Gardasil), marks the end of the state's universal vaccination program, and is leading to additional red tape

Previously, Massachusetts provided all childhood vaccinations for every child, regardless of insurance coverage or coverage by the joint federal-state Vaccines for Children (VFC) program. In the past, as shots were added, the state Department of Public Health (DPH) typically bought enough vaccine stock to cover the children in the age group recommended, plus a bit more to help older children "catch up," DPH spokeswoman Donna Rheaume said in an interview.

Massachusetts has been in the forefront of states that buy vaccines for children and then distribute them to physicians, and will spend about \$40 million this year to buy pediatric vaccines, she said.

But this year, the state has seen unprecedented demand for three vaccines conjugate meningococcal vaccine (MCV4) (Menactra), tetanus-diphtheria acellular pertussis (Tdap; Adacel or Boostrix), and varicella vaccine (Varivax), Ms. Rheaume said. Therefore, there is only enough vaccine left to cover seventh-graders, the group that is routinely given the shots.

The only change now is that providers will have to bill the insurance companies for non-VFC-eligible children—children who have private health insurance," said Ms. Rheaume. There are no plans to buy additional vaccine doses, she said, adding that "in 5 years, we anticipate all children will have received these vaccines.'

But Massachusetts insurers are not set up to pay for childhood vaccines because the state has provided them for free until now, said Dr. David Link, chief of pediatrics at Cambridge Health Alliance. "What was taken for granted—that all children would have full access to vaccines—that compact has now disappeared," he said in an interview.

We're now creating disparities we never have had before," added Dr. Sean Palfrey, professor of pediatrics at Boston University and former president of the Massachusetts chapter of the American Academy of Pediatrics.

Both Dr. Palfrey and Dr. Link said that pediatricians are facing huge paperwork hurdles to prove children are eligible for the free federal-state program, and that they also have needed to chase down doses of the three vaccines in question for children whose vaccinations now must be paid for by private insurance companies.

The reason for the changes in state policy is the much higher cost of newer vaccines, such as Menactra and Gardasil, said Dr. Link.

In fact, he said, the decision by the Massachusetts legislature in 2007 not to cover the HPV vaccine-which would have cost up to \$14 million a yearmarked the end of the last state program that provided free, universal vaccinations. Despite heavy lobbying of Massachusetts lawmakers by physicians and children's advocates, there currently are not enough votes to reverse the decisions to curtail the vaccine program, he said.

Eventually, there will be outbreaks of preventable disease, Dr. Link predicted: Some kid is going to wind up very damaged or dead because of this, because we decided we preferred some more asphalt [instead of] protecting kids.'

$Vyvanse^{TM}$ (lisdexamfetamine dimesylate)

BRIEF SUMMARY: Consult the Full Prescribing Information for complete product information

UR DISPENSED SPANINGET.
MISUSE OF AMPHETAMINE MAY CAUSE SUDDEN DEATH AND SERIOUS CARDIOVASCULAR ADVERSE EVENTS.

INISUSE OF AMPHETAMINE MAY CAUSE SUDDEN DEATH AND SERIOUS CARDIOVASCULAR ADVERSE EVENTS.

INDICATIONS AND USAGE

Vyvarse is indicated for the treatment of Attention-Deficit/Hyperactivity Disorder (ADHD).

The efficacy of Vyvarse in the treatment of Attention-Deficit/Hyperactivity Disorder (ADHD).

The deficacy of Vyvarse in the treatment of ADHD was established on the basis of two controlled trials in children aged 6 to 12, who met

DSM-IVP* criteria for ADHD (see CUINICAL TRIALS).

A diagnosis of Attention-Deficit/Hyperactivity Disorder (ADHD; DSM-IVP) implies the presence of hyperactive-impulsive or inattentive sometiment and were present before age 7 years. The symptoms must cause clinically significant impriment, in social, academic, or occupational functioning, and be present in two or more settings, e.g., at school (or work) and at home. The symptoms must not be better accounted for by another mental disorders for the Inatentive Type, at least six of the following symptoms must have persisted for at least 6 months: lack of attention to details/careless mistakes; tack of sustained attention; poor islenation; avoids tasks requiring sustained mental effort; loses things; easily distracted; torgetful. For the Hyperactive-impulsive bype, at least six of the following symptoms must have persisted for at least 6 months: fact of the symptoms of the sympt

be impaired. The diagnosis must be based upon a complete history and evaluation of the child and not solely on the presence of the required number of DSM-IVP characteristics.

Need for Comprehensive Treatment Program: Vyvanse is indicated as an integral part of a total treatment program for ADHD that makindude other measures (psychological, educational, social) for patients with this syndrome. Drug treatment may not be indicated for all children with this syndrome. Stimulants are not intended for use in the child who exhibits symptoms secondary to environmental factors and/or other primary psychiatric disorders, including psychosis. Aporpropriate deucational placement is essential and psychosocial intervention is often helpful. When remedial measures alone are insufficient, the decision to prescribe stimulant medication will depend upon the physician's assessment of the chronicity and severity of the child's symptoms.

Long-Term Use: The effectiveness of Vyvanse for long-term use, i.e., for more than 4 weeks, has not been systematically evaluated in controlled traits. Therefore, the physician who elects to use Vyvanse for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

terioscierosis, symptomatic cardiovascular disease, moderate to severe hypertension, hyperthyroidism, known hypersensitivity asy to the sympathomimetic amines, glaucoma.

regitations states. Patients with a history of drug abuse. During or within 14 days following the administration of monoamine oxidase inhibitors (hypertensive crises may result).

NAKHNINGS Serious Cardiovascular Events Sudden Death and Pre-existing Structural Cardiac Abnormalities or Other Serious Heart Problems

Children and Adolescents

Sudden death has been reported in association with CNS stimulant treatment at usual doses in children and adolescents with structural
cardiac abnormalities or other serious heart problems. Although some serious heart problems alone carry an increased risk of sudden
death, stimulant products generally should not be used in children or adolescents with known serious structural cardiac abnormalities,
cardiomyogathy, serious heart rightmen abnormalities, or other serious cardiac problems that may place them at increased vulnerability to
the sympathomimetic effects of a stimulant drug (see CONTRAINDICATIONS).

Advantage.

S — on deaths, stroke, and myocardial infarction have been reported in adults taking stimulant drugs at usual doses for ADHD. Alt ple of stimulants in these adult cases is also unknown, adults have a greater likelihood than children of having serious strace abnormalities, cardiomyopathy, serious heart frythm abnormalities, coronary artery disease, or other serious cardiac proi swith such abnormalities should also generally not be treated with stimulant drugs (see CONTRAINDICATIONS). Treatision and other Cardiovascular Conditions

Adults with such abnormablites should also generally not be treated with stimulant drugs (see CONTRAINDICATIONS). Hypertension and other Cardiovascular Conditions. Stimulant medications cause a modest increase in average lood pressure (about 2-4 mmHg) and average heart rate (about 3-6 bpm), and individuals may have larger increases. While the mean changes alone would not be expected to have short-term consequences, all patients should be monitored for larger changes in heart rate and blood pressure. Caution is indicated in treating patients whose underlying medical conditions might be compromised by increases in blood pressure. Caution is indicated in treating patients whose underlying medical conditions might be compromised by increases in blood pressure or heart rate, e.g., those with pre-existing hypertension, heart failure, recent myocardial infarction, or ventricular arrhythmia (see CONTRAINDICATIONS). Assessing Cardiovascular Status in Patients being Treated with Stimulant Medications. Children, adolescents, or adults who are being considered for treatment with stimulant medications should have a careful history (including assessment for a family history of sudend eath or ventricular arrhythmia) and physical exam to assess for the presence of cardiac disease, and should receive further cardiac evaluation if findings suggest such disease (e.g. electrocardiogram and echocardiogram). Patients who develop symptoms such as exercitional chest pain, unevaplained syncope, or other symptoms suggestive of cardiac disease during stimulant treatment should undergo a prompt cardiac evaluation.

Psychiatric Adverse Events

Pre-Existing Psychosis

Administration of stimulants may exacerbate symptoms of behavior disturbance and thought disorder in patients with pre-existing psychotic disorder.

Bipolar Illness

Particular care should be taken in using stimulants to treat ADHD patients with comorbid bipolar disorder because of concern for possible induction of mixed/ manic episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbid depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression.

Treatment emergent psychotic or manic symptoms. e.g., hallucinations, delusional thinking, or mania in children and adolescents without prior history of psychotic ilness or mania can be caused by stimulants at usual doses. If such symptoms occur, consideration should be given to a possible causal role of the stimulant, and discontinuation of treatment may be appropriate. In a poloed analysis of multiple short-term, placebo-controlled studies, such symptoms occurred in about 0.1% (4 patients with events out of 3482 exposed to methylphenicate or amphetamine for several weeks at usual doses) of stimulant-treated patients compared to 0 in placebo-treated patients.

Agoression

methylphenidate or amphetamine for several weeks at usual doses) of stimulant-treated patients compared to 0 in placebo-treated patients. Aggression
Aggressive behavior or hostility is often observed in children and adolescents with ADHD, and has been reported in clinical traits and the postmarketing experience of some medications indicated for the treatment of ADHD. Although there is no systematic evidence that stimulants cause aggressive behavior or hostility, patients beginning treatment for ADHD should be monitored for the appearance of or worsening of aggressive behavior or hostility.

Long-Term Suppression of Growth
Careful follow-up to diveight and height in children ages 7 to 10 years who were randomized to either methylphenidate or non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups on newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups on newly methylphenidate-treated and non-medication treatment groups over 14 months, as well as in naturalistic subgroups on newly methylphenidate-treated and non-medication treatment groups over 15 months and groups over 15 months while the groups of th

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Difficulties with accommodation and blurring of vision have been reported with accommodation and blurring of vision have been reported with accommodation and blurring of vision have been reported with a commodation and the prescribed or dispensed at one time in order to minimize the possibility of overdosage. Vyvanse should be used with caution in patients who use other sympathonimetic drugs. Tites: Amphetamines have been reported to exacerbate motor and phonic tics and fourettes syndrome. Therefore, clinical evaluation for tics and fourettes syndrome in children and their families should precede use of stimulant medications. Information for Patients: Amphetamines may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or vehicles; the patient should therefore be cautioned accordingly. Prescribers or other health professionals should intrimor patients, their families, and their caregivers about the benefits and risks associated with treatment with lisdexamitetamine and should counsel them in its appropriate use. A patient Medication Guide is available for Vyvanse. The prescriber or health professional should instruct patients, their ramilies, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide is reprinted at the end of this double and the medication of the increase the concentration of the incited

species of the amphetamines molecule, thereby increasing urinary excretion. Both groups of agents lower blood levels and efficacy of amphetamines.

Adrenargic blockers—Adrenergic blockers are inhibited by amphetamines.

Adrenargic blockers—Adrenergic blockers are inhibited by amphetamines.

Antilepressants. tricyclic—Amphetamines may enhance the activity of tricyclic antidepressants or sympathomimetic agents; d-amphetamine with designamine or protriptyline and possibly other tricyclics cause striking and sustained increases in the concentration of d-amphetamine in the brain; cardiovascular effects can be potentiated.

MAO inhibitors—MAOI antidepressants, as well as a metabolite of incepting-thrine and other monoamines from adrenergic nerve endings; this can cause headaches and other signs of hypertensive crisis. A variety of toxic neurological effects and malignant hyperprevact and occur, sometimes with fatal results.

Adhibitationies—Amphetamines may counteract its sedative effect of antihistamines.

Adhibitationies—Amphetamines hippotensive effects of antihistamines.

Chlorpomazine—Chlorpomazine blocks dopamine and norepinaphrine receptors, thus inhibiting the central stimulant effects of amphetamines and can be used to treat amphetamine poisoning.

**Efficience in a strict of adhibitation and a protripinal absorption of ethosuximide.

Haloperidol—Haloperidol**—Haloperidol blocks dopamine receptors, thus inhibiting the central stimulant effects of amphetamines.

Meperidine—Amphetamines no effects of antiphetamines may be inhibited by lithium carbonate.

Meperidine—Amphetamines no effects of meperidine.

Meperidine—Amphetamines no effects of emperidines.

Meperidine—Amphetamines no effect

henamine therapy—Urinary excretion of amphetamines is increased, and efficacy is reduced by acidifying agents used in repairing the herapy. methenamine therapy.

Morepinephrine—Amphetamines enhance the adrenergic effect of norepinephrine.

Morepinephrine—Amphetamines enhance the adrenergic effect of norepinephrine.

Phenobarbital—Amphetamines may delay intestinal absorption of phenobarbital; co-administration of phenobarbital may produce a synergistic anticonvulsant action.

Phenyloin—Amphetamines may delay intestinal absorption of phenyloin; co-administration of phenyloin may produce a synergistic anticonvulsant action.

Propoxyphen—In cases of propoxyphene overrinesae amphetamine CNLS view.

Usage in Nursing Mothers: Amphetamines are excreted in human milk. Mothers taking amphetamines should be advised to refrain from nursing.

Pediatric Use: Vyvanse is indicated for use in children aged 6 to 12 years.

A study was conducted in which juvenile rats received oral doses of 4, 10, or 40 mg/kg/day of lisdexamfetamine from day 7 to day 63 of age. These doses are approximately 0.3, 0.7, and 3 times the maximum recommended human daily dose of 70 mg mg on a mg/m² basis. Dose-related decreases in food consumption, bodyweight gain, and crown-rump length wers even; after a four week drive receivery period bodyweights and crown-rump lengths had significantly recovered in females but were still substantially reduced in males. Time to vaginal opening was delayed in females at the highest dose, but there were not rung effects on fertility when the animals were mated beginning on day 85 of age.

In a study in which juvenile dogs received lisdexamfetamine for 6 months beginning at 10 weeks of age, decreased bodyweight gain was seen at all doses tested (2, 5, and 12 mg/kg/day, which are approximately 0.5, 1, and 3 times the maximum recommended human daily dose on a mg/m² basis). This effect partially of fully reversed during a four week drug-free recovery period.

Use in Children under Six Years of Age: Lisdexamfetamine dimesylate has not been studied in 3-5 year olds. Long-term effects of amphetamines in children have not been well established. Amphetamines are not recommended for use in children average and the properties of the armonized of the properties.

The stated frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event for the type listed.

Adverse events associated with discontinuation of treatment: Ten percent (2/12/18) of tyyoanse-treated patients discontinued use downerse events compared to 15% (17/2) who received placebo. The most frequent adverse events leading to discontinuation in at least 1% of Vyyanse-treated patients and at a rate at least twice that of placebo) were EGG druge-related (i.e., leading to discontinuation in at least 1% of Vyyanse-treated patients and at a rate at least twice that of placebo) were EGG votage criteria for admitted the presentation of the presentat

Table 1 Adverse Events Reported by 2% or More of Pediatric Patients Taking Vyvanse in a 4 Week Clinical Trial			
Body System	Preferred Term	Vyvanse (n=218)	Placebo (n=72)
Gastrointestinal Disorders	Abdominal Pain Upper Dry Mouth Nausea Vomiting	12% 5% 6% 9%	6% 0% 3% 4%
General Disorder and Administration Site Conditions	Pyrexia	2%	1%
Investigations	Weight Decreased	9%	1%
Metabolism and Nutrition	Decreased Appetite	39%	4%
Nervous System Disorders	Dizziness Headache Somnolence	5% 12% 2%	0% 10% 1%
Psychiatric Disorders	Affect lability Initial Insomnia Insomnia Irritability Tic	3% 4% 19% 10% 2%	0% 0% 3% 0% 0%
Skin and Subcutaneous Tissue Disorders	Rash	3%	0%

motor and phonic lics and Tourette's syndrome, seatures, Strobe.

Seatures, Strobe.

Gastrointestinal: Dryness of the mouth, unpleasant tasts, clarifne, constipation.

Allergic: Urticaria, hypersensitivity reactions including angioedema and anaphylaxis. Serious skin rashes, including Stevens Johnson Syndrome and toxic epidermal necrolysis have been reported. Endocrine: Impotence, changes in ibido.

DRUG ABUSE AND DEPENDENCE

Human Studies in a human abuse liability study, when equivalent oral doses of 100 mg lisdexamfetamine dimesylate and 40 mg immediate release d-amphetamine sultate were administered to individuals with a history of drug abuse, lisdexamfetamine 100 mg produced subjective responses on a scale of "Drug Liking Effects". "Amphetamine Effects", an "Stimulant Effects that were significantly less than d-amphetamine immediate release 40 mg. However, oral administration of 150 mg lisdexamfetamine produced increases in positive subjective responses on these scales that were statistically indistinguishable from the positive subjective responses or drough and and 200 mg of diethylpropion (G-IV), intravenous administration of 50 mg lisdexamfetamine to individuals with a history of drug abuse produced by 40 mg of oral immediate-release d-amphetamine and 200 mg of diethylpropion (G-IV), intravenous administration of 50 mg lisdexamfetamine to individuals with a history of drug abuse produced positive subjective responses on scales measuring "Drug Liking", "Euphoria", "Amphetamine Effects", and "Benzedrine Effects" that were greater than placebo but less than those produced by an equivalent dose (20 mg) of intravenous administration of 50 mg lisdexamfetamine produced by a equivalent dose (20 mg) of intravenous administration of 50 mg lisdexamfetamine produced by a equivalent dose (20 mg) of intravenous administration of 50 mg lisdexamfetamine produced behavioral effects qualitatively evaluate to the produced by the subjective to the produced by the produced by a equivalent dose (20 mg) of intravenous administration of 50 mg lisdexamfetamine produced behavioral effects qualitatively evaluate to the produced by the produced by a equivalent dose (20 mg) of intravenous administration of 50 mg lisdexamfetamine produced by the prod

less than that for occaine, but greater than that of placebo.

OVERDOSAGE
Individual response to amphetamines varies widely, Toxic symptoms may occur idiosyncratically at low doses.
Symptoms: Manifestations of acute overdosage with amphetamines include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, panis states, hyperpyrexia and rhabdomyolysis. Fatigue and depression usually follow the central nervous system stimulation. Cardiovascular effects include arrhythmias, hyperfension or hypotension and circumy collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma.
Treatment: Consult with a Certified Poison Control Center for up to date guidance and advice. Management of acute amphetamine intoxcation is largely symptomatic and includes gastric lavage, administration of activated charcoal, administration of a cathartic intoxcation is largely symptomatic and includes gastric lavage, administration of activated charcoal, administration of a cathartic intoxcation is argively symptomatic and includes gastric lavage, administration of activated charcoal, administration of a cathartic intoxcation is argively symptomatic and includes gastric lavage, administration of activated charcoal, administration of a cathartic intoxcation in this regard. Acidification of the intoxcation is expensively approximate to a consideration of a construction of a cathartic and includes amphetamine with the expensive six of acute rearral failure if myoglobinuria is present fuzue severe hypertension complicates amphetamine with when sufficient saddition has been achieved. Chloropromazine antagonizes the central stimulant effects of amphetamines and can be used to treat amphetamine intoxcation.

Representation

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