Treat Drug Abuse, Eating Disorder Concurrently

BY SHARON WORCESTER Tallahassee Bureau

ATLANTA — Eating disorders and substance abuse often go hand in hand, and treatment of patients with both is often improved when there is a focus on body reclamation, Adrienne Ressler said at a conference jointly sponsored by the National Association of Addiction Treatment Professionals and the Medical College of Georgia.

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Studies suggest that the prevalence of substance abuse in patients with eating disorders is eight times greater than in the

general population and that the prevalence of eating disorders in substance abuse patients is five times greater than the general population, said Ms. Ressler, national training director at the Renfrew Center in Coconut Creek, Fla.

She noted that bulimia patients-who are more likely than anorexic patients to use drugs and alcohol-have higher suicide rates when they have comorbid substance abuse.

Eating disorders often appear to develop after a substance use disorder is treated, "but I'm not sure that the eating disorder wasn't always there ... that the drive for thinness did not put some of these women on a path that got them hooked," she said.

Drugs used to suppress appetite-alcohol, amphetamines, cocaine, diet pills, caffeine, and nicotine-are addictive, and

Nursing Mothers: It is not known whether methylphenidate is excreted in human milk, Because many drugs are excreted in human milk, caution should be exercised if METADATE® CD (methylphenidate HCI, USP) Extended-Release Capsules are administered to a purcharge upper

Because many drugs are excreted in human milk, caution should be exercised if MEADATE °C (methylphenidate HCI, USP) Extended-Release Capsules are administered to a nurrely of the state of the state



1: Events, regardless of causality, for which the incidence for patients treated with METADATE CD was at least 5% and greater than the incidence among placebo-treated patients. Incidence has been rounded to the nearest whole number.

Adverse Events with Other Methylphenidate HCI Products: Nervousness and insomnia are the most common adverse reactions reported with other methylphenidate products. Other reac-tions include hypersensitivity (including skin rash, urticaria, fever, arthralgia, exfoliative dermati-tis, erythema multiforme with histopathological findings of necrotizing vasculitis, and thrombo-cytopenic purpura); anorexia; nausea; dizziness; palpitations; headache; dyskinesia; drowsi-ness; blood pressure and pulse changes, both up and down; tachycardia; angina; cardiac arrhythmia; abdominal pain; weight loss during prolonged therapy. There have been rare reports of Tourette's Syndrome. Toxic psychosis has been reported. Although a definite causal relationship has not been established, the following have been reported in patients taking this drug: instances of abnormal liver function, ranging from transaminase elevation to hepatic drug: instances of abnormal liver function, ranging from transaminase elevation to hepatic coma; isolated cases of cerebral arteritis and/or occlusion; leukopenia and/or anemia; transient coma; isolated cases of cerebral arteritis and/or occlusion; leukopenia and/or anemia; transient depressed mood; a few instances of scalp hair loss. Very rare reports of neuroleptic malignant syndrome (NMS) have been reported, and, in most of these, patients were concurrently receiv-ing therapies associated with NMS. In a single report, a ten year old boy who had been taking methylphenidate for approximately 18 months experienced an NMS-like event within 45 min-utes of ingesting his first dose of venlafaxine. It is uncertain whether this case represented a drug-drug interaction, a response to either drug alone, or some other cause. In children, loss of appetite, abdominal pain, weight loss during prolonged therapy, insom-nia and tachycardia may occur more frequently; however, any of the other adverse reactions listed above may also occur.

DRUG ABUSE AND DEPENDENCE: Controlled Substance Class: METADATE CD, like other methylphenidate products, is classified as a Schedule II controlled substance by federal regulation. Abuse, Dependence, and Tolerance: See WARNINGS for boxed warning containing drug endence information

Abuse and dependence information. **OVERDOSAGE:** Signs and Symptoms: Signs and symptoms of acute methylphenidate overdosage, resulting principally from overstimulation of the CNS and from excessive sympa-thomimetic effects, may include the following: vomiting, agitation, tremors, hyperreflexia, mus-cle twitching, convulsions (may be followed by coma), euphoria, confusion, hallucinations, delirium, sweating, flushing, headache, hyperpyrexia, tachycardia, palpitations, cardiac arrhythmias, hypertension, mydriasis, and dryness of mucous membranes. **Recommended Treatment:** Treatment consists of appropriate supportive measures. The patient must be protected against self-injury and against external stimuli that would aggravate overstimulation already present. Gastric contents may be evacuated by gastric lavage as indicated. Before performing gastric lavage, control agitation and seizures if present and pro-tect the airway. Other measures to detoxify the gut include administration of activated char-coal and a cathartic. Intensive care must be provided to maintain adequate circulation and respiratory exchange: external cooling procedures may be required for hyperprexia. Efficacy of peritoneal dialysis or extracorporeal hemodialysis for METADATE CD over-

al dialvsis or e acorporeal he nodialvsis for ME perito dosage has not been established. The prolonged release of methylphenidate from METADATE CD should be considered patients with overdose when treatin

Poison Control Center: As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poison con-trol center for up-to-date information on the management of overdosage with methylphenidate. For more information call 1-888-METADATE (1-888-638-2328) or visit www.metadate-cd.com

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some addictive drugs, such as laxatives and alcohol, can also be used to induce purging, she explained.

Regardless of which disorder comes first, or if the two are linked, concurrent treatment can be beneficial and is the current trend, Ms. Ressler said.

In her experience treating women, when the two disorders aren't treated together, one tends to get worse while the other improves.

A key part of treatment for women involves reclaiming the body.

This may seem paradoxical for eating disorder patients who are constantly obsessed with their bodies, but rather than living in their bodies, they are living in a world of images and recurring voices telling them how their bodies should look, Ms. Ressler ex-

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plained. It is important for them to take back the control, and doing so requires that they identify what they are longing for. Integrated mindbody medicine can be useful for this, she commented.

Massage, meditation, and

"drumming" have been shown to be useful in these patients. As an adjunct to psychotherapy, meditation can promote general well-being, reduce anxiety and pain, and promote self-awareness and self-regulation.

This is important because there is growing evidence that compulsive eaters and chronic dieters are disengaged from internal self-regulatory systems of control and are overly influenced by external cues, belief, systems, and emotional signals, Ms. Ressler noted.

In one pilot study, meditation was used to reduce stress, and this lowered bingeeating episodes from 4 to 1.25 per week, she said.

In another study, massage performed on bulimia patients twice weekly for 5 weeks in conjunction with their therapy had an immediate beneficial effect on anxiety, depression, levels of serotonin and dopamine, and body image.

Rhythmic therapy, such as drumming, also appears to have soothing effects. It has been suggested that drumming can increase body awareness, build self-esteem, and strengthen impulse control, she said at the meeting.

These approaches to treatment can be beneficial in patients with eating disorder and substance abuse because the body is the controller in these patients, and they often come to hate their bodies because of that-the body can become the target for self-harm such as burning, skin picking, and self-cutting.

"These patients have an adversarial relationship with the body. ... We need to help them calm the body and learn to selfsoothe," Ms. Ressler said.

METADATE[®]CD ((methylphenidate HCl, USP) K Only
 R312F Rev. 9/03
 BRIEF SUMMARY: Please see full Prescribing Information.
 INDICATION AND USAGE: Attention Deficit Hyperactivity Disorder (ADHD): METADATE CD is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD). The efficacy of METADATE CD in the treatment of ADHD was established in one controlled trial of children aged 6 to 15 who met DSM-IV criteria for ADHD was established in one controlled trial of children aged 6 to 15 who met DSM-IV criteria for ADHD (see CLINICAL PHARMACOLOGY).
 CONTRAINDICATIONS: Agitation: METADATE CD is contraindicated in patients with marked anxiety, tension and agitation, since the drug may aggravate these symptoms.
 Hypersensitivity to Methylphenidate: METADATE CD is contraindicated in patients known to be hypersensitive to methylphenidate or other components of the product.
 Glaucoma: METADATE CD is contraindicated in patients with marked anxiety. The CD is contraindicated in patients with glaucoma.
 Tics: METADATE CD is contraindicated in patients with glaucoma.
 Monoamine Oxidase Inhibitors: METADATE CD is contraindicated during treatment with monoamine oxidase Inhibitors: METADATE CD is contraindicated during treatment with monoamine oxidase inhibitor (hypertensive crises may result).
 WARNINGS: Depression: METADATE CD should not be used to treat severe depression.
 Fatigue: METADATE CD should not be used for the acted to I long-term use of methylphenidate in children are not yet available. Although a causal relationship has not been established, suppression of growth (i.e., weight gain, and/o height) has been reported with the long-term use of stimulants in children. Therefore, patients requiring long-term therapy should heve their treatment interrupted.

should be carefully monitored. Patients who are not growing or gaining weight as expected

should have their treatment interrupted. Patients who are not growing or gaining weight as expected should have their treatment interrupted. Psychosis: Clinical experience suggests that in psychotic patients, administration of methylphenidate may exacerbate symptoms of behavior disturbance and thought disorder. Seizures: There is some clinical evidence that methylphenidate may lower the convulsive threshold in patients with prior history of seizures, in patients with prior EEG evidence of seizures, and, very rarely, in absence of history of seizures and no prior EEG evidence of seizures. In the presence of seizures, the drug should be discontinued. Hypertension. Blood pressure should be monitored at appropriate intervals in patients with hypertension. Blood pressure should be wonitored at appropriate intervals in patients taking METADATE CD, especially patients with hypertension. Studies of methylphenidate have shown modest increases of resting pulse and systolic and diastolic blood pressure. Therefore, caution is indicated in treating patients whave bened recountered in rare cases. Difficulties with accommodation and blurring of vision have been recountered in rare cases. Difficulties with accommodation and blurring of vision have been resounded.

DRUG DEPENDENCE: METADATE CD should be given cautiously to patients with a history of drug dependence or alcoholism. Chronic abusive use can lead to marked tolerance and psychological dependence with varying degrees of abnormal behavior. Frank psychotic episodes can occur, especially with parenteral abuse. Careful supervision is required during withdrawal from abusive use since severe depression may occur Withdrawal following chronic therapeutic use may unmask symptoms of the underlying disorder that may require follow-up.

PRECAUTIONS: Hematologic Monitoring: Periodic CBC, differential, and platelet counts are advised during prolonged therapy.
Information for Patients: Patients should be instructed to take one dose in the morning before breakfast. The patients should be instructed that the capsule may be swallowed whole, or atternatively, the capsule may be opened and the capsule contents sprinkled onto a small amount (tablespoon) of applesauce and given immediately, and not stored for future use. The capsules and the capsule contents must not be crushed or chewed.
To assure safe and effective use of METADATE CD, the information and instructions provided in the patient information section should be discussed with patients.
Drug Interactions: Because of possible effects on blood pressure, METADATE CD should be used cautiously with pressor agents.
Human pharmacologic studies have shown that methylphenidate may inhibit the metabolism of coumarin anticoagulants, anticonvulsants (e.g., phenobarbital, phenytoin, primidone), and some antidepressants (tricyclics and selective serotonin reuptake inhibitors). Downward dose adjustment of these drugs may be required when given concomitantly with methylphenidate. It may be necessary to adjust the dosage and monitor plasma drug concentrations (or, in the case of coumarin, coagulation times), when initiating or discontinuing concomitant methylphenidate. Serious adverse events have been reported in concomitant use with clonidine, although no causality for the combination has been established. The safety of using methylphenidate in combination with donidine or other centrally acting alpha-2 agonists has not been systematically evaluated.

combination with clonidine or other centrally acting alpha-2 agonists has not been systemat-ically evaluated. Carcinogenesis, Mutagenesis, and Impairment of Fertility: In a lifetime carcinogenicity study carried out in B6C3F1 mice, methylphenidate caused an increase in hepatocellular adenomas and, in males only, an increase in hepatoblastomas, at a daily dose of approxi-mately 60 mg/kg/day. This dose is approximately 30 times and 4 times the maximum recom-mended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively. Hepatoblastoma is a relatively rare rodent malignant tumor type. There was no increase in total malignant hepatic tumors. The mouse strain used is sensitive to the development of hepatic tumors, and the significance of these results to humans is unknown. Methylphenidate did not cause any increases in tumors in a lifetime carcinogenicity study carried out in F344 rats; the highest dose used was approximately 45 mg/kg/day, which is approximately 22 times and 5 times the maximum recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively. In a 24-week carcinogenicity study in the transgenic mouse strain p53+/-, which is sensitive to genotoxic carcinogens, there was no evidence of carcinogenicity. Male and female mice were

In a 24-week carcinogenicity study in the transgenic mouse strain p53+/, which is sensitive to genotoxic carcinogens, there was no evidence of carcinogenicity. Male and female mice were fed diets containing the same concentration of methylphenidate as in the lifetime carcinogenicit. Mathylphenidate was not mutagenic in the *in vitro* Ames reverse mutation assay or in the *in vitro* mouse lymphoma cell forward mutation assay. Sister chromatid exchanges and chromosome aberrations were increased, indicative of a weak clastogenic response, in an *in vitro* assay in cultured Chinese Hamster Ovary cells. Methylphenidate was negative *in vivo* in males and females in the mouse bone marrow micronucleus assay. Methylphenidate did not impair fertility in male or female mice that were fed diets containing the drug in an 18-week Continuous Breeding study. The study was conducted at doses up to 160 mg/kg/day, approximately 80-fold and 8-fold the highest recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively. **Pregnancy: Teratogenic Effects: Pregnancy Category C.** Methylphenidate has been shown to have teratogenic effects in rabbits when given in doses of 200 mg/kg/day, which is approximately 100 times and 40 times the maximum recommended human dose of 58 mg/kg/day. However, this dose, which caused some maternal toxicity, resulted in decreased postnatal pup weights and survival when given to the dams from day one of gestation through the lactation period. This dose is approximately 30 fold and 6 fold the maximum recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively. There are no adequate and well-controlled studies in pregnant women. METADATE CD should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

should have their treatment interrupted.