VOLUME 11 - NUMBER 9

CNS SPECTRUMS[®] THE INTERNATIONAL JOURNAL OF NEUROPSYCHIATRIC MEDICINE

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The efficacy of Daytrana was established in clinical trials in children aged 6 to 12 years¹



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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. Sudden deaths, stroke, and myocardial infarction have been reported in adults taking stimulant drugs at usual doses in ADHD. Physicians should take a careful patient history, including family history, and physical exam to assess the presence of cardiac disease. Patients who report symptoms of cardiac disease such as exertional chest pain and unexplained syncope should be promptly evaluated. Use with caution in patients whose underlying medical condition might be affected by increases in blood pressure or heart rate.

New psychosis, mania, aggression, growth suppression, and visual disturbances have been associated with the use of stimulants. Use with caution in patients with a history of: psychosis; EEG abnormalities; bipolar disorder; depression. Growth and hematologic monitoring is advised during prolonged treatment. Patients should avoid applying external heat to the Daytrana patch. Skin irritation or contact sensitization may occur.

Daytrana should be given cautiously to patients with a history of drug dependence and alcoholism. Chronic abuse can lead to marked tolerance and psychological dependence. 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.

Common adverse events reported by patients who received Daytrana in clinical trials were decreased appetite, insomnia, nausea, vomiting, decreased weight, tics, affect lability, and anorexia, consistent with adverse events commonly associated with the use of methylphenidate.

Please see Brief Summary of Prescribing Information on adjacent page, including Boxed Warning.

References: 1. Doytrana (pockage insert). Wayne, Pa: Shire US Inc; 2006. 2. McGough JJ, Wigal SB, Abikoff H, et al. A randomized, double-billed, laboratory classroom assessment of methylphenidate transformation system in children with ADHD. J Atten Disord. 2006;9:476485. Daytrana[™] is a trademark of Shire Pharmaceuticals Ireland Limited. www.Daytrana.com **Shire** D430 09/06 1-800-828-2088 Shire US Inc. ... your ADHD Support Company"



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treatment of Attention Deficit Hyperactivity Disorder (ADHD): Daytrana[™] (methylphenidate transdermal system) is indicated for the
treatment of Attention Deficit Hyperactivity Disorder (ADHD): Daytrana[™] (see Decida bychological, educational, and social resources. Learning
may on be impaired. The diagnosis must be based upon a complete history and evaluation of the child and not solely on
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ADH) the finance of DSNH-YHP characteristical to transmert incide in messive a soline are
significant, the decision to prescribe stimulant medication will depend upon the phylician's assessment of the chronicity and
severity of the child's symptoms.
Long-term Use: The diffectives physical and becarts in the distribution and are transdered partical should periodically re-avaluate
the indiverse sol Daytrana[™] for the individual patient (see DOSAGE AND ADMINISTRATION).
CONTRAINOLOTIONES
Adytana[™] to contraindicated in patients with marked anxiety, tension, and agitation, since the drug may aggravate these
symptoms.
Hypersensitivity to Methylphenidate: Daytrana[™] is contraindicated in patients, known to be hypersensitive to
enthylphenida

may result) WARNINGS

International Control of the second se

(4 patients with events out of 3,482 exposed to methylphenidate or amphetamine for several weeks at usual doses) of stim-diant-treated patients compared to 0 in placebo-treated patients. Aggressive behavior or hostility is often observed in children and adolescents with ADHD, and has been reported in clinical trials and the postmarketing experience of some medications indicated for the treatment of ADHD. Although there is no sys-tematic evidence that stimulants cause aggressive behavior or hostility, patients beginning treatment of ADHD. Should be monitored for the appearance of or worsening of aggressive behavior or hostility. Long-term Suppression of Growth: Careful tollow-up of weight and height in children ages 7 to 10 years who were random-ized to either methylphenidate cor non-medication treatment groups over 14 months, to the ages of 10 to 13 years), suggests that consistently medicated children (i.e., treatment or 7 days per week throughout the year) have a temporary slowing in growth rate (no average, a total of about 2 cm less growth in height and 2.7 kg less growth in weight over 3 years), without evide end presentines may cause a similar suppression of growth, however, it is anticipated that they likely have this effect as well. Therefore, growth should be monitored during treatment with stimulants, and patients who are not growing or gaining height or weight as expected may need to have their treatment interrupted. Selzures: In patients with prior EEG abnormalities in absence of seizures, and year de to descrime, with our discontinued. Visaal Distributes: With prior EEG abnormalities in absence of seizures, the drug should be discontinued. Visaal Distributes: With prior EEG abnormalities in absence of seizures, the drug should be discontinued. Visaal Distributes: With prior EEG abnormalities in absence of seizures, and year de to have: not height or weights: With prior EEG abnormalities in absence of seizures, the drug should be discontinued. Visaal Distributes: With prior EEG a

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Idepression may occur withintered in the action of the advised to avoid exposing the Daytrana[™] application site to direct external heat sources, such as heating pads, electric blankets, heated water beds, etc., while wearing the patch. There is a potential for temperature-dependent increases in methylophendiate release of preater than 2-dolf form the patch. There is a potential for temperature-dependent increases in methylophendiate release of preater than 2-dolf form the patch. There is a potential for temperature-dependent increases in methylophendiate release of preater than 2-dolf form the patch. There is a potential for temperature-dependent increases in methylophendiate release of preater than 2-dolf form the patch. There is a potential for temperature-dependent increases in methylophendiate release of the order than 2-dolf form the patch. There is a potential for the **Patients**: Should be thormed to apply Daytrana[™] to a clean, dry site on the hip, which is not oliy, damaget, or irritated. The site of application must be alternated daily. The patch should not be applied to the waistline, or where high advintage the desting of the desting day to it. The parten to categiver should be encouraged to use the administration chart included with each carton of Daytrana[™] to montor application and removal time, and method of disposal. If there is a unacceptable duration of appetite loss or insomnia in the evening, taking the patch off earlier may be attempted before decreasing the patch should not be worn and the patient should be carrend and the patient. Baytrana[™] should not be worn and the patient should be accurated to the should not be worn and the patient should be accurated by the prescriber. Daytrana[™] to the method of disposal. The patch the patch should not be worn and the patient should be accurated by the prescriber. Daytrana[™] should be accurated by the patch off earlier may be attempted before. Currend to must while the preceding two weakers) with monagemine oxidase inhibitors (see CUNTRANDI

Methylphenidate may decrease the effectiveness of drugs used to treat hypertension. Human pharmacologic studies have shown that methylphenidate may inhibit the metabolism of coumarin anticoagulants, anticorvulsants (e.g., phenobarbial, phenyloin, primidone), and some tricyclic drugs (e.g., impramie, and gespraming and selective servicin regulate inhibitors. Downward does adjustments of tread crugs may be required when locit on concontrarity with methylphenidate. It may be necessary to adjust the dosage and monitor plasma drug concentrations (Gr) in the case of cournain, coaguitation times), when initiating or discontinuing methylphenidate. Carcingenesis, Mutagenesis, and Imperment of Ferility: Carcinogenicity studies of transdermal methylphenidate have and been performed. In a lifetime carcinogenicity study of and methylphenidate carcing on the case in the case in the experiment of the part burghout and the symptometrylphenidate caused an increase in hepatocellular adenomas and, in males only, an increase in hepatoblastoma as on increase in total bespressents by mayoday. Hepatoblastoma is a relatively rare role to malignant turnor is an lifetime carcinogenicity study carried out in Carling administed methylphenidate did not cause sensitive to the development of hepato turnors and the sympticanes of these results to humans is unknown. Carling administed methylphenidate did not cause sensitive to the development of hepato turnors and the sympticanes of the sensitive and carcinogenicity study in the timespecie macrow micronucleus assay. Sister chromatid exchanges and chromosome aberrations were increased, indicative of a weak clastogenic response, in an in *Vitro* ansay in cultured Chinese amster coray cells. Methylphenidate was not mutagenic in the *in vitro* Amser reverse mutation assay, or in the *N* vitro assay in cultured Chinese amster coray cells. Methylphenidate and on turganic fertility in male or fernale mice that were fad diets containing the drug in a 18-wesk turnowas of mutageness i

 Adverse Events Occurring at an incidence of 5% or More Among Patients Treated With Daytana™: Table 1 enumerates the incidence of treatment-hernegrat adverse events reported in a 7 week double-bildin. parallel-group, placeboc-controlled study in children with ADHD conducted in the outpatient setting.

 TBLE 1: Most Commonly Reporder Treatment-Intergrate Adverse Events (2 ≤ 5% and 2x Placebo) in a 7-week Placebo-controlled Study in children with ADHD conducted in the outpatient Adverse Events (2 ≤ 5% and 2x Placebo) in a 7-week Placebo-controlled Study in children with ADHD conducted in the outpatient Adverse Events (2 ≤ 5% and 2x Placebo) in a 7-week Placebo-controlled Study (3 cubicts) (3

The period and the provided interval and the series of the terminater budy bepretenes to to buck maining containing drug addee and **CVERDOSAGE**Signs and Symptoms: Signs and symptoms of acute methylphenidate overdosage, resulting principally from overstimulation of the CNS and from excessive sympathomismice effects. may include the following: combing, agitation, termors, hyperreflexia, muscle twitching, convulsions (may be followed by coma), euphoria, confusion, haliucinations, delixium, weaking, fluxing, headache, hyperprivala, tachycardia, palphations, cardiac arrhythmias, hypertension, mydrasis, and drymess of mucous membranes. **Recommended Treatment:** Remove all patches immediately and cleanse the area(s) to remove any remaining adhesive. The continuing absorption of methylphenidate from the skin, even after removal of the patch, should be considered when treating patients with overdose. Treatment consists of appropriate supportive measures. The patient must be protected against self-minitian adsorption of methylphenidate from the skin, even after removal of the patch, should be considered when treating adjust external stimuli that would aggravate overstimulation already present. Intensive care must be provided to enangement of overdose. Treatment consists of exchange, external cooling procedures may be required for hyperpryrexia. Efficacy of peritoneal dialysis or extracorporal hemodialysis for Daytran¹⁴ overdosage has not been established. Bo not store patches unpouched. Store at 25° C (77 F): excursions permitted to 15-30° C (59-86° F) [see USP Controlled from the protective pouch. Do not store patches unpouched. For transformal use only. **Reference** American Psychiatric Association Diagnostic and Statistical Manual of Mental Disorders. 4th ed. Washington, DC: American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders. 4th ed. Washington, DC: American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders. 4th ed.

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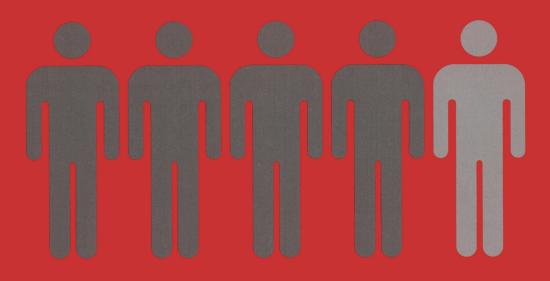
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The International Journal of Neuropsychiatric Medicine

CLINICAL UPDATES IN NEUROPSYCHIATRY

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William M. Glazer, MD, Robert R. Conley, MD, and Leslie Citrome, MD, MPH

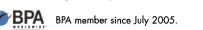
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