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Think Daytrana[™]—The Methylphenidate Patch

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Important Safety Information

Daytrana should not be used in patients with allergy to methylphenidate or patch components; marked anxiety, tension and agitation; glaucoma; tics, diagnosis or a family history of Tourette's syndrome; seizures; or during or within 14 days after treatment with monoamine oxidase inhibitors (MAOIs).

Main

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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.

References: 1. Daytana (package insert). Wayne, Pa: Shire US Inc; 2006. 2. Wigal SB, Pierce DM, Dixon CM, McGough JJ. Pharmacokinetics of methylphenidate transdermal system in children with ADHD. Poster presented at: 18th Annual U.S. Psychiatric and Memal Health Congress, November 8, 2005; Las Vegas, Nev. 3. McGough JJ. Wigal SB, Alikoff H, et al. A randomized, double-blind, placebo-controlled, laboratory classroom assessment of methylphenidate transdermal system in children with ADHD. J Atten Disord. 2006; 9:7476-485. - M. Yingal S., McGough JJ, Abikoff H, et al. Behovioral effects of methylphenidate transdermal system in children with ADHD. Poster presented at: 52nd Annual Meeting of the American Academy of Child & Adalescent Psychology. October 20, 2005; Toronto, Ontario. A new approach to treatment that has physicians, parents, patients, and teachers thinking along the same lines

- The next evolution in the delivery of methylphenidate
- Continuous delivery¹ for smooth levels of medication²
- Efficacy from the first time point measured (2 hours) through 12 hours, with a 9-hour wear time^{1,34}
- Wear-time flexibility—up to 9 hours—meets the changing daily needs of patients and parents¹
- Daytrana is indicated as an integral part of a comprehensive ADHD treatment program that may include other measures (psychological, educational, social). The efficacy of Daytrana was established in clinical trials in children aged 6 to 12 years¹



ADHD Treatment That Sticks'

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

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BRIEF SUMMARY: Consult the full prescribing information for complete product information. Daytrana™ (methylphenidate transdermal system) INDICATION AND USAGE

CII Rx Only

Daytrana²⁴ (methydpenidate transfermal system) IR to Daytrana²⁴ (methydpenidate transfermal system) Is indicated for the tratment of Attention Beficit Hyperactivity Disorder (ADHD): Daytrana²⁴ (methydpenidate transfermal system) Is indicated for the tratment of Attention Beficit Hyperactivity Disorder (ADHD): Daytrana²⁴ (methydpenidate transfermal system) Is indicated for the fiftasy of Daytrana²⁴ was established in two controlled clinical trads in children with ADHD. Special Diagnostic Constitements: Specific Baytrana²⁴ was established in two controlled clinical trads in children with ADHD. The fiftasy of Daytrana²⁴ was established in two controlled clinical trads in children with ADHD. The noising diagnostic test. Learning may or may not be impaired. The diagnostis must be based upon a complete history and evaluation of the child and not solely on the presence of the required number of DSM-V-TPF characteristics. Social for patients with this syndrome. Drug treatment may not be impaired. The diagnostis must be based upon a complete history and evaluation of the child and not solely on the presence of the required number of DSM-V-TPF characteristics. Social for patients with this syndrome. Drug treatment may not be indicated for all children with this syndrome Succells in the child with earthing syndromes accellary to environmental factors and/or of the primary psychiatric disclars assessment of the chindwith a solene are everify of the child's symboms. Social clinical accellars assessment of the chindwith the hysicholar shoetes are social as a psychosis. Appropriate evaluated in controlled ratio. The physician the decist to use on the herdidar syndrome. The physician who elects to use Daytrana⁷⁴ for tenned periods synchronical sacessment of the chindwidy alone are everify of the child's symboms. Social and patient (see DOSAGE AND ADMINISTRATION). CONTRAINCORTING AND ADMINISTRATION to the individual patient (see DOSAGE AND ADMINISTRATION).

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may result) WARNINGS

WANNINGS Serious Cardiovascular Events Suriden Death and Pre-existing Structural Cardiac Abnormalities or Other Serious Heart Problems

Social Death and Pre-existing Structural Cardiac Abnormalities or Other Serious Heart Problems <u>Singlifica and Apolescents</u> Sudden death has been reported in association with CNS stimulant treatment at usual doese 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 serious structural cardiac abnormalities, cardiomyopathy, serious heart frythm abnormalities, or other serious cardiac problems that may place them at increased vulnerability to the sympathomimetic effects of a stimulant drug. <u>Advisi</u> Studien deaths, stroke, and myocardial inferction have been reported in adults taking stimulant drugs at usual doese in or ADHD. Advisio Studien deaths, stroke, and myocardial inferction have been reported in adults taking patient keiling of them children of hother of having serious structural cardiac abnormalities, cardiomyopathy, serious heart frythm abnormalities, coronary artery disease, or other serious cardiac abnormalities, cardiomyopathy, serious heart frythm abnormalities, coronary artery disease, or other serious structural cardiac abnormalities, and uncess in a warean blood dressure (about 2-4 mmHh); and average heart (about 3-4 mmHh); and average heart

Hypertension and Other Cardiovascular Conditions Stimulant mediciations cause a modest increase in average blood pressure (about 2-4 mmHg) and average heart rate (about 3-6 bpm) (see ADVERSE REACTIONS), and individuals may have larger increases. While the mean changes alone would not be expected to have short-term consequences, all patients should be mointored for larger changes in heart rate and blood pre-sure. Caution is indicated in treating patients whose underlying medical conditions might be compromised by increases in blood pressure or heart rate, ac), hose with pre-existing hypertension, heart faiture, recent myocardial infrarction.

me true incloence of sensituation is when baytraina^m is used as orrected. Pro-Existing Psychosis Administration of stimulants may exacerbate symptoms of behavior disturbance and thought disorder in patients with a pre-existing psychotol disorder. existing psycho Bipolar iliness

Support Withows to usorour. Particular cares should be taken in using stimulants to treat ADHD in patients with comorbid bipolar disorder because of con-cern for possible induction of a mixed/maric episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbid depressive symptoms should be adqualety screened to determine if they are at risk of bipolar disorder, such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depressive. **Emergence 10 New Psycholic or manic symptoms**, e.g., halucinations, delusional thinking, or mania in children and adoles-cents without a prior history of psycholic interse or mania can be caused by stimulants at usual does. If such symptoms occur, consideration should be given to a possible causal role of the stimulant, and discordinuation of treatment may be properties. In points and a 24 exopered to methylphenidiate or ampletamine for several weeks at usual doeses) of stim-ulant-treated patients compared to 0 in placebo-treated patients.

ularit-treated patients compared to 0 in placebo-treated patients. Appression Appression Appression behavior or hostility is often observed in children and adolescents with ADHD, and has been reported in clinical trais and the postmarketing experience of some mecications indicated for the treatment of ADHD. Although there is no sys-ternatic evidence that stimulants cause appressive behavior or hostility, patients beginning treatment for ADHD should be trais and the postmarketing experience of some mecications indicated for the treatment of ADHD. Although there is no sys-ternatic evidence that stimulants cause appressive behavior or hostility, patients beginning treatment for ADHD should be Long-Term Suppression of Orowith Cartell Idlowu of ou weight and height in chilters ages 7 to 1 years who were random-ized to either methylphenicate-treated and non-medication treatment for yays per week throughout the year) have a temporary slowing in growth rate (on vareage, a total of about 2 cm lies growth in height in chilters growth in weight low 27 systes), suggests that consistently medicated children (i.e., treatment for 7 days per week throughout the year) have a temporary slowing in growth rate (on vareage, a total of about 2 cm lies growth in height paced that height hey have its effect as we of amphetimise may cause a similar suppression of growth, however, it is anticipated that hey liely have this effect as height or weight as expected may need to have their treatment interrupted. Sectures: There is some clinical evidence that stimulants may lower the convulsive threshold be discontinued. Visual Disturbance: Officulties with prior EEG abnormalities in absence of secures, and, very rarely, in patients with prior history of secures, in patients with prior EEG evidence of secures. In the presence of secures, and every rarely, in patients with prior bistory of secures, in patients with prior EEG abnormalities in absence of secures and evidence of alge independent of history of secures and no p

The second secon

If mere is an unacceptable duration or appetite loss or inscrima in the evening, taking the platch on earned may be attempted before berreasing the norwith Dryntams" and small bumps on the skin may also occur in some patients. If any swelling or blistering occurs the patch should not be worn and the patient should be seen by the prescriber. **Drig Interactions:** Daytrana¹⁴ should not be worn and the patient should be seen by the prescriber. **Drig Interaction:** Daytrana¹⁴ should not be worn and the patient should be seen by the prescriber. With monamine oxidase inhibitors (see CONTRAINDICATIONS-Monamine Oxidase Inhibitors). Because of a possible effect on blod pressure, Daytrana¹⁴ should be used cautiously with press agents.

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, anticonvulsants (e.g., phenobarchal, phenytoin, primidone), and some tricyclic drugs (e.g., imigramine, cloringinanie, desipramine) and selective serioruni reutake inhibitors. Downward does adjustments 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 methylphenidate in combination may be required when Serious adverse events have been reported in concomitant use of methylphenidate in combination may be energiables. The safely of using methylphenidate in combination may be energiables the safe stables. The safely of using methylphenidate in combination may be energiables that the safely of using methylphenidate in combination combination may be enclingencity that buy of oral methylphenidate caused an increase in hepatoblastom is a relatively rare rolent maionant duoi un B625T these nerginations at a daily dose of approximately 00 mg/kg/dg/. Hepatoblastom is a relatively rare rolent maionant tumor type. There was no increase in total maingnan hepatic tumors. The mouse strain used is sensitive to the development of hepatic tumors and the significance of these results of unamas is unknown. Orally administered methylphenidate as in the listifue carcinogencity study carcaionogencity study in the transgenic mouse strain p53°, which is sensitive to ganotoxic carcaionogencity is study. The mails mail freque were led diels containing the same concentration of methylphenidate as in the listifue have metal formate mice were led diels containing the same concentration of methylphenidate as in the listifue have for studies carcinogencity study carcaionogencity is turk of mesa setting and formamosen abetration save anget the list

and opmospheric methods and the second Methodshandker ddi not impair fertility in male or temale 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.

Metrylopenidae jdin ont impair fertility in male or female mice that were fed diels containing the drug in an 18-week Continuous Breeding study. The study was conducted at doese up to 160 mg/kg/day. **Pregnancy Pregnancy Pregnancy Pregnancy Category C:** Animal reproduction studies with transfermal methylphenidate have not been performed. In a study in which oral methylphenidate was given to pregnant rabbits during the period of organopenesis at doese up to 200 mg/kg/day. In tractogenie effects were seen, altowal not not been performed in a study in which so the lateral ventrices, was seen at 200 mg/kg/day. This does also produced maternal toxich. A previously conducted study in rabbits showed tratogene effects of methylphenidate was given to pregnant rabbits during the period period at an end does of 200 mg/kg/day. The study is the the indefine of a study in which or all methylphenidate was given to pergnant rab study in study in which or all methylphenidate was given to pregnant rab toxich. A previously conducted study in rabbits showed tratogene effects of materylphenidate. The study is not the theorem the period in the study in which or all methylphenidate was given to pregnant rab study in which or all methylphenidate was given to pregnant rab study in which or all methylphenidate was given to pregnant rab study in which or all methylphenidate is sciented in human mit, a study in which or all methylphenidate is sciented in human mit. Because many drugs are excreted in human mit, calitori should be used during in the period in the methylphenidate is sciented in human mit. Because material to rab mode which methylphenidate is sciented in human mit. Because many drugs are excreted in bolton method beam in the study in the postatil and the weeks of the noninger of the scient to the sciented in the postatil period (Pastitatal Day 7) and continuing through scient matury (Pastitat Week 10, When these animals were lested as duits (Pastitati Week 31-14), decreased spontaneous locemotor activity was obsered in

the results of physical examinations, vital signs, weights, laboratory analyses, and ECGs. Refer to the full Prescribing Information for deliaties of adverse event data collection. Adverse Findings in Clinteal Trials With Dayrana¹⁹ Adverse Findings in Clinteal Trials With Dayrana¹⁹ Adverse Ferets Resolcated With Discentinuation of Treatment: In a 7-week double-blind, parallel-group, placebo-controlled study in children with ADHD conducted in the outpatient string. / 1% (7/98) of patients treated with Dayrana¹⁰ the patients treated with Dayrana¹⁰ were application ster exthema, application ster reaction, confusional state, crying, tics, headacches, irritability, inclusions monoruleces, and viral infection. Adverse Events Decurring et an incleance of 5% or Mora Among Patients Treated With Dayrana¹⁰: Table 1 encement study in children with ADHD conducted in the outpatient setting. Still initiation: Dayrana¹⁰ were application sterest reported in a 7 week double-blind, parallel-group, placebo-controlled study in children with ADHD conducted in the outpatient setting. Still initiation: Dayrana¹⁰ is a dermal irritation.

(≥	5% and 2x Placebo) in a 7-		ntrolled Study	The majority of subjects in the pivotal phase clinical efficacy study had minimal to defin erythema. This erythema generally caused no
		Reporting A	dverse Events	minimal discomfort and did not usually interfe
Adverse	Event	Daytrana		 with therapy or result in discontinuation fro treatment. If erythema, edema, and/or papul
		(N = 98)	(N = 85)	do not resolve or significantly reduce within
Number	of Subjects With ≥ 1 Advers			hours after patch removal, further evaluati
	Nausea	12 (12)	2 (2)	should be sought. Erythema is not by itself
	Vomiting	10 (10)	4 (5)	indication of contact sensitization. Howev sensitization should be considered if ervther
	Nasopharyngitis	5 (5)	2 (2)	is accompanied by edema, papules, vesicles,
	Weight decreased	9 (9)	0 (0)	other evidence of more intense local reaction
	Anorexia	5 (5)	1 (1)	Diagnosis of allergic contact dermatitis should
	Decreased appetite	25 (26)	4 (5)	be corroborated by appropriate diagnostic te
	Affect lability	6 (6)	0 (0)	ing (see WARNINGS - Contact Sensitization Adverse Events With the Long-Term Use
	Insomnia	13 (13)	4 (5)	Davirana [™] : In a long-term open-label study
	Tic	7 (7)	0 (0)	up to 40-month duration in 191 children w
	Nasal congestion	6 (6)	1 (1)	ADHD, the most frequently reported treatment
tionally mittent	sensitive, emotionality, emotion emotional lability. ache (53 subjects: 28%) & to			jects, 30%), viral infection (54 subjects, 28%
tionally mittent of blects, blects, dverse e blects, dverse E with oth a, and ta ther reac domina ythema	emotional lability. ache (53 subjects, 28%). A to vents. The most common evi- 4%), and insomnia (7 subject vents with Oral Methylphenit her methylphenidate products, achycardia may occur more fre citons include: Carrilae: angir il pain, nausea; Immune: hypo multiforme with histopa	tal of 45 (24%) s ints leading to w s, 4%). late Products: N In children, loss quently; however la, arrhythmia, pr rsensitivity react thological findi	ubjects were withdr. ithdrawal were appl ervousness and inso of appetite, abdomin , any of the other ad alpitations, pulse inc ions including skin r ngs of necrotizin	pects: 30%), viral infr., tion /, 64 subjects / 85 wint from the study because of treatment-encego cation site reaction (12 subjects, 6%), anorexia mila are the most common adverse reactions report loain: weight loas during protonged therapy, isos verse reactions listed below may also occur. reseres cations sisted below may also occur. assk, urticaria, fever, arthrafaja, exfoliative dermatil a vasculitis, and thromboxopencip encur
mittent (d heada typerse e bjects, d dverse E d with otil a, and ta ther reac domina other reac domina tertabolis eadache, teritis ar	emotional iability. ache (53 subjects, 28%). A to vents. The most common ev 4%), and insomma (7 subject vents Wilh Oran Methylpheni her methylphenidate products. achycardia may occur more fra chorganic and a sub- multiforme with histopa mathematic anorexia, weigi , rare reports of Tourette's sy divo occution	tal of 45 (24%) s nts leading to w s, 4%). late Products: N in children, loss quently; however la, arrhythmia, pi ersensitivity reaction arsensitivity reaction arsensitivity reaction findiogical findi tt loss during pr indrome, toxic p	ubjects were withdr: thdrawal were appi ervousness and inso of appetite, abdomin, any of the other ad alpitations, putse inc ions including skin r ngs of necrotizin olonged therapy; M sychosis; Vascutar :	percisa do's solectar, hor in manima d'a se percis, 30%) viral intection (14 solupiets, 26%) win from the study because of treatment-emerge cation site reaction (12 subjects, 5%), anoresta nnia are the most common adverse reactions repo il pain, verpit loss during prolonged therapy, inso reases of or decreased, tachycardia (Bastrointestin, satu, utticaria, fever, arthrafiag, actionative diana diana sub, utticaria, fever, arthrafiag, actionative diana

most of these, patients were consuming or provide years and the second an NMS-like event within 45 minutes or langestrip his first does of vertification is a uncertain whether this experienced an NMS-like event within 45 minutes or langestrip his first does of vertification of the subscription of the second and the se

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REFERENCE American Psychiatric Association, Diagnostic and Statistical Manual of Mental Disorders. 4th ed. Washington, DC: American Psychiatric Association 1994. Manufactured for Shire US Inc., Wayne, PA 19087 by Noven Pharmaceuticals, Inc., Miami, FL 33186. For more information call +800-828-2088 or visit <u>www.shire.com</u>. Dot Matrix¹¹ is a trademark of Noven Pharmaceuticals, Inc. Daytana¹¹ is a trademark of Shire Pharmaceuticals inc. #2005 Shire Pharmaceuticals trademark United Limited.

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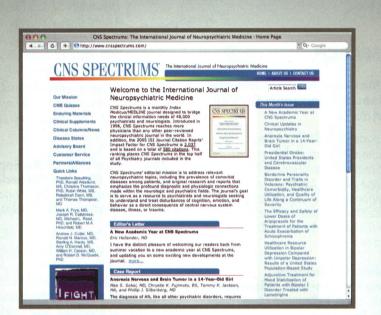
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Maria Johnson, RN, University of Kentucky Mental Health Research Center; Courtney Markham-Abedi, MD, Eastern State Hospital; Margaret T. Susce, RN, MLT, University of Kentucky Mental Health Research Center; Elaina Murray-Carmichael, BSc, University of Kentucky Medical Center; Stuart McCollum, MA, University of Kentucky Mental Health Research Center; and Jose de Leon, MD, University of Kentucky Mental Health Research Center

MISSION

CNS Spectrums' editorial mission is to address relevant neuropsychiatric topics, including the prevalence of comorbid diseases among patients, and original research and reports that emphasize the profound diagnostic and physiologic connections made within the neurologic and psychiatric fields. The journal's goal is to serve as a resource to psychiatrists and neurologists seeking to understand and treat disturbances of cognition, emotion, and behavior as a direct consequence of central nervous system disease, illness, or trauma.

residual symptoms sadness low energy anxiety relapse

recurrence

of unresolved depression with EFFEXOR XR12

IMPORTANT TREATMENT CONSIDERATIONS

Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. EFFEXOR XR is not approved for use in pediatric patients.

- EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs).
- Adult and pediatric patients taking antidepressants can experience worsening of their depression and/or the emergence of suicidality.
 Patients should be observed closely for clinical worsening and suicidality, especially at the beginning of drug therapy, or at the time of increases or decreases in dose. Anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia, hypomania, and mania have been reported and may represent precursors to emerging suicidality. Stopping or modifying therapy should be considered especially when symptoms are severe, abrupt in onset, or not part of presenting symptoms.

- The development of potentially life-threatening serotonin syndrome may occur when EFFEXOR XR is coadministered with other drugs that may affect the serotonergic neurotransmitter systems. Concomitant use of EFFEXOR XR with MAOIs is contraindicated. If concomitant use of EFFEXOR XR with an SSRI, SNRI, or a triptan is clinically warranted, careful observation of the patient is advised. Concomitant use of EFFEXOR XR with tryptophan supplements is not recommended.
- Treatment with venlafaxine is associated with sustained increases in blood pressure (BP) in some patients. Postmarketing cases of elevated BP requiring immediate treatment have been reported. Pre-existing hypertension should be controlled. Regular BP monitoring is recommended.
- Mydriasis has been reported in association with venlafaxine; therefore, patients with raised intraocular pressure or those at risk of acute narrow-angle glaucoma (angle-closure glaucoma) should be monitored.
- Abrupt discontinuation or dose reduction has been associated with discontinuation symptoms. Patients should be counseled on possible discontinuation symptoms and monitored while discontinuing the drug; the dose should be tapered gradually.



The change they deserve.

Please see brief summary of Prescribing Information on adjacent pages.



BRIEF SUMMARY. See package insert for full prescribing information

Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. EFFEXOR XR is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use.)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MDD), obsessive-computsive disorder (QCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicidae occurred in these trains (suicidality) during the first few risk of such events in patients r suicides occurred in these trials.

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Take a closer look at Dialogues Time to Talk

Dialogues

is a unique patient support and education program that is designed to help you foster successful therapy

Dialogues

offers patients access to a call center to speak with a health care provider for patient support and education to reinforce your efforts

Dialogues

supplies feedback and updates about these patient calls to you, their physician

Encourage your **EFFEXOR XR** patients to enroll in **Dialogues** by calling 866-313-3737 — and you can visit **mddpatientsupport.com**

 The most common adverse events reported in EFFEXOR XR short-term placebo-controlled depression, generalized anxiety disorder (GAD), social anxiety disorder (SAD), and/or panic disorder (PD) trials (incidence ≥10% and ≥2x that of placebo) were anorexia, asthenia, constipation, dizziness, dry mouth, ejaculation problems, impotence, insomnia, nausea, nervousness, somnolence, and sweating.



The change they deserve.

References: 1. Data on file, Wyeth Pharmaceuticals Inc. **2.** Effexor XR* (venlafaxine HCI) Extended-Release and Effexor Immediate-Release Prescribing Information, Wyeth Pharmaceuticals Inc.

Please see brief summary of Prescribing Information on adjacent pages.

Wyeth[®]

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Volume 11 -



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CLINICAL UPDATES IN NEUROPSYCHIATRY

739 News From the Field of Neuroscience

- FDA Requests Inclusion of New Warnings for ADHD Medications
- National Stroke Association Survey Stresses Need for Improved Stroke Treatment
- Skin Test Shows Promise in Diagnosing Alzheimer's Disease
- Researchers Conduct First Study on Use of Ketamine for the Treatment of Depression
- New Study Re-Evaluates Brain Size-Autism Link
- Lamotrigine Add-On Treatment May Benefit Children and Adolescents with Primary Generalized Tonic-Clonic Seizures
- Assessing Suicide Risk with Antidepressants Remains Difficult
- Depression in Pregnant Women May Be Inadequately Recognized and Treated

PEARLS IN CLINICAL NEUROSCIENCE

745 Warriors Versus Worriers: The Role of COMT Gene Variants

Dan J. Stein, MD, PhD, University of Cape Town; Timothy K. Newman, PhD, University of Cape Town; Jonathan Savitz, PhD, University of Cape Town; and Rajkumar Ramesar, PhD, University of Cape Town

CME QUIZ

800 The articles are CME-accredited by Mount Sinai School of Medicine for 3.0 credit hours.

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I always wanted to be part of a team Now I can

#1 Now the most prescribed atypical*

Proven efficacy To help patients achieve continued success¹¹⁻⁴

To help patients stay on treatment^{1.5}

SEROQUEL is indicated for the treatment of acute manic episodes associated with bipolar I disorder, as either monotherapy or adjunct therapy with lithium or divalproex, and the treatment of schizophrenia. Patients should be periodically reassessed to determine the need for continued treatment.

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo 4.5% vs 2.6%, respectively). SEROQUEL is not approved for the treatment of patients with dementia-related psychosis.

Prescribing should be consistent with the need to minimize the risk of tardive dyskinesia. A rare condition referred to as neuroleptic malignant syndrome has been reported with this class of medications, including SEROQUEL.

Hyperglycemia, in some cases extreme and associated with ketoacidosis, hyperosmolar coma, or death, has been reported in patients treated with atypical antipsychotics, including SEROQUEL. Patients starting treatment with atypical antipsychotics who have or are at risk for diabetes should undergo fasting blood glucose testing at the beginning of and during treatment. Patients who develop symptoms of hyperglycemia should also undergo fasting blood glucose testing.

Precautions include the risk of seizures, orthostatic hypotension, and cataract development.

The most commonly observed adverse events associated with the use of SEROQUEL in clinical trials were somnolence, dry mouth, dizziness, constipation, asthenia, abdominal pain, postural hypotension, pharyngitis, SGPT increase, dyspepsia, and weight gain.

* All atypical prescriptions: Total prescriptions. Jan. 05-July 06. New prescriptions. Sept. 04-July 06. IMS Health. National Prescription Audit.

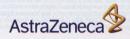
Significant improvement in all 11 YMRS items was measured at Week 3 and continued through Week 12 in monotherapy mania trials.

Please see Brief Summary of Prescribing Information on adjacent page.

References: 1. Vieta E, Mullen J, Brecher M, et al. Quetiapine monotherapy for mania associated with bipolar disorder: combined analysis of two international, double-blind, randomised, placebo-controlled studies. *Curr Med Res Opin*. 2005;21:923-934, 2. Sachs G, Chengappa KNR, Suppes T, et al. Quetiapine with lithium or divalprox for the treatment of bipolar mania: a randomized, double-blind, placebo-controlled study. Bipodar *Disord*. 2006;5:213-223. 3. Small JG, Kolar MC, Kellams JJ. Quetiapine in schizophrenia: onset of action within the first week of treatment. *Curr Med Res Opin*. 2004;20:1017-1023. 4. Kasper S, Brecher M, Fitton L, et al. Maintenance of long-term efficiency and safety of quetiapine in the open-label treatment of schizophrenia. *Int Clin Psychopharmacol*. 2004;19:281-289. 5. SEROQUEL Prescribing Information.

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BRIEF SUMMARY of Prescribing Information-Before prescribing, please consult complete Prescribing information.

Prescripting intermation. Increased Marbilly in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related psychosis transford with adplical antipsycholic drugs are at an increased rist of death compared to placebo. Analyses of seventeen placebo-cantrolled frate (model deartion of 10 weeks) in these placetor reverside at rist of oden the drug-masked patients of the tweek on the oden the 1.6 to 1.7 limes that seen in placebo-instate placebo. Area of the drug at the veek controlled weeks of the cases of death were varied, most of the deaths appeared in be either car-dioverscalar (e), and talkure, addee death) or interlocus (e), presumation at nextre. SERQUEL (quel-apies) is not approved for the treatment of patients with Dementia-Related Psychosis.

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Whiten Significance (SS): DRUG ABUSE AND DEPARDER: Controlled Substance Class: SERCOLEE is not controlled substance. Physical and Psychologic dependence: SERCOLE: Is no to been systematically studied. In animals or humans, for its poten-tial for abuse, biterance or physical dependence. While the divide that is not been systematically studied in an intervent of the pro-ter of the observations are not systematical and its potential transition of the base of the intervent of the observations are not abuse of SERCOLE. It is no to been systematical and its potential for abuse, biterance or physical dependence. While the divide the observations are not abuse of SERCOLE is not account of the system and the observations are not which a CKS-active drug will be misued, diverted, and/or abuse do not marked. Consequently, signs of misuse or abuse of SERCOLE, e.g., development of theirane, increases in dose, drug-seeking between the is, in period aligns and groups with hypoidelima and init diverse hard books. In post-methating are estimated corrected or SGO may was associated with hypoidelima and init diverse hard books. In post-methating scene decised overdece of SGO provides agis and section, tachycardir and hypotension. One case, involving an estimated overdece of SGO provides agis and section to case abilish and marking and estimate diverse is the account of the head and reak tholewing overdes are diverted as the considered. In possibility of the account object with the ability of the activities of sections and the considered. In possibility and the ability is associated and exceeding and the considered. In possibility and the ability is a section of the head and reak tholewing overdes with a stude overdes and section correstes in marked and estation of activity of the ability and the ability is a section and the considered. In possibility of the ability is a diministration of activity possible arthythmis, it a reasonate the exceed that at ability adversariated properties of heighalty market and the ability Johnson Syndrome (SJS). DRUG ABUSE AND DEPENDENCE: Controlled Substance Class: SEROQUEL is not a controlled substance. Physical on sympatric, inductioning or induced a table to commission of the induced continue unit the patient recovers. SEROUMEL is a registered trademark of the AstraZeneca group of companies. © AstraZeneca 2004, 2005 30180-00 Rev. 12005 Ast

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