

Neuropharmacology & Neurophysiology

Neurodegeneration

# She couldn't imagine her future without depression. But we can.



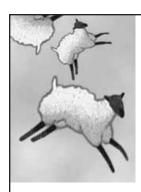
Wyeth Neuroscience believes that everyone deserves a healthier tomorrow. That's why Wyeth is building one of the world's leading pipelines focused on such challenging disease areas as depression, schizophrenia, bipolar disorder, Alzheimer's disease, stroke, and pain. Our

passion for research and development has produced innovative therapies that make a real difference for millions of patients. Already recognized as having a top 10 pipeline, Wyeth continues to develop new drugs that we hope will change the future of health care. Because every discovery brings new hope for patients everywhere.

In addition to Wyeth.com, please visit a site dedicated entirely to neuroscience—WyethNeuroscience.com.



Neuroscience | Research. Education. Innovation.™



APA 2007 Annual Meeting sponsored by the American Psychiatric Association

# Making Every Sheep Count:

Evidence-Based Approaches to Treating Insomnia

#### Sunday, May 20, 2007

1:00 – 1:30 PM Lunch 1:30 – 4:30 PM Symposium

Marriott San Diego Hotel & Marina Marina Ballroom, South Tower, Level 3 333 West Harbor Drive San Diego, California

#### **Educational Objectives**

At the end of this educational activity participants should be able to

- Summarize the neural circuitry and physiological regulation of sleep, wakefulness, and circadian rhythms in humans. Relate the neurobiology of sleep to insomnia and its daytime consequences
- Describe the emerging evidence regarding interactions between sleep, circadian rhythms, and psychiatric disorders
- Explain the biological basis for nonpharmacologic treatments of insomnia and nightmare disorders, and apply the basic elements of these treatments in clinical practice
- 4. Discuss new developments and new treatment targets for pharmacologic management of insomnia

#### Accreditation



The American Psychiatric Association (APA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The APA designates this educational activity of a maximum of 3 AMA PRA category 1 Credits\*\*. Physicians should only claim credit commensurate with the extent of their participation in the activty.

Attendees must be registered for the APA Annual Meeting to attend this symposium. Seating is limited and will be based on first-come, first-served. For more information about the meeting, please visit the APA web site at www.psych.org or contact the APA toll free at 1-888-357-7924 (within the US or Canada) or 703-907-7300

Registered conference participants and registered guests may attend an industry supported symposium at the APA meeting.

Sponsored by the American Psychiatric Association Supported by an educational grant from Takeda Pharmaceuticals North America.



#### Agenda

1:30-1:40 PM Opening Remarks

Daniel J. Buysse, MD-Chairman University of Pittsburgh School of Medicine

1:40-2:10 PM The Clinical Neuroscience of Sleep and Insomnia

Daniel J. Buysse, MD

2:10-2:40 PM Comorbidity Between Insomnia and Psychiatric Illness

Meera Narasimhan, MD

University of South Carolina School of Medicine

2:40–3:10 PM Novel Pharmacological Targets for the Management of Insomnia

Ruth M. Benca, MD, PhD University of Wisconsin-Madison

3:10–3:40 PM Innovative Behavioral Approaches for Treating Insomnia

and Comorbid Psychiatric Illness Karl Doghramji, MD

Thomas Jefferson University

3:40-4:25 PM Panel Discussion

Faculty Panel

APA 2007 Annual Meeting Sponsored by the American Psychiatric Association

# WEIGHING THE RISKS AND BENEFITS OF ATYPICAL ANTIPSYCHOTICS:

CAN WE HAVE OUR CAKE AND EAT IT TOO?

#### SUNDAY, MAY 20, 2007

Dinner: 6:30–7:00 PM Symposium: 7:00–10:00 PM Manchester Grand Hyatt San Diego Douglas Pavilion C/D One Market Place San Diego, California

#### Agenda

7:00 PM Opening Remarks

Henry A. Nasrallah, MD - Chairman • University of Cincinnati College of Medicine

7:05 High Morbidity and Mortality in Schizophrenia and Bipolar Disorder: What, Why, and How?\*

Quinton E. Moss, MD • University of Cincinnati College of Medicine

7:35 Metabolic Complications in the Context of Antipsychotic Effectiveness: Lessons from the CATIE Schizophrenia Trial\* Donald C. Goff, MD • Harvard Medical School

8:05 The Dual Health Jeopardy in Schizophrenia: Highly Prevalent Metabolic Disorders and Low Access to Medical Treatment\*

Henry A. Nasnallah, MD

8:35 Lessons From ATP III, the ADA, and the APA Workgroup on Antipsychotics and Metabolic Risk\* John W. Newcomer, MD • Washington University School of Medicine

9:05 Patient, Provider, and System Approches to Reducing Risk of Poor Health in Patients Receiving Antipsychotics\*
Lisa B. Dixon, MD, MPH • University of Maryland School of Medicine, VA Capitol Health Care Network MIRECC

9:35 Question and Answer

10:00 Closing Remarks

\*Each presentation will include 5 minutes for audience questions.

#### **Educational Objectives**

At the end of this educational activity participants should be able to

- Review the epidemiological studies demonstrating high rates of morbidity and mortality in schizophrenia and bipolar disorder patients.
- Discuss the high prevalence of the metabolic syndrome in the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE) sample and the low rates of treatment for it.
- 3. Compare and contrast the metabolic profiles of antipsychotics in the CATIE study.
- Identify potential patient, provider and system level interventions to improve metabolic outcomes among patients treated with antipsychotic medications.

#### Accreditation/Support



The American Psychiatric Association (APA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The APA designates this educational activity of a maximum of 3 AMA PRA Category I Credits\*\*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Attendees must be registered for the APA Annual Meeting to attend this symposium. Seating is limited and will be on a first-come, first-served basis. For more information about the meeting, please visit the APA web site at www.psych.org or contact the APA toll free at 1-888-357-7924 (within the US or Canada) or 703-907-7300.

Registered conference participants and registered guests may attend an industry supported symposium at the APA meeting.

Co-supported by an educational grant from





# **Dark Horizons:** Depression and Cognitive Impairment

Sunday, May 20, 2007
Breakfast: 7:30 - 8:00 AM
Scientific Program: 8:00 - 11:00 AM

Held at the APA 2007 Annual Meeting

Manchester Grand Hyatt

Manchester Ballroom, Second Level

anchester Ballroom, Second I San Diego, California

#### **Agenda**

#### 7:30 AM Breakfast

8:00 Welcome and Introduction
Steven P. Roose, MD – Chairman
Columbia University, College of Physicians and Surgeons
New York State Psychiatric Institute

8:10 The Epidemiology and Genetic Studies of
Depression and Memory\*
Richard Mayeux, MD, MSc
Columbia University, College of Physicians and Surgeons
New York State Psychiatric Institute

8:40 The Biology of Depression and Dementia\*
Gary W. Small, MD
David Geffen School of Medicine at UCLA

9:10 Vascular Depression and Vascular Dementia\*
K. Ranga R. Krishnan, MB, ChB
Duke University Medical Center

9:40 The Course of Treatment for Patients With
Questionable Dementia\*
D.P. Devanand, MD
Columbia University, College of Physicians and Surgeons
New York State Psychiatric Institute

10:10 The Course of Treatment for Patients With Depression and Mild Cognitive Impairment\* Roy Hamilton, MD, MS University of Pennsylvania

10:40 Panel Discussion and Q & A Session

11:00 Conclusion

\*Each presentation will include 5 minutes for audience questions.

The American Psychiatric Association (APA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The APA designates this educational activity for a maximum of 3 AMA PRA Category 1 Credits $^{\text{TM}}$ . Physicians should only claim credit commensurate with the extent of their participation in the activity.

Attendees must be registered for the APA Annual Meeting to attend this symposium. Seating is limited and will be based on a first-come, first-served basis. For more information about the meeting, please visit the APA Web site at www.psych.org or contact the APA toll free at 1-888-357-7924 (within the US or Canada) or (703) 907-7300.

#### **Educational Objectives:**

- Evaluate the data that older adults with depressive symptoms are at a higher risk for the development of dementia.
- Identify the neurochemical and neurobiologic changes that occur in patients with recurrent depression and how these changes may influence the development of dementia.
- Review the concept of vascular depression and poststroke depression and discuss whether patients with these disorders progress to vascular dementia.
- Understand the phenomenology and course of treatment for patients with mild cognitive impairment with no depressive symptoms to determine the phenomenologic fate of this group.
- Identify treatment options available to patients with combined mood and memory disorders, particularly to review whether effective treatments can forestall the devastating impact of these illnesses in a late-life population.

Sponsored by the American Psychiatric Association

Supported by an educational grant from Forest Pharmaceuticals, Inc.



# FIGHT BECAUSE THE STAKES ARE LIGHT To continue I've seen how quickly the

Too many times I've seen how quickly the devastating effects of bipolar disorder can impact my patients' lives—and the damage that each episode can cause.

Families torn apart. Careers ravaged. Relationships destroyed.

The stakes are high.

As a doctor, I fight every day to make sure that bipolar disorder will not win out.

OL36807A 0206 ©2006, ELI LILLY AND COMPANY



## PRESENTED AT THE APA 2007 ANNUAL MEETING IN SAN DIEGO, CA

#### **PROGRAM AGENDA**

6:30–7:00 pm **Dinner** 

7:00–7:10 pm **Introduction** 

Alexander H. Glassman, MD (Chair)

Columbia University College of Physicians and Surgeons New York State Psychiatric Institute

7:10<del>-7:</del>35 pm

Reward Systems Underlying Motivation and Addiction

Peter W. Kalivas, PhD Medical University of South Carolina

7:35-8:00 pm

Animal Modeling and Integrative Neurocircuitry of Addiction Vulnerability in Mental Illness

R. Andrew Chambers, MD Indiana University School of Medicine

8:00-8:25 pm

Pharmacotherapies for Smoking Cessation

Cheryl Oncken, MD, MPH University of Connecticut Health Center

8:25-8:50 pm

What Makes Smoking Cessation Unique in Patients with a History of Depression?

Alexander H. Glassman, MD Columbia University College of Physicians and Surgeons New York State Psychiatric Institute

8:50-9:15 pm

Pharmacological Treatment of Nicotine Dependence in Schizophrenia: The Devil Is in the Details

Tony P. George, MD, FRCPC University of Toronto Centre for Addiction and Mental Health

9:15–10:00 pm Panel Discussion/Q&A Tuesday, May 22, 2007 ◆ 7:00–10:00 pm San Diego Convention Center Ballroom 20, Upper Level

# Cigarette Smoking, Smoking Cessation, AND Psychiatric Illness

#### **LEARNING OBJECTIVES**

At the conclusion of this symposium, the participant should be able to:

- Recognize the unique risks of cigarette smoking for patients with psychiatric illness.
- Discuss common neurobiology underlying all addictions.
- Compare and contrast smoking addiction in patients with depression and schizophrenia.
- Outline tools and treatments for smoking cessation in patients with and without psychiatric illness.

Supported by an educational grant from



Sponsored by the American Psychiatric Association





#### REGISTRATION

Attendees must be registered for the APA Annual Meeting to attend this symposium. Seating is limited and will be based on first-come, first-served. For more information about the meeting, please visit the APA website at www.psych.org or contact the APA toll-free at 1-888-357-7924 (within the U.S. or Canada) or 703-907-7300.

#### CREDIT DESIGNATION

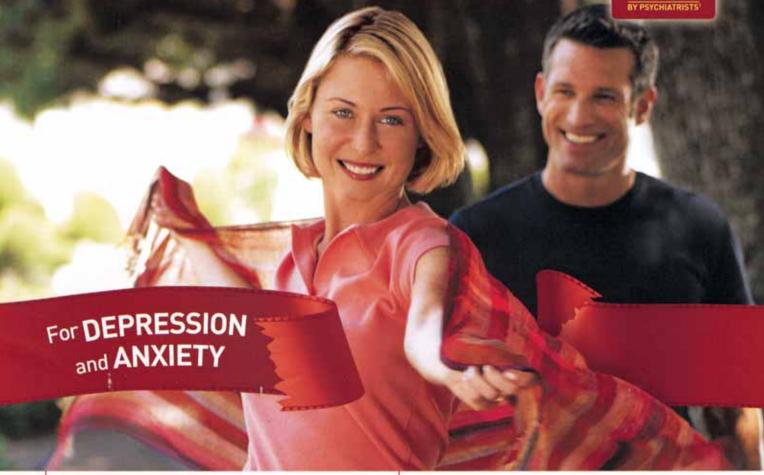
The APA designates this educational activity for a maximum of 3 *AMA PRA Category* 1 *Credits* ™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **ACCREDITATION STATEMENT**

The American Psychiatric Association (APA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

# A POWERFUL SSRI that's well tolerated





UP TO 90% of depressed patients present with symptoms of anxiety<sup>2</sup>

PROVEN EFFICACY for Major Depressive Disorder and Generalized Anxiety Disorder<sup>3</sup>



IMPORTANT SAFETY INFORMATION – Depression is a serious condition that can lead to suicidal thoughts and behavior. Antidepressants increased the risk of suicidal thinking and behavior (2% to 4%) in short-term studies of 9 antidepressant drugs in children and adolescents with major depressive disorder (MDD) and other psychiatric disorders. Patients started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior, especially at the beginning of therapy or at the time of dose changes. This risk may persist until significant remission occurs. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Lexapro is not approved for use in pediatric patients.

Lexapro is contraindicated in patients taking monoamine oxidase inhibitors [MAOIs], pimozide [see DRUG INTERACTIONS – Pimozide and Celexa], or in patients with hypersensitivity to escitalopram oxalate. As with other SSRIs, caution is indicated in the coadministration of tricyclic antidepressants [TCAs] with Lexapro. As with other psychotropic drugs that interfere with serotonin reuptake, patients should be cautioned regarding the risk of bleeding associated with the concomitant use of Lexapro with NSAIDs, aspirin, or other drugs that affect coagulation. The most common adverse events with Lexapro versus placebo [approximately 5% or greater and approximately 2x placebo] were nausea, insomnia, ejaculation disorder, somnolence, increased sweating, fatigue, decreased libido, and anorgasmia.

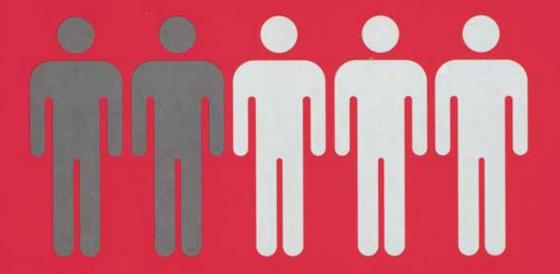
References: 1. IMS National Prescription Audit. Twelve-month rolling average. November 2006. 2. Sadock BJ, Sadock VA. Kaplan and Sadock's Synopsis of Psychiatry: Behavioral Sciences/Clinical Psychiatry. 9th ed. Philadelphia, Pa: Lippincott Williams & Wilkins; 2003:552. 3. LEXAPRO [package insert]. St Louis, Mo: Forest Pharmaceuticals, Inc.; 2006.

Please see brief summary of prescribing information for LEXAPRO on following page.

Brief Summary: For complete details, please see full prescribing information for Lexapro.

Subcidally in Children and Adolescents Autitopressants increased the risk of suicidal hinking and behavior (suicidallty) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Lexapro or any other antidepressant in a child or adolescent must behavior. Families and caregivers should be advised of the need for ciose observation and communication with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unsual changes in behavior. Families and caregivers should be advised of the need for ciose observation and communication with the prescriber. Lexapro is not approved for use in pediatric patients, (See Warnings and orderegaster) and observation and observation and adolescents with major depressable stockard (MDD), observation and observati

# KNOWTHEFACTS



**41%** of all patients had the metabolic syndrome at baseline in the landmark CATIE schizophrenia study.<sup>2</sup>

Be aware.
Screen and monitor your patients.
Make a difference.



For more information, please visit www.MDLinx.com/metabolicmatters

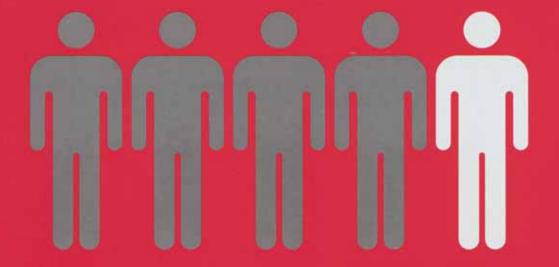
References: 1. Goff DC, Sullivan LM, McEvoy JP, et al. A comparison of ten-year cardiac risk estimates in schizophrenia patients from the CATIE study and matched controls. Schizophr Res. 2005;80:45-53. 2. McEvoy JP, Meyer JM, Goff DC, et al. Prevalence of the metabolic syndrome in patients with schizophrenia: baseline results from the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE) schizophrenia trial and comparison with national estimates from NHANES III. Schizophr Res. 2005;80:19-32.

GZ281960

@ 2007 Pfizer Inc. All rights reserved.

Printed in USA/April 2007

# KNOWTHEFACTS



13% of patients had diabetes in the landmark CATIE schizophrenia study at baseline—4 times more common than in the general population.

Be aware.
Screen and monitor your patients.
Make a difference.



For more information, please visit www.MDLinx.com/metabolicmatters



# CARING for OUR MOST CHALLENGING PATIENTS with DEPRESSION:

## **An Interactive Forum on Novel Treatments**

#### PRESENTED AT THE APA 2007 ANNUAL MEETING IN SAN DIEGO, CA

# CREDIT DESIGNATION

The APA designates this educational activity for a maximum of 3 AMA PRA Category I Credits<sup>TM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

# ACCREDITATION STATEMENT

The American Psychiatric
Association (APA) is accredited
by the Accreditation Council for
Continuing Medical Education
to provide continuing medical
education for physicians.

#### **REGISTRATION**

Attendees must be registered for the APA Annual Meeting to attend this symposium. Seating is limited and will be based on first-come, first-served. For more information about the meeting, please visit the APA website at www.psych.org or contact the APA toll-free at I-888-357-7924 (within the U.S. or Canada) or 703-907-7300.

Supported by an educational grant from



Sponsored by the American Psychiatric Association



Sunday, May 20, 2007 • 1:30 p.m.– 4:30 pm
Manchester Grand Hyatt, Manchester Ballroom, Second Level

## PROGRAM AGENDA

1:00 p.m. Lunch

1:30 p.m. Introduction

Charles B. Nemeroff, MD, PhD (Chair) Emory University School of Medicine

1:45 p.m. Mechanism of Action of Vagus Nerve Stimulation (VNS)

Charles B. Nemeroff, MD, PhD Emory University School of Medicine

2:15 p.m. Assessing the Efficacy of VNS in Patients with TRD

Paul Holtzheimer, MD

Emory University School of Medicine

2:45 p.m. Efficacy of Repetitive Transcranial Magnetic Stimulation

(rTMS) and Magnetic Seizure Therapy (MST)

Thomas E. Schlaepfer, MD
University Hospital Bonn
The Johns Hopkins University School of Medicine

3:15 p.m. Mechanism of Action and Efficacy of Deep Brain

Stimulation

Helen Mayberg, MD

Emory University School of Medicine

3:45 p.m. Panel Discussion/Q&A

4:30 p.m. **Conclusion** 

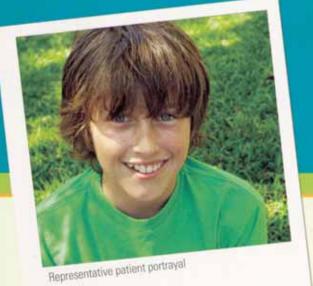
## LEARNING OBJECTIVES

At the conclusion of this symposium, the participant should be able to:

- I. Identify criteria used to recognize patients with treatmentresistant depression (TRD).
- 2. Compare and contrast somatic interventions for TRD.
- 3. Recognize the neurobiological substrates of investigational treatments for refractory depression.

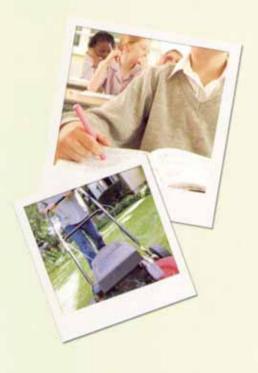


# CONCERTA® CAN MAKE A DIFFERENCE



Meet Matthew, age 12, who has ADHD Combined Type with comorbid ODD\*

- . Doesn't finish tests or schoolwork
- · Forgets to do homework and chores
- Argues with teachers and parents
   \*ODD=Oppositional Defiant Disorder; CD=Conduct Disorder.



For more information, call 1-888-440-7903 or visit www.concerta.net

ONCE-DAILY



Delivering results that matter

## Consider CONCERTA® to give Matthew the help he needs

- Reduces ADHD symptoms in children with ADHD and ODD/CD\* as well as in patients with ADHD alone!
- Improves academic performance and classroom behavior in children with ADHD<sup>2</sup>
- Significantly reduces ADHD symptoms and conflict with family members in adolescents with ADHD<sup>3</sup>

#### Important Safety Information

CONCERTA® is indicated for the treatment of ADHD in children and adolescents. CONCERTA® should not be taken by patients with: significant anxiety, tension, or agitation; allergies to methylphenidate or other ingredients in CONCERTA®; glaucoma; Tourette's syndrome, tics, or family history of Tourette's syndrome; current/recent use of monoamine oxidase inhibitors (MAOIs). Children under 6 years of age should not take CONCERTA®. Abuse of methylphenidate may lead to dependence.

Use with caution in patients with psychosis, bipolar disorder, history of seizures/ EEG abnormalities, and hypertension. CONCERTA® should not be used in patients with pre-existing severe gastrointestinal narrowing, known structural cardiac abnormalities, or other serious heart problems. Stimulants may cause new psychotic or manic symptoms; discontinuation of treatment may be appropriate. Aggressive behavior or hostility should be monitored in patients beginning treatment. Methylphenidate may produce difficulties with accommodation and blurring of vision. Hematologic monitoring is advised during prolonged therapy.

The most common adverse events reported in children aged 6 to 12 years receiving up to 54 mg were headache (14%), upper respiratory tract infection (8%), and abdominal pain (7%). The most common adverse events reported in adolescents receiving up to 72 mg were headache (9%), accidental injury (6%), and insomnia (5%).

Please see brief summary of full prescribing information and references on next page.

CONOT-034
CONCERTA® and OROS® are registered trademarks of ALZA Corporation
© McNeil Pediatrics, Division of McNeil-PPC, Inc., 2007
Expires 6/98

CONCERTA® © (methylphenidate HCl) Extended-release Tablets

ARIEF SUMMARY: Please see full prescribing information. DESCRIPTION

is a central nervous system (CNS) stimulant, CONCERTA<sup>n</sup> is available in four tid strengths. Each extended-release fablet for ence-a-day onal administration contains 18, 27, 36, or 54 mg of methylpheridate HD USP and is designed to have a 12-hour duration of effect. CONTRAINDICATIONS

Agitation: CONCERTA<sup>®</sup> is contraindicated in patients with marked anxiety tension, and agitation,

since the drug may approprie these symptoms.

Hypersensitivity to Methylatenidate: CONICETTA\* is contraindicated in patients known to be hypersensitive to methylatenidate or other components of the product.

Glaucena: CONICETTA\* is contraindicated in patients with glaucona.

Galacteria. SUNUEZHIA\* is contrainted on potentia with geocutina.

These CONCEPTA\* is contrainted on potentia with motor list or with a family testory or diagnosis of Touritie's sundrome (see ADVERSE REACTIONS).

Monoamine Oxidate left-billione: CONCERTA\* is contrainted during trustment with monoamine oxidate (sMUC) inhibitors, and also within a minimum of 14 days following discontinuation of a MAO-embitor dysperientave cross may result; (see PRESAUTIONS.) Drug Interactions) WARNINGS

WARNINGS
Series Carliovascular Events: Sudden Death and Pre-existing Structural Certise: Abnormalities or Other Serious Head Frodering
Children and Adolescents, Sudden death may been reported in association with CNS structural certise; solved reads may be reported in association with CNS structural certise; abnormalities or other serious head problems above carry as increased other serious head problems above carry as increased. risk of sudden death, stimulant products generally should not be used in children or adolescents with known serious structural cardiac zbroomalities, cardiomyopathy, serious heart rhytim abnormalities, or other serious cardiac problems that may place them at increased valmenability

to the sympathonisms effects of a standard drug.

Adults: Soutien deaths, strike, and inyocardial infanction have been reported in adults taking strainant drugs is suited does for ADULE. Although the role of stimulants in these adult cases is also unknown, adults have a greater likelihood than children of having serious structural cardiac. abnormalities, cardiomyopathy, serous heart rhytern abnormalities, coronary artery disease, or other serious cardiac problems. Adults with such abnormalities should also generally not

be treated with stimulant drugs.

pe treate versi am unimum caujos. Hipertenside and other Carlosensider Canditions, Stimulant medications cause a modes increase in average blood pressure labout 2-4 mining) and average heart set (about 3-6 april Jues Adverse Reactions-Hypertension), and individuals may have larger increases. While the nean changes allow would not be expected to have short-term consequences, all patients should be monitored for larger changes in heart rate and blood pressure. Cuction 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 impocantial effections, or verticate arrhythmia.

important effection, or writteness arrivations. Appeared seeds seed Stressert Medications Caldient, addresserbs, or authly who are being considered for treatment with stresserd medications, should have a careful featory including assessment for a brinly hattory of southern death or writtings are religious and the seasons for the presence of cardiac disease, and should receive further cardiac evaluation if findings suggest such disease (e.g., electrocardiogram and echocardiogram). Patients who divelop symptoms such as exertional chest pain, unexplained syncope, or lither symptoms suggestive of cardioc disease during stimulant treatment should undergo a prompt cardioc evaluation.

Psychiatric Adverse Events: Pre-Existing Psychosis: Administration of stimulants may expertate symptoms of behavior and thought disorder in patients with a pre-existing

Booke Rees: Particular care should be taken in using stimularts to heat ADHO in spaces with corrorfed byoter decoder festales of concern for possible induction of a mixed thanks greate in such patients. Prior to inflating treatment with a stimulant, patients with cornorfed depressive symptoms should be adequately screened to determine if they are at

real for begind decreter, such screening should include a detailed psychiatric history, including a territy fisitory of suicide, bipolar departer, and depression. Emergence, of Neep Psychotic or Marie, Syraptorys: Treatment emergent spectroic or marie syraptorys, e.g., fisikunomizing, detailed thinking, or maries or children and adolescents without a pilor history of psychotic rivers or maries can be caused by stimularies of usual doses. If such symptoms occurs consideration should be given to a possible causal role of the content of the co stimulant, and discontinuation of treatment may be appropriate. In a pooled analysis of multiple strict-term, placebo-controlled studies, such symptoms occurred in about 0.7% (4 publishs with events out of 3452 exposed to methylphenidate or amphilatmine for several news at usual lesses) of stimulant-breated patients compared to 0 in placebo-breated patients.

Aggression Aggressive behavior or hostility is often observed in children and advisouritis with ACHD, and has been reported in clinical triats and the postmarketing experience of some medications indicated for the historiest of ACHD. Although there is no systematic mixtories this stimulants cause aggressive behavior or hostility, patients beginning treatment for ACHD should be increased for the appearance of or womening of aggressive

Long-Term Suppression of Growth: Careful follow-up of weight 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 raturalistic pubgroups of month methylphenidate-hashed and non-medication treated children over 36 months (to the ages of 10 to 13 years), suggests that consistently medicated children (i.e., frautment for 7 days per week throughout the year) have a temporary stowing as growth rate (on average, a total of about 2 cm less growth in height and 2.7 kg less provid in weight over 3 years), without evidence of growth rebound sharing this presid of development. Published data are haufequate to adventure whether chronic. use of amphetamines may cause samilar suppression of growth, however, it is anticipated that they likely have this effect as well. Therefore, growth should be monitored during treatment with stanularity, and patients who are not growing or gaining height or weight as expected may need

to have their treatment interrupted. Setures: There is some clinical evidence that stimularies may lor in patients with prior history of sectures, in patients with prior EEG abnormalities in absence of sectures, and, very rarely, in patients without a history of sectures and no prior EEG evidence of telesces. In the presence of sectures, the drug should be decontinued.

Visual Disturbance: Difficulties with accommodation and blurring of vision have been reported

eith stimulant triutment.

Patential for Gastrointestinal Obstruction: Broason the CONCERTA<sup>®</sup> tablet is nondeformable and does not appreciably change in shape in the GI tract, CONCERTA® should not ordinarily be administrated to patients with presenting severa particularities inanceing (pathologic or ad-roperic, for example: escaphages motility disorders, small bowle inflammatary steams, whom guil injudicies to adhesions or decreased transit time, past history of peritoritis, cystic fibrosis, chronic intestinal possociostecticon, or Median's (windown). There have been rare necrosis, ordered, resistant productions could be seen systematically, linear and seen are reported of obtainable symptoms in paperts will income structures at association will the registron of drugs in modelformable controlled-release formulations. Our to the controlled-release design of the state, CONCERTA\* should only be used in patients who are able to swillow the table whose per PRECALTIONS in thoroutation for Patients). Use in Children Under Six Years of Age: CONCERTA\* should not be used in children under six years, since safety and efficacy in this age group have not best established.

CONCERTA® should be given cautiously to patients with a history of drug dependence or atroholism. Chronic absolve use can lead to marked tolerance and psychological depensuccessions, current, expense account size of material transport and physicological dependence with varying degrees of amornal behavior. Frame specified repeated and occur, especially with parenteel above. Confid supervision is required during withdrawal from abstrate use strong extension may occur. Which involves the buring during threshold from particle may come from a confidence of the confidence of th

PRECAUTIONS

agic Monitoring: Periodic CBC, differential, and plateter counts are advised during

processes transport control to the particular process of the particular process of the particular process of the particular process of the particular processes. The medication is contained within a monitorintable shall designed to release the drug at a controlled one. The table shall along with insolution consistency of the particular processes.

is eliminated from the body patients should not be concerned if they occasionally notice in their stool something that looks like a tablet.

Drug Interactions: CONCERTAL should not be used in patients being treated (currently or within the proceeding 2 weeks) with MAD inhibitors (see CONTRANDICATIONS, Norosammir Oxidase inhibitors), Securise of possible increases in blood pressure, CONCERTAL should be circular innouncing, because or prosses reference is store presenter, consuctive factors and cardiovally with valappears aganta. Human pharmacologic states that exhount that methylpheristate may inhibit the metholosism of coursains aeticoapsizers, anticoonsistants (e.g. phenotostatist, phenytoni, primidove), and some antidepressants (https://cis.ca.nd.selection.inuptible entidolosis (boulevant dose adjustment of these drugs, may be required wither glees concumitantly with methylpheristate. It may be nocessary to adjust the dosage and monitor passiman study parventioner (six. in the case of coursains, coapsations firms), when instating or discontinuing concomitant methylpheristate. Serious adverse events have been eported in concomitant use with doniders, although no causality for the combination has been stablished. The safety of using methylphenidate in combination with clonidine or other centrally active alpha-2 agonetis has not been systematically evaluated.

away surver a systems rear not cent systemistically exacuted.

Continogenesis, Muhagenesis, and hopeliment of Fertillipt, in a librime carcinogenicity study, carried out in 960,311 mice, methylpheriother carced an increase in hepaticonfusir ademontas and, its males only, an increase in hepaticolatorase of a daily dote of approximately 60 may large the continuous exacuted from the continuous exacuted from a mighty and mighty tasks, respectively. Hepaticolatoras is a institutely care independent for malignant further type. These years no increase in that inalignant further type. These years no increase in that inalignant further type. heads shrains. The chause state used is sensitive to the development of heads turnors, and the significance of these results to humans is unknown. Methylphenidate did not pause any econoses in turnors in a letterine conscipringly study cornical to 1534 east. The highest done used was approximately 45 majkingtile, which is approximately 25 times and 5 times in maintain recommended human dose of CONCEPTA\* on a migking and mighth basis, respectively. If in 24-week contraoperists shady in the hadesprice recurse strain gibbs-1, which is sensitive to genotice contraoperists there was ne exidence of contraoperists. Well with female mice were led detection contraining the same concentration of methylphociatic as in the litterine contraoperisty study, the high-dose groups were exposed to 60 to 74 mg/kg/tile of methylphociatics. Methylphenidate was not matagonic in this in vitro Arms review multiple costs on the virus microarchine of exchanges. atic furthers. The mouse strain used is sensitive to the development of hepatic furners assay or the in vitro mouse lymphoma cell forward mutation assay. Sister chromatid exchanges and chromosome abenations were increased, indicative of a weak clastogenic response, in an in vitro assay in cultured Chinese Hamster Overy cells. Methylphenidate was regulite in vivo in males and females in the mouse bone marrow micronucleus assay. Methylphenidate did not impair lettifly in male or female misc that were field diets containing the drug in an 15-week Continuous Breeding study. The study was conducted at doses up to 160 mg/kg/stay, approximately 80-fold and 6-fold the highest recommended furnain date of CONCERTA<sup>2</sup> on a to besix or

regives and regim basis, respectively. Pregnancy: Tendogenic Effects: Physiciancy Category C: Methylpheridate has been shown to have testoporic effects in natios, when given in doses of 200 regispitals, which is approximately 100 lines and 40 times the maximum recommended human dose on a regispi approximately 100 times and 40 times the insulativity in data revealed human dose on a rigidy and mightin basis, respectively. A regriduction study in data revealed no evidence of harm to the less as one dose of DONCERTA\* on a rigidy and rigidity 15-bid and 3-bid the maximum recommended human dose of DONCERTA\* on a rigidy and rigidity less, espectively. The approximate plasma exposure to methylphericities plast its main metabolite PPA in pregnant risks was 2 times that been in that in volunteers and patients with the maximum recommended dose of CONCERTA\* based on the ALC. The safety of methylphericities have been recommended dose of CONCERTA\* based on the ALC. The safety of methylphericities to use during human pregnant vierness. CONCERTA\* about the last during pregnancy only if the potential benefit satisfies the potential risk to the fature.

Namina Methors: It is not known whether methyloherotate is excepted in hum drugs are exceled in framen milk, caution should be exercised if CONCERTA<sup>®</sup> is of to a nursing women.

Pediatric Use: The safety and efficacy of CONCERTA® in children under 6 years old have m effects of methylpheridate in children have not been well

ADVERSE REACTIONS

ANYTHIS TOUCH THE PROPERTY OF CONCERTENT INcluded exposures in a total of 2121 surficipants in climat trials (1767 patients, 224 houtiny abut subjects). These participants reserved CONCERTAN 18, 36, 54, and/or 72 mg/lay, Discovir, adolescents, and adults with ADHO were evaluated in thus controlled crinical studies, three open-laber clinical studies and two clinical studies are studies and two clinical studies are studies and two clinical studies and two clinical studies are studies and two clinical studies are clinical studies and two clinical studies and two clinical studies are clinical studies and clinical studies are clinical studi during exposure were obtained primarily by general inquiry and inconded by clinical investiga-turs using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first. grouping similar types of events into a smaller number of standardised event categories. In the tables and listings that follow, COSTART terminology has been used to classify reported adverse events. The stated tragsencies of adverse events impresent the proportion of individuals who experienced, at least once, a fourterest emergent adverse event of the type fielded, An event vius considered Impatment emergent if it occurred for the first time or worsened while

recovering therapy reserving baseline evaluation.

Adverse Findings in Clinical Trials with CONCERTA\*: Adverse Events Associated with fination of instructs in the 4-veek picobo controlled, parallel group that in chicken.

3) one CONCEHIA-frozand patient (0.9%, 1706), and one picobo-treated patient.

1/99; deconfinued the to an adverse event (satiness and increase in fics, respectively). (1.0% 199) disconfined the to an adverse event (subtress and increase in tion, respectively). In the 2-week placebol controlled phase of a trial in advisements (Study 4. In CONDERTA\*) health patient, 10% 087) and 1 placebol-burstle patient (1.1% 199) disconfined that is an adverse event (increased model intuitibility, in the two oper-label, long-term substy this Soules 5 and 6 one 24-month study in dishler augle 6 to 12 and one 5-month study in children augle 6 to 12 and one 5-month study in children augle 6 to 12 and one 5-month study in child, adolescent and adult patients freshed with CONDERTA\*) 6.7% (101/1514) of patients disconfined due to adverse events. These events with an incidence of 3-0.5% included, morrorma (15-5%, hostolings) (15%), incidenced above (16.7%), and anveyora (1.7%), and anveyora (1.7%).

point or 7%, and annowal (or 7%). That there's Energed Advence Events Amores CONCERTA\*\* I braish 2 placets: Table 1 enumerates, for a 4-week placeto-controlled, parallel group that (Stady 3) in children with ADHO at CONCERTA\*\* doses of 1% 36; or 54 mystads; the incidence of treatment-energent adverse events that the table incidence only those events that occurred in 1%, or more of patients freshed with CONCERTA\*\* where the incidence in patients treated with CONCERTA\*\* was greater than the incidence in placeto-treated patients. The prescriber should be aware that these figures cannot be used to predict the incidence of adverse everys in the course of usual medical practice where patient characteristics and other bactors differ from those which precised in the clinical trists. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigation. The olded figures, to do provide the prescribing physician with some basis for estimating the relative contributing and non-drug factors to the adverse event incidence rate in the population studied.

Table 1 Incidence of Treatment-Emergent Events' in a 4-Week

Body System	Preferred Term	CONCERTA® (n=106)	Placebo (n=99)
General	Hostuche	14%	10 %
Digestive	Abdominal pain (stomachache) Vorsiting	7% 4%	1% 3%
Nervous	(loss of appetite) Dizzness Insomria	4% 2% 4%	0% 0%
Respiratory	Upper Respiratory Tract Infection Cough Increased Proxyrights	E% 4% 4%	5% 2% 3%

Events, regardless of casuality, for which the incidence for patients histed with CONCERTA\* was at least 1% and greater than the incidence among placebo-freated patients, incidence has been rounded to the nearest whole number.

Table 2 lists the incidence of treatment-intergent adverse events for a 2-week placeto-controlled trial (Study 4) in adolescents with ADHO at DONCERTA® doses of 18, 36, 54 or 72 mg/day.

Table 2 Incidence of Treatment-Emergent Events' in a 2-Week

Body System	Preferred Term	CONCERTA* (n=87)	Placebo (n= 90)
General	Accidental injury Fever	6% 3%	3%
Digestive	Hoadache Anoresia Diarrhea	9% 2% 2%	8% 0% 0%
Nervous Respiratory	Voroting Insomna Phanmatis	3% 5% 2%	0% 0%
Urogenital	Rheits Dysmenorthea	3%	2%

1: Events, regardless of causality, for which the incidence for putients treated with CONCERTA

was at least 2% and grader than the incidence among placebo-healted patients, incidence has been manded to the nearest whole number. Togg in a large-plant moderated study (in-452 of histern), the cumulative incidence of new order of tiss was 5% after 27 months of treatment with COMCERTA\*\* In a second uncontrolled study.

or co. see 54 years 2 months or inserting with CVICATOR. In a second convisions stay, in-622 children, the convulsive moderace of new creat loss see 1% (5652 children). The treatment period vals up to 9 months with mean treatment duration of 7.2 months. Hygeringsor: In the laboratory classroom clinical risks in children (Studies 1.5 and 2), both CONCERON\* of and methydrenicidate foll increased resturg pulse by an average of 2-6 both and produced average increases of systalic and distillate blood pressure of roughly 1-4 months during the day, relative to placebo. In the placebo-controlled activisation that (Study 4), mean increases from baseline in resting public rate were observed with COMCERTAP and placebo at the end of the double-olled phase itS and 3 baselshinster, expectively. Mean increases from baseline in Blood pressure at the end of the obushe-blind phase for COMCERTAP and placebo-insated patients, were 0.7 and 0.7 mm Hig (systolic) and 2.6 and 1.4 mm Hig (diamblic). spectively, (see WARNINGS)

respectively, (one inversarials). Post-flarketing Experience with CONCERTA\*\* Post-marketing experiences with CONCERTA\* associated sportaneous reports of the following adverse events: difficulties in visual accommodition, blurred vision, abnormal liver function first (e.g., transaminate elevation).

populations, arthylinia, Hucopera, and Frontocytopera.

Adverse Events with Other Methylphenidate HCI Products: Nervousness and Insomnia are the most common adverse reachors reported with other methylphemicate products. Other reactions include hypersensitivity (including skin raph, unicaria, heier, arthraigia, exfoliative dermatitis, erythema mutiflorme with histopathological findings of necrotizing sepolatis, and demonstrating registers in requirement were insequent output in restricting sections, and thromboorphomic purpositio arrowest, master, dictoriess, headacht, dysteriess, drowleress, blood pressure and pulse changes, both up and down before anyone abdominal para-versight tass during purposing of thereopy. There have been true reports of flowerfels syndrome. Tools, psychosis has been reported, Although a definite causal relationship has not been established, the following have been reported in patients taking this drugs hapitic coma, solated cause of certifical artists and/or codesions, areming familiared depressed mood, a the instances of scalp har loss. Wery care reports of recordingtic malignant syndrome (MAS) have been revisited and in more of these collection are consuments revision to revision thereign. have been received, and, in most of treat, patients were comparently receiving therapies associated with NMS. In a single report, a ten-year-old boy who had been taking methylphenidate for approximately 16 months experienced an NMS-Re event within 45 minutes of ingesting his first dose of ventationse. 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, insomnia, and tachycleriae may occur more frequently. rse reactions listed above may also occur

DRUG ABUSE AND DEPENDENCE

Controlled Solstance Class: CONCERTA\*, like other methylphenidate products, is classified as a Schedule if controlled substance by kideral regulation.

Abuse, Dependence, and Talerance: See WARNINGS for boxed warning containing drug.

Sinns and Symptoms: Sizes and sumptoms of acute methylpheridate overdiscipe, resulting Signs are symptomic signs and symptoms of acute metrylphenolate composition, mission, principally from devisitinuation of the CNS and from excesse sympathonismistic effects, may include the following-contiling, aptation, formors, fryperefficial, muscle hyliching, comunicions (may be followed by coma), explicing, confusion, full schalarons, delirium, sweating, flushing. heutache, hyperpyresia, tachycardia, palpitations, cardiac arrhythmias, hypertension, and dryness of mucous membranes.

and dryriess of mucous membranes. Recommended Treatment: Treatment consists of appropriate supportive measures. The patient must be protected against self-visiny and against external stimuli that routil against overstimulation sinadly present. Gastric contents may be evacuated by gastric lavage as indicated. Before performing gastric lavage, control agitation and secures if present as indicated, before performing gaster, usage, control applicant and systems in present and present the airway. Other ressures to debudy the gut include administration of activated charcost and a cathoric, intensive core must be provided to maintain adequate circulation and respectively exchange, external corting procedures may be required for hyperpy-reas. Efficacy of pertoned dialyses or extractory resil hemodalysis for CONCERTA? include feat not been established. The prolonged release of methysphemiotals from CONCERTA? should be considered when treating patients with previous.

se considered when this right asserts with oversions of all overslossing, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poision control center for up-to-date information on the management of overslossing with ethylphenidate.

For more information call 1-886-440-7803 or stall www.concerta.net Manufactured by ALZA Corporation Mountain View CA 94043. Distributed and marketed by McNeil Pediatrics, Dission of McNeil-PPC, Inc., Fort Washington, PA 19034.



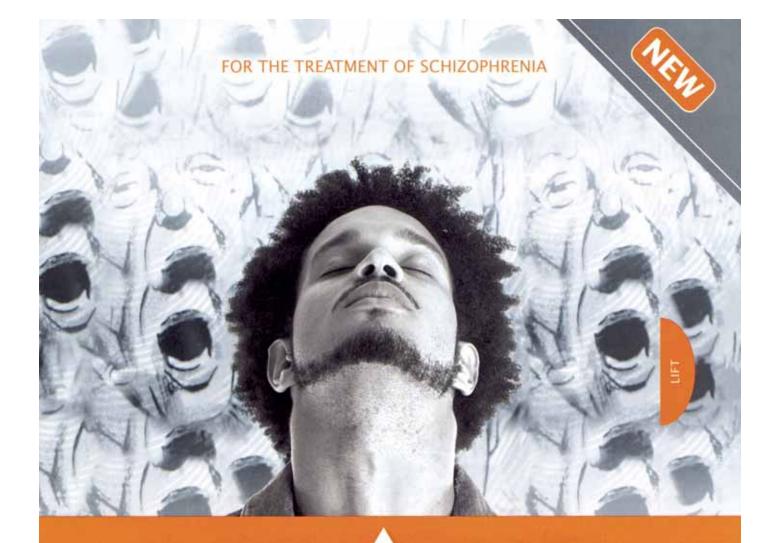
An ALZA DROS® Technology Product

Concertal and OROS\* are Registered Trademarks of ALZA Corporation.

Edition: June 2006 10025803 PF

References: 1. McBurnett K. Cooper KM. Effectiveness of OROS<sup>®</sup> methylphenidati in children with or without comorbid oppositional deflant disorder and conduct disorder. Poster presented at: American Academy of Child and Adolescent Psychiatry/Canadian Academy of Child and Adolescent Psychiatry Joint Annual Meeting: October 21, 2005. Toronto, Ontano, Canada. 2, Pelham WE, Ghapy EM. Burrows-Madiean L, et al. Once-a-day Concerta methylphenidate versus three daily methylpheridate in laboratory and natural settings. Pediatrics 2001;107(6). Available at http://www.pediatrics.org/cgi/content/hul/107/6/e105. 3. Wiens TE. McSurnett K. Bukstein O. et al. Multisate controlled study of OROS methylphenidate in the treatment of adolescents with Pediatr Adolesc Med. 2006;180:82-90. its with attention-deficitifyperactivity disorder. Arch





He Needs a Powerful Antipsychotic for His Mind

But What Will It Do to His Body?



STRENGTH FOR THE WHOLE PERSON

Please see Important Safety Information, including Boxed Warning, on adjacent pages. Please see accompanying brief summary of full Prescribing Information for INVEGA™ and RISPERDAL® (risperidone).

Ę

# A NEW ORAL ATYPICAL ANTIPSYCHOTIC FOR THE TREATMENT OF SCHIZOPHRENIA

#### INTRODUCING



#### STRENGTH FOR THE WHOLE PERSON

#### IMPORTANT SAFETY INFORMATION FOR INVEGA™ AND RISPERDAL®

#### Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of 17 placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. Neither INVEGA<sup>TM</sup> (paliperidone) nor RISPERDAL® (risperidone) are approved for the treatment of patients with Dementia-Related Psychosis.

INVEGA and RISPERDAL are indicated for the treatment of schizophrenia.

Commonly observed adverse events: The most commonly observed adverse events, occurring at an incidence of ≥5% and at least 2 times placebo, were INVEGA: akathisia and extrapyramidal disorder; RISPERDAL: anxiety, somnolence, extrapyramidal symptoms, dizziness, constipation, nausea, dyspepsia, rhinitis, rash, and tachycardia.

QT Prolongation: INVEGA causes a modest increase in the corrected QT (QTc) interval. INVEGA should be avoided in combination with other drugs that are known to prolong the QTc interval, in patients with congenital long QT syndrome or a history of cardiac arrhythmias. Certain circumstances may increase the risk of torsades de pointes and/or sudden death in association with the use of drugs that prolong the QTc interval.

Neuroleptic Malignant Syndrome (NMS): NMS, a potentially fatal symptom complex, has been reported with the use of antipsychotic medications, including INVEGA and RISPERDAL. Clinical manifestations include muscle rigidity, fever, altered mental status and evidence of autonomic instability (see full Prescribing Information). Management should include immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy, intensive symptomatic treatment and medical monitoring, and treatment of any concomitant serious medical problems.

Tardive Dyskinesia (TD): TD is a syndrome of potentially irreversible, involuntary, dyskinetic movements that may develop in patients treated with antipsychotic medications. The risk of developing TD and the likelihood that dyskinetic movements will become irreversible are believed to increase with duration of treatment and total cumulative dose. Elderly patients appeared to be at increased risk for TD. Prescribing should be consistent with the need to minimize the risk of TD. The syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn.

Hyperglycemia and Diabetes: Hyperglycemia, some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics (APS). Patients starting treatment with APS 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.

Please see accompanying brief summary of full Prescribing Information for INVEGA and RISPERDAL.



## Powerful Efficacy for the Mind With Safety and Tolerability for the Body

#### **INVEGA** combines:

- The active metabolite of RISPERDAL® (risperidone)
- Innovative OROS® extended-release technology

#### INVEGA demonstrated:

- Significant efficacy in the positive and negative symptoms of schizophrenia<sup>1</sup>
- Low weight gain and EPS rates comparable with placebo in 6-week trials with the recommended 6-mg dose<sup>1\*</sup>

#### Please visit www.invega.com.

Gastrointestinal: INVEGA should ordinarily not be administered to patients with pre-existing severe gastrointestinal narrowing. Rare instances of obstructive symptoms have been reported in patients with known strictures taking nondeformable formulations. INVEGA should only be used in patients who are able to swallow the tablet whole.

Cerebrovascular Adverse Events (CAEs): CAEs, including fatalities, have been reported in elderly patients with dementia-related psychosis taking atypical antipsychotics in clinical trials. Neither INVEGA nor RISPERDAL are approved for treating these patients.

Seizures: INVEGA and RISPERDAL should be used cautiously in patients with a history of seizures.

Hyperprolactinemia: As with other drugs that antagonize dopamine D<sub>2</sub> receptors, INVEGA and RISPERDAL elevate prolactin levels and the elevation persists during chronic administration.

Suicide: The possibility of suicide attempt is inherent in psychotic illnesses and close supervision of high-risk patients should accompany drug therapy.

Orthostatic Hypotension: INVEGA and RISPERDAL may induce orthostatic hypotension associated with dizziness, tachycardia, and in some patients, syncope, especially during the initial dose-titration period. Monitoring should be considered in patients for whom this may be of concern. INVEGA and RISPERDAL should be used with caution in patients with known cardiovascular disease, and conditions that would predispose patients to hypotension.

Potential for Cognitive and Motor Impairment: INVEGA and RISPERDAL have the potential to impair judgment, thinking, or motor skills. Caregivers and patients should use caution until they are reasonably certain that INVEGA and RISPERDAL do not affect them adversely.

Maintenance Treatment: Physicians who elect to use INVEGA and RISPERDAL for extended periods should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient.

Weight Gain: The proportion of subjects having a weight gain of ≥7% body weight were comparable to placebo (5%) for 3 mg (7%) and 6 mg (6%). A higher incidence was seen for 9 mg (9%) and 12 mg (9%).

\*Extrapyramidal Symptoms (EPS): Total EPS-related adverse events in the higher 9-mg and 12-mg treatment groups were 25% and 26%, respectively, versus 11% for the placebo group.

OROS is a registered trademark of ALZA Corporation. RISPERDAL is a registered trademark of Janssen, L.P.





#### INVEGA™

(paliperidone) Extended-Release Tablets

BEFORE PRESCRIBING, PLEASE CONSULT COMPLETE PRESCRIBING INFORMATION OF WHICH THE FOLLOWING IS A BRIEF SUMMARY

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Increased Mortality in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of 17 placebo-controlled trials (modal duration of 10 weeks) in these subjects revealed a risk of death in the drug-treated subjects of between 1.6 to 1.7 times that seen in placebo-treated subjects. Over the course of a typical 10-week controlled frial, the rate of death in drug-treated subjects was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either carcilovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. INVEGATM (paliperidone) Extended-Release Tablets is not approved for the treatment of patients with dementia-related osvohosis.

INDICATIONS AND USAGE: INVEGA™ (paliperidone) Extended-Release Tablets is indicated for the treatment

INDICATIONS AND USAGE: INVEGA™ (paliperidone) Extended-Release Tablets is indicated for the treatment of schizophrenia.

CONTRAINDICATIONS: INVEGA™ (paliperidone) is contraindicated in patients with a known hypersensitivity to paliperidone, risperidone, or to any components in the INVEGA™ formulation.

WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis – Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. INVEGA™ (paliperidone) Extended-Release Tablets is not approved for the treatment of dementia-related psychosis (see Boxed Warning), QT Prolongation: Paliperidone causes a modest increase in the corrected QT (QTc) interval. The use of paliperidone bould be avoided in combination with other drugs that are known to prolong QTc including Class 1A (e.g., quinidine, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmic medications, antipsychotic medications known to prolong the QTc interval. Paliperidone should also be avoided in patients with conception and patients with conception and patients with conception and patients with a history of cardiac arrhythmias. Certain circumstances may increase the risk of the occurrence of torsade de pointes and/or sudden death in association with the use of drugs that prolong the QTc interval; and (4) presence of congenital prolongation of the QT interval. The effects of paliperidone on the QT interval; and (4) presence of congenital prolongation of the QT interval; including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the QTc interval; including the ATC interval; including the ATC interval; including the ATC interval; including the ATC interval were evaluated in a double-blind, active-controlled (moxifloxacin 400 mg single dose), multicenter QT study in adults with schizophrenia and schizoaffective disorder, and in three placebo- and active-controlled 6 treated and patient prolong t myoglobinuria (rhabdomyojsis), and acute renal failure. Management should include: discontinuation of the antipsychotic and other drugs not essential to therapy, intensive symptomatic treatment and medical monitoring; and treatment of other serious medical problems. If a patient requires antipsychotic drugs after recovery from MMS, the reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences have been reported. Tardive Dyskinesia: A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. The risk of developing and likelihood that it will become irreversible are believed to increase with the duration of treatment and the total cumulative dose. However, tardive dyskinesia can develop, after brief treatment periods at low doses. There is no known treatment for established cases of tardive dyskinesia, although it may remit, partially or completely, if the antipsychotic is withdrawn. Prescribing should be in a manner to minimize the occurrence. In patients who require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically. If signs and antispychotic is withdrawn. Prescribing should be in a manner to minimize the occurrence. In patients who require chronic treatment, the smallest does and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically. If signs and symptoms should appear drug discontinuation should be considered. Hyperglycemia and Diabetes Mellitus-Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with all atypical antipsychotics. Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family history of diabetes), who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Gastrointestinal: Because the INVEGA™ should ordinarily not be administered to patients with pre-existing severe gastrointestinal tract, INVEGA™ should ordinarily not be administered to patients with pre-existing severe gastrointestinal tract, INVEGA™ should ordinarily not be administered to patients with pre-existing severe gastrointestinal tract, INVEGA™ should ordinarily not be decreased transit time, past history of peritonitis, cystic fibrosis, chronic intestinal pseudoobstruction, or Meckel's diverticulum). There have been rare reports of obstructive symptoms in patients with known strictures in association with the ingestion of drugs in non-deformable controlled-release formulations. Because of the controlled-release design of the tablet, INVEGA™ should only be used in patients who are able to swallow the tablet whole (see PRECAUTIONS: Information for Patients). A decrease in transit time, e.g., as seen with gastrointestinal neuropathy, diabetic gastroparesis, or other causes, would be expe

#### PRECAUTIONS

Psychosis).

PRECAUTIONS

General: Orthostatic Hypotension and Syncope: Paliperidone can induce orthostatic hypotension and syncope in some patients because of its alpha-blocking activity. In pooled results of the three placebo-controlled, 6-week, fixed-dose trials, syncope was reported in 0.8% (7/850) of subjects treated with INVEGA™ (3, 6, 9, 12 mg) compared to 0.3% (1/850) of subjects treated with placebo. INVEGA™-should be used with caution in patients with known cardiovascular disease (e.g., heart failure, history of myocardial infarction or ischemia, conduction abnormalities), cerebrovascular disease, or conditions that predispose the patient to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). Moritoring of orthostatic vital signs should be considered in patients with a revulperensive medications). Moritoring of orthostatic vital signs should be considered in patients with a history of sezures: Like other antipsychotic drugs, INVEGA™ should be used cautiously in patients with a history of sezures or other conditions that potentially lower the sezure threshold. Hyperprolactinemia: Like other drugs that antagonize dopamine D, receptors, paliperidone elevates prolactin levels and the elevation persists during chronic administration. Paliperidone has a prolactin-elevating effect similar to that seen with risperidone, a drug that is associated with higher levels of prolactin than other antipsychotic drugs. Galactorrhea, amenorrhea, gynecomastia, and impotence have been reported in patients executing prolactin-elevating compounds. An increase in the incidence of pitulary gland, mammary gland, and pancreatic islet cell neoplasia (mammary adenocarcinomas, pitulary and pancreatic adenomas) was observed in the risperidone carcinogenicity studies conducted in mice and rats (see PRECAUTIONS: Carcinogenesis, Mutagenesis, Impairment of Ferfility). Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this

in patients at risk for aspiration pneumonia. Sulcide: The possibility of suicide attempt is inherent in psychotic illnesses, and close supervision of high-risk patients should accompany drug therapy. Potential for Cognitive and Motor Impairment: Somnolence and sedation were reported in subjects treated with INVEGA™ (see ADVERSE REACTIONS), Antipsychotics, including INVEGA™ have the potential to impair judgment, thinking, or mort skills. Patients should be cautioned about performing activities requiring mental alertness, such as operating hazardous machinery or operating a motor vehicle, until they are reasonably certain that paliperidone therapy does not adversely affect them. Priapism: No cases of priapism have been reported in clinical trials with INVEGA™. Thrombotic Thrombocytopenia Purpura (TTP): No cases of TTP were observed during clinical studies with paliperidone. Although cases of TTP have been reported in association with risperidone\* administration, the relationship to risperidone therapy is unknown. Body Temperature Regulation: Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing INVEGA™ to patients who will be experiencing conditions which may contribute to an elevation in core body temperature. Antiemetic Effect: An antiemetic effect was observed in preclinical studies with paliperidone. This effect, if it is occur in In humans, may mask the signs and symptoms of overdosage with certain drugs or of reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing INVEGA™ to patients who will be experiencing conditions which may contribute to an elevation in core body temperature. Antiemetic Effect: An antiemetic effect was observed in precinical studies with paliperidone. This effect, if it occurs in humans, may mask the signs and symptoms of overdosage with certain drugs or of conditions such as intestinal obstruction. Reye's syndrome, and brain tumor. Use in Patients with concomitant Illness: Clinical experience with INVEGA™ in patients with certain concomitant illnesses is limited (see CLINICAL PHARMACOLOGY: Pharmacokinetics: Special Populations: Hepatic Impairment and Renal Impairment in full PI). Patients with Parkinson's Disease or Dementia with Lewy Bodies are reported to have an increased sensitivity to antipsychotic medication. Manifestations of this increased sensitivity include confusion, obtundation, postural instability with frequent falls, extrapyramidal symptoms, and clinical features consistent with the neuroleptic malignant syndrome. INVEGA™ has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial intraction or unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical trials. Because of the risk of orthostatic hypotension with INVEGA™, caution should be observed in patients with known cardiovascular disease (see PREAUTIONS: General: Orthostatic Hypotension and Syncopy. Information for Patients: Physicians are advised to discuss the following issues with patients for whom they prescribe INVEGA™. Orthostatic hypotension: Patients should be advised to a tortionated and the risk of orthostatic hypotension, particularly at the time of initiating retarement, re-initiating treatment or increasing he dose. Interference With Cognitive and Motor Performance: As INVEGA™ has the potential to impair judgment, thinking, or motor skills, patients should be advised to with inhibitors or inducers of these isozymes is unlikely. While in vitro studies indicate that CYP2D6 and CYP3A4 may be minimally involved in paliperidone metabolism, in vivo studies do not show decreased elimination by these isozymes and they contribute to only a small fraction of total body clearance. Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: Carcinogenesis: Carcinogenesis to the carcinogenicity studies of risperidone, which is extensively converted to paliperidone in rats, mice, and humans, were conducted in Swiss albino mice and Wistar rats. Risperidone was administered in the diet at daily doses of 0.63, 2.5, and 10 mg/kg for 18 months to mice and for 25 months to rats. A maximum tolerated dose was not achieved in male mice. There were statistically significant increases in pituitary gland adenomas, endocrine pancreas adenomas, and mammary gland adenocarcinomas. The no-effect dose for these tumors was less than or equal to the maximum recommended human dose of risperidone on a mg/m² basis (see risperidone package insert). An increase in mammary, pituitary, and endocrine pancreas neoplasms has been found in rodents after chronic administration of other artispsychotic drugs and is considered to be mediated by prolonged dopamine D<sub>2</sub> antagonism and hyperprolactinemia. The relevance of these tumor findings in rodents in terms of human risk is unknown (see PRECAUTIONS: General: Hyperprolactinemia). Mutagenesis: No evidence of genotoxic potential for paliperidone was found in the Ames reverse mutation test, the mouse lymphoma assay, or the in vivo rat micronucleus test. Impairment of Fertility: In a study of fertility, the percentage of treated female rats that became pregnant was not affected at oral doses of paliperidone of up to 2.5 mg/kg/day, though shaft of the maximum recommended human dose on a mg/m² basis. The fertility of male rats was not affected at oral doses of paliperidone of up to 2.5 mg/kg/day, although sperm count and sperm viability studies were not doses of paliper Pregnancy Category C: In studies in rats and rabbits in which paliperidone was given orally during the period of organogenesis, there were no increases in fetal abnormalities up to the highest doses tested (10 mg/kg/day in rats and 5 mg/kg/day in rabbits, which are 8 times the maximum recommended human dose on a mg/m² basis). In rat organogenesis, there were no increases in tetal abnormalities up to the inghest coses tested (Lingkrydray in Tatis and 5 mylkg/day in rabibs, which are 8 times the maximum recommended human dose on a mylim basis). In rat reproduction studies with risperidone, which is extensively converted to paliperidone in rats and humans, increases in pup deaths were seen at oral doses which are less than the maximum recommended human dose of risperidone on a mylim basis (see risperidone package insert). Use of first generation aritipsychotic drugs during the last trimester of pregnancy has been associated with extrapyramidal symptoms in the neonate. These symptoms are usually self-initied. It is not known whether paliperidone, when taken near the end of pregnancy, will lead to similar neonatal signs and symptoms. There are no adequate and well controlled studies of INVEGA<sup>TM</sup> in pregnant women. INVEGA<sup>TM</sup> should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery: The effect of INVEGA<sup>TM</sup> on labor and delivery in humans is unknown. Nursing Mothers: In animal studies with paliperidone and in human studies with risperidone, paliperidone was excreted in he milk. Therefore, women receiving INVEGA<sup>TM</sup> and to the reast-feed infants. Pediatric Use: Safety and effectiveness of INVEGA<sup>TM</sup> in patients < 18 years of age have not been established. Geriatric Use: The safety, tolerability, and efficacy of INVEGA<sup>TM</sup> were evaluated in a 6-week placebo-controlled studies study of 114 elderly subjects with schizophrenia (65 years of age and older, of the total number of subjects for subjects in clinical studies of INVEGA<sup>TM</sup> (3 to 12 mg once daily). In addition, a small number of subjects 55 years of age and older were included in the 6-week placebo-controlled studies in which adults exhizophrenic subjects received fixed doses of INVEGA<sup>TM</sup> (3 to 15 mg once daily). In addition, a small number of subjects for subjects in clinical studies of INVEGA<sup>TM</sup> (n 1796), including those younger gatients, but greater sensitivity of some older individuals cannot be ruled out. This drug is known to be substantially excreted by the kidney and clearance is decreased in patients with moderate to severe renal impairment (see CLINICAL PHARMACOLOGY: Pharmacokinetics: Special Populations: Renal Impairment in full Impairment reservations. The involved in immediately patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (see DOSAGE AND ADMINISTRATION: Dosing in Special Populations in full Pt). ADVERSE REACTIONS

ADVENSE HEACTIONS

The information below is derived from a clinical trial database for INVEGA™ consisting of 2720 patients and/or normal subjects exposed to one or more doses of INVEGA™ for the treatment of schizophrenia. Of these 2720 patients, 2054 were patients who received INVEGA™ white participating in multiple dose, effectiveness trials. The conditions and duration of treatment with INVEGA™ varied greatly and included (in overlapping categories) openlabel and double-blind phases of studies, inpatients and outpatients, fixed-dose and flexible-dose studies, and

short-term and longer-term exposure. Adverse events were assessed by collecting adverse events and performing physical examinations, vital signs, weights, laboratory analyses and ECGs. Adverse events during exposure were obtained by general inquiry and recorded by clinical investigators using their own terminology. Consequently, to provide a meaningful estimate of the proportion of individuals experiencing adverse events, events were grouped in standardized categories using MedDRA terminology. The stated frequencies of adverse events represent the proportions of individuals who experienced a treatment-emergent adverse event of the type listed. An event was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation. Adverse Events Observed in Short-Term, Placebo-Controlled Trials of Subjects with proportions of individuals who experienced a treatment-emergent adverse event of the type listed. An event was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation. Adverse Events Observed in Short-Term, Placebo-Controlled Trials of Subjects with Schizophrenia The information presented in these sections were derived from pooled data from the three placebo-controlled, 6-week, fixed-dose studies based on subjects with schizophrenia who received INVEGA™ at daily doses within the recommended range of 3 to 12 mg (n = 850). Adverse Events Occurring at an Incidence of 2% or More Armon INVEGA™ teated adverse events that were spontaneously reported in the three placebo-controlled, 6-week, fixed-dose studies, listing those events that occurred in 2% or more of subjects treated with INVEGA™ in any of the dose groups was greater than the incidence in subjects treated with placebo. Treatment-Emergent Adverse Events in Short-Term, Fixed-Dose, Placebo-Controlled, fails in Adult Subjects with Schizophrenia.\* Body System or Organ Class (Dictionary-derived Term) Percentage of Patients Reporting Event INVEGA™ Placebo (N-ac55) first, INVEGA™ dosage once daily 3 mg (N=127) second, 6 mg N=235) third, 9 mg (N=246) fourth, 12 mg (N=246) fifth, Total no. subjects with adverse events 66, 72, 66, 70, 76, Cardiac disorders: Altioventicular block first degree 1, 2, 0, 2, 1; Bundle branch block 2, 3, 1, 3, <1; Sinus arrhythmia 0, 2, 1, 1, <1; Tachycardia 7, 14, 12, 12, 14; Eye disorders: Vision blurred 1, 1, 1, 0, 2; Castrointestinal disorders: Abdominal pain upper 1, 1, 3, 2, 2; Dry mouth 1, 2, 3, 1, 3; Dyspepsia 4, 2, 3, 2, 5; Sausea 5, 6, 4, 4, \$ Salivary hypersecretion <1, 0, <1, 1, 4; General disorders: Sakor binding and upper 1, 1, 3, 2, 2; Dry mouth 1, 2, 3, 1, 3; Dyspepsia 4, 2, 3, 2, 5; Sausea 5, 6, 4, 4, \$ Salivary hypersecretion <1, 0, <1, 1, 4; General disorders: Sakor plani 1, 1, 1, 1, 2; Pain in extremity 1, 0, 1, 0, 2; Provsus system disorders: Akat INVEGA™ and at least twice the placebo rate for at least one dose included: akathisia and extrapyramidal disorder. Extrapyramidal Symptoms (EPS) in Clinical Trials: Pooled data from the three placebo-controlled, 6-week, fixed-dose studies provided information regarding treatment-emergent EPS. Several methods were used to measure EPS: (1) the Simpson-Angus global score (mean change from baseline) which broadly evaluates Parkinsonism, (2) the Barmes Akathisia aftaing Scale global clinical rating score (mean change from baseline) which broadly evaluates Parkinsonism, (2) the Barmes Akathisia aftaing Scale global clinical rating score (mean change from baseline) which evaluates akathisia, (3) use of anticholinergic medications to treat emergent EPS, and (4) incidence of spontaneous reports of EPS. For the Simpson-Angus Scale, spontaneous EPS reports and use of anticholinergic medications, there was a dose-related increase observed for the 9 mg and 12 mg doses. There was no difference observed between placebo and INVEGA™ 3 mg and 6 mg doses for any of these EPS measures. Percentage of Patients INVEGA™ placebo (N=355) first, INVEGA™ dosage once daily 3 mg (N=127) second, 6 mg N=235) third, 9 mg (N=246) fourth, 12 mg (N=242) fifth, EPS Groups: Parkinsonism \*9, 9, 11, 3, 15, 14; Akathisia \*6, 6, 4, 7; Use of anticholinergic medications \*10, 19, 22, 22; \*For Parkinsonism, percent of patients with Simpson-Angus global score > 0.3 (Global score defined as total sum of items score divided by the number of items). \*For Akathisia, percent of patients with Barnes Akathisia Rating Scale global score > 2. \*Percent of patients who received anticholinergic medications to treat emergent EPS. Percentage of Patients INVEGA™ Placebo (N=355) first, INVEGA™ dosage once daily 3 mg (N=127) second, 6 mg N=235) third, 9 mg (N=246) fourth, 12 mg (N=246) first, INVEGA™ dosage once daily 3 mg (N=127) second, 6 mg N=235) third, 9 mg (N=246) fourth, 12 mg (N=246) first, INVEGA™ foreous constraints of the second patients with EPS related AE 11. PRECAUTIONS: Seriatire Use). Laboratory Test Abnormalities in Clinical Trials: In the pooled data from the three placebo-controlled, 6-week, fixed-dose studies, between-group comparisons revealed no medically important differences between INVEGA<sup>TM</sup> and placebo in the proportions of subjects experiencing potentially clinically significant changes in routine hematology, urinalysis, or serum chemistry, including mean changes from baseline in fasting glucose, insulin, c-peptide, triglyceride, HDL, LDL, and total cholesterol measurements. Similarly, there were no differences between INVEGA<sup>TM</sup> and placebo in the incidence of discontinuations due to changes in hematology, urinalysis, or serum chemistry. However, INVEGA<sup>TM</sup> was associated with increases in serum prolactin (see PRECAUTIONS: General: Hyperprotactinemia). Weight Gain in Clinical Trials: In the pooled data from the three placebo-controlled, 6-week, fixed-dose studies, the proportions of subjects having a weight gain of 2 T% of tool weight were similar for INVEGA<sup>TM</sup> of and 6 mg (7% and 6%, respectively) and placebo (5%), but there was a higher incidence of weight gain for INVEGA<sup>TM</sup> 9 mg and 12 mg (9% and 9%, respectively). Other Events Observed During the Premarketing Evaluation of INVEGA<sup>TM</sup>: The following is contains all serious and non-serious treatment-emergent adverse events reported at any time by individuals taking INVEGA<sup>TM</sup> during any phase of a trial within the premarketing database (n = 2720), except (1) those listed in Table above or elsewhere in labeling, (2) those for which a causal relationship to INVEGA<sup>TM</sup> use was considered remote, and (3) those occurring in only one subject treated with INVEGA<sup>TM</sup> and that were not acutely lifethreatening. Events are classified within body system categories using the following definitions: very frequent adverse events are defined as those occurring on one or more occasions in at least 1.10 subjects, frequent adverse events are defined as those occurring on one or more occasions in at least 1/10 subjects, frequent adverse events are defined as those occurring on one or more occasions in at least 1/10 subjects, frequent adverse events are defined as those occurring on one or more occasions in 1/10 subjects, and rare events are those occurring on one or more occasions in 1/100 subjects, and rare events are those occurring on one or more occasions in 1/100 subjects. Blood and Lymphatic System Disorders: rare: thrombocytopenia; Cardiac Disorders: frequent: palpitations; infrequent: bradycardia; Gastrointestinal Disorders: frequent: abdominal pain; infrequent: swollen tongue; General Disorders: infrequent: edema; Immune Disorder: rare: anaphylactic reaction; Nervous System Disorders: rare: coordination abnormal; Psychiatric Disorders: infrequent confusional state; Respiratory, Thoracic and Mediastinal Disorders; frequent dyspnea; rare; pulmonary embolus; Vascular Disorders; rare; ischemia, venous thrombosis; Adverse Events Reported With Risperidone; Psigeridone is the major active metabolite of risperidone. Adverse events reported with risperidone can be found in the ADVERSE REACTIONS section of the eridone nackage insert

DRUG ABUSE AND DEPENDENCE

Controlled Substance: INVEGA™ (paliperidone) is not a controlled substance

For more information on symptoms and treatment of overdosage, see full Prescribing Information. 10105900B Issued: December 2006 © Janssen, L.P. 2006



01JN217B

#### RISPERDAL

#### (RISPERIDONE) TABLETS/ORAL SOLUTION

RISPERDAL® M-TAB® (RISPERIDONE)

**ORALLY DISINTEGRATING TABLETS** 

Brief Summary of Full Prescribing Information for Schizophrenia and Bipolar Mania. CLINICAL STUDIES FOR OTHER INDICATIONS WILL HAVE DIFFERING ADVERSE EVENTS AND SAFETY CONCERNS. PLEASE SEE FULL PI FOR THIS INFORMATION REGARDING RISPERDAL® FOR AUTISM.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with attypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between to the controlled trial, the rate of death in drug-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. RISPERDAL® (risperidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

INDICATIONS AND USAGE: RISPERDAL® (risperidone) is indicated for the treatment of schizophrenia. Monotherapy: RISPERDAL® is indicated for the short-term treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Combination Therapy: The combination of RISPERDAL® with lithium or valproate is indicated for the short-term treatment of acute manic or mixed episodes associated with Bipolar I Disorder. CONTRAINDICATIONS: RISPERDAL® (risperidone) is contraindicated in patients with a known hypersensitivity to

the product.

WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. RISPERDAL\* (risperidone) is not approved for the treatment of dementia-related psychosis (see Boxed Warning). Neurolepitc Malignant Syndrome (NMS): A potentially triatal symptom complex sometimes referred to as Neurolepitc Malignant Syndrome (NMS) has been reported with antipsychotic drugs. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability. Other signs may include elevated creatinine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure. Management should include: discontinuation of the antipsychotic and other drugs not essential to therapy; intensive symptomatic treatment and medical monitoring; and treatment of other serious medical problems. If a patient requires antipsychotic drugs after recovery from NMS, the reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences have been reported. Tardive Dyskinesia: A syndrome of potentially inversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. The risk of developing and likelihood that it will become inversible are believed to increase with the duration of treatment and the total cumulative dose. However, tardive dyskinsais acan develoo, after brief treatment eoriods at low doses. and the total cumulative dose. However, tradive dyskinesia can develop, after brief treatment periods at low doses. There is no known treatment for established cases of tardive dyskinesia, although it may remit, partially or completely, if the antipsychotic is withdrawn. Prescribing should be in a manner to minimize the occurrence, In patients who require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically. If signs and symptoms should appear drug discontinuation should be considered. Cerebrovascular Adverse Events, Including Stroke, in Elderly appear drug discontinuation should be considered. Cerebrovascular Adverse Eventis, Including Stroke, in Elderly Patients With Dementia-Related Psychosis: Cerebrovascular adverse events (e.g., stroke, transient ischemic attack), including Italiaties, were reported in patients (mean age 85 years, range 73-97) in trals of risperidone in elderly patients with dementia-related psychosis. In placebo-controlled trials, there was a significantly higher incidence of cerebrovascular adverse events in patients treated with risperidone compared to patients treated with placebo. RISPERDAL® is not approved for the treatment of patients with dementia-related psychosis. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis.) Hyperglycemia and Diabetes Mellitus: Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics including RISPERDAL®. Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family istory of diabetes) who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family istory of diabetes) who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment.

PRECAUTIONS: General: Orthostatic Hypotension: RISPERDAL® (risperidone) may induce orthostatic hypotension associated with dizziness, tacklovardia, and in some patients, syncope, especially during the initial dose-litetation period,

A socialed with dizziness, tachycardia, and in some patients, syncope, especially during the initial dose-titration period, probably reflecting its alpha-adrenergic antagonistic properties. Syncope was reported in 0.2% (6/2607) of RISPERDAL®-tracetal patients in Phase 2 and 3 studies. The risk of orthostatic hypotension and syncope may be minimized by limiting the initial dose to 2 mg total (either QD or 1 mg BID) in normal adults and 0.5 mg BID in the elderly and patients with renal or hepatic impairment (see DOSAGE AND ADMINISTRATION in full PI). Monitoring of orthostatic vital signs should be considered in patients for whom this is of concern. A dose reduction should be considered if hypotension occurs, RISPERDAL® should be used with particular caution in patients with known cardiovascular disease (history of myocardial infarction or ischemia, heart failure, or conduction abnormalities). cerebrovascular disease, and conditions which would predispose patients to hypotension, e.g., dehydration and hypovolemia. Clinically significant hypotension has been observed with concomitant use of RISPÉRDAL® and antihypertensive medication. **Seizures**: RISPERDAL® should be used cautiously in patients with a history of seizures. Dysphagia: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in patients with advanced Alzheimer's dementia. RISPERDAL® and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis.)

Hyperprolactinemia: As with other drugs that antagonize dopamine D<sub>2</sub> receptors, risperidone elevates prolactin levels and the elevation persists during chronic administration. Risperidone is associated with higher levels of prolactin elevation than other antipsycholic agents. Galactorrhea, amenorrhea, gynecomastia, and impotence have been reported in patients receiving prolactin-elevating compounds. An increase in pituitary gland, mammary gland, and pancreatic identice cell neoplasia (mammary adenocarcionans, pituitary and pancreatic adenomas) was observed in the risperidone carcinogenicity studies conducted in mice and rats (see PRECAUTIONS – Carcinogenesis, Mutagenesis, Insparment of Fertility). Neither clinical studies no repidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. Potential for Cognitive and Motor Impairment: Somnolence was a commonly reported adverse event associated with RISPERDAL® treatment, especially when ascertained by direct questioning of patients. This adverse event is dose-related. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that RISPERDAL® treatment adversely. Priapism: Rare cases of priapism have been reported. Thrombotic Thrombotytopenic Purpura (TTP): A machinery, including automobiles, until they are reasonably certain that RISPERDAL® therapy does not affect them adversely. Priapism: Rare cases of priapism have been reported. Thrombotic Thrombocytopenic Purpura (TTP): A single case of TTP was reported in a 28 year-old female patient receiving ISPERDAL® in a large, open premarketing experience (approximately 1300 patients). She experienced jaundice, fever, and bruising, but eventually recovered after receiving plasmapheresis. The relationship to RISPERDAL® therapy is unknown. Antiemetic Effect: Risperidone has an antiemetic effect in animals; this effect may also occur in humans, and may mask signs and symptoms of overdosage with certain drugs or of conditions such as intestinal obstruction, Reye's syndrome, and brain tumor. Body Temperature Regulation: Disruption of body temperature regulation has been attributed to antipsychotic agents. Caution is advised when prescribing for patients who will be exposed to temperature extremes. Suicide: The possibility of a suicide attempt is inherent in patients with schizophrenia and bipolar mania, including children and adolescent patients, and close supervision of high-risk patients should accompany drug therapy. Use in Patients With Concomitant Illnesses: Clinical experience with RISPERDAL® in patients with oertain concomitant systemic illnesses is limited. Patients with Parkinson's Disease or Dementia with Lewy Bodies who receive antipsychotics, including RISPERDAL®, are reported to have an increased esnsitivity to antipsychotic medications. Manifestations of this increased esnsitivity have been reported to include confusion, obtundation, postural instability with requent talls, extrapyramidal symptoms, and clinical features consistent with the neuroleptic malignant syndrome. Caution is advisable in using RISPERDAL® in patients with diseases or conditions that could affect metabolism or hemodynamic responses. Increased plasma concentrations of risperidone and 9-hydroxyrisperidone occur in patients with severe renal im

Orally Disintegrating Tablet contains 0.42 mg phenylalanine; each 1 mg RISPERDAL® M-TAB® Orally Disintegrating Tablet contains 0.28 mg phenylalanine; and each 0.5 mg RISPERDAL® M-TAB® Orally Disintegrating Tablet contains 0.14 mg phenylalanine. Drug Interactions: The interactions of RISPERDAL® and other drugs have not been systematically evaluated. Given the primary CNS effects of risperidone, caution should be used when RISPERDAL® is taken in combination with other centrally acting drugs and alcohol. Because of its potential for inducing hypotension, RISPERDAL® may enhance the hypotensive effects of other herapeutic agents with this potential. RISPERDAL® may antagonize the effects of levodopa and dopamine agonists. Chronic administration of olozapine with risperidone may decrease the clearance of risperidone. Carbamazepine and Other Enzyme Inducers: In a drug interaction study in explanation, patients 11 studiest respective firsperidone triated to 8 mg/day for 3 weeks followed the concurrent schizophrenic patients, 11 subjects received risperidone litrated to 6 mg/day for 3 weeks, followed by concurrent administration of carbamazepine for an additional 3 weeks. During co-administration, the plasma concentrations of risperidone and its pharmacologically active metabolite, 9-hydroxyrisperidone, were decreased by about 50%. Plasma concentrations of carbamazepine did not appear to be affected. The dose of risperidone may need to be titrated accordingly for patients receiving carbamazepine, particularly during initiation or discontinuation of carbamazepine therapy. Co-administration of other known enzyme inducers (e.g., phenytoin, rifampin, and phenobarbital) with risperidone may cause similar decreases in the combined plasma concentrations of risperidone and 9-hydroxyrisperidone, which could lead to decreased efficacy of risperidone treatment. Fluoxetine and Paroxetine: therapy, "Co-administration of ofher known enzyme inducers (e.g., phenytoin, rifampin, and phenobarbital) with risperidone may cause similar decreases in the combined plasma concentrations of risperidone and 9-hydroxyrisperidone, which could lead to decreased efficacy of risperidone treatment. Pluoxetine and Paroxetine: Fluoxetine (20 mg CD) and paroxetine (20 mg CD) have been shown to increase the plasma concentration of sipperidone 25-2.8 fold and 3-9 fold respectively. Fluoxetine did not affect the plasma concentration of 9-hydroxyrisperidone. Paroxetine lowered the concentration of 9-hydroxyrisperidone by about 10%. When either concomitant fluoxetine or paroxetine is included. Lithium: Repeated oral doses of risperidone and 9-hydroxyrisperidone have not been studied. Lithium: Repeated oral doses of risperidone (3 mg BID) did not affect the exposure (AUC) or peak plasma concentrations (C<sub>max</sub>) of lithium (n-13). Alproatet: Repeated oral doses of risperidone (4 mg QD) did not affect the pre-dose or average plasma concentrations and exposure (AUC) or valorate peak plasma concentrations (C<sub>max</sub>) of placebo (n-21). However, there was a 20% increase in valorate peak plasma concentration (C<sub>max</sub>) after concomitant administration of risperidone. Digoxin: RISPERDAL® (0.25 mg BID) did not show a clinically relevant effect on the pharmacokinetics of digoxin. Drugs That Inhibit CYP 2D6 and Other CYP Isozymes: Risperidone is metabolized to 9-hydroxyrisperidone by CYP 2D6, an enzyme that is polymorphic in the population and that can be inhibited by a variety of psychotropic and other drugs (see CLINICAL PHARMACOLOGY in full PJ). Drug interactions that reduce the metabolism of risperidone to 9-hydroxyrisperidone would increase the plasma concentrations of risperidone and lower the concentrations of 9-hydroxyrisperidone and erythromycin (see CLINICAL PHARMACOLOGY in full PJ). Drug interactions that reduce the metabolism of risperidone and erythromycin (see CLINICAL) provides metabolized by other CYP 2D6. Therefore, RISPERD or 0.1 to 3 times the MRHD on a mg/m² basis. It is not known whether these deaths were due to a direct effect on the fetuses or pups or to effects on the dams. There was no no-effect dose for increased rat pup mortality. In one Segment III study, there was an increase in stillborn rat pups at a dose of 2.5 mg/kg or 1.5 times the MRHD on a mg/m² basis. In a cross-fostering study in Wistar rats, toxic effects on the fetus or pups, as evidenced by a decrease in the number of live pups and an increase in the number of dead pups at birth (Day 0), and a decrease in birth weight in pups of drugtreated dams were observed. In addition, there was an increase in deaths by Day 1 among pups of drug-treated dams, related durins were observed. In adound, river was an increase in oceanis by Day 1 among pulse or utig-related usins, regardless of whether or not the pups were cross-fostered. Risperidone also appeared to impair maternal behavior in that pup body weight gain and survival (from Day 1 to 4 of lactation) were reduced in pups born to control but reared by drug-treated dams. These effects were all noted at the one dose of risperidone tested, i.e., 5 mg/lgo or 3 times the MRHD on a mg/m² basis. Placental transfer of risperidone occurs in rat pups. There are no adequate and well-controlled studies in pregnant women. However, there was one report of a case of agenesis of the corpus callosum in an infant exposed to risperidone in utero. The causal relationship to RISPERDAL\* therapy is unknown. Reversible extrapyramidal symptoms in the neonate were observed following postmarketing use of risperidone during the last timester of prenancy. RISPERDAL\* behaved the netertial descriptions are not provided to the provided an intant exposed to risperidone in utero. The causal relationship to RISPERDAL® therapy is unknown. Reversible extrapyramidal symptoms in the neonate were observed following postmarketing use of risperidone during the last trimester of pregnancy. RISPERDAL® should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery: The effect of RISPERDAL® or labor and delivery in humans is unknown. Nursing Mothers: In animal studies, risperidone and 9-hydroxyrisperidone are excreted in milk. Risperidone and 9-hydroxyrisperidone are excreted in milk. Risperidone and 9-hydroxyrisperidone are excreted in milk. Risperidone and 9-hydroxyrisperidone are elso excreted in human breast milk. Therefore, women receiving risperidone should not breast-feed. Pediatric Uses: The safety and effectiveness of RISPERDAL® in pediatric patients with schizophrenia or bipolar mania have not been established. Tardive Dyskinesia: In clinical trials in 1885 children and adolescents with autistic disorder or other psychiatric disorders treated with risperidone, 2 (0.1%) patients were reported to have tardive dyskinesia, which resolved on discontinuation of risperidone treatment (see WARNINGS — Tardive Dyskinesia). Weight Gain: In long-term, open-label trials (studies in patients with autistic disorder or other psychiatric disorders), a mean increase of 7.5 kg after 12 months of RISPERDAL® treatment was observed, which was higher than the expected normal weight gain (approximately 3 to 3.5 kg per year adjusted for age, based on Centers for Disease Control and Prevention normative data). The majority of that increase occurred within the first 6 months of exposure to RISPERDAL®. The average percentiles at baseline and 12 months, respectively, were 49 and 60 for weight, 48 and 53 for height, and 50 and 62 for body mass index. When treating patients with RISPERDAL®, weight gain should be assessed against that expected with normal growth. (See also ADVERSE REACTIONS), Somnolence: Somnolence wa in children and adolescents (aged 5 to 17 years), 49% of patients who received risperidone had elevated prolactin levels compared to 2% of patients who received placebo. In clinical trials in 1885 children and adolescents with autistic disorder or other psychiatric disorders treated with risperidone, galactorrhea was reported in 0.8% of risperidone-treated patients and gynecomastia was reported in 2.3% of risperidone, galactorrhea was reported in 0.8% of risperidone on growth and sexual maturation have not been fully evaluated. Gerlatric User Clinical studies of RISPERDAL® in the treatment of schizophrenia did not include sufficient numbers of patients aged 65 and over to determine whether or not they respond differently than younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. Other development in the elderly as well as a greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION in full Pl.). While elderly patients exhibit a greater tendency to orthostatic (see PRECAUTIONS). Monitoring of orthostatic vital signs should be considered in patients fro whom this is of concern. This drug is substantially exceeded by the kidneys, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients with dementia-related psychosis, a higher incidence of mortality was observed in patients freated with furosem

ADVERSE REACTIONS: Associated With Discontinuation of Treatment: Bipolar Mania: In the US placebo-controlled trial with risperidone as monotherapy, approximately 8% (10/134) of RISPERDAL®-treated patients discontinued treatment due to an adverse event, compared with approximately 6% (7/125) of placebo-treated patients. The adverse events associated with discontinuation and considered to be possibly, probably, or very likely drug-related included paronina, somnolence, dizziness, extrapyramidal disorder, and muscle contractions involuntary. Each of these events occurred in one RISPERDAL®-treated patient (0.7%) and in no placebo-treated patients (0%). In the US placebocontrolled trial with risperidone as adjunctive therapy to mood stabilizers, there was no overall difference in the incidence of discontinuation due to adverse events (4% for RISPERDAL® vs. 4% for placebo). Incidence in Controlled Trials: Commonly Observed Adverse Events in Controlled Clinical Trials: Bipolar Mania: In the US placebo-controlled trial Commonly Observed Adverse Events in Controlled Clinical Trials: Bippolar Mania: In the US placebo-controlled trial with risperidone as monotherapy, the most commonly observed adverse events associated with the use of IRISPERDAL® (incidence of 5% or greater and at least twice that of placebo) were somnolence, dystonia, akathisia, dyspepsia, nausea, parkinsonism, vision abnormal, and saliva increased. In the US placebo-controlled trial with risperidone as adjunctive therapy to mood stabilizers, the most commonly observed adverse events associated with the use of RISPERDAL® were somnolence, dizziness, parkinsonism, saliva increased, akathisia, abdominal pain, and urinary incontinence. Adverse Events Occurring at an Incidence of 25% or more, and were more frequent among patients treated with flexible doses of RISPERDAL® for a first patients. Programment of the patients in a first patient by the patients begind Mania. Adverse events that occurred at an incidence of 25% or more, and were more frequent among patients treated with flexible doses of RISPERDAL® (1-6 mg daily as monotherapy and as adjunctive therapy to mood stabilizers, respectively) than among patients treated with placebo. Reported adverse events were classified using the World Health Organization preferred terms. Incidence of Treatment-Emergent Adverse Events in a 3-Week, Placebo-Controlled Trial-Monotherapy in Bipolar Mania. Body System/Postenia, Akathisia, Disziness, Parkinsonism, Hypoaesthesia Psychiatric: Somnolence, Agliation, Manic reaction, Anxiety, Concentration impaired Gastrointestinal system: Sinusitis, Rhinitis, Coughing Skin and appendages: Acne, Puritus Musculo-Skeletal: Myalja, Skeletal pain Metabolic and nutritional: Weight increase Vision disorders: Vision abnormal Cardiovascular, quental: Hypertension, Hypotension Heart rate and rhythm: Tachycardia. Incidence of Treatment-Emergent Adverse Events in a 3-Week, Placebo-Controlled Trial – Adjunctive Therapy in Bipolar Mania. Body System/Preferred Term: Gastrointestinal system: Saliva incr with risperidone as monotherapy, the most commonly observed adverse events associated with the use of RISPERDAL increase Skin and appendages: Rash. Dose Dependency of Adverse Events: Data from two fixed-lose trials provided evidence of dose-relatedness for extrapyramidal symptoms associated with risperidone treatment. These symptoms include: sleepiness, increased duration of sleep, accommodation disturbances, orthostatic dizziness, palpitasymptoms include: sleepiness, increased duration of sleep, accommodation disturbances, orthostatic dizziness, palpitations, weight gain, erectile dysfunction, ejaculatory dysfunction, orgastic dysfunction, asthenialassifude/increased
fatigability, and increased pignentation. Vital Sign Changes: RISPERDAL® is associated with orthostatic hypotension
and tachycardia (see PRECAUTIONS). Weight Changes: A statistically significantly greater incidence of weight gain for
RISPERDAL® (18%) compared to placebo (9%). Laboratory Changes: A between-group comparison for 6- to 8-week
placebo-controlled trials revealed no statistically significant RISPERDAL®/lacebo differences in the proportions of
patients experiencing potentially important changes in routine serum chemistry, hematology, or urinalysis parameters.
Similarly, there were no RISPERDAL®/lacebo differences in the incidence of discontinuations for changes in serum
prolactin (see PRECAUTIONS). ECG Changes: Between-group comparisons for pooled placebo-controlled trials
revealed no statistically significant differences between risperione and placebo in mean changes from baseline in ECG
parameters, including OT, OTc, and PR intervals, and heart rate. When all RISPERDAL® doses were pooled from
randomized controlled trials in several indications, there was a mean increase in heart rate of 1 beat per minute
compared to no change for placebo patients. In short-term schizophrenia trials, higher doses of risperidone (8-16 mg/day)
were associated with a higher mean increase in heart rate compared to placebo (4-5 beats per minute). Adverse Events
and Other Safety Measures in Pediatric Patients With Autistic Disorder: In the two 8-week, placebo-controlled trials
in pediatric patients treated for irritability associated with autistic disorder (n=156), two patients (one treated with
RISPERDAL® and one treated with placebo Controlled Trials in Pediatric Patients with Autistic Disorder: The two 8-week, placebo-controlled trials in Pediatric Patients with Autistic Disorder: The two HISPERIJAL and one treated with pieceso) discontinued treatment due to an adverse event. Incoence of Treatment Emergent Adverse Events in Two 8-Week, Placebo-Controlled Trais in Pediatric Patients with Audistic Disorder. Body System Preferred Term: Psychiatric: Somnolence, Appetite increased, Confusion Gastrointestinal: Saliva increased, Constipation, Dny mouth Body as a whole - general: Faligue Central & peripheral nervous system: Tremor, Dystonia, Dizziness, Automatism, Dyskinesia, Parkinsonism Respiratory: Upper respiratory tract infection Metabolic and nutritional: Weight increase Heart rate and rhythm: Tachycardia Other Events Observed During the Premarketing Evaluation of RISPERDALE.\* Unring its premarketing assessment, multiple dossey of RISPERDAL® were administered to 2607 adult patients with schizophrenia and 1923 pediatric patients in Phase 2 and 3 studies and the following reactions were aconder: (Mote: Evenuer Auverse wents are these occurrion in at least 1100 neations: inference wents.) 2007 adult patients with schizophrenia and 1923 pediatric patients in Praise 2 and 3 studies and the tolowing reactions were reported: (Note: frequent adverse events are those occurring in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients. It is important to emphasize that, although the events reported occurred during treatment with RISPERDAL®, they were not necessarily caused by it). Serious adverse reactions experienced by the pediatric population were similar to those seen in the adult population (see WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS). Psychiatric Disorders: Frequent: increased dream activity, diminished sexual desire\*, nervousness. Infrequent: impaired concentration, depression, apathy, catalonic reaction, euphoria, increased libido, exercise (ascendical leviths adversed and exercise (ascendical leviths adversed ascendical leviths and ascendical leviths adversed ascendical leviths as as expensed ascendical leviths as expensed leviths as expensed ascendical leviths ascendical leviths as expensed as expensed leviths namesia. Rare: emotional lability, nightmares, delirium, withdrawal syndrome, yawning. Central and Peripheral Nervous System Disorders: Frequent: increased sleep duration. Infrequent: dysarthria, vertigo, stupor, paraesthesia, confusion. Rare: aphasia, cholinergic syndrome, hypoesthesia, tongue paralysis, leg cramps, torticollis, hypotonia, coma, migraine, hyperrellexia, choreoathetosis. Gastrointestinal Disorders: Frequent: anorexia, reduced salivation. Infrequent: hyperrellexia, choreoathetosis. Gastrointestinal Disorders: Frequent: anorexia, reduced salivation\*. Infrequent: fatulence, diarrhea, increased appetite, stomatitis, melena, dysphagia, hemorrhoids, gastritis. Rare: fecal incontinence, eructation, gastroesophageal reflux, gastroenteritis, esophagitis, longue discoloration, cholelithiasis, tongue edema, diverticultis, gingivitis, discolored feces, Gl hemorrhage, hematemesis. Body as a Whole/General Disorders: Frequent: fatigue. Infrequent: edema, rigors, malaise, influenza-like symptoms. Rare: pallor, enlarged abdomen, allergic reaction, ascites, sarcoidosis, flushing. Respiratory System Disorders: Infrequent hyperventilation, bronchospasm, pneumonia, stridor. Rare: asthma, increased sybutum, aspiration. Skin and Appendage Disorders: Frequent: increased gigmentation\*, photosensitivity. Infrequent: increased sweating, acne, decreased sweating, alopecia, hyperkeratosis, pruritus, skin exfoliation. Rare: bullous eruption, skin ulceration, aggravated psoriasis, furniculosis, verruca, dermatitis lichenoid, hypertrichosis, genital pruritus, urticaria. Cardiovascular Disorders: Infrequent: palpitation, hypertension, hypertension, descriptions and processis and processis premature attrial contractions. prüritus, skin exfolation. Rare's bullous eruption, skin ubcration, aggravated psoriasis, fururiculosis, verruica, dermatitis ichenoid, hypertrichosis, genital pruritus, urticaris. Cardiovascular Disorders: Infrequent: palpitation, hypertension, hypotension, AV block, myocardial infarction. Rare: ventricular lachycardia, angina pectoris, premature atrial contractions, T wave inversions, ventricular extrasystoles, ST depression, myocarditis. Vision Disorders: Infrequent: abnormal accommodation, xerophthalmai. Rare: diploja, eye pain, blephantis, photopisa, photophobia, abnormal lacirmation. Metabolic and Nutritional Disorders: Infrequent: hyponatremia, weight increase, creatine phosphokinase increase, hirst, weight decrease, diabetes mellitus. Rare: decreased serum iron, cachexia, dehydration, hypokalemia, hypoproteinemia, hypoproteinia, hy antipsychotic drugs.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class: RISPERDAL® (risperidone) is not a controlled substance

For more information on symptoms and treatment of overdosage, see full Prescribing Information.

7503233SB Revised December 2006 Sanssen 2003



01RS1950SB



# PSYCHIATRY BOARD REVIEW SERIES

THE KAUFMAN COURSES

#### SPONSORED BY MONTEFIORE MEDICAL CENTER CREDIT DESIGNATED BY ALBERT EINSTEIN COLLEGE OF MEDICINE

Accreditation Statement: Albert Einstein College of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

#### **CLINICAL NEUROLOGY FOR PSYCHIATRISTS** David Myland Kaufman, MD

This intensive three-day weekend course, offered for the 35th year, is designed for psychiatrists in practice and in residency as an update or board preparation. Focusing on essential topics, the course will use lectures, extensive syllabus, and the new edition of Clinical Neurology for Psychiatrists, David M. Kaufman (6th edition, Elsevier).

AMA Statement: Albert Einstein College of Medicine designates this educational activity for a maximum of 25 AMA PRA Category 1 Credit(s).™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **LOS ANGELES**

The Westin Hotel at the Los Angeles Airport 5400 West Century Boulevard, Los Angeles, CA 90045 Friday, September 7 to Sunday, September 9, 2007 7:45 AM - 5:00 PM

#### **NEW YORK**

The Graduate Center, Concourse Level City University of New York (CUNY) Friday, October 5 to Sunday, October 7, 2007 8:15 AM - 5:15 PM

#### **PSYCHIATRY FOR PSYCHIATRISTS** Andrea J. Weiss, MD and David Myland Kaufman, MD

This two-day course will be a pre-test that will complement standard psychiatry review courses and complete the review in Clinical Neurology for Psychiatrists. In this course, an expert group of faculty who are experienced and well-informed about modern psychiatry and testtaking strategies will present essential information through a series of test-type questions utilizing audience response system keypads and using answers for discussions and explanations.

AMA Statement: Albert Einstein College of Medicine designates this educational activity for a maximum of 14 AMA PRA Category 1 Credit(s).™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### LOS ANGELES

The Westin Hotel at the Los Angeles Airport 5400 West Century Boulevard, Los Angeles, CA 90045 Monday, September 10 to Tuesday, September 11, 2007 7:45 AM - 5:00 PM

The Graduate Center, Concourse Level City University of New York (CUNY) Monday, October 8 to Tuesday, October 9, 2007 8:15 AM - 5:15 PM

#### **MAINTENANCE OF CERTIFICATION (THE RECERT COURSE)** Dan Smuckler, MD, Andrea J. Weiss, MD and David Myland Kaufman, MD

This intensive two-day course designed for psychiatrists will review the psychiatric information likely to appear on the recertification examination. It will cover current evidence-based treatments for psychiatric disorders, emphasizing clinical matters and advances in diagnosis and treatment. Presentation of the material will be in a mixed format, with both lecture and question and answer utilizing audience response system keypads.

AMA Statement: Albert Einstein College of Medicine designates this educational activity for a maximum of 14.5 AMA PRA Category 1 Credit(s). TM Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **NEW YORK**

The Graduate Center, Main Level City University of New York (CUNY) 365 Fifth Avenue (Between 34th and 35th Streets), New York, NY 10016 Friday, February 1 to Saturday, February 2, 2008 8:15 AM - 5:15 PM

- FOR MORE INFORMATION Web site Course Information or To Register: www.cnfp.org
  - Write: CCME, 3301 Bainbridge Avenue, Bronx, NY 10467
- E-mail: cme@montefiore.org
- Call: 718-920-6674 Fax: 718-798-2336

#### FAST TRACK REGISTRATION FORM... OR YOU CAN REGISTER ON-LINE AT www.cnfp.org

l Will Attend/Check One:			Make checks payable to <u>Montefiore Medical Center</u> or charge my
Clinical Neurology Psychiatrists Psychiatry: Pre-Test Maintenance of Certification	Los Angeles  Sept. 7-9 (Fri-Sun)  Sept. 10-11 (Mon-Tues)  Not Available	New York City  Oct. 5-7 for (Fri-Sun) Oct. 8-9 (Mon-Tues) Feb. 1-2	Visa
- Certification	Check One:	(Fri-Sat)	Signature Degree
The state of the s	Practicing Physicians	Residents & Fellows	Address
Clinical Neurology (Course)	\$975.00	\$850.00	Twe cannot mail the textbook to P.O. Boxes  City State Zip
Psychiatry: Pre-Test (Course)	\$600.00	\$500.00	Office Phone ( )
Both courses	\$1,300.00	\$1,100.00	
Text book only	\$110.00	\$110.00	Affiliation
Maintenance of Certification	\$495.00		e mail

Cancellation Policy: On written request, the registration fee is refundable, less \$95 administration fee, until three weeks prior to each course. No refunds will be made thereafter.



PRESCRIBE FIRST-LINE FOR A FULL 7 to 8 hours of sleep

LUNESTA has been studied in large, well-controlled clinical trials in all of the following patient types:

- Patients With Insomnia Comorbid With Major Depressive Disorder
- Patients With Insomnia Comorbid With Generalized Anxiety Disorder
- Patients With Insomnia Comorbid With Rheumatoid Arthritis
- Patients With Insomnia Comorbid With Menopause

The failure of insomnia to remit after 7 to 10 days of treatment should be medically evaluated.

LUNESTA is indicated for the treatment of insomnia. In controlled outpatient and sleep laboratory studies, LUNESTA administered at bedtime decreased sleep latency and improved sleep maintenance. LUNESTA is not indicated for the treatment of depression, generalized anxiety disorder, rheumatoid arthritis, or menopause

#### Important Safety Information

LUNESTA, like other hypnotics, has CNS-depressant effects. Because of the rapid onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty falling asleep. Patients should not take LUNESTA unless they are prepared to get a full night's sleep. As with other hypnotics, patients receiving LUNESTA should be cautioned against engaging in hazardous occupations requiring complete mental alertness or motor coordination (eg. operating machinery or driving a motor vehicle) after ingesting the drug, including potential impairment of the performance of such activities that may occur the day following ingestion of LUNESTA. In clinical trials, the most common adverse events associated with LUNESTA were unpleasant taste, headache, somnolence, dizziness, dry mouth, infection, and pain.

Any night or every night

Leave the rest to...



LUNESTA has been classified as a Schedule IV controlled substance. Sedative hypnotics have produced withdrawal signs and symptoms following abrupt discontinuation. The risk of abuse and dependence increases with the dose and duration of treatment and concomitant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveillance when receiving LUNESTA or any other hypnotic. Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal tendencies may be present in such patients, and protective measures may be required. Intentional overdose is more common in this group of patients; therefore, the least amount of drug that is feasible should be prescribed for the patient at any one time.

LUNESTA, like other hypnotics, may produce additive CNS-depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistamines, ethanol, and other drugs that themselves produce CNS depression. LUNESTA should not be taken with alcohol. Dosage adjustment may be necessary when LUNESTA is administered with other CNS-depressant agents because of the potentially additive effects.

Impaired motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or debilitated patients. See dosage and administration in complete prescribing information.

Please see brief summary of complete prescribing information.



SEPRACOR ©2006 SEPRACOR INC., MARLBOROUGH, MA 01752 LUNESTA is a registered trademark of Sepracor Inc. All rights reserved. 11/06 LUN384-06



#### BRIFF SUMMARY

#### INDICATIONS AND USAGE

LUNESTA is indicated for the treatment of insomnia. In controlled outpatient and sleep laboratory studies, LUNESTA administered at bedfirme decreased sleep latency and improved sleep maintenance.

#### CONTRAINDICATIONS None known.

#### WARNINGS

Because sleep disturbances may be the presenting manifestation of a physical and/or Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insominal should be initiated noy after a careful evaluation of the patient. The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical lithess that should be evaluated. Worsening of insomnia or the emergence of new thinking or behavior abnormalities may be the consequence of an unrecognized psychiatric or physical disorder. Such findings have emerged during the course of treatment with sedative/hypnotic drugs, including LUNESTA. Because some of the important observation of the important outpers effects of LUNESTA appear to be dose-related, it is important to use the lowest possible effective dose, especially in the elderly (see DOSAGE AND ADMINISTRATION it; the Full Presertible inflormation).

TRATION is the Full Prescribing Information). A variety of abnormal thinking and behavior changes have been reported to occur in association with the use of sedative/hypnotics. Some of these changes may be characterized by decreased inhibition (e.g., aggressiveness and extroversion that seem out of character), similar to effects produced by alcohol and other CNS depressants. Other reported behavioral changes have included bizarre behavior, agitation, hallucinations, and depersonalization. Amnesia and other neuropsychiatric symptoms may occur unprecitably. In primarily depressal patients, worsening of depression, including suicidal thinking, has been reported in association with the use of sedativerhomotics. tive/hypnotics.

It can rarely be determined with certainty whether a particular instance of the abnormal behaviors listed above are drug-induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and immediate evaluation.

behavioral sign or symptom of concern requires careful and immediate evaluation. Following rapid dose decrease or abrupt discontinuation of the use of sedative/hypotiotis, there have been reports of signs and symptoms similar to those associated with withdrawal from other CNS-depressant drugs (see BRUG ABUSE AND DEPENDENCE). LUNESTA, like other hypoticis, pas CNS-depressant effects. Because of the applications of a cation, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty falling asleep. Patients receiving LUNESTA should be cautioned against regarding in hazardous occupations requiring complete mental alertness or motor coordination (e.g., operating machinery or driving a motor vehicle) after ingesting the drug, and be cautioned about potential impairment of the performance of such activities on the day following ingestion of LUNESTA. LUNESTA, like other hypnotics, may produce additive CNS-depressant effects when coadministered with other psychotropic medications, anticinamises, ethanol, and other drugs that themselves produce CNS depression. LUNESTA should not be taken with alcohol. Dose adjustment may be necessary when LUNESTA is administered with other CNS-depressant agents, because of the potentially additive effects. CNS depression. LONGSTA is administ be necessary when LUNESTA is administ because of the potentially additive effects.

#### **PRECAUTIONS**

Timing Of Drug Administration: LUNESTA should be taken immediately before bedfime. Taking a sedative/hypnotic while still up and about may result in short-term memory impairment, hallucinations, impaired coordination, dizziness, and lightheadedness.

Use In The Elderly And/Or Debifitated Patients: Impaired motor and/or cognitive use in the cutarly analysis exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or debilitated patients. The recom-mended starting dose of LUNESTA for these patients is 1 mg (see DOSAGE AND ADMINISTRATION in the Full Prescribing Information).

Administration in the Full Prescripting Information).

Use In Patients With Concomitant Illness: Clinical experience with eszopicione in patients with concomitant Illness is limited. Eszopicione should be used with caution in patients with diseases or conditions that could affect metabolism or hemodynamic

A study in healthy volunteers did not reveal respiratory-depressant effects at doses 2.5-fold higher (7 mg) than the recommended dose of eszopiclone. Caution is advised, however, if LUNESTA is prescribed to patients with compromised respiratory function.

however, if LUNESTA is prescribed to patients with compromised respiratory function. The dose of LUNESTA should be reduced to 1 mg in patients with severe hepatic impairment, because systemic exposure is doubted in such subjects. No dose adjustment appears necessary for subjects with mild or moderate hepatic impairment, because discontinuous processors of the subjects of the subjects of the subjects. No dose adjustment appears necessary in subjects with any degree of renal impairment, since less than 10% of escopicione is excreted unchanged in the urine. The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CYP3A4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents having known CNS-depressant effects.

ing known CNS-depressant effects.

Use In Patients With Depression: Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal tendencies may be present in such patients, and protective measures may be required. Intentional overdose is more common in this group of patients, therefore, the test amount of drug that is feasible should be prescribed for the patient at any one time. Information For Patients: Patient information is printed in the complete prescribing

Laboratory Tests: There are no specific laboratory tests recommended

#### Drug Interactions

CNS-Active Drugs

Ethanof. An additive effect on psychomotor performance was seen with coadministra-tion of eszopicione and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. Paroxetine: Coadministration of single doses of eszopicione 3 mg and paroxetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction. Lorazepam: Coadministration of single doses of eszopicione 3 mg and lorazepam 2 mg did not have clinically relevant effects on the pharmacodynamics or pharmacokinetics of either drug.

Alleaces of eather including Olanzapine: Coadministration of eszopicione 3 mg and olanzapine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no alter-ation in the pharmacokinetics of either drug.

ation in the pharmacokinetics of either drug. DPSA4 is a major metabolic pathway for Drugs That Inhibit CPSA44 (Reconazule): CYPSA4 is a major metabolic pathway for elimination of escopicione. The AUC of escopicione was increased 2.2-fold by coad-ministration of ketoconazole, a potent inhibitor of CYPSA4, 400 mg daily for 5 days. C<sub>ma</sub> and t<sub>ox</sub> were increased 1.4-fold and 1.3-fold, respectively. Other strong inhibitors of CYPSA4 (e.g., irreconazole, clarithromycin, nelazodone, troleandomycin, ritonavir, nellimavir) would be expected to behave similarly.

Drugs That Induce CYP3A4 (Rifampicin): Racemic zopicione exposure was decreased 80% by concomitant use of rifampicin, a potent inducer of CYP3A4. A similar effect would be expected with eszopicione.

Drugs Highly Bound To Plasma Protein: Eszopicione is not highly bound to plasma profeins (52-59% bound); therefore, the disposition of eszopicione is not expected to be sensitive to alterations in protein binding. Administration of eszopicione 3 mg to a palient taking another drug that is highly profein-bound would not be expected to cause an alteration in the free concentration of either drug.

#### Drugs With A Narrow Therapeutic Index

Digoxin: A single dose of escopicione 3 mg did not affect the pharmacokinetics of digoxin measured at steady state following dosing of 0.5 mg twice daily for one day and 0.25 mg daily for the next 6 days.

Warfarin: Escopicione 3 mg administered daily for 5 days did not affect the pharma-

cokinetics of (R)- or (S)-warfarin, nor were there any changes in the pharmacody-namic profile (prothrombin time) following a single 25-mg oral dose of warfarin.

Training prome (pittoninum miler) university as represents a serving and uses or warrant. Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis: In a carcinogenicity study in Sprague-Dawley rats in which escopi-cione was given by oral gavage, no increases in turnors were seen, plasma levels (AUC) of escopicione at the highest dose used in this study (16 mg/kg/day) are esti-mated to be 80 (females) and 20 (males) times those in humans receiving the max-imum recommended human dose (MRHD). However, in a carcinogenicity study in

Sprague-Dawley rats in which racemic zopiclone was given in the diet, and in which sprague-Loawey rates in which racemic opplication was given in the use, and in which plasma levels of escopicione was were reached that were greater than those reached in the above study of escopicione, an increase in mammary gland adenocarcinomas in temales and an increase in thyroid gland follicular cell adenomas and carcinomas in males were seen at the highest dose of 100 mg/kg/day. Plasma levels of escopicione at this dose are estimated to be 150 (females) and 70 (males) times those in humans receiving the MRHU. The mechanism for the increase in mammary adenocarcinomas is unknown. The increase in thyroid tumors is thought to be due to increased levels of TGBI secondario to increased expenditum of the contraction of the increase in the production of the p of TSH secondary to increased metabolism of circulating thyroid hormones, a mechanism that is not considered to be relevant to humans.

In a carcinogenicity study in B6C3F1 mice in which racemic zopiclone was given in in a carcinogenicity study in BoCs-1 miles in which readenit zopicione was givent in the diet, an increase in pulmonary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sarcomas in males were seen at the highest dose of 100 mp/kg/day P.Berna levels of escopiolione at this dose are estimated to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The skin tumors were due to skin lesions induced by aggressive behavior, a mechanism that is not relevant to humans. A carcinogenicity study was also performed in which CD-1 mice were given escopiolone at doses up to 100 mg/kg/day by oral gavage; atthough this study clid pot reach a maximum bleated flose and was this. although this study did not reach a maximum tolerated dose, and was thus inadequate for overall assessment of carcinogenic potential, no increases in either pulmonary or skin tumors were seen at doses producing plasma levels of eszopicione estimated to be 90 times those in humans receiving the MRHD—i.e., 12 times the exposure in the racemate study.

Eszopiclone did not increase tumors in a p53 transgenic mouse bioassay at oral doses up to 300 mg/kg/day.

Mutagenesis: Eszopicione was positive in the mouse lymphoma chromosomal intraginesis. Esciptione was positive in the through experiments of an introduction aberration assay and produced an equivocal response in the Chinese hamster ovary cell chromosomal aberration assay, it was not mutagenic or clastogenic in the bacterial Ames gene mutation assay, in an unscheduled DNA synthesis assay, or in an in vivo mouse bone marrow micronucleus assay.

(S)-N-desmethyl zopiclone, a metabolite of eszopiclone, was positive in the Chinese hamster ovary cell and human lymphocyte chromosomal aberration assays. It was negative in the bacterial Ames mutation assay, in an *in vitro* <sup>xp</sup>-postlabeling DNA adduct assay, and in an *in vitro* mosomal aberration and micronucleus assay.

Impairment Of Fertility: Eszopiclone was given by oral gavage to male rats at doses Impairment Of Fertility: Escopicione was given by oral gavage to male rats at doses up to 45 mg/kg/day from 4 weeks premating through mating and to female rats at doses up to 180 mg/kg/day from 2 weeks premating through day 7 of pregnancy. An additional study was performed in which only females were freated, up to 180 mg/kg/day. Eszopicione decreased fertility, probably because of effects in both males and females, with no females becoming pregnant when both males and temales were treated with the highest dose; the no-effect dose in both sexes was 5 mg/kg (16 times the MRHD on a mg/m² basis). Other effects included increased preimplantation loss (no-effect dose 25 mg/kg), abnormal estrus cycles (no-effect dose 25 mg/kg), and decreases in sperm number and motifity and increases in morthodorically abnormal search increafter (tose 5 mg/kg). phologically abnormal sperm (no-effect dose 5 mg/kg).

#### Pregnancy

Pregnancy Category C: Eszopiclone administered by oral gavage to pregnant rats and Preplandy Category C. Exceptionine are ministered by polar gadage to preplant has and rabbits during the period of organogenesis showed no evidence of teratogenicity up to the highest doses tested (250 and 15 mg/kg/day in rats and rabbits, respectively, the experiment once (MRHD) on a mg/m² basis). In the rat, slight reductions in fetal weight and evidence of developmental delay were seen at maternally toxic doses of 125 and 150 mg/kg/day, but not at 62,5 mg/kg/day (200 times the MRHD on a mg/m² basis). Too Impkingary, but not a 62.5 mpkingary (200 times use winth of a imprire basis). Escopicione was also administered by oral gavage to pregnant rats throughout the pregnancy and lactation periods at doses of up to 180 mg/kg/day. Increased post-implantation loss, decreased postnatal pup weights and survival, and increased pup startle response were seen at all doses; the lowest dose tested, 60 mg/kg/day, is 200 mg/kg/day is 200 mg/kg/day. Increased pup times the MRHID on a mg/m² basis. These doses did not produce significant rater-nal toxicity. Escopicione had no effects on other behavioral measures or reproductive function in the offscrien. function in the offspring.

There are no adequate and well-controlled studies of eszopicione in pregnant women. Eszopicione should be used during pregnancy only if the potential benefit justifies the notential risk to the fetus.

. Labor And Delivery: LUNESTA has no established use in labor and delivery.

Nursing Mothers: It is not known whether LUNESTA is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when LUNESTA is administered to a nursing woman.

Pediatric Use: Safety and effectiveness of eszopicione in children below the age of 18

Geriatric Use: A total of 287 subjects in double-blind, parallel-group, placeho-con-Genative Use: A total of 287 subjects in double-billing, parallel-group, placebe-com-trolled clinical trials who received eszopicione were 55 to 86 years of age. The over-all pattern of adverse events for elderly subjects (median age = 71 years) in 2-week studies with nighttime dosing of 2 mg eszopicione was not different from that seen in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population.

#### ADVERSE REACTIONS

ADVERSE REACTIONS
The permarketing development program for LUNESTA included eszopictone exposures in patients and/or normal subjects from two different groups of studies: approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately 1550 patients in placebo-controlled clinical effectiveness studies, corresponding to approximately 263 patient-exposure years. The conditions and duration of treatment with LUNESTA varied greatly and included (in overlapping categories) open-label and double-blind phases of studies, inpatients and outpatients, and short-term and longer-term exposure. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights laboration unabless and ECGs. weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tabulations that follow, COSTART terminology has been used to classify reported adverse events.

The stated frequencies of adverse events represent the proportion of individuals who he stated inequentions of adverse events represent the proportion of influentiates. As yet preferenced, at least once, a treatment-emergent adverse event of the type listed. An vent was considered treatment-emergent if it occurred for the first time or worsened thile the patient was receiving therapy following baseline evaluation.

#### Adverse Findings Observed in Placebo-Controlled Trials

Adverse Franting Surveyed in Practice United trials Adverse Frants Resulting in Discontinuation of Treatment: In placebo-controlled, parallel-group clinical trials in the elderly, 3.8% of 208 patients who received placebo, 2.3% of 215 patients who received 2 mg LUNESTA, and 1.4% of 72 patients who received 1 mg LUNESTA discontinued treatment due to an adverse event. In the with received 1 mg (unex 14 discontinued teatment use to all adverse event, mile fe-week parallel-group study in adults, no patients in the 3 mg arm discontinued because of an adverse event. In the long-term 6-month study in adult insomnia patients, 7.2% of 195 patients who received placebo and 12.8% of 593 patients who received 3 mg LUNESTA discontinued due to an adverse event. No event that resulted in discontinuation occurred at a rate of greater than 2%.

Adverse Events Observed at an Incidence of ≥2% in Controlled Trials. The follow-ing lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from a Phase 3 placebo-controlled study of LUNESTA at doses of 3 mg in non-elderly adults. Treatment duration in this trial was 44 days. Data are

or 3 mg in non-elderly adults. Treatment duration in this trial was 44 days. Data are limited to adverse events that occurred in 2% or more of patients treated with LUNESTA 2 mg (n=104) or 3 mg (n=105) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated patients (n=9). Body as a whole; headache (13%, 21%, 17%), viral infection (11%, 3%, 3%), 3%, 3%, 000 (13%, 15%, 16%), vomiting (1%, 3%, 6%, 7%), durpless (14%, 4%, 5%), vanishing (1%, 3%, 6%), segment (10%, 3%, 10%, 8%), depression (0%, 4%, 1%, 3%), libito decreased (0%, 0%, 3%), nervousness (3%, 5%, 0%), somnolence (3%, 10%, 8%). Bespiratory system; infection (3%, 5%, 10%), \$kin and appendages; rash (1%, 3%, 4%), 5pecial senses; unpleasant taste (3%, 17%, 34%). Urogenital system; dysmenorrhea\* (0%, 3%, 0%), gynecomastia\*\* (0%, 3%, 0%). Gender-specific adverse event in females

\*\*Gender-specific adverse event in males

Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abnormal dreams, accidental injury, back pain, diarrhea, flu syndrome, myalgia, pain, pharyngitis, and rhinitis.

Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dzziness, hallucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste.

The following lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from combined Phase 3 placebo-controlled studies of LUNESTA at doses of 1 or 2 mg in elderly adults (ages 65-86). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA 1 mg (n=72) or 2 mg (n=215) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated

Body as a whole: accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%). Digestive system: diarrhea (2%, 4%, 2%), dry mouth (2%, 3%, 7%), dyspepsia (2%, 6%, 2%). Bervous system: abnormal dreams (0%, 3%, 1%), dyspepsia (2%, 6%, 2%). Bervous system: abnormal dreams (0%, 3%, 1%), diarrhease (2%, 1%, 6%), nervousness (1%, 0%, 2%), heuralgia (0%, 3%, 0%). Skin and appendances; purturuts: (1%, 4%, 1%). Special senses: unpleasant taste (0%, 8%, 12%). Urogenital system: urinary tract infection (0%, 3%, 0%).

'Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abdominal pain, asthenia, nausea, rash, and

Adverse events that suggest a dose-response relationship in elderly adults include pain, dry mouth, and unpleasant taste, with this relationship again clearest for unpleasant taste. These figures cannot be used to predict the incidence of adverse events in the course of usual medical practice because patient characteristics and other factors may differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators.

Ingalous involving interest teamines, tasks, and investigators, the cited figures, however, do provide the prescribing physician with some basis for estimating the relative contributions of drug and non-drug factors to the adverse event incidence rate in the population studied.

event micidence rate in the population studied.

Other Events Observed During The Premarketing Evaluation Of LUNESTA. Following is a list of modified COSTART terms that reflect treatment-emergent adverse events as defined in the introduction to the ADVERSE REACTIONS section and reported by approximately 1550 subjects treated with LUNESTA at doses in the range of 1 to 3.5 mg/day during Phese 2 and 3 clinical trials throughout the United States and Canada. All reported events are included except those already listed here or listed elsewhere in labelling, minor events common in the general population, and events unifically to be drug-related. Although the events reported occurred during treatment with LUNESTA, they were not necessarily caused by it.

Events are listed in porter of decreasion frequency according to the following defini-

Events are listed in order of decreasing frequency according to the following defini-Levens are never of the service events are those that occurred on one or more occasions in at least 1700 patients, infrequent adverse events are those that occurred in fewer han 7100 patients, infrequent adverse events are those that occurred in fewer han 7100 patients but in at least 171,000 patients, are adverse events are those that occurred in fewer than 171,000 patients. Gender-specific events are categorized based on their incidence for the appropriate gender.

Frequent: chest pain, migraine, peripheral edema.

Frequent: chest pain, migraine, peripheral edema. Infrequent scane, agitation, allergir reaction, alopecia, amenorhea, anemia, anoexia, agathy, arthritis, asthma, ataxia, breast engorgement, breast enlargement, breast neoplasm, breast pain, bronchitis, burstis, cellulitis, cholelithiasis, contact dermatics, cystilis, qiv yees, dry skin, dysprea, dysuria, ezcenina, ear pain, emotional lability, petsaxis, face edema, lemale lectation, fever, halitosis, heat stroke, hematuria, hernia, hicusp, hostilis, hyperchlessterenia, hypertension, hypertonia, hypertensia, incourdiation, increased appetite, inscomnia, joint disorder (mainly swelling), stiffness, and pain), kidney calculus, kidney pain, tarryngils, leg cramps, lymphadenopathy, malaise, mastitis, melena, memory impairment, memorrhagia, metrorrhagia, mouth sideration, myesthenia, neck ngidity, neurosis, nystagrnus, ottis externa, ottilis media, paresthesia, photosensitivity, reflexes decreased, skin discoloration, sweating, thinking abnormed (mainly difficulty concernation), thirst, timitus, twitching, ulcerative stomatitis, uniary requency, uniary incomtinence, uriticaria, uterrine hemorrhage, vaginal hemorrhage, vaginitis, verligo, vestibular disorder, weight glan, weight loss.

Rare: abnormal gait, arthrosis, colitis, dehydration, dysphagia, erythema multiforme, Hare: abnorma gala, anirosis, couls, penyauoni, opsyangia, injunian anuonome, euphoria, furunculosis, gastriis, gout, hepatitis, hepatomegaly, herpes zoster, hirsutism, hyperacusis, hyperesthesia, hyperlipemia, hypokalemia, hy

Vestocuboullous rash.

DRIG ABUSE AND DEPENDENCE

Controlled Substance Class: LUNESTA is a Schedule IV controlled substance under
the Controlled Substances Act. Other substances under the same classification are
benzodiazepines and the nonbenzodiazepine hyponotics zaleplon and zolpidem. While
escopicione is a hyponotic agent with a chemical structure unrelated to benzodiazepines, it stares some of the pharmacologic properties of the benzodiazepines.

adepuires, it states some or the pirantianoungic properties or the operational and abuse. Dependence, and Tolerance Abuse, and Dependence: In a study of abuse liability conducted in Individuals with known histories of benzodiazepine abuse, escopicione at doses of 6 and 12 mg produced euphoric effects similar to those of diazepam 20 mg. In this study, at doses 2-fold or greater than the maximum recommended doses, a dose-related increase in reports of annesia and hallucinations was observed for both LUNESTA and diazepam.

The clinical trial experience with LUNESTA revealed no evidence of a serious withdrawai syndrome. Nevertheless, the following adverse events included in DSM-IV withdrawal syndrome. Nevertheless, the following adverse events included in DSM-VI criteria for uncomplicated sedative/hypotic withdrawal were reported during clinical trials following placebs substitution occurring within 48 hours following the last LMESTA treatment anxiety, abnormal dreams, nausea, and uspet stomach. These reported adverse events occurred at an incidence of 2% or less. Use of benzodiazepines and similar agents may lead to physical and psychological dependence. The risk of abuse and dependence increases with the dose and duration of treatment and concomitant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveillance when receiving LINESTA or any other thynorics. LUNESTA or any other hypnotic.

Tolerance: Some loss of efficacy to the hypnotic effect of benzodiazepines and benzodiazepine-like agents may develop after repeated use of these drugs for a few weeks

No development of foliarance to any parameter of sleep measurement was observed over six months. Tolerance to the efficacy of LUNESTA 3 mg was assessed by 4-week objective and 6-week subjective measurements of time to sleep onset and sleep main-tenance for LUNESTA in a placebo-controlled 44-day study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled study for 6 months.

#### OVERDOSAGE

here is limited premarketing clinical experience with the effects of an overdosage of LUNESTA. In clinical trials with eszopicione, one case of overdose with up to 36 mg of eszopicione was reported in which the subject fully recovered. Individuals have fully recovered from racemic zopicione overdoses up to 340 mg (56 times the maximum recommended dose of eszopicione).

maximum recommended dose of escopicione). Signs And Symptoms: Signs and symptoms of overdose effects of CNS depressants can be expected to present as exaggerations of the pharmacological effects noted in preclinical testing. Impairment of consciousness ranging from somnolence to coma has been described. Rare individual instances of fatal outcomes following overdose with racernic opplicione have been reported in European postmarketing reports, most often associated with overdose with other CNS-depressant agents.

onen associated wind overdoos with order okis-depressant agents.

Recommended Treatment General symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate. Intravenous fluids should be administered as needed. Flumazenil may be useful. As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and general supportive measures employed. Hypotension and CNS depression should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage has not been determined.

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 control center for up-to-date information on the management of breactle drug predict council. hypnotic drug product overdosage.



12/06



Because she does not like to compromise...





IN SCHIZOPHRENIA

# Treat With the Body in Mind

#### CHOOSE COMPARABLE POWER...

Consistent results in acute head-to-head studies1-3

#### **BPRS Core Items**



Mean % improvement from baseline at end point

A 6-week, double-blind, randomized study of GEDDON vs. plantapine and an 8-week, double-blind, randomized study of GEDDON vs. risperidone.

- BPRS core items include hallucinatory behavior, unusual thought content, conceptual disorganization, and suspiciousness
- Comparable efficacy was maintained in double-blind extension studies
  - -up to 1 year vs risperidone
  - -up to 6 months vs olanzapines

#### ....WITHOUT COMPROMISING METABOLIC PARAMETERS

Significant results in switch studies after 1 year 15



Two 1-year open-tabel extensions of 6-week, open-tabel switch studies in patients suboptimally controlled due to partial response or poor tolerability.

 Patients switching to GEODON from olanzapine and risperidone also experienced reductions in triglycerides<sup>o</sup>

In the acute head-to-head studies...

- In the GEODON vs olanzapine study, olanzapine significantly increased body weight (8 lb vs 2 lb for GEODON, №0.0001)<sup>12</sup>
- In the GEODON vs risperidone study, risperidone increased body weight (2 lb vs 0 lb for GEODON, P<0.01)<sup>13</sup>

GEODON is indicated for the treatment of schizophrenia.

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. GEODON is not approved for the treatment of patients with dementia-related psychosis.

GEODON is contraindicated in patients with a known history of QT prolongation, recent acute myocardial infarction, or uncompensated heart failure, and should not be used with other QT-prolonging drugs. GEODON has a greater capacity to prolong the QT<sub>c</sub> interval than several antipsychotics. In some drugs, QT prolongation has been associated with torsade de pointes, a potentially fatal arrhythmia. In many cases this would lead to the conclusion that other drugs should be tried first.

Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia.

In short-term schizophrenia trials, 10% of GEODON-treated patients experienced a weight gain of ≥7% of body weight vs 4% for placebo. In the same short-term trials, the most common adverse events were somnolence (14%) and respiratory tract infection (8%).





Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trial, modal duration of 10 weeks) in these patients revealed a risk of death in the drup-treated patients to between 1, 80 1.7 times that seen in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

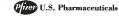
INDICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute manic or mixed episodes associated with bipolar disorder with or without psychotic features. GEODON® (ziprasidone mesylate) for Injection is indicated for acute agitation in schizophrenia nations.

schizophrenic patients.

CONTRAINDICATIONS — OT Prolongation: Because of GEDDON's dose-related prolongation of the OT interval and the known association of fatal arrhythmias with QT prolongation by some other drugs, GEDDON is contraindicated in patients with a known history of QT prolongation (including congenital long QT syndrome), with recent acute myocardial infarction, or with uncompensated heart failure (see MARNINSS). Pharmacokinetic/pharmacotynamic studies between GEDDON and other drugs that prolong the QT interval cannot be excluded. Therefore, GEDDON should not be given with offeitide, stotal, quindine, other Class I and III anti-arrhythmics, mesordazine, thioridazine, chloryomazine, droperidod, pimozide, sparfloxacin, gatifloxacin, moxifloxacin, halofantrine, mefloquine, pentamidine, arsenictioxide, levomethadyl acetate, dolssetron mesytate, probucol, or tacrolimus. GEDDON is also contraindicated with drugs that have demonstrated QT prolongation as one of their pharmacodynamic effects and have this effect described in the fully prescribing information as a contraindication or above or boiled warning (see WARNINGS). GEDDON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased Mortality in Elderry Patients with Dementia - Related Psychosis: Elderry patients with dementia-related psychosis related with a typical antipsychotic drugs are at an increased risk of death compared to placebo. GEDDON (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis related with a typical antipsychotic drugs are at an increased risk of death compared to placebo. GEDDON (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis hould be alred to the identification of other drugs that have been consistently observed to prolong the QT, interval. Additionally, clinicians should be alred to the identification of other drugs that have been consistently observed to prolong the QT, interval. Such drugs should not be pr schizophrenic patients.
CONTRAINDICATIONS — QT Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association The relationship of OT protongation to torsade de pointes is clearest for larger increases (20 msec and greater) but its possible that smaller OT/OT<sub>c</sub> protongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia, hypomagnesomia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of GEODON The relationship of OT prolongation to torsade de pointes is clearest for larger increases (20 msec and greater) but it is possible that smaller OT/OT, prolongations may also increase risk, or increase it in susceptible individuals, such as those in premarketing studies, appetence is too limited to rule out an increased risk. A study evaluating the OT/OT, prolonging effect of inframuscular GEDDON, with intramuscular haloperfiold as a control, was concluded in patient voluniteers. In the trial, ECGs were obtained at the time of maximum plasma concentration following two injections of GEDDON (20 mg then 30 mg) or haloperfiold (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of intramuscular GEDDON is 50% higher than the recommended therapeutic dose. The mean change in OT, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the OT interval. The mean increase in OT, from baseline for EGDDON was 4.6 msec following the first injection and 12.8 msec following the second injection. The mean increase in OT, from baseline for EGDDON was 4.6 msec following the first injection and 14.7 msec following the second injection. In this study, no patient had a OT, interval exceeding 500 msec. As with other artitipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking GEDDON at recommended doses. The premarketing experience for GEDDON did not reveal an excess of mortality for GEDDON compared to other antipsychotic drugs or patiency but the extent of exposure was familited, especially for the drugs used as active control and placebo. Nevertheless, GEDDON's larger protongation of OT, length compared to several other antipsychotic drugs raises the possibility has the risk of sudden death may be greater for GEDON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Cortain circumstances may increase the risk of the occurrence of autor or tractar, with oscionationation of users and one-stand ness cases. The Occasion shall was out related, autority finding might also be explained by longer exposure in higher-dose patients. Several patients with reals had signs and symptoms of associated systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or undescontinuation of 6EDDON, and all patients were reported to recover completely. Upon appearance of resh for which an alternative etiology camnot be identified, GEODON should be discontinued. Onthostatic hypotension: GEODON may induce orthostatic hypotension associated with disziness, tachycardia, and, in some patients, syncope, especially during the initial dose-tituation period, probably reflecting its cardinering chargonist properties. Syncope was reported in 0.6% of GEODON patients, GEODON should be used with patients author in patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction about materials of cardiovascular disease. patients with known cardiovascular disease (nistory of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, inclease) and treatment with antihypertensive medications). Seizures: In clinical trials, seizures occurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsychotic drugs, GEODON should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Atheris dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagiat</u> Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality and deferly patients, in particular those with advanced Atherimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Darwander, Batted Psychological Management and CEODON allocates. with Dementia-Related Psychosis). <u>Hyperprotectinenia</u>. As with other drugs that antagonize dopamine 0, receptors, GEODON elevates protectil levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are protectin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detective heart the province of the previously detection of the previously detection of this class. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class Nether clinical studies nor epidemiologic studies conducted to date have shown an association between chronicad ministration of this class of drugs and funnogianess in humans; the available evidence is considered too limited to be conclusive at this time. Putential for Cognitive and Motor Imaginment. Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled rials, somnolence was reported in 14% of GEODON patients vs 7% of placebo patients. Somnolence det to discontinuation in 0.3% of patients in short-term clinical trials. Since GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous mechinary until they are reasonably certain that GEODON therapy does not affect them adverse; Prajaism; Ohe case of priagism was reported in the premarketing database. Body Temperature Regulation; Although not reported with GEODON in premarketing database. was reported in the premarketing database, <u>Body Temperature Regulation</u>, Although not reported with GEODON in premarketing trials, disruption of the body's ability for reduce orce body temperature has been attributed to antipsychotic agents. <u>Suicide</u>, as suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy, GEODON prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk. <u>USB in Patients with Concomitant Interest in Capsules consistent with good patient management to reduce overdose risk. <u>QSEODON</u> has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease. Patients with these diagnoses were excluded from premarketing dinical studies. Because of the risk of OT, prolongation and risks of <u>Studen Deathin</u> was the proposition of the control of the proposition of the proposition of the proposition of the patients. The prolongation and Risk of <u>Studen Deathin</u> was a <u>Management of Control of Prolongation and Risks of Studen Deathin</u> was a <u>Management of Control of Controls of </u></u>

information and instructions in the *Patient Information Sections* should be discussed with potients. *Laboratory Tests*: Patients being considered for GEDDON frearment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low serum potassium and imagnesium should be replated before treatment Patients who are started on diversites during GEDDON therapy med periodise moting of serum potassium and magnesium. Discontinue GEDDON should not be used with at state in combination are found to have persistent OT, measurements 5:00 mess (see WARNINGS). *Drug Informaticions*: (1) GEDDON should not be used with a state in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, GEDDON. Actinos should be used when its taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, GEDDON. Actinosis of the season with other centrally acting drugs. (3) Because of its potential for drugs of the document of the season of the Schland various and superior tradition of adverse event to dose for the following: astheria, postural hypotension, anorexia, dry mouth, increased salivation, arthralpia, anxiety, dizziness, dystonia, hypotensionia, somnolence, tremor, thinitis, rask, and abnormal vision mouth, increased salivation, arthralpia, anxiety, dizziness, dystonia, hypotensionia, somnolence, tremor, thinitis, rask, and abnormal vision trials was 14% vs 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Rating Scale and the Barness Aktainstratials was 14% vs 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Rating Scale and the Barness Aktainstratials was 14% vs 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Rating Scale and the Barness Aktainstration of the sense of the Simpson-Angus Rating Scale and the Barness Aktainstration trade of the Scale and the Barness Aktainstration of the Scale Charles (Scale Charles) and the Scale Charles (Scale Charles) of the Scale Charles (Scale Charles) and the Scale Charles (Scale Charles) of the Scale Charles (Scale Charles) and the Scale Charles (S WARNINGS). In schizophrenia trials, GEOOON was associated with a mean increase in heart rate of 1.4 beats per minute compared to 3.02 beats per minute decrease among placebo patients. Other Adverse events have the Premarketing Evaluation of GEOOOM. Frequent adverse events are those occurring in at least 1/100 patients; Infrequent adverse events are those occurring in 1/100 to 1/1000 patients, rare events are those occurring in infewer than 1/1000 patients. Schizophrenia Body as a Whole — Frequent addominal pain, flus syndrome, fever, accidental fail, accedema, chills, photosensishivy reaction, lanking, inportermia, motor verbice accident. Cardiovascular System — Frequent cardiovascular, inporternia, photosensishivy reaction, lanking, inporternia, motor verbice accident. Cardiovascular System — Frequent achievascular, inporternia, place phromophilebitis, myocarditis, brumonay embolus, cardiomegaly, cerebra infarct, cerebrovascident. Cardiovascular System — Frequent anorsia, vomiting; Infrequent: rectal hemorrhage, dysphagia, tongue edema, Rare: gum hemorrhage, jaundice, fecal impaction, gamma glutamyl transpeptidase increased, hematemesis, cholestatic jaundice, hepatitis, hepatomegaly, leukoplakia of mouth, fatty liver depost, melena. Endocrine — Rare: hypothyroidism, thyroidist. Hemic and Lymphatic System — Infrequent: anorsia, ecclymosis, leukocytosis, leukopenia, eosinohilia, hypothemia. Metabolic and Nutritional Disorders — Infrequent: thirst, transaminase increased, peripheral edema, hypocytoemia, thromobocythemia. Metabolic and Nutritional Disorders — Infrequent: thirst, transaminase increased, peripheral edema, hypocytoemia, hypochicamia, hypocytoemia, hypochicamia, hypocytoemia, hypocytoemia, hypochicamia, hypocytoemia, hypocyto

Wendings and <u>Ditussation in Proceedings of the Prize </u>



JERALD KAY • ALLAN TASMAN • AARON T. BECK • JAMES F.T. BUGENTAL • GLEN O. GABBARD • JAY HALEY • OTTO **KERNBERG • PETER D. KRAMER • TRACEY EELLS • ROBERT** D. STOLOROW • GEOR E E. VAILLANT • IRVIN YALOM • E. JAMES ANTHONY D D. CHESSICK • ROBERT American COLES . HOWARD C DAVANLOO • PAUL JOHN MARKOWITZ GOLDSTEIN · PAUI Psychotherapy T. Byram Karasu, Editor in Chief ARNOLD M. LUD **MENNINGER** • J pist Interventions in the Interpersonal
Sentity of Therapy Sessions of the
ent of Depression Collaborative T. BECK • JAN BBARD • JAY HALEY • C MOORE • RO AILLANT • IRVIN YALO CHARD D. CHESSICK • LER • HABIB lections on Gifts in the The Gift from the Patient to th NK • WILLIAM N. GOLDS NGS ARNOLD **IRVIN Y** N C. NEMIAH • CTOR PERSON BECK • JAMES F.T. F.T. BUGENTAL • JAY HALEY • OTTO KERNBERG • JOEL YAGE OORE • ROBERT D. STOLOROW • JOHN NORCROSS IN YALOM • E. JAMES ANTHONY · RICHARD D. CHESSICK · ROBERT COLES HOWARD C. CUTLER • HABIB DAVANLOO • PAUL A. DEWALD

Incorporating the *Journal of Psychotherapy Practice and Research* Published four times per annum: *American Journal of Psychotherapy* 

Belfer Center, Room 405 • 1300 Morris Park Avenue • Bronx, NY 10461

## **Psych Oral Board Tutorials**

# Now, 3-day practice orals course limited to 20 students

- Opening sessions will teach oral exam skills
- ◆ Fees include doing two practice oral exams
- ◆ One live-patient and one video taped interview
- ◆ Each exam is 1¼ hours time enough for hour interview and exam as well as faculty evaluation
- Senior faculty include former board examiners
- ♦ Weekend 4 to 10 weeks before your oral boards

## July 7-9, 2007 – Chicago December 2007 – TBA

◆ In board exam city just before your oral boards

## June 5-7 – Indianapolis September 6-8 – Milwaukee

◆ You may buy extra private and public practice exams based on patient interview or videotape

www.psychtutor.net/m75a 800-285-3283

When you positively must pass



Telephone: (718) 430-3503, FAX: (718) 430-8907

E-mail: info@ajp.org; Web site: www.ajp.org

APA 2007 ANNUAL MEETING SPONSORED BY THE AMERICAN PSYCHIATRIC ASSOCIATION

# NAVIGATING THE COMPLEX MAZE OF BIPOLAR DISORDER

Monday, May 21, 2007

6:30 — 7:00 PM Dinner 7:00 — 10:00 PM Symposium Manchester Grand Hyatt San Diego Douglas Pavillion C/D One Market Place San Diego, California

#### **EDUCATIONAL OBJECTIVES**

At the end of this educational activity participants should be able to

- List major obstacles to the diagnosis of bipolar disorder and describe strategies for distinguishing bipolar disorder from depression and agitated depression.
- 2) Describe common psychiatric and medical comorbidities in bipolar patients, and their implications for treatment.
- 3) Outline major findings from STEP-BD and their implications for clinical practice

#### **ACCREDITATION**



The American Psychiatric Association (APA) is accredited by the Accredidation Council for Continuing Medical Education to provide continuing medical education for physicians.

The APA designates this educational activity of a maximum of 3 AMA PRA category 1 Credits\*\*. Physicians should only claim credit commensurate with the extent of their participation in the activty.

Attendees must be registered for the 2007 APA Annual Meeting to attend this symposium. Seating is limited and will be on a first-come, first-served basis. For more information about the meeting, please visit the APA web site at www.psych.org or contact the APA toll free at 1-888-357-7924 (within the US or Canada) or 703-907-7300.

Registered conference participants and registered guests may attend an industry-supported symposium at the APA meeting.

Sponsored by the American Psychiatric Association.

Supported by an educational grant from Pfizer, Inc.

## AGENDA

7:00-7:10 PM

#### **Opening Remarks**

Prakash Masand, MD—Chairman Duke University Medical Center

7:10-7:40 PM

# Diagnostic Pitfalls in Patients with Bipolar Disorder

Prakash Masand, MD

7:40-8:10 PM

# Managing the Bipolar Patient with Medical Comorbidities

Andrea Fagiolini, MD

University of Pittsburgh School of Medicine

8:10-8:40 PM

#### Tailoring Antipsychotic Treatment to the Complex Patient with Bipolar Disorder

Paul E. Keck, Jr., MD

University of Cincinnati College of Medicine

8:40-9:10 PM

#### Bringing Research to the Clinician: Lessons from STEP-BD

Gary Sachs, MD

Massachusetts General Hospital

9:10-9:55 PM

#### **Panel Discussion**

Faculty Panel

# You Treat Depression...

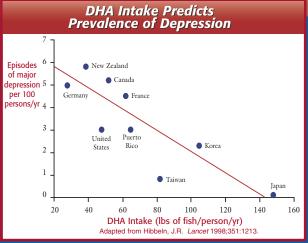


### **Peer Reviewed Journals:**

"...reduced membrane DHA emerged as a significant predictor of depression..."

Edwards. R., et al. J Affect Disord 1998;48:149-155.

Depleted Levels:						
	Omega-3	<b>B-Vitamins</b>				
Depression	V	V				
Arthritis	V	<b>~</b>				
Cardiovascular	<b>V</b>	<b>✓</b>				
Diabetes	<b>~</b>	<b>✓</b>				
Pregnancy	<b>~</b>	<b>✓</b>				
Alcohol Consumption	· •	<b>✓</b>				



"There is good evidence that psychiatric illness is associated with depletion of [Omega-3] and, crucially, that supplementation can result in clinical amelioration." Hallahan, B., & Garland, M.R. British J Psych 2005;186:275-277.

Postpartum-"...lower DHA content in mothers' milk...[was] associated with

higher rates of postpartum depression."

Hibbeln, J.R. J Affect Disord 2002;69:15-29. "Trials have shown that folate supplementation hastens recovery from depressive episodes and enhances the effect of antidepressants."

Morris, M.S., et al. Psychother and Psychosom 2003;72(2):80-7.

www.animi-3.com For Samples Call: 1-800-485-9828



#### Animi-3®

Each Capsule contains:

 Folic Acid
 1 mg

 Vitamin B<sub>6</sub>
 12.5 mg

 Vitamin B<sub>12</sub>
 500 mg

 Omega-3 Acids
 500 mg

 -Docosahexaenoic Acid (DHA)
 350 mg

 -Eicosapentaenoic Acid (EPA)
 35 mg

Patent Pending

#### Rx Only

#### Description

Animi-3\* Capsules are intended for oral administration.

Each Capsule Contains: 1 mg Folic Acid USP, 12.5 mg Vitamin B<sub>6</sub> (Pyridoxine Hydrochloride, USP), 500 mcg Vitamin B<sub>12</sub> (Cyanocobalamin, USP) and Pharmaceutical Grade Omega-3 Fish Oil providing 500 mg Omega-3 Acids; including 350 mg Docosahexaenoic Acid (DHA) and 35 mg Eicosapentaenoic Acid (EPA). Also Contains: Yellow Beeswax NF, Sunflower Oil FCC, Bleached Lecithin NF, Ascorbic Acid USP, Mixed Tocopherols NF, Ascorbyl Palmitate NF and a soft shell capsule (which contains; Gelatin USP, Glycerin NF, Titanium Dioxide USP, PD&C Red 40 and USP Purified Water).

#### Indication

Animi- $3^{\circ}$  Capsules are indicated for improving nutritional status before, during and after pregnancy and in conditions requiring Essential Fatty Acid, Vitamin  $B_{12}$ ,  $B_6$  and Folic Acid supplementation.

#### Contraindications

This product is contraindicated in patients with a known hypersensitivity to any of the ingredients.

#### Precautions

Folic Acid in doses above 0.1 mg daily may obscure pernicious anemia in that hematological remission can occur while neurological manifestations remain progressive.

#### Pediatric Use

Safety and effectiveness in pediatric patients have not been established

#### Adverse Reactions

Allergic sensitization has been reported following oral, enteral and parenteral administration of folic acid.

Dosage and Administration

#### Dosage and Administration

Adults — One capsule daily or one capsule twice daily, or as directed by a physician.

How Supplied

#### How Suppli

Animi-3% supplied as red opaque oblong Capsules. Each Capsule is imprinted with "PBM 540" in black opacode.

Animi-3\* Capsules are available in bottles of 60 capsules (NDC 66213-540-60).

#### Keep out of reach of children

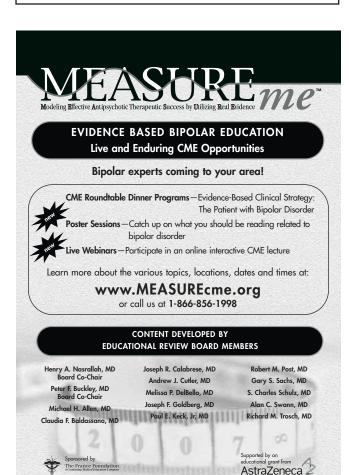
Dispense in a well-closed, tight light-resistant container as defined in the USP using a child-resistant closure.

Storage Conditions: Store at  $20-25^{\circ}\text{C}$  ( $68-77^{\circ}\text{F}$ ). See USP Controlled Room Temperature. Protect from light and moisture.

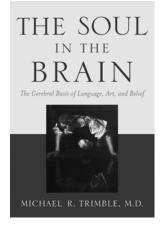
PBM Pharmaceuticals, Inc. Gordonsville, VA 22942

Rev. 0705 © 2004

© 2004 All Rights Reserved. Pharmaceuticals
PBM Pharmaceuticals
800-485-9828



#### NEW FROM JOHNS HOPKINS



# The Soul in the Brain

The Cerebral Basis of Language, Art, and Belief Michael R. Trimble, M.D.

"Everyone interested in the human mind—and who is not?—will find riches here for contemplation."

—Paul McHugh, The Johns Hopkins School of Medicine

"Trimble incorporates his long experience with patients who have brain disorders, his thoughtful approach to neurological diseases, and his philosophical depth to take the reader on an exciting adventure examining the cerebral basis for the cultural beliefs we hold most dear."

—Jeffrey L. Cummings, University of California, Los Angeles

\$35.00 hardcover

# The Mind of the Mathematician

Michael Fitzgerald and Ioan James

Internationally famous mathematician loan James and accomplished psychiatrist Michael Fitzgerald explore the behavior and personality traits that tend to fit the profile of a mathematician.

\$30.00 hardcover

# Bipolar Disorder in Later Life

edited by Martha Sajatovic, M.D., and Frederic C. Blow, Ph.D.

"A valuable reference for psychiatrists and other mental health professionals who have older individuals under their care."
—Francis Mark Mondimore, M.D., author of Bipolar Disorder: A Guide for Patients and Families
\$50.00 hardcover

#### Working with Families of Psychiatric Inpatients

A Guide for Clinicians Alison M. Heru, M.D., and Laura M. Drury, M.S.W., L.I.C.S.W.

Keyed to the requirements articulated by the American College of Graduate Medical Education, this handbook is a tool no psychiatric resident can do without. It offers a step-bystep guide to developing the skills needed to work successfully with patients' families.

\$20.00 paperback

# The Concepts of Psychiatry

A Pluralistic Approach to the Mind and Mental Illness S. Nassir Ghaemi, M.D., M.P.H.

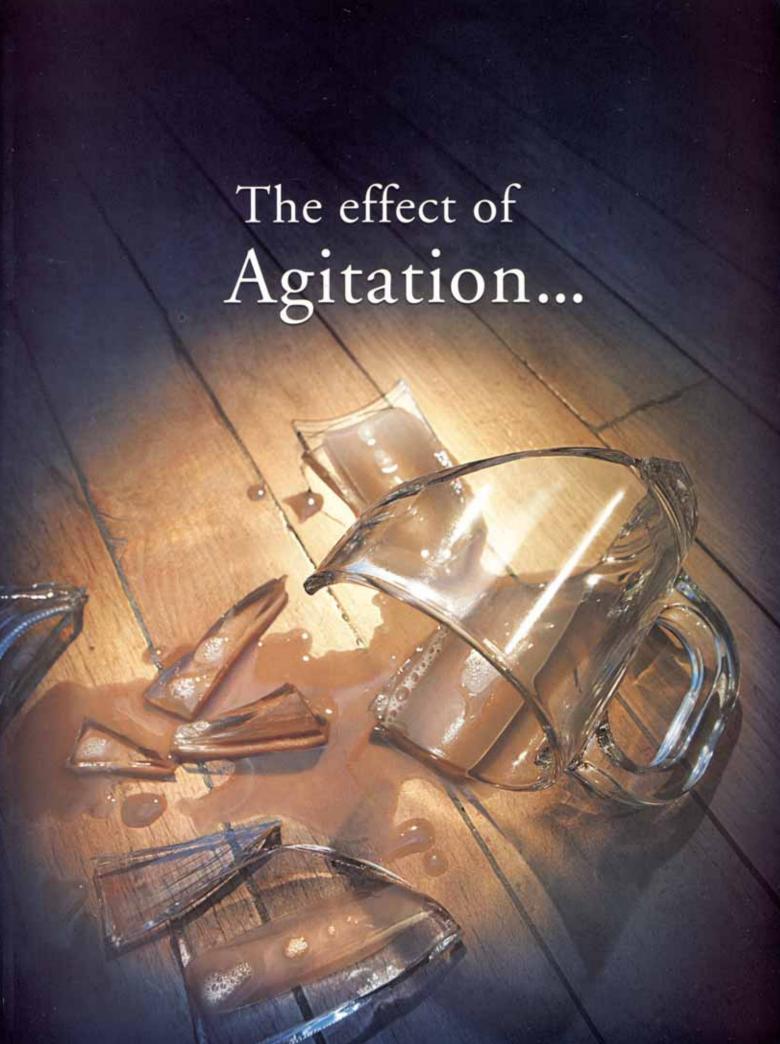
foreword by Paul R. McHugh, M.D.

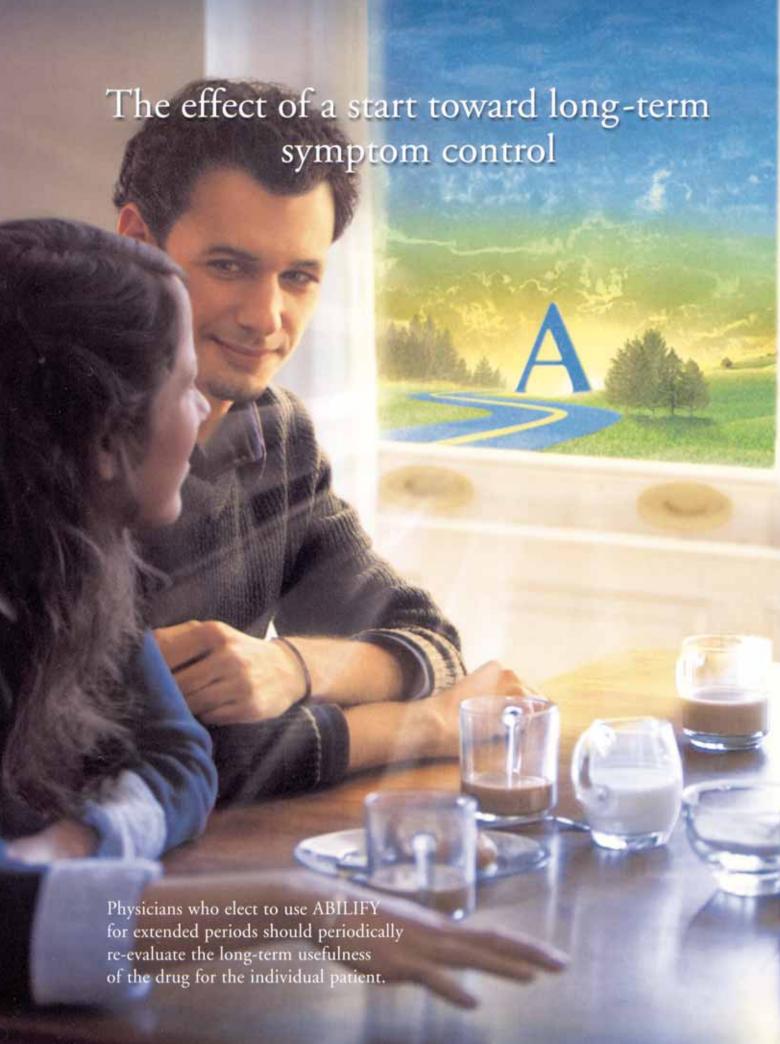
"Ghaemi raises dozens of thought-provoking questions in the midst of his tour through the concepts of psychiatry."

—Journal of Nervous and Mental Disease \$25.00 paperback

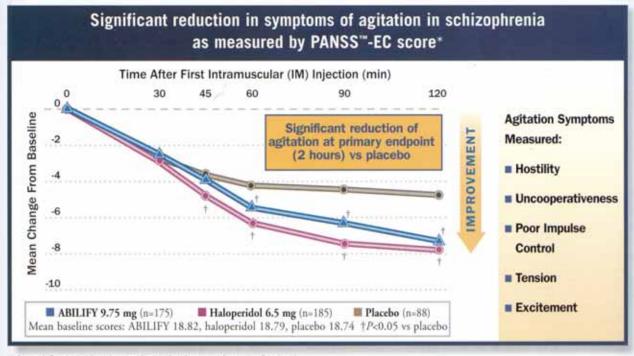
The Johns Hopkins University Press

jh





# ABILIFY® (aripiprazole) Injection Rapidly Controls Agitation¹



Adapted from Andrezina et al. Psychopharmacology (Berl). 2006.

See study description on next page.

PANSS"-EC=Positive and Negative Syndrome Scale Excited Component.

PANSS\*\* is a trademark of Multi-Health Systems, Inc.

ABILIFY Injection is indicated for the treatment of agitation associated with schizophrenia or bipolar mania

ABILIFY is also indicated for the treatment of schizophrenia including maintaining stability in patients who had been symptomatically stable on other antipsychotic medications for periods of 3 months or longer and observed for relapse during a period of up to 26 weeks.

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). ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

Please see IMPORTANT SAFETY INFORMATION, including **Boxed WARNING**, on next page.



<sup>\*</sup>Last observation carried forward.

## IMPORTANT SAFETY INFORMATION for ABILIFY® (aripiprazole)

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). ABILIFY is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

- Neuroleptic malignant syndrome (NMS)-As with all antipsychotic medications, a rare and potentially fatal condition known as NMS has been reported with ABILIFY. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation is recommended
- Tardive dyskinesia (TD)-The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative dose increase. Prescribing should be consistent with the need to minimize TD. If signs and symptoms appear, discontinuation should be considered since TD may remit, partially or completely
- Cerebrovascular adverse events (eg. stroke, transient ischemic attack), including fatalities, have been reported at an increased incidence in clinical trials of elderly patients with dementia-related psychosis treated with ABILIFY

Hyperglycemia and diabetes mellitus—Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including ABILIFY. Patients with diabetes should be monitored for worsening of glucose control; those with risk factors for diabetes should undergo baseline and periodic fasting blood glucose testing. Patients who develop symptoms of hyperglycemia should also undergo fasting blood glucose testing. There have been few reports of hyperglycemia with ABILIFY

## Treatment-emergent adverse events reported with:

In short-term trials of patients with schizophrenia (up to 6 weeks) or bipolar disorder (up to 3 weeks), the following were reported at an incidence ≥10% and greater than placebo, respectively: headache (30% vs 25%), anxiety (20% vs 17%), insomnia (19% vs 14%), nausea (16% vs 12%), vomiting (12% vs 6%), dizziness (11% vs 8%), constipation (11% vs 7%), dyspepsia (10% vs 8%), and akathisia (10% vs 4%).

#### ABILIFY Injection

In short-term (24 hour) trials, the following were reported at an incidence ≥5% and greater than placebo, respectively: headache (12% vs 7%), nausea (9% vs 3%), dizziness (8% vs 5%), and somnolence (7% vs 4%).

# ABILIFY® (aripiprazole) offers your patients:

- Rapid control of agitation\*1
- Early and sustained symptom control
- Low potential of unwanted sedation
- Favorable weight and lipid profile
  - In a 52-week schizophrenia trial, the percentage of patients with ≥7% increase in baseline body weight was 30% for those with BMI <23, 19% for those with BMI 23 to 27, and 8% for those with BMI >27.

\*With ABILIFY Injection at primary endpoint (2 hours).

Physicians who elect to use ABILIFY for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

#### Study Description:

Double-blind, placebo-controlled, randomized, multicenter study conducted with 448 patients. If needed, concomitant hemodiazepine (horazepam [4 mg/day] or equivalent) could be administered at least 60 minutes after the accound injection. After completing the 24-hour IM phase, parients received blinded oral tables study medication corresponding to their initial Treatment arm for 4 days. Patients randomized to aripipeazole or placebo during the 24-hour IM phase received 15-mg aripipeazole oral tablets (with the option of decreasing to 10-mg aripipeazole based on clinical judgment).

 Andrerina B., Josiassen RC., Marcus RN, et al. Intramuscular aripipeacole for the treatment of acute schizophrenia or schizoaffective disorder: a double-blind, placebo-controlled comparison with intramuscular haloperidol. Psychopharmaculogy (Berl). 2006;188:281-292.

Please see accompanying Brief Summary of FULL PRESCRIBING INFORMATION, including Boxed WARNING, for ABILIFY on following pages.

Bristol-Myers Squibb Otsuka America Pharmaceutical, Inc.

©2007 Osuka America Pharmacretical, Inc., Rockville, MD

576US07AB00102 February 2007 AP444K70/02-07 Printed in USA Printed on recycled paper.

Rx only

**ABILIFY®** (aripiprazole) TABLETS

ABILIFY® (aripiprazole) ORAL SOLUTION

ABILIFY® DISCMELT™ (aripiprazole) Orally Disintegrating Tablets

ABILIFY® (aripiprazole) INJECTION FOR INTRAMUSCULAR USE ONLY BRIEF SUMMARY: PLEASE CONSULT PACKAGE INSERT FOR COMPLETE PRESCRIBING INFORMATION.

#### INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS

RICHE/SED MORTHALITY IN ELDERLY PATIENTS WITH DEWENT-RELATED TO-TO-TO-OSIS

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (eg, heart failure, sudden death) or infectious (eg, pneumonla) in nature. ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

CONTRAINDICATIONS: Known hypersensitivity to aripiprazole

WARNINGS: <u>Increased Mortality In Elderly Patients With Dementia-Related Psychosis</u> - Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. ABILIFY (aripiprazole) is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

Neuroleptic Malignant Syndrome (NMS): Potentially fatal NMS has been reported in association with administration of antipsychotic drugs, including ABILIFY. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure. If signs and symptoms appear, immediate discontinuation is recommended (see Full Prescribing Information for additional information on management of NMS). Patients requiring antipsychotic drug treatment after recovery from NMS should be carefully monitored since recurrences of NMS have been reported.

Tardive Dyskinesia (TD): Potentially irreversible TD may develop in patients treated with antipsychotic Tardive Dyskinesia (TD): Potentially irreversible TD may develop in patients treated with antipsychotic drugs. Although the prevalence of TD appears to be highest among the elderly, especially elderly women; it is impossible to predict which patients are more likely to develop the syndrome. The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative does increase. Prescribing should be considered since TD may remit, partially or completely. Antipsychotic treatment, itself, may suppress (or partially suppress) the signs and symptoms of the syndrome and, thereby, may possibly mask the underlying process. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that (1) is known to respond antipsychotic drugs, and (2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. The need for continued treatment should be reassessed periodically.

Cerebrovascular Adverse Events, Including Stroke, in Elderly Patients with Dementia-Related Psychosis: In placebo-controlled clinical studies (two flexible-dose and one fixed-dose study) of dementia-related psychosis, there was an increased incidence of cerebrovascular adverse events (eg, stroke, transient ischemic attack), including istatilities, in aripiprazole-treated patients. In the fixed-dose study, there was a statistically significant dose response relationship for cerebrovascular adverse events in patients treated with aripiprazole. ABILIFY is not approved for the treatment of patients with dementia-related psychosis. (See also Boxed WARNING, WARNINGS and PRECAUTIONS in Full Prescribing Information.)

Boxed WARNING, WARNINGS and PRECAUTIONS in Full Prescribing information.)

Hyperglycemia and Diabetes Mellitus: Hyperglycemia, in some cases associated with ketoacidosis, hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics including ABILIFY. Assessment of the relationship between atypical antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes mellitus in patients with schizophreia and the increasing incidence of diabetes mellitus in the general population. Patients diagnosed with diabetes who are started on atypical antipsychotics should be monitored regularly for worsening of glucose (CBI) tespiants with risk factors for diabetes should undergo baseline and periodic fasting blood glucose (FBI) tespia. Any patient being treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia and those who develop symptoms of hyperglycemia should also undergo FBG testing.

#### PRECAUTIONS: General:

PRECAUTIONS: General:
Orthostatic Hypotension: ABILIFY may be associated with orthostatic hypotension, perhaps due to its c<sub>1</sub>-adrenergic receptor antagonism. The incidence of orthostatic hypotension-associated events from five short-term, placebe-controlled trials in schizophrenia (n=926) on oral ABILIFY included: orthostatic hypotension (1.9%), postural dizziness (0.8%), and syncope (0.6%). The incidence of orthostatic hypotension associated events from short-term, placebe-controlled trials in bipolar mania (n=597) or al ABILIFY included: orthostatic hypotension (0.7%), postural dizziness (0.5%), and syncope (0.3%). The incidence of orthostatic hypotension or bipolar mania (n=501) on ABILIFY linjection included: orthostatic hypotension (0.6%), postural dizziness (0.2%), and syncope (0.4%). The incidence of a significant orthostatic change in blood pressure (defined as a decrease of at least 30 mmHg in systolic blood pressure (defined as a decrease of at least 30 mmHg in systolic blood pressure defined as a decrease of at least 30 mmHg in systolic blood pressor bipolar mania. ABILIFY should be used with caution in patients with known cardiovascular disease (high caution in patients with schizophrenia or bipolar mania. A patients with schizophrenia or indication or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease, or conditions which would prodispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). If parenteral benzodiazepine therapy is deemed necessary in addition to ABILIFY Injection treatment, patients should be monitored for excessive sedation and for orthostatic hypotension.

Seizures: In short-term trials, seizures/convulsions occurred in 0.1% (1/926) of oral aripiprazole-treated

Seizures: In short-term trials, seizures/convulsions occurred in 0.1% (1/926) of oral aripiprazole-treated Setzures: In sind-ter-liff trains, in 0.3% (2/597) of oral arispinazole-treated patients with schizophrenia, in 0.3% (2/597) of oral arispinazole-treated patients with biploar mania, and in 0.2% (1/501) of arispirazole injection-treated patients with agitation associated with schizophrenia or bipolar mania. Use cautiously in patients with a history of seizures or with conditions that lower the seizure threshold. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older.

Continoins that lower the sezure mission may be intole prevalent in a population of os years of user.

Potential for Cognitive and Motor Impairment: Despite the relatively modest increased incidence of somnolence compared to placebo, ABILIFY, like other antipsychotics, may have the potential to impair judgment, thinking, or motor skills. In short-term trials, somnolence (including sedation) was reported in 10% of patients with schizophrenia on oral ABILIFY compared to 8% of patients on placebo; and in 9% of patients with bipolar mania on oral ABILIFY compared to 7% of patients on placebo; and in 9% of patients with agitation associated with schizophrenia or bipolar mania on ABILIFY Injection compared to 6% of patients on placebo. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that therapy with ABILIFY does not affect them adversely.

**Body Temperature Regulation:** Disruption of body temperature regulation has been attributed to antipsychotic agents. Use appropriate care when prescribing aripiprazole for patients who will be experiencing conditions that may contribute to an elevation in core body temperature.

Dysphagia: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use, including ABILIFY. Aspiration pneumonia is a common cause of morbidity and mortalify in patients with advanced Alzheimer's disease. ABILIFY and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia.

Suicide: The possibility of a suicide attempt is inherent in psychotic illnesses and bipolar disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions for ABILIFY should be written for the smallest quantity consistent with good patient management.

Use in Patients with Concomitant Illness: Clinical experience with ABILIFY in patients with certain concomitant systemic illnesses is limited. ABILIFY has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease.

In three, 10-week, placebo-controlled studies of aripiprazole in elderly patients with psychosis associated with Alzheimer's disease (n=298), the treatment-emergent adverse events that were reported at an incidence of ±3% and aripiprazole incidence at least twice that for placebo were lethargy, somnolence (including sedation), incomfinence (primarily, urinary incontinence), excessive salivation, and lightheradedness. ABILIFY is not approved for treatment of patients with dementia-related psychosis. If the prescriber elects to treat such patients with ABILIFY, vigilance should be exercised, particularly for the emergence of difficulty swallowing or excessive somnolence, which could predispose to accidental injury or aspiration (See Boxed WARNING, WARNINGS and CLINICAL PHARMACOLOGY: Special Populations in Full Prescribing Information.) Information for Patients: Physicians are advised to discuss the following issues with patients for whom they prescribe ABILIFY (aripiprazole). See Full Prescribing Information for the complete information to discuss with patients taking ABILIFY:

Interference with Cognitive and Motor Performance: Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that ABILIFY does not affect them adversely.

**Pregnancy:** Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy with ABILIFY.

Nursing: Patients should be advised not to breast-feed an infant if they are taking ABILIFY.

Concomitant Medication: Patients should be advised to Inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for interactions.

Heat Exposure and Dehydration: Patients should be advised regarding appropriate care in avoiding overheating and dehydration.

Phenylketonurics: Phenylalanine is a component of aspartame. Each ABILIFY DISCMELT orally disintegrating slabet contains the following amounts: 10 mg - 1.12 mg phenylalanine and 15 mg - 1.68 mg phenylalanine.

Sugar Content: Patients should be advised that each mL of ABILIFY oral solution contains 400 mg of sucrose and 200 mg of fructose.

and 200 mg of mucrose.

Drug Interactions: Use caution when ABILIFY is taken in combination with other centrally acting drugs and alcohol. ABILIFY may enhance the effect of certain antihypertensive agents. ABILIFY is unlikely to cause clinically important drug interactions mediated by the enzymes CYP1A1, CYP1A2, CYP2A6, CYP2CB, CYP2CB, CYP2C9, OYP2C19, or CYP2E1 enzymes. In vivo studies using 10- to 30-mg/day doses of aripipracole had no significant effect on metabolism by CYP2D6 (dextromethorphan), CYP2C9 (warfarin), CYP2C19 (omeprazole, warfarin), and CYP3A4 (dextromethorphan) substrates. No clinically significant effect of famotidine, valproate, or lithium was seen on the pharmacokinetics of aripiprazole.

Inducers of CYP3A4 (eg, carbamazepine) could cause an increase in aripiprazole clearance and lower blood levels. When a CYP3A4 inducer is added to ABILIFY, the dose of ABILIFY should be doubled. Additional dose increases should be based on clinical evaluation. When the CYP3A4 inducer is withdrawn from combination therapy, the ABILIFY dose should be reduced.

Carbamazepine: Coadministration of carbamazepine (200 mg BID) with ABILIFY (30 mg QD) resulted in an approximate 70% decrease in C<sub>max</sub> and AUC values of aripiprazole and its active metabolite, dehydro-aripiprazole.

Inhibitors of CYP3A4 (eg, ketoconazole) or CYP2D6 (eg, quinidine, fluoxetine, or paroxetine) can inhibit the elimination of aripiprazole and cause increased blood levels. When a strong CYP3A4 or CYP2D6 inhibitor is added to ABILIFY, the dose of ABILIFY should be reduced to one-half of the usual dose. When the CYP3A4 or CYP2D6 inhibitor is withdrawn from the combination therapy, the ABILIFY dose should then be increased.

Ketoconazole: Coadministration of ketoconazole (200 mg/day for 14 days) with a 15-mg single dose of ABILIFY increased the AUC of aripiprazole and its active metabolite by 63% and 77%, respectively.

Quinidine: Coadministration of a 10-mg single dose of ABILIFY with quinidine (166 mg/day for 13 days) increased the AUC of aripiprazole by 112% but decreased the AUC of its active metabolite, dehydro-aripiprazole, by 35%.

Alcohol: There was no significant difference between aripiprazole coadministered with ethanol and placebo coadministered with ethanol on performance of gross motor skills or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid alcohol while taking ABILIFY.

coadministered with ethanol on performance of gross motor skills or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid alcohol while taking ABILIFY.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: Carcinogenicity studies were conducted in ICR mice and in Sprague-Dawley (SD) and F344 rats. Aripiprazole was administered for 2 years in the diet at doses of 1, 3, 10, and 30 mg/kg/day to ICR mice and at 10, 20, 40, 60 mg/kg/day (3 to 19 times the maximum recommended human dose (MRHD) based on mg/m²) to SD rats and 1, 3, and 10 mg/kg/day to 1844 rats (0,2 to 5 and 0,3 to 3 times the MRHD based on mg/m²) respectively. In female mice, the incidences of pituitary gland adenomas and mammary gland adenocarcinomas and adenocanthomas were increased at dietary doses of 3 to 30 mg/kg/day (0,1 to 0,9 times human exposure at MRHD based on AUC and 0.5 to 5 times the MRHD based on mg/m²). In female rats, the incidence of mammary gland fibroadenomas was increased at a dietary dose of 10 mg/kg/day (0,1 times human exposure at MRHD based on AUC and 3 times the MRHD based on mg/m²), in female rats, the incidence of adrenocortical carcinomas and combined adrenocortical adenomas/carcinomas were increased at an oral dose of 60 mg/kg/day (14 times human exposure at MRHD based on AUC and 3 times the MRHD based on AUC and 3 times the MRHD based on and the incidences of adrenocortical carcinomas and combined adrenocortical adenomas/carcinomas were increased at an oral dose of 60 mg/kg/day (16 times human exposure at MRHD based on AUC and 19 times the MRHD based on mg/m²). These findings are considered to be prolactin-mediated. Increases in serum prolactin was not increased in a 4- and 13-week dietary study in female mice at doses used in the carcinogenicity study. Serum prolactin was not increased in a 4- and 13-week dietary study in female mice at doses may in thinese harmster fung (CHU) cells, with and without metabolic activation. The metabolic activati

Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. Aripiprazole should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. In animal studies, aripiprazole demonstrated developmental toxicity, including possible teratogenic effects in rats and rabbits.

Labor and Delivery: The effect of aripiprazole on labor and delivery in humans is unknown.

Nursing Mothers: Aripiprazole was excreted in milk of rats during lactation. It is not known whether aripiprazole or its metabolites are excreted in human milk. It is recommended that women receiving aripiprazole should not breast-feed.

Pediatric Use: Safety and effectiveness in pediatric and adolescent patients have not been established.

requartic use: sarety and eneconveness in pediatric and adolescent patients have not been established.

Geriatric Use: Placebo-controlled studies of oral aripiprazole in schizophrenia or bipolar mania did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. There was no effect of age on the pharmacokinetics of a single 15-mg dose of aripiprazole. Aripiprazole clearance was decreased by 20% in elderly subjects (a65 years) compared to younger adult subjects (18 to 64 years), but there was no detectable effect of age in the population pharmacokinetic analysis in schizophrenia patients. Studies of elderly patients with psychosis associated with Alzheimer's disease have suggested that there may be a different tolerability profile in this population compared to younger patients with schizophrenia. (See also Boxed WARNING, WARNINGS and PRECAUTIONS in Full Prescribing Information.)

#### ADVERSE REACTIONS

Aripiprazole has been evaluated for safety in 8456 patients who participated in multiple-dose, clinical trials in schizophrenia, bipolar mania, and dementia of the Alzheimer's type, and who had approximately 5635 patient-years of exposure to oral aripiprazole and 749 patients with exposure to aripiprazole injection. A total of 2442 patients were treated with oral aripiprazole for at least 180 days and 1667 patients treated with oral aripiprazole had at least 1 year of exposure.

Adverse Events Associated with Discontinuation of Treatment: Overall, there was little difference in the

Adverse Events Associated with Discontinuation of Treatment. Overall, unter was fulled uniterative in the incidence of discontinuation due to adverse events in placebo-controlled oral aripiprazole trials (aripiprazole splacebo: schizophrenia, 7% vs 9%; bipolar mania, 11% vs 9%; or in placebo-controlled intramuscular aripiprazole injection trials (aripiprazole injection, 0.8%; placebo 0.5%). The types of adverse events that led to discontinuation were similar between the oral aripiprazole and placebo-treated patients.

to discontinuation were similar between the oral aripiprazole and pacebor-teach pacetas.

Commonly Observed Adverse Events: (25% incidence and at a rate at least twice the rate of placebo for ABILIPY vs placebo, respectively): In 4- to 6-week, placebo-controlled, schizophrenia trials (2 to 30 mg/day), the one commonly observed adverse event associated with the use of oral aripiprazole was: skathisia (8%, 4%). In 3-week, placebo-controlled, bipolar maint brials (15 or 30 mg/day), the most common adverse events associated with oral aripiprazole were: akathisia (15%, 3%), constipation (13%, 6%), sedation (8%, 3%), termor (7%, 3%), restlessness (6%, 3%), extrapyramidal disorder (5%, 2%). In 24-hour placebo-controlled trials of intramuscular aripiprazole injection for agitation associated with schizophrenia or bipolar mania, nausea was the one adverse event observed (9%, 3%).

Adverse Events with an Incidence ≥2% in Oral Aripiprazole Trials: The following treatment-emergent

events were reported at an incidence of ≥2% with oral aripiprazole (doses ≥2 mg/d), and at a greater incidence with aripiprazole than with placebo in short-term placebo-controlled trials (aripiprazole N=1523, placebo N=849), respectively, were: headache (30%, 25%), anxiety (20%, 17%), insomnia (19%, 14%), nausea (16%, 12%), vomiting (12%, 6%), diziness (11%, 8%), constipation (11%, 7%), dyspepsia (10%, 8%), akthatisia (10%, 4%), sedation (7%, 4%), fatigue (6%, 5%), extrapyramidal disorder (6%, 4%), somnolence (5%, 4%), dry mouth (5%, 4%), arthraligia (5%, 4%), tremor (5%, 3%), restlessness (5%, 3%), pharyngolaryngeal pain (4%, 3%), bain in extremity (4%, 2%), coupl (3%, 2%), nasal congestion (3%, 2%), abdominal discomfort (3%, 2%), stomach discomfort (3%, 2%), pain (3%, 2%), vision blurred (3%, 1%), salivary hypersecretion (2%, 1%), peripheral edema (2%, 1%), hypertension (including blood pressure increased) (2%, 1%). The following events were reported by patients treated with oral aripiprazole with an incidence equal to or less than placebo: diarrhea, toothache, upper abdominal pain, abdominal pain, musculoskeletal stiffness, back pain, myalgia, agitation, psychotic disorder, dysmenorrhea (percentage beased on gender total), and rask. (percentage based on gender total), and rash.

Adverse Events with an Incidence ≥1% in Intramuscular Aripiprazole Injection Trials: The following treatment-emergent events were reported at an incidence ≥1% with intramuscular aripiprazole injection (doses ≥5.25 mg/day) and at incidence greater than placebo in 24-hour, placebo-controlled trials (aripiprazole injection N=501, placebo N=220) in aglitated patients with schizophrenia or bipolar mains, respectively, include: headache (12%, 7%), nausea (9%, 3%), dizziness (8%, 5%), somnolence (7%, 4%), sedation (3%, 2%), vomitling (3%, 1%), fatigue (2%, 1%), tachycardia (2%, (1%), akathisia (2%, 0%), dyspepsia (1%, <1%), musculoskelate stiffness (1%, <1%). The following events were reported by patients treated with aripiprazole injection with an incidence equal to or less than placebo: nijection site pain, injection site burning, insomnia, aglitation.

Dose-Related Adverse Events: Dose response relationships for the incidence of treatment-emergent adverse events were evaluated from four trials in patients with schizophrenia comparing various fixed doses (2, 5, 10, 15, 20, and 30 mg/day) of oral aripiprazole to placebo. The one adverse event to have a possible dose response relationship was somolence (including sedation) which was most prominent at the 30 mg/day dose (placebo, 7.1%; 10 mg, 8.5%; 15 mg, 8.7%; 20 mg, 7.5%; 30 mg, 12.6%).

Extrapyramidal Symptoms: In the short-term, placebo-controlled trials of schizophrenia, the incidence of Extrapyramidal Symptoms: In the short-term, placebo-controlled trials of schizophrenia, the incidence of reported EPS-related events, excluding events related to akathisia was (oral aripiprazole 13%, placebo-12%) and the incidence of akathisia-related events was (oral aripiprazole 8%, placebo 4%). In the short-term, placebo-controlled trials in bipolar mania, the incidence of reported EPS-related events, excluding events related to akathisia was (oral aripiprazole 15%, placebo 4%). In the placebo-controlled trials in patients with agitation executions was (oral aripiprazole 15%, placebo 4%). In the placebo-controlled trials in patients with agitating events related to akathisia was (aripiprazole injection 2%, placebo 2%) and the incidence of akathisia related events was (aripinrazole injection 2%, placebo 2%) and the incidence of akathisia-related events was (aripinrazole injection 2%, placebo 2%). related events was (aripiprazole injection 2%, placebo 0%).

Laboratory Test Abnormalities: A between group comparison for 3- to 6-week, placebo-controlled trials revealed no medically important differences between the aripiprazole and placebo groups in the proportions of patients experiencing potentially clinically significant changes in routine serum chemistry, hematology, or urinalysis parameters. Similarly, there were no aripiprazole/placebo differences in the incidence of discontinuations for changes in serum chemistry, hematology, or urinalysis. In a long-term (26-week), placebo-controlled trial there were no medically important differences between the aripiprazole and placebo patients in the mean change from baseline in prolactin, fasting glucose, triglyceride, HDL, LDL, and total cholesterol measurements.

LDL, and total cholesterol measurements.

Weight Gain: In 4- to 6-week trials in schizophrenia, there was a slight difference in mean weight gain between aripiprazole and placebo patients (+0.7 kg vs. -0.05 kg, respectively), and also a difference in the proportion of patients meeting a weight gain criterion of ≥7% of body weight [aripiprazole (8%) compared to placebo (3%)]. In 3-week trials in mania, the mean weight gain for aripiprazole and placebo patients was 0.0 kg vs. -0.2 kg, respectively. The proportion of patients meeting a weight gain criterion of ≥7% of body weight was aripiprazole (3%) compared to placebo (2%). In a 26-week schizophrenia trial, weight change, espectively, for ABILLFY and placebo-treated patients was -0.5 kg and -0.5 kg for those with BMI ≥23 to 27, and -2.1 kg and -1.5 kg for those with BMI ≥23. -1.3 kg and -0.6 kg for those with BMI ≥23 to 27, and -2.1 kg and -1.5 kg for those with BMI ≥23 to 27, and -2.1 kg and -1.6 kg for those with BMI ≥35 to 27, and -2.1 kg and -1.6 kg for those with BMI ≥35 to 27, and -2.1 kg and -1.6 kg for those with BMI ≥35 to 27, and -2.1 kg and -1.6 kg for those with BMI ≥35 to 27, and -2.1 kg and -1.2 kg for those with BMI ≥35 to 27, and -2.2 kg for those with BMI ≥35 to 27, and -2.2 kg for those with BMI ≥35 to 27, and -2.2 kg for those with BMI ≥35 to 27, and -2.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥35 to 27, and -3.2 kg for those with BMI ≥27. The percentage of ABILFY-treated patients with ≥7% increase in baseline body weight was 30% for those with BMI ≥37. The percentage of ABILFY-treated patients with ≥7% increase in baseline body weight was 30% for those with BMI ≥27. The secondary significant baseline body weight was 30% for those with BMI ≥27. The secondary significant baseline body weight was 30% for those wit

ECG Changes: Pooled analysis of placebo-controlled trials in patients with schizophrenia or bipolar mania Treated with oral aripiprazole or in patients with agitation associated with schizophrenia or bipolar mania treated with oral aripiprazole or in patients with agitation associated with schizophrenia or bipolar mania treated with intramuscular aripiprazole injection, revealed no significant differences between aripiprazole and placebo of potentially important changes in EG parameters. Oral aripiprazole was associated with a median increase in heart rate of 5 beats per minute compared to a 1 beat per minute increase among placebo patients.

#### Adverse Events in Long-Term, Double-Blind, Placebo-Controlled Trials

The adverse events reported in a 26-week, double-blind trial comparing oral ABILIFY and placebo in patients with schizophrenia or bipolar mania were generally consistent with those reported in the short-term, placebo-controlled trials, except for a higher incidence of tremor (ABILIFY 8% vs placebo 2%).

#### Other Adverse Events Observed During the Premarketing Evaluation of Oral Aripiprazole

The following adverse events were reported with oral aripiprazole at multiple doses ≥2 mg/day in clinical trials (8456 patients, 5365 patient years of exposure). This list may not include events previously listed elsewhere in the labeling, those events for which a drug cause was remote, those terms which were so general as to be uninformative, and those events reported with an incidence of ≤0.05% and which did not general as to be uninformative, and those events reported with an incidence of ≤0.05% and which did not have a substantial probability of being acutely life-threatening. \*Fequent events\* are those occurring in at least 1/100 patients; \*infrequent events\* are those occurring in fewer than 1/1000 patients. \*Blood and Lymphatic System Disorders: \*infrequent\* anaemia, lymphadenopathy, leukopenia (including agranulocytosis, neutropenia); \*Rare\* leukocytosis, thrombocytopenia, idiopathic thrombocytopenia, pluntantia, sinus); \*Infrequent\* bradycardia, palpitations, cardiacradia (including ventricular, supraventricular, sinus); \*Infrequent\* bradycardia, palpitations, cardiacradialure (including congestive and acute), myocardial infarction, cardiac arrest, atrial fibrillation, atrioventricular block (including first degree and complete), extrasystoles (including ventricular and supraventricular), angina pectoris, cyanosis, bundle branch block (including left, right), myocardial ischaemia; \*Rare\* - atrial fibrillative, cardiomegaly, cardiomyopathy, cardiopulmonary failure. \*Ear and Labyrinth Disorders: Infrequent\* - ear pain, vertigo, tinnitus; \*Rare\* - deafness. \*Endocrae Disorders: \*Infrequent\* - conjunctivitis; \*Infrequent\* - eye redness, eye irritation, dry eye, blepharospasm, visual disturbance, eye pain, eye discharge, blepharitis, cataract, !acrimation increased; \*Rare\* - eyelid function disorder, eyelid deman, pyelid oedema, photophobid, dijolopia, eyelid ptosis, eye haemorrhage. \*Gastrointestinal\* \*\*Exercimation\* increased; \*Rare\* - eyelid function disorders.\*\* onjunctivitis; Infrequent — eye redness, eye irritation, dry eye, blepharospasm, visual disturbance, eye pain, eye discharge, blepharitis, cataract, lacrimation increased; Rare — eyelid function disorder, coulogyration, eyelid oedema, photophobia, diplopia, eyelld ptosis, eye haemornhage. Gastrointestinal Disorders: Frequent — loose stools; Infrequent — flatulence, dysphagia, gastroesophageal reflux disease, gastritis, haemornhoids, abdominal distansion, faecal incontinence, haematochezia, ginglival pain, rectal haemornhage, abdominal pain lower, oral pain, retching, faecaloma, gastrointestinal haemornhage, double pain, proceeding, ginglival pain, rectal haemornhage, abdominal pain lower, oral pain, retching, faecaloma, gastrointestinal haemornhage, disconsideration, paintender of the proceeding process of the process o

count increased, platelet count increased, red blood cell count decreased, white blood cell count decreased, white blood cells urine positive, bacteria urine identified, blood lactate dehydrogenase increased, blood potassium increased, neutrophil count decreased, urine output decreased, blood creatine phosphokinase MB increased, EGG signs of myocardial ischemia, electrocardiogram T-wave inversion, phosphokinase MB increased, ECG signs of myocardial ischemia, electrocardiogram T-wave inversion, heart rate decreased, tuberculin test positive, glucose urine present, glycosylated naemoglobin increased, glycosylated haemoglobin decreased, muscle enzyme Increased. Metabolism and Nutrition Disorders: Frequent - decreased appetite (including diet refusal, markedity reduced dietary intake), elderydration; Infrequent - anorexia, increased appetite, hypercholesterolaemia, hypokalaemia, hyperglycaemia, diabetes mellitus, hypoglycaemia, hyponatremia, diabetes mellitus non-insulin-dependent, hyperlighdaemia, obesity (including overweight), polydipsia; Rare - hypertrighyceridaemia, pout, hypermatraemia, weight fluctuation, diabetes mellitus inadequate control. Musculoskeletal and Connective Tissue Disorders: Frequent - musculoskeletal pain (including neck, jaw, best public accept flora greate flor chest wall, bone, buttock, groin, flank, musculoskeletal chest, pubic, and sacral), muscle rigidity, muscle cramp; Infrequent - muscle twitching, joint swelling, muscle spasms, muscle tightness, arthritis, osteoarthritis, muscular weakness, joint range of motion decreased, sensation of heaviness; Rare cramp; Intraquent - muscle twitching, joint swelling, muscle spasms, muscle tightness, arthritis, osteoarthritis, muscular weakness, joint range of motion decreased, sensation of heaviness; Rare-tendonitis, osteoporosis, trismus, arthropathy, bursitis, exostosis, night cramps, coccydynia, joint contracture, localised osteoarthritis, osteopenia, rhabdomyolysis, costochondritis, rheumatoid arthritis, torticollis. Revrous System Disorders: Frequent - lethargy, dyskinesia; Infraquent - disturbance in attention, parkinsonism, dystonia, drooling, cogwheel rigidity, dysarthria, paraesthesia, hypoaesthesia, loso of consciousness (including depressed level of consciousness), hypersomnia, psychomotor hyperacilvity, balance disorder, cerebrovascular accident, hypokinesia, tardive dyskinesia, memory impairment, amnesia, ataxia, dementia, hypotonia, burning sensation, dysquesia, restless leg syndrome, hypertonia, Parkinson's disease, akinesia, dysphasia, transient ischaemic attack, facial palsy, hemiparesis, mycolonus, sciatica; Rare - bradykinesia, coordination abnormal, cognitive disorder, syncope vasovagal, carpal tunnel syndrome, hypperflexiai, intention tremor, muscle contractions involuntary, sleep apnea syndrome, dementia Alzheimer's type, epilepsy, hyperreflexia, massication disorder, mental impairment, nerve compression, parkinsonian gait, torque paralysis, aphasia, choreoathetosis, formication, masked facies, neuralgia, paresthesia oral, parkinsonian rest tremor, cerebral haemorrhage, dizziness exertional, hyperaesthesia, haemorrhage intracranial, ischaemic stroke, judgment impaired, subarachnoid haemorrhage, Psychiatric Disorders: Frequent - schizophrenia (including schizoaffective disorder), depression (including depressive symptom), hallucination (including schizoaffective disorder), paranola, irritability, suicidal ideation, confusional state, aggression, mania, delusion (including persecutory, perception, somatic, and grandeur); Infrequent - tension, nervousness, nightmare, excitability, panic attack (includi social avoludin Jeralvouri, psycholitori retaraturi, suspinenia, bradyphrenia, derealisation, depersonalisation, monicidal ideation, tic, premature ejaculation, dysphemia, bradyphrenia, derealisation, depersonalisation, nenal failure (including acute and chronic), urinary hesitation, enuresis, nephrolithiasis, micturition urgency, polyuria; Rare – nocturia, proteinuria, glycosuria, calculus urinary, azotaemia. Reproductive System and Breast Disorders: Infrequent – recetite dysfunction, vaginal discharge, amenorrheae, vaginal haemorrhage, menstruation irregular, menorrhagia, premenstrual syndrome, testicular pain, genital pruritus female, ovarian cyst, benign prostatic hyperplasia, prostatitis; Rare – gynaecomastia, priapism (including spontaneous penile erection), breast pain, pelvic pain, epididymitis, galactorrhoea, uterine haemorrhage. Respiratory, Thoracic, and Mediastinal Disorders: Frequent – dyspnoea (including exertional); Infrequent – sinus congestion, rhinorrhoea, wheezing, epistaxis, asthma, hiccusp, productive cough, chronic obstructive airways disease (including exacerbated), rhinitis allergic, pneumonia aspiration, pulmonary congestion, sinus pain, respiratory distress, dry throat, hoarseness: Rare – bronchopneumopathy, haemortysis, respiratory arrest, sneezing, hypoxia, pulmonary embolism, pulmonary oedema (including acute), respiratory failure, brochospasm, nasal dryness, paranasal sinus hypersecretion, pharyngeal erythema, rhonchi, tonsillar hypertrophy, asphyxia, Mendelson's syndrome. Skin and Subcutaneous Tissue Disorders: Infrequent – hyperhydrosis, erythema, pruritis (including generalised), dry skin, decubitus ulcer, dermatitis (including generalised), dry skin, decubitus ulcer, dermatitis (including generalised), dry skin, decubitus ulcer, dermatitis (including acute), respiratory failure, prochospasm, assistantice, aceneform, exoliative, bullous, neurodermatitis), ecvlymosis, skin ulcer, acne, eczema, hyperkeratosis, swelling face, skin discoloration, photosensitivity reaction, skin inte sweats, rash erythematous, \*Rare - rash scaly, urticaria, rash maculopapular, rosacea, seborrhoea, periorbital oedema, rash vesicular. \*Vascular Disorders: Frequent - hypotension; \*Infrequent - hot flush (including flushing), haematoma, deep vein thrombosis, phlebitis; \*Rare - pallor, petechiae, varicose vein, circulatory collapse, haemorrhage, thrombophlebitis, shock.

#### Other Adverse Events Observed During the Premarketing Evaluation of Aripiprazole Injection

The following adverse events were reported with aripiprazole injection at doses ≥1 mg/day in clinical trials The following adverse events were reported with aripiprazole injection at doses ≥1 mg/day in clinical trials (749 patients). This list may not include events previously listed elsewhere in the labelling, those events for which a drug cause was remote, those terms which were so general as to be uninformative, and those events reported with an incidence of ≤0.05% and which did not have a substantial probability of being acutely life-threatening. Frequent events are those occurring in at least 1/100 patients; Infrequent events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. Far and Labyrinth Disorders: Infrequent - hyperacusis. General Disorders and Administration Site Conditions: Infrequent - injection is te stinging, abnormal feeling, injection site pruritus, injection site swelling, venipuncture site bruise. Infections and Infestations: Infrequent - bacteruria, urinary tract infection, urosepsis. Investigations: Infrequent - blood pressure abnormal, heart rate irregular, electrocardiogram T-wave abnormal. Psychiatric Disorders: Infrequent - hinetinoinal Self-injury. Respiratory, Thoracic, and Mediastinal Disorders: Infrequent - pharyngolaryngeal pain, nasal congestion. Vascular Disorders: Infrequent - blood pressure fluctuation.

Postintroduction Reports: Reported since market introduction and temporally (not necessarily causally) related to aripiprazole therapy: allergic reaction (eg, anaphylactic reaction, angioedema, laryngospasm, oropharyngeal spasm, pruritis, or urticaria), grand mal seizure, and jaundice.

DRUG ARUSE AND DEPENDENCE: Aripiprazole is not a controlled substance

Abuse and Dependence: Aripiprazole has not been systematically studied in humans for its potential for Adults and Department. Applicable has not been systematically source in mountains for its potential in dause, tolerance, or physical dependence. While the clinical trials did not reveal any tendency for any drugseeking behavior, it is not possible to predict on the basis of this limited experience the extent to which a CKNs-active drug will be missued, diverted, and/or abused once marketed. Patients should be evaluated carefully for a history of drug abuse and closely observed for signs of ABILIFY (aripiprazole) misuse or abuse.

carefully for a history of drug abuse and closely observed for signs of ABILIPY (antipiprazole) misuse of abuse. **OVERDOSAGE:** To cases of deliberate or accidental overdosage with oral ABILIPY alone or in combination with other substances were reported worldwide [44 cases with known outcome, 33 recovered without sequelae and one recovered with sequelae (mydriasis and feeling abnormal). Additionally, 10 of these cases were in children (age 12 and younger) involving oral anipiprazole ingestions up to 195 mg with no fatalities. The largest known acute ingestion was 1080 mg of oral aripiprazole (36 times maximum recommended daily dose) in a patient who fully recovered. Common adverse events (reported in at least 5% of all overdose cases) were vomitting, somnolence, and tremor. For more information on symptoms of wavefore save full Prescription Information. of overdose, see Full Prescribing Information.

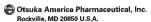
of overdose, see Full Prescribing Information.

Management of Overdosage: No specific information is available on the treatment of overdose with aripiprazole. An electrocardiogram should be obtained in case of overdosage and, if QTc interval prolongation is present, cardiac monitoring should be instituted. Otherwise, management of overdose should concentrate or supportive therapy, maintaining an adequate airway, oxygenation and ventilation, and management of symptoms. Close medical supervision and monitoring should continue until the patient recovers. Charcoal: the event of an overdose of ABILIFY, an early charcoal administration may be useful in partially preventing the absorption of aripiprazole. Administration of 50 g of activated charcoal, one hour after a single 15-mg oral dose of aripiprazole, decreased the mean AUC and Crimax of aripiprazole by 50%. Hemodialysis: Although there is no information on the effect of hemodialysis in treating an overdose with aripiprazole, emodialysis is unlikely to be useful in overdose management since aripiprazole is highly bound to plasma proteins.

Tablets manufactured by Otsuka Pharmaceutical Co., Ltd., Tokyo, 101-8535 Japan or Bristol-Myers Squibb

Tablets manufactured by Otsuka Pharmaceutical Co., Ltd., Tokyo, 101-8535 Japan or Bristol-Myers Squibb Company, Princeton, NJ 08543 USA Orally Disintegrating Tablets, Oral Solution and Injection manufactured by Bristol-Myers Squibb Company, Princeton, NJ 08543 USA Distributed and marketed by Otsuka America Pharmaceutical, Inc., Rockville, MD 20850 USA Marketed by Bristol-Myers Squibb Company, Princeton, NJ 08543 USA US Patent Nos: 5,006,528; 6,977,257; and 7,115,587

Bristol-Myers Squibb Company Princeton, NJ 08543 U.S.A.



D6-B0001C-10-06 Based on FPI Revised October 2006 © 2007, Otsuka Pharmaceutical Co., Ltd., Tokyo, 101-8535 Japan

# New Orleans

#### OCTOBER 11-14, 2007 \* NEW ORLEANS MARRIOTT



Save the date now to attend the American Psychiatric Association's 59th Institute on Psychiatric Services.

APA's leading educational conference on clinical issues and community mental health to meet the service needs of people with severe mental illness. Check out our website at www.psych.org/IPS2007.

This four-day event will feature more than 100 exhibits that complement the educational program, popular networking events, and over 200 expertly-led educational sessions on topics including: Violence. Trauma, and Victimization: Social and Community Psychiatry; Psychopharmacology: Resident and Medical Student Concerns; Disorders: Cross-Cultural and Minority Issues; Psychiatric Administration and Services: Treatment Techniques and Outcome Studies; Cognitive Disorders; Health Service Research; Mood Disorders; Schizophrenia and Other Psychotic Disorders; and much more...

#### Preliminary Program

The Preliminary Program, which includes registration, housing, and travel information will be available in May at www.psych.org/IPS2007 or call 1-888-35-PSYCH and request a copy. Online registration will begin on June 1.

For more information, please contact: American Psychiatric Association 1000 Wilson Bbd., Suite 1825 Arlington, VA 22209-3901 Phone: 1-888-35-PSYCH or (703) 907-7300 Fax: (703) 907-1090 E-mail: apa@psych.org Web: www.psych.org/IPS2007

## Osler Institute 119th to 125th Psychiatry Review Courses

approved for AMA/PRA category 1 credit

#### for Written Exams

June 4-8 – Indianapolis September 5-9 – Milwaukee

#### for Oral Boards

Optional didactic day & 3-day mock orals

June 4 & 5-7 – Indianapolis

July 6 & 7-9 – Chicago

September 5 & 6-8 – Milwaukee

January 14 & 15-17 – Portland, OR

## for Child and Adolescent

November 13-15, 2007 – Kansas City

New - Best of Psych Audio

Call Today: (800) 356-7537 www.osler.org/y75a

## **CALL FOR POSTERS**

# AMERICAN PSYCHIATRIC ASSOCIATION



Institute on Psychiatric Services

APA's Leading Educational Conference on Public and Community Psychiatry 59th Institute on Psychiatric Services

October 11-14, 2007 New Orleans, LA

Submit your Poster online at www.psych.org/IPS2007. For more information call (703) 907-7377. The Poster submission deadline is June 4, 2007.





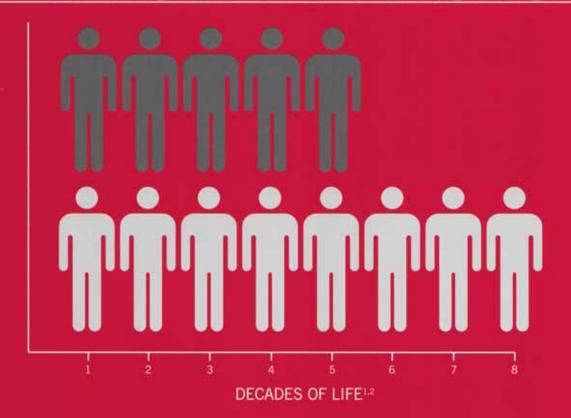
Our best minds are focused on new treatments in psychiatry.

Knowledge transforms, illuminates, and unlocks the door to the science of mental illness. Over the past 30 years, UPMC's Western Psychiatric Institute and Clinic (WPIC) has set the standard for innovative clinical care including pioneering short- and long-term treatment approaches. We have incorporated both pharmacologic and psychotherapeutic regimens that are standards of care in behavioral health today. As the number one recipient of federal psychiatric research funding and with a history of clinical advances, our psychiatrists' findings have informed their colleagues' practices across the country. WPIC clinicians and researchers have shed light on mental illness across the lifespan and have created new tools for managing pervasive developmental disorders, addictions, mood and anxiety disorders, geriatric psychiatry, and eating disorders. Our specialized clinical programs tackle the most complex cases, with teams who specialize in psychiatry, psychopharmacology, clinical psychology, and neurology assessing and crafting complete, individualized procedure plans. WPIC psychiatrists provide treatment based on current scientific advances so those with mental illness can live healthier and more productive lives.



Affiliated with the **University of Pittsburgh School of Medicine**, UPMC is ranked among the nation's best hospitals by *U.S. News & World Report.*www.upmc.com | 1-800-533-UPMC

## KNOWTHEFACTS



People with severe mental illness die up to 3 decades earlier, on average, than the general population.<sup>1,2</sup>

Be aware.
Screen and monitor your patients.
Make a difference.



## **KNOWTHEFACTS**

Heart disease is a leading cause of death in patients with severe mental illness.<sup>1,2</sup>

## Major risk factors include<sup>3</sup>

- Weight gain
- Diabetes
- High blood pressure
- High cholesterol
- Smoking

Be aware.
Screen and monitor your patients.
Make a difference.



References: 1. Colton CW, Manderscheid RW, Congruencies in increased mortality rates, years of potential life lost, and causes of death among public mental health clients in eight states. Prev Chronic Dis (serial online). 2006 April;3(2). Available at: http://www.cdc.gov/pcd/issues/2006/apri05\_0180.htm. Accessed December 7, 2006. 2. Miller BJ, Paschall CB III, Svendsen DP. Mortality and medical comorbidity among patients with serious mental illness. Psychiatr Serv. 2006;57:1482-1487.

3. Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III) Executive Summary. Bethesda, Md: National Institutes of Health, National Heart, Lung, and Blood Institute; 2001. NIH publication 01-3670.





#### IMPORTANT TREATMENT CONSIDERATION

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) placebocontrolled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MDD), obsessive-compulsive disorder (OCD), 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 suicides occurred in these trials.

 EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs). EFFEXOR XR should not be used in combination with an MAOI or within at least 14 days of discontinuing treatment with an MAOI; at least

7 days should be allowed after stopping EFFEXOR XR before starting an MAOI.

# Break the Cycle

## with EFFEXOR XR

- In an open-label study of patients who failed previous antidepressant treatment, nearly 60% achieved remission when changed to EFFEXOR XR<sup>1</sup>
- In the **PREVENT**™ study, the probability of preventing a new episode of depression was **92%** with EFFEXOR XR in maintenance year 2 vs. 55% with placebo<sup>2\*</sup>
- More than 12 years of clinical experience and over 20 million patients treated with EFFEXOR/EFFEXOR XR3+
- Adult and pediatric patients with MDD can experience worsening of their depression and/or the emergence of suicidal ideation and behavior, whether or not they are taking antidepressants. Patients treated with antidepressants 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.
- Mydnasis has been reported in association with venlafaxine; therefore, patients with raised intraocular pressure or those at risk of acute narrowangle 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. See the Precautions section of the Prescribing Information.
- The most common adverse events reported in EFFEXOR XR short-term placebo-controlled MDD, 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.

\*For study design, please see references or visit PreventStudy.com.
\*Based on IMS National Prescription Audit and SDI longitudinal prescription data.



The change they deserve.

## 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

### Diglogues

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 change they deserve.

References: 1. Baldomero EB, Ubago NG, Cercós CL, et al. Venlafaure extended release versus conventional antidepressants in the remission of depressive disorders after previous antidepressant failure. ARGOS study Depress Anviery. 2005; 22:68-76. 2. Data on file, Wyeth Pharmaceutocals Inc. A randomized, multicenter, double-blind, placebo-controlled study (N=1,096 adults). This trial included an acute, a continuation, and 2 one-year maintenance phases. At the start of each of the 2 maintenance phases, EFFEXOR XR responders were re-randomized to either EFFEXOR XR or placebo. The primary end point was time to recurrence of depression. 3. Data on file, Wyeth Pharmaceuticals inc.

Please see brief summary of Prescribing Information on adjacent pages.

Wyeth\* © 2007, Wyeth Pharmaceuticals Inc., Philadelphia, PA 19101 122873-01 Ianuary 2007.



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-computative disorder (0CD), 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 to 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 suicides occurred in these trials.

suicides occurred in these trials.

CONTRANDICATIONS: Hypersensitivity to ventatione hydrochloride or to any excipients in the formulation. Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs): WARNINGS: Clinical Worsening and Suicide Risk.—Patients with major depressive disorder (MIO), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking and indepressant medications, and this risk may persist until significant remission occurs. There has been a long-standing concern that antidepressants may have a rich inducing worsening of depression and the emergence of suicidality in certain patients. Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and addiscents with MOD and other psychiatric disorders. It is unknown whether the suicidality risk extends to adults. All pediatric patients being treated with antidepressants for any indication should be observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Adults with MOD or comorbid depression in the setting of other psychiatric diseases being treated with antidepressants should be observed similarly for clinical worsening and suicidality, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Anvioty, apitation, panic attacks, insomenia, initiality, hostility, aggressiveness, impulsivity, akathisia (psychomotor restissessess), hypomania, and mania have been reported in adult and pediatric patients being breated with antidepressants for MOD and other indications, both psycresiveness. treated with antidepresants should be observed similarly for clinical worsening and saicidality especially during the initial tew months of a course of drug therapy, or at times of dose changes, either increases or decreases. Associty, aglation, panic, attacks, insomeia, intability, notifity, aggressiveness, impulsively, adultation predictive primerts being theated with actidepressants for MDD and other indications, both psychiatric and conspicialistic. Although a causel files between the mempers of activity symptoms and either the vorsaming of conspicialistic and interest procursors to immerging suicidality. Consideration should be given to changing the herapeutic regimen, including goosably discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to be overseming depression or suicidality, speciality if these symptoms are severe, acroupt in insert, or were not part of the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication about the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication and contribution of pediatric patients being treated with a mildepressants for MDD or other indications, both psychiatric and enongrephicatric, should be activated and activate need to a signification, intributility, unassual changes in behavior, and the other symptoms described above, as well as the emergence of sigilatation, irritability, unassual changes in behavior, and the other symptoms described above, as well as the enterprine of suicidality, and to report suice symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for Efforce XR should be written and caregivers and caregivers and caregivers and caregivers and caregivers. Prescriptions of the symptoms described above representations and providers and caregivers and caregivers and caregivers. Pr

Effexor XR (8%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 1.0% in MDD studies. Treatment-emergent anorexia was nore commonly reported for Effexor XR (8%) than placebo (2%) patients in GAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (20%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 12 weeks in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 12 weeks in SAD studies. Treatment-emergent anorexia was 0.9% for up to 12 weeks in SAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for more commonly reported for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for annexia was 0.4% for Effexor XR patients in 12-week PD studies. **Potation: Patients**: Decreased appetite was seen in pediatric patients receiving Effexor XR. In GAD and MDD trials, 10% of Effexor XR patients aged 6-17 for up to 8 weeks and 3% of placebo patients had treatment-emergent annexia. None of the patients receiving Effexor XR discontinued for annexia or weight loss. In the placebo-controlled trial for SAD, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with Effexor XR and placebo, respectively, reported treatment-emergent annexia (decreased appetite). The discontinuation rates for annexia were 0.7% and 0.0% for patients receiving effexor XR and placebo, respectively; the discontinuation rates for weight loss were 0.7% for patients receiving effexor XR and placebo, respectively the discontinuation rates for weight loss were 0.7% for patients receiving effects on Annual Placebo. Activation of Manial-Mypomania: Mania or hypomania has occurred during short-term depression and PD studies. As with all drugs effective in the treatment of MDD, Effexor XR should be used cautiously in patients with a bistory of mania. \*\*Mypomania\*\* Hypomania\*\* Expressional and PD.\*\* Expressional Placebos Activities in promose secretion.\*\* studies. As with all drugs effective in the treatment of MIDD, Effexor XR should be used cautiously in patients with a history of mani. Hyponatremia: Hyponatremia and/or the syndrome of inappropriate antiduretic hormone secretion (SIADH) may occur with venlafaxine. Consider this in patients who are volume-depleted, elderly, or taking diuretics. Seizures: In all premarketing depression trials with Effexor, seizures were reported in 0.3% of venlafaxine patients. Use cautiously in patients with a history of seizures. Discontinue in any patient who develops seizures. Abnormal Bleeding. Abnormal Bleeding (most commonly ecclymosis) has been reported. Serum Cholesterol Elevation: Clinically relevant increases in serum cholesterol were seen in 5.3% of venlafaxine patients and 0.0% of placebo patients treated for at least 3 months in trials. Consider measurement of serum cholesterol levels during long-term treatment. Use in Patients With Concomitant Illness: Use Effexor XR cautiously in patients with diseases or conditions that could affect hemodynamic responses or metabolism. Venlafaxine has not been evaluated in patients with recent history of vincreases in 10 interval (OTc) have been reported in clinical studies. Exercise caution in patients whose underlying medical conditions might be compromised by increases in theart rate. In patients with trenal impaliment or crinfosis of the liver, the clearances of venlafaxine and its active metabolities were decreased, prolonging the elimination half-lives. A lover dose may be necessary, use with caution in such patients. with recent history of wir of unstage heart disease. Increases in U interval (U ic) nave been reported in clinical studies becreased, principal in the compromised by increases in heart rate. In patients with renal impairment or cirrhosis of the liver, the clearances of venlafaxine and its active metabolites were decreased, prolonging the elimination half-lives. A lower dose may be necessary, use with caution in such patients. Information for Patients—Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with Effeor XR and should counsel them in its appropriate use. A patient Medication Guide About Using Antidepressants in Children and Teenagers is available for Effexor XR. The prescriber or health professional should instruct patients, their families, and their caregivers to have 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 ext of the Medication Guide is available at www.effexory.com or in the approved prescribing information. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking Effexor XI. Clinical Worsening and Suicide Risk, especially those seen early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers patients should be advised to observe for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are reasonably sure that venlafaxine does not adversely affect their abilities; and caregivers patients should be advised to observe for the emergence of such symptoms and indicate a need for very close monitoring automobiles, until they are reasonably sure that venlafaxine does not adversely af CYP2A4, the primary metabolizing enzymes for ventafaxine has not been studied. Use caution if therapy includes CYP2A6 and primary metabolizing enzymes for ventafaxine and decrease concentrations of object to dosage adjustment is required when ventafaxine is coadministered with a CYP2B6 inhibitor. Concomitant use of ventafaxine with drug treatment(s) that potentially inhibits both CYP2B6 and CYP3A4, the primary metabolizing enzymes for ventafaxine, has not been studied. Use caution if therapy includes CYP2D6 inhibitor. Concomitant use of venlafaxine with drug treatment(s) that potentially inhibits both CYP2D6 and CYP3A4, the primary metabolizing enzymes for venlafaxine, has not been studied. Use caution if therapy includes enablating and any agent(s) that produces simultaneous inhibition of these two enzyme systems. *Drugs Metabolized by Cytochrome P450 Isoenzymes*: Venlafaxine is a relatively weak inhibitor of CYP2D6. Venlafaxine did not inhibit CYP1A2 and CYP3A4. CYP2G0 (in vitro), or CYP2C19. *Impramine*: Venlafaxine did not affect the PK of imipramine and 2-OH-imipramine. Pulcor GYP2D6 in vitro) or CYP2D6 mediatariane did not affect the PK of venlafaxine. The 2-OH-desipramine AUCs increased by 2.5-4.5 fold. Imipramine did not affect the PK of venlafaxine. Pk of Venlafaxine slightly inhibited the CYP2D6-mediated metabolism of risperidone to its active metabolite, 9-hydroxyrisperidone, esculting in a ~32% increase in risperidone AUC. Venlafaxine coadministration did not inhibit CYP3A4 in vitro and in vivo. *Indinavir*: In a study of 9 healthy volunteers, venlafaxine administration resulted in a 28% decrease in the flavor of a single dose of indinavir and a 36% decrease in indinavir (ing. Indinavir did not affect the PK of venlafaxine and ODV. CYP1A2: Venlafaxine did not inhibit CYP2A9 in vitro and in vivo. *Indinavir*: In a study of 9 healthy volunteers, venlafaxine administration resulted in a 28% decrease in the flavor of a single ose of indinavir and a 36% decrease in indinavir (ing. Indinavir did not affect the PK of venlafaxine and ODV. CYP1A2: Venlafaxine did not inhibit CYP2A9 in vitro and in vivo. *CYP2C9*: Penlafaxine did not inhibit CYP2A9 in vitro In vivo, venlafaxine 5 mp by mouth every 12 hours did not affect the PK of single 50-mg dose of tolbutamide or the CYP2C9-mediated formation of 4-hydroxy-tolbutamide. CYP2C9: Venlafaxine did not inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see *Diazepam above*). *MD09: Drugo*: See CONTRAINDICATIONS and WARNINGS. CMS-Ac Nonteratogenic Effects: Neonates exposed to Effecor XR late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately upon delivery. Reports include respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hyperfoxia, hyperflexia, tremor, filteriness, irritability, and constant crying. This is consistent with a direct toxic effect of SNRs or a drug discondinuation syndrome. In some cases, it is consistent with serotonin syndrome. When treating a pregnant woman with Effexor XR during the third trimester, carefully consider the potential risks and benefits of treatment and consider tapering Effexor XR in the third trimester. Labor, Delivery, Nursing—The effect on labor and delivery in humans is unknown. Venladavine and ODV have been reported to be excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from Effexor XR, and decision should be made whether to discontine nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use—Safety and effectiveness in the pediatric population have not been established (see DX WARNING and WARNINGS at WARNING and WARNINGS at Clinical Worsening and Suicide Risk). No studies have adequately assessed the impact of Effexor XR on growth, development, and maturation of children and adolescents. Studies suggest Effexor XR may adversely affect weight and height (see PRECAUTIONS-General, Changes in Height). and Changes in Weight). Should the decision be made to treat a pediatric patient with Effexor XR, regular monitoring of weight and height is recommended during treatment, particularly if long term. The safety of Effexor XR for pediatric patients has not been assessed for chronic treatment >6 months. In studies in patients aged 6-17, blood pressure

and cholesterol increases considered to be clinically relevant were similar to that observed in adult patients. The and choiseard interesses considered to be clinically relevant were similar to that observed in adult patients. The precautions for adults apply to pediatric patients. Geriatric Use—No overall differences in enfectiveness or safety were observed between geriatric and younger patients. Greater sensitivity of some older individuals cannot be ruled out. Hyponatremia and SIADH have been reported, usually in the elderly. ADVERSE REACTIONS. Associated with Discontinuation of Treatment—The most common events leading to discontinuation in MDD, GAD, SAD, and PD trials included nausea, anorexia, anxiety, impotence, dry mouth, dizziness, insonnia, somnolence, hypertension, Trials included nausea, anorexia, anxiety, impotence, dry mouth, dizziness, insomnia, somnolence, hypertension, diarrhea, paresthesia, tremor, abnormal (mostly blurred) vision, abnormal (mostly delayed) ejaculation, asthenia, diarrhea, paresthesia, tremor, abnormal (mostly blurred) vision, abnormal (mostly delayed) ejaculation, asthenia, wornting, nervousness, headache, vasodilatation, thinking abnormal, decreased libido, and sweating. Commonly Observed Adverse Events in Controlled Clinical Trials for MDD, 6AD, SAD, and PD—Body as a Whole: asthenia, headache, file syndrome, accidental injury, abdominal pain. Cardiovascular, vasodilatation, hypertension, palpitation. Digestive: nausea, constipation, anorexia, vomiting, flatulence, diarrhea, eructation. Metabolic/Nutritional: weight loss. Nervous System: dizpiness, somnolence, insommia, dry mouth, nervousness, abnormal ferams, tremor, depression, hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. Bespiratory System: pharyngitis, yawn, sinustis. Skin: sweating, Special Esenses: abnormal vision. Ungential System: abnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. Wital Sign Changes: Effexor XR was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of about 2 beats/min in depression. Abportension, Laboratory Changes: Clinically relevant increases in serum cholesterol were noted in Effexor XR clinical trials. Increases were duration dependent over the study period and tended to be greater with higher doses. Other Events Observed During the Premarketing Evaluation of Effexor and Effexor XR—N=6,670. "Frequent"=events occurring in at least 1/100 patients; "rate"-frequent thindrawal syndrone, Rare: appendictis, bacterenia, carcinoma, cellulitis. Cardiovascular system: Frequent migraine, postural hypotension, tachycardia; Infrequent angina pectoris. cellulitis. <u>Cardiovascular system</u> - Frequent: migraine, postural hypotension, tachycardia, infrequent: angina pectoris, arrhythmia, extrasystolies, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombophlebilis: Rare: aortic aneurysm, arterits, first-degree atrioventricular block, bigeminy, bundle branch block, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, hematoma, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardia linfarct, pallor, sinus arrhythmia. Digestive system - Frequent: increased appetite; Infrequent: bruxism, collitis, dysphagia, tongue edema, esophagitis, agastrisis, gastroenteritis, gastrointestinal uloer, gingivitis, glossitis, rectal hemorrhage, hemorrhoids, melena, oral moniliasis, stomatitis, mouth ulceration; Rare: abdominal distension, biliary pain, chellitis, hemormoids, melena, oral moniliasis, stomatitis, mouth ulceration; Hare: abdominal distension, bilariy pain, chellifis, choletihiasis, choletihiasis, choletihiasis, choletihiasis, choletihiasis, cosphageal and pasams, duodenitis, hematemesis, gastrosophageal reflux disease, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, leidis, jaundice, intestinal obstruction, liver tendemess, parotitis, periodontitis, procitis, rectal disorder, salivary gland enlargement, increased salivation, soft stook, tongue discoloration. Endocrine system - Rare: galactorrhoea, gotter, hyperthyroidism, hypothyroidism, thyroid nodule, thyroidists. Hemici and lymphatic system - Frequent: ecchyrnosis; Infrequent: anemia, leukocytosis, leukopenia, lymphadenopathy, thrombocythemia; Rare: basophilia, bleeding time increased, cyanosis, eosinophilia, lymphocytosis, multiple myeloma, purpura, thrombocytopenia. Metabolic and nutritional - Frequent: edema, weight agin; Infrequent: alkaline phosphatase increased, dehydration, hypercholesteremia, hypoglycemia, hypokalemia, SSOT increased, SGPT increased, this properties of the pating aboremal hemochymatosis. gain; Infrequent: alkaline phosphatase increased, dehydration, hypercholesteremia, hyperglycemia, hyperglycemia, hyposlopiemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcimuria, hyperkalemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcimuria, hypertralemia, hyperphosphatemia, hyp ruydraissi, staste perversion; Infrequent: conjunctivitis, diplopia, dry eyes, eye pain, hyperacusis, ottis media, parosmia, photophobia, taste loss, visual field defect; Rare: blepharitis, cataract, chromatopsia, conjunctival edema, comea lesion, deafreess, exophthalmos, eye hemorrhage, ducoma, refinal hemorrhage, subconjunctival hemorrhage, lexeratiis, labyrinthitis, miosis, papiliedema, decreased pupillary reflex, otitis externa, scleritis, uveitis, lemorrhage, keratitis, labyrinthitis, miosis, papiliedema, decreased pupillary reflex, otitis externa, scleritis, uveitis. Urogenizis lastesses requested prostate, and prostate irritability, urintability, urintability compared to that observed with SSRI antidepressant products, but lower than that for tricyclic antidepressants. Epidemiological studies have shown that venlafaxine-treated patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the toxicity of venlafaxine in overdosage as opposed to some characteristic(s) of venlafaxine-treated attributed to the toxicity of ventataxine in overdosage as opposed to some characteristics) of ventataxine-treated patients is not clear. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for ventilataxine are known. In managing overdosage, consider the possibility of multiple drug involvement. Consider contacting a poison control center for additional information on the treatment of overdosa. Jeden of the provincians' best for certified noison control center for additional information on the possibility of multiple orug involvement. Consider contacting a poison control center for additional information on the treatment of overdose. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference® (PDR). **DOSAGE AND ADMINISTRATION:** Consult full prescribing information for dosing instructions. **Switching Patients to or From an MADI**—At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with Effexor XR. At least 7 days should be allowed after stopping Effexor XR before starting an MAOI (see **CONTRAINDICATIONS** and **WARNINGS**). This brief summary is based on Effexor XR Prescribing Information W10404C025, revised August 2006.



Wyeth® © 2007, Wyeth Pharmaceuticals Inc., Philadelphia, PA 19101

## COME TO THE BEAUTIFUL SHENANDOAH VALLEY (IN VIRGINIA)

Northwestern Community Services, a community based behavioral health system, has immediate openings for BE/BC psychiatrists. We provide a wide range of Mental Health, Mental Retardation, and Substance Abuse Services in a five county, rural area. You will find excellent clinical support and administrative staff to work with. You will also find an exceptional team of psychiatrists to work with, both in our system and also in the private sector. We are most fortunate to also have an excellent psychiatric nursing staff. We offer a flexible schedule as well as an excellent benefit package including state retirement, independent investments, medical, dental, and a flexible reimbursement plan.

The positions we are recruiting for are newly established and we have psychiatrists who have been with our organization in excess of 25 years, thereby demonstrating the stability of our behavioral health system. The salary for these positions is negotiable.

Even though we are located in the beautiful Shenandoah Valley, we are within an hour's drive of major metropolitan areas.

#### NO CALL NO EVENINGS NO ADMITTING

Please contact:

Mr. Millard F. Hall, Jr., Chief Executive Officer (540) 636-4250, extension 3256 or bhall@nwcsb.com

## WORKING TOGETHER. MAKING A DIFFERENCE.

Iowa Health Physicians, the state's largest physician group, is searching for a **BE/BC Adult Psychiatrist** to join a highly respected group in Des Moines, IA.

#### **Practice Highlights**

- Located on the campus of Iowa Lutheran Hospital, the largest private hospital-based mental health facility in the state
- Inpatient and outpatient responsibilities.
- A growing community, in need of an additional Psychiatrist.
- Teaching opportunities available.
- · Call schedule 1:4.

#### **Organization Description**

- Iowa Health Physicians is a non-profit 250-member physician group.
- We pride ourselves on providing the highest quality patient care with innovative ways of approaching the health care delivery system.
- · Highly competitive salary and compensation plan.

For more information please contact: Jessica Meisner at (888) 343-4912. To expedite consideration, please email your CV to meisnejj@ihs.org or fax to (319) 739-2750.



#### Partner with a Magnet Hospital in Wausau, Wisconsin



BC/BE Adult Psychiatrist needed for 50/50 Inpatient and Outpatient. Call shared with 6 local psychiatrists including a Medical Director of 11 bed inpatient unit at Aspirus Wausau Hospital. Work with a great team of young vibrant psychiatrists. There is a great potential for program growth and development with a focus on expanded community action. Excellent compensation package with outstanding benefits.

4 seasons of family fun await you. In your backyard you will find fishing, hunting, water sports and much more. For the indoor type we offer shopping, art museum, visual arts center and music conservatory, just to name a few.

Please contact Jamie Sitko today at 800-792-8728 of fax cv to 715-847-2317. Email: jamiesi@aspirus.org or visit www.aspirus.org.

## PSYCHIATRIST

The Louis A. Johnson VA Medical Center, Clarksburg, WV, is seeking an inpatient/outpatient staff psychiatrist. Board certified preferred, board eligible required, specialty of psychiatry. Requirements include MD or DO degree, successful completion of a residency program, and licensed to practice medicine in any state of the United States.

US CITIZEN PREFERRED.

MALPRACTICE INSURANCE PROVIDED.

EXCELLENT BENEFITS PACKAGE.

Interested candidates may view the vacancy announcement at *www.usajobs.opm.gov*.

## Instructor/Assistant/Associate Professor Position in Psychiatry American University of Beirut Faculty of Medicine and Medical Center, Beirut, Lebanon

We are seeking at the Faculty of Medicine and Medical Center of the American University of Beirut a full-time academic Adult Psychiatrist whose responsibilities include inpatient and outpatient care, resident supervision, and teaching medical students. Opportunities for clinical and basic research are available. The psychiatrist is expected to play a leadership role in the research and clinical operation of a new service that includes psychiatrists, clinical psychologists, psychiatric nursing. Candidates should be Board-Certified or eligible in General Psychiatry and have established academic and administrative credentials. Successful candidates will be appointed at the appropriate academic rank and track.

We are moving to a newly refurbished facility. Many opportunities for collaboration with the framework of the Abu-Haydar Neuroscience Institute exist with physician-scientists and clinicians from adult/child neurology, neurosurgery and psychiatry.

Fluency in both English and Arabic is a requirement.

To apply please send a cover letter, CV and names of three referees, no later than June 30, 2007 to:

Rose Mary Boustany, MD, Chairperson Abu-Haydar Neuroscience Institute and Acting Chairperson



American University of Beirut P.O.Box 11-0236 - Riad El-Solh/Beirut 1107-2020, Lebanon E-mail submission is also encouraged at: rb50@aub.edu.lb

AUB is an affirmative action institution and an equal opportunity employer.

Salt River Pima-Maricopa Indian Community

#### **Psychiatrist**

\$139,318 - \$208,978/year Open Until Filled

The Salt River Pima-Maricopa Indian Community, located in Scottsdale, Arizona, is seeking a physician specialist psychiatrist to provide direct and indirect services for our community. Duties will include direct mental health and psychiatric evaluation and care, consultation and training, system development and associated administrative duties.

The position requires an MD from an accredited medical school and board certification in general psychiatry from the American Board of Psychiatry and Neurology and at least 5 years full-time experience practicing psychiatric medicine. Candidates must also possess current Drug Enforcement Agency (DEA) registration and a license to practice medicine in the State of Arizona. Board certification in child psychiatry and adult psychiatry from the American Board of Psychiatry and Neurology preferred. Experience working in Native American or Alaskan Native communities and experience in building systems of care preferred.

The Salt River Pima-Maricopa Indian Community offers a rich benefits package with too much to mention: Health Insurance, Prescription Drug Coverage, Vision Care, Dental, Paid Life, Employee Assistance Program, 401(k) plan, Accrue 15 Paid Annual and 15 Sick Days your first year, 13 recognized holidays and more!

#### Apply Today!

To be considered for this position, please apply online at www.srpmicjobs.com. Or submit your resume and completed SRPMIC application to: **SRPMIC**, **HR Dept.**, **10,005 E. Osborn Road, Scottsdale, AZ 85256**. Please call 480.850.8096 for more details. EOE. Native American Preference Applies.

www.srpmicjobs.com

#### **FEDERAL BUREAU OF PRISONS**

Discover a Unique Career

**FMC Devens Career Opportunities** - The Federal Medical Center at Devens, MA., has **2 openings** in the Psychiatry Department. A **Chief Psychiatrist** whose responsibilities include providing leadership to staff psychiatrists on professional issues; defining psychiatry programs within agency guidelines, utilizing evaluation standards, clinical practice guidelines, and performance measures and a **Staff Psychiatrist** whose duties include maintaining and developing program mission goals and objectives for psychiatry that are defined by the Bureau of Prisons, providing guidance on maintaining court ordered studies, forensic evaluations and civil commitment.

**Excellent Benefits** - Health and life insurance, sick and annual/vacation leave, plus 10 paid holidays per year, continuing education funds, Federal Law Enforcement Retirement Plan, and a Thrift Savings plan (similar to 401K).

**Career Pathways** - Work as a civil service employee for the Federal Bureau of Prisons, or as a Commissioned Officer in the U.S. Public Health Service Commissioned Corp.

YOU can have a significant role in the health of the nation by delivering quality psychiatric care within a federal health care facility.

For additional information, please contact:

Federal Medical Center
Attn: Charleston Iwuagwu or Michele Wilson
42 Patton Rd
Devens, MA 01432
Phone: 978-796-1502 or 978-796-1153
ciwuagwu@bop.gov or mmwilson@bop.gov

The Federal Bureau of Prisons is an Equal Opportunity Employer

#### NAPA, CALIFORNIA

#### Napa State Hospital and The University of California, Davis

Napa State Hospital, in the heart of the wine country just north of San Francisco, in conjunction with the UC Davis, Department of Psychiatry, is inviting applications for Staff Psychiatrist positions.

Our hospital has been enlarging its Forensic Program and needs psychiatrists with a desire to serve the chronically and severely mentally ill. We are a large psychiatric teaching hospital with congenial staff, onsite CME, a research program and competitive salary and benefits.

Our collaboration with UC Davis includes consultation, forensic residents on site and joint educational presentations. UC Davis volunteer faculty positions are available to those meeting requirements.

New salaries announced:
Maximum will be up to \$242,000 per year
(meeting qualifications)

For more information, send a CV to: Jeffrey Zwerin, D.O., Medical Director 2100 Napa-Vallejo Hwy Napa, CA 94558

- call 707-253-5434
- email <jzwerin@dmhnsh.state.ca.us>We are an equal opportunity employer

#### New Hampshire Hospital Medical Director

**DARTMOUTH MEDICAL SCHOOL.** The Department of Psychiatry is seeking a senior faculty member to serve as Medical Director of New Hampshire Hospital, in Concord, NH.

New Hampshire Hospital (NHH) provides acute and chronic hospital services for citizens of New Hampshire. The hospital first opened in 1842; its 230 acute care beds are housed in a beautiful 17 year-old facility. Through a longstanding successful collaboration between the State of New Hampshire and the Department of Psychiatry at Dartmouth, the hospital provides outstanding clinical services, is a sought-after teaching and training site, and has partnered with research groups to improve targeted aspects of care and to build new knowledge.

The NHH Medical Director will serve as the chief clinical officer of New Hampshire Hospital. The NHH Medical Director is part of the Senior Leadership of the Department of Psychiatry and will work closely with the Chair to lead the Department and to further extend the established state-academic partnership. The role will include supporting and facilitating excellent clinical care, supporting New Hampshire Hospital's function as an outstanding teaching and training site, and facilitating research activities that serve the mission of both New Hampshire Hospital and the Department.

The ideal candidate will have a passion for public sector care, a patient-centered clinical orientation, excellent clinical leadership skills, sound interpersonal skills, administrative experience, and a strong academic background. The candidate must be a board certified psychiatrist.

Curriculum vitae and three letters of reference should be sent to:

Alan I. Green, M.D., Raymond Sobel Professor and Chairman Department of Psychiatry, Dartmouth-Hitchcock Medical Center I Medical Center Drive, Lebanon, NH 03756

Dartmouth College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.



The MIND Institute, located in Albuquerque, New Mexico, is part of a national science network committed to expanding the boundaries of neuroscience research, leading to a better understanding of human behavior and discovering new approaches to the diagnosis and treatment of mental illness and other brain disorders.

We are looking for both junior and senior research scientists and clinicians to join our organization with expertise in schizophrenia and psychosis, addiction and antisocial disorders, and both normal learning and learning in neurodevelopmental disorders. Candidates should have experience with neuroscience imaging technologies, clinical mental health experience, and strong organizational skills. M.D. or Ph.D. required.

Our research programs employ a variety of imaging methods including structural MRI, functional MRI, spectroscopy, diffusion tensor imaging, electro- and magneto-encephalography, as well as genetic, neuropsychological and psychiatric assessments. The MIND has recently obtained the first mobile MRI dedicated to performing brain imaging research in inmates, warfighters and other remote populations. Along with developing new technologies to reduce learning time and increase retention, we are also pursuing innovative methods of data-driven analysis, including ICA and Bayesian networks. We collaborate closely with MIND Research Network partners at Sandia and Los Alamos National Laboratories, the University of New Mexico, Harvard/MIT/ Massachusetts General Hospital and the University of Minnesota.

For more information about the MIND Institute, as well as a complete description of the opportunities available, please visit our website at:

www.themindinstitute.org

The MIND Institute is a 501(c)3 independent, non-profit organization and is an equal opportunity employer.

#### **PSYCHIATRISTS**

The Department of Veterans Affairs, Central Texas Veterans Health Care System (CTVHCS), is accepting applications for several positions for board-certified Psychiatrists at Temple and Waco, Texas. CTVHCS is affiliated with the Texas A&M University Health Science Center. Applicants with interest in teaching and research will be given preference. CTVHCS offers competitive salaries and excellent benefits.

Applicants are required to have expertise in treatment of at least one of the following patient populations: the seriously mentally ill, PTSD or provision of mental health in primary care clinics.

In addition to its close proximity to the metropolitan Austin area famous for its live entertainment, Central Texas offers affordable housing, excellent schools, one of the lowest costs of living in the country and year-round recreational opportunities highlighted by the lakes and rivers of the Texas Hill Country. Texas has no state income tax.

Candidates must be US citizens or permanent residents, as well as possess a valid and unrestricted medical license in at least one state. Reasonable accommodation provided to any applicant with disabilities. Applicants are subject to drug testing. EOE

Please Fax or send CV to:

Mary P. Doerfler, Physician Recruiter Central Texas Veterans Health Care System 1901 Veterans Memorial Drive, Temple, TX 76504 FAX (254) 743-0007, Voice (254) 743-0049 E-mail to Mary. Doerfler @va.gov

### The doctor is in.

Whether you are a practicing physician or talented applicant, the American Psychiatric Association (APA) Job Bank is your psychiatric job placement resource.

#### IN FOCUS Candidates:

Post your résumé online for free. Search psychiatric jobs by specialty or location. Gain access to employment tools.

#### **Employers:**

Post psychiatric career opportunities quickly and easily. Tap into an online résumé database. Find the right candidate for your psychiatric position.

#### IN THE KNOW

Access sample cover letters and curriculum vitae, career development articles, salary surveys, interview worksheets and other tools on the APA Job Bank.



Visit www.psych.org/jobbank today.

Advertise your psychiatric opportunity in APA's *Psychiatric News* or *Psychiatric Services* classifieds and with the APA Job Bank online to receive a 10 percent discount on both. For more information, call (888) 35-PSYCH ext. 7330 or direct at (703) 907-7330, or email classads@psych.org.

Continuum Health Partners, Inc.

www.chpnyc-employment.com



First Avenue at 16th Street New York, NY 10003

Stability, teamwork and medical excellence that makes a difference on a daily basis. Since 1889, Beth Israel Medical Center, a 1368-bed full service tertiary teaching hospital has been at the forefront of progressive medical advancement serving our local community and influencing healthcare on a national and international level. Our continued growth and success requires the best qualified individuals for an exceptional career opportunity.

#### **PSYCHIATRIST – ADDICTION PSYCHIATRY** DEPARTMENT OF PSYCHIATRY AND BEHAVIORAL SCIENCES

The Department of Psychiatry is seeking an Addiction Psychiatrist for a full-time faculty position in the Division of Addiction Psychiatry. The division includes a nationally recognized 28-bed MICA unit, outpatient clinic and a fellowship program in Addiction Psychiatry. Responsibilities include: teaching and supervision of psychiatry residents, addiction fellows, medical students, and psychology interns; leading a multi-disciplinary team in providing clinical services to patients as well as QA and QI; collaborative and independent research as well as private practice. Candidates should be licensed or eligible for licensure in NYS and board certified in General Psychiatry and Addiction Psychiatry. Candidates must be eligible for appointment to the faculty of Albert Einstein College of Medicine. Salary commensurate with experience.

Reply to: Michael Serby, MD, Associate Chairman, Department of Psychiatry, Beth Israel Medical Center, 1st Avenue at 16th Street, NY, NY 10003, Fax 212-420-3442. Email: mserby@bethisraelny.org.

We are committed to diversity and equal opportunity.

#### NEW YORK STATE OFFICE OF MENTAL HEALTH ELMIRA PSYCHIATRIC CENTER

Elmira Psychiatric Center, a JCAHO accredited facility, is seeking BE/BC Psychiatrists. Located in New York's scenic Finger Lake Region, EPC is an intermediate psychiatric hospital offering a full range of inpatient and outpatient services.

EPC offers a comprehensive New York State benefits package including health, dental, prescription, optical, vacation, holidays, retirement, and Section 457 Investment Fund. Lucrative private practice potential and extra service compensation are also available. Salary to commensurate with experience.

#### Contact:

Elmira Psychiatric Center 100 Washington Street Elmira, NY 14901

E-mail: ElmiraPC@gmail.com Phone: (607) 737-4726; Fax: (607) 737-4722

An AA//EOE Employer



hysician-

driven leadership,

a supportive administration

and excellent

provide a work environment that

fosters growth

patient care."

and outstanding

technology

#### ONE LIFE. FOUR SEASONS. COUNTLESS OPPORTUNITIES.

In Wisconsin, you will enjoy four-season living, small-town communities and a lucrative medical practice. When you join Ministry Medical Group, our entire team is committed to your success.

#### **CURRENT OPPORTUNITIES**

We are currently seeking BC/BE Psychiatrists to join our outpatient clinics. Adult and child/adolescent opportunities are available.

- Opportunities located in Stevens Point and Rhinelander
- Minimal managed care
- Combination of first-year salary guarantee, incentive bonus and benefits package



MINISTRY MEDICAL GROUP ministryhealth.org

Not a J-1 waiver site

CALL TODAY! 800-420-2622 Brenda Chambers, Physician Recruiter Fax: 715-342-7910

brenda.chambers@ministryhealth.org

#### CHAIRPERSON **DEPARTMENT OF PSYCHIATRY**

Brigham and Women's/Faulkner Hospitals

#### STANLEY COBB PROFESSOR **OF PSYCHIATRY**

Harvard Medical School

Harvard Medical School and Brigham and Women's/Faulkner Hospitals are seeking Harvard Medicai School and Brigham and Women's raulkher Hospitals are seeking an academic leader to serve as the Stanley Cobb Professor of Psychiatry and the Chairperson of the Department of Psychiatry at Brigham and Women's Faulkher Hospitals, a founding member of the Partners HealthCare System. This individual will be responsible for the full scope of clinical, research and educational activities of the department as well as collaborative activities with the other departments of this academic medical center, Partners HealthCare System, Harvard Medical School, Faulkner Hospital and other affiliated institutions.

Candidates should have a strong record as a mentor and as a teacher, national recogni-Candidates should have a strong record as a mentor and as a teacher, national recogni-tion for psychiatric research accomplishments, and possess exceptional leadership, man-agerial, and collaborative skills. Ideally, she/he would be a proven academic medical leader with an international reputation in one of the disciplines of psychiatry, who can lead a complex and successful organization to even higher levels of excellence.

Martin A. Samuels, MD, Chairman, Department of Neurology Brigham and Women's Hospital Professor of Neurology, Chair, Search Committee c/o Wanda McClain, Brigham and Women's Hospital 75 Francis Street PB411, Boston, MA 02115 Email: BWHPsychSearch@partners.org

> Interested candidates are requested to submit a current Curriculum Vitae by email to BWHPsychSearch@partners.org by May 15, 2007 for consideration.

Harvard Medical School and Brigham and Women's Faulkner Hospitals are equal opportunity/affirmative action employers with strong institutional commitments to diversity in their faculty. Women and minority candidates are particularly encouraged to apply.



HARVARD MEDICAL SCHOOL



## PSYCHIATRISTS The VA Needs You

Shreveport, Louisiana, Alexandria, Louisiana, Biloxi, Mississippi, Pensacola, Florida, Mt. Vernon, Missouri, Fayetteville, Arkansas

Psychiatrist positions require: BE/BC Psychiatrists, current, full, unrestricted licensure (any state), U.S. citizen. Great Benefits, Excellent Pay, Rewarding Work. See announcements on www.vacareers.va.gov.

**BILOXI/PENSACOLA** Outpatient and Inpatient Psychiatry positions. Expertise in substance abuse, geropsychiatry and PTSD preferred. BE/BC psychiatrist, state license (any state), U.S. citizen or permanent resident. Send applications to Jean Williams, HRMS (05A), 400 Veterans Avenue, Biloxi, MS or contact at jean.williams@med.va.gov or (228) 523-5633.

ALEXANDRIA Strong clinical skills. Prefer experience in Geropsychiatry, Substance Abuse and/or PTSD. CV/ Application to tammie.arnold@med.va.gov or Tammie Arnold, Psychiatry Service (116), P.O. Box 69004, Alexandria, LA 71306-9004. (318) 473-0010 ext 2696.

**SHREVEPORT** Prefer experience in Substance Abuse, PTSD. Contact Tracie Bennett at (318) 221-8411, ext 5118 or tracie. bennett@va.gov. Email or mail your CV to VAMC, HRMS (05) TB, 510 E. Stoner Ave, Shreveport, LA. (318) 221-8411, ext 5118.

**FAYETTEVILLE, MT. VERNON** Contact Laura Berg, HRMS, at laura.berg2@va.gov or (479) 443-4301, ext 5191.



## PSYCHIATRIST

PeaceHealth Medical Group in Eugene, Oregon, is a 120-

physician multi-specialty group seeking a BE/BC Psychiatrist to join our inpatient Behavioral Health team. We are associated with Sacred Heart Medical Center, a 432-bed level-two trauma regional medical center. We offer a highly competitive pay system, full malpractice coverage and great benefits.



EUGENE, OREGON is one of the most desirable cities in the Pacific Northwest

in which to live, work and play. The area is extraordinarily rich in recreational areas as well as cultural activities and the arts. Eugene is located in the heart of the Willamette Valley and is within an hours drive of adventures at the beach with amazing cliffs and sand dunes or at the snow peaked mountains with hundreds of different ski runs.

PeaceHealth is an EEO and Affirmative Action Employer

Email your CV to Dorothy Reed at <a href="mailto:dreed@peacehealth.org">dreed@peacehealth.org</a> or Fax to (541) 681-3072.



of Health Care

Firelands Regional Medical Center invites you to become a member of one of the most progressive healthcare teams in the Heart of Vacationland.

Firelands is a 440-bed acute care medical center serving a population of over 250,000 in a six county area.

#### **PSYCHIATRIST WANTED.**

Join an active and successful practice.

A \$150 million building project is underway to expand the medical center's patient capacity and cancer treatment/care.

Sandusky, located on the southern shore of Lake Erie, is one hour west of Cleveland. The area is famous for its recreational facilities, which include beautiful city and state parks, fishing piers, beaches, Cedar Point Amusement Park and boating facilities. Our North Coast region is also rich in both cultural activities and educational opportunities.

For more information, call Dru Meredith, Physician Recruiter at 419-557-7885, or e-mail resume to meredid@firelands.com, fax 419-557-7235.

## ADULT PSYCHIATRY OPPORTUNITY

#### **GEISINGER HEALTH SYSTEM**

Geisinger Health System's Division of Psychiatry in Danville, PA, is seeking an adult psychiatrist. This position offers an excellent quality of life and an opportunity to work part-time or full-time depending on the needs of the candidate.

#### This position offers:

- A flexible schedule start/end times are negotiable, and the specific psychiatric interests and talents of applicants usually can be integrated into the needs of the practice. Opportunities include inpatient outpatient emergency and consultation-liaison psychiatry.
- A wonderfully collaborative team of psychiatrists/psychologists with experience and expertise in a variety of psychiatric specialties.
- The support of multiple PAs, a nurse specialist and masterslevel therapists.
- An excellent call schedule (1 in 7), most call via telephone from home.
- The opportunity to work in a comprehensive academic practice that sees a wide variety of clinical activity from pediatric to geriatric patients and diagnostic types and treatments (including ECT).
- Research opportunities through the Weis Center for Research and Geisinger Center for Health Research (both located on the campus of Geisinger Medical Center). Current research projects include studies on genomic schizophrenia, adolescent depression and improving the delivery of adult depression through primary care.
- An accredited Clinical Psychology Internship and the opportunity to teach pediatric and emergency medicine residents, as well as third year medical students from Temple University and Pennsylvania College of Osteopathic Medicine, with clinical appointments available.
- An established referral base through Geisinger Health System's 40 community medical groups, 3 hospitals, local/community physicians and the broad-base of third party contracts.

In the past two years Geisinger's Department of Psychiatry has added a 10-bed Adolescent Inpatient Unit at Geisinger South Wilkes-Barre, the neuro-psychiatry practice has doubled and added 2 post-doctoral fellows and Pediatric Psychiatry has experienced significant growth. At Geisinger, you'll experience the support, camaraderie and professional challenges of a leading practice while discovering the charms of Pennsylvania living... all while having the time and flexibility to enjoy your new quality of life.

To discuss this opportunity, contact: Kathy Kardisco, Recruiter, Geisinger Dept. of Pro. Staffing, 100 North Academy Avenue, Danville, PA 17822-2428 Phone: 1-800-845-7112 • Fax: 1-800-622-2515 e-mail: kkardisco@geisinger.edu

Geisinger is a drug-screening employer; EOE/M/F/D/V.

### **GEISINGER**

WWW.GEISINGER.ORG/DOCIOBS



Marshfield Clinic is nationally recognized for providing physicians with the most advanced medical equipment and health information technology today. Surrounded by nature's beauty in Wisconsin, we are located in communities where neighbors know one another.

We have openings for Adult and Child and Adolescent Psychiatrists for our expanding services

Marshfield Clinic is a multi-specialty group practice with over 725 physicians located at 40 centers in Wisconsin. The Clinic's Research Foundation has a history of important medical discoveries in human genetics and support for clinical research.

To learn more about these opportunities and the very competitive compensation package, please contact: Beth Albee, Physician Recruitment, **Marshfield Clinic**, 1000 N. Oak Ave., Marshfield, WI 54449. Phone: 800-782-8581, extension 19775; Fax #: 715-221-9779.

E-mail: albee.beth@marshfieldclinic.org Website: www.marshfieldclinic.org/recruit

#### MARSHFIELD CLINIC.

Where the future of medicine lives

Marshfield Clinic is an Affirmative Action/Equal Opportunity employer that values diversity. Minorities, females, individuals with disabilities and veterans are encouraged to apply.



#### Are you tired of generic, one-size-fits-all behavioral healthcare?

More and more physicians are turning to Acadia Healthcare for what's important to them: greater personal and professional reward, collegiality, a unique atmosphere and the respect and support of a great physician-led team.

You owe it to yourself to investigate the possibilities with Acadia.

#### Acadia Healthcare

Phone: 888.392.2234 · Fax: 770.776.5533 physicianrecruiting@acadiahealthcare.com Opportunities nationwide. J1 and H1 Visa opportunities in Texas.



www.acadiahealthcare.com Child - Adolescent - Geriatric - Dual Diagnosis

### Index to Advertisers May 2007

The publication of an advertisement in this journal does not imply endorsement of the product or service by the American Psychiatric Association.

American Journal of PsychotherapyA35
AstraZeneca MEASUREA38
Bristol-Myers Squibb Company Abilify
Eli Lilly and Company ZyprexaA7
Employment OpportunitiesA58-A63
Forest Laboratories, Inc. LexaproA9-A10
Janssen Pharmaceutica InvegaA19-A26
Johns Hopkins University PressA38
McNeil-PPC, Inc. ConcertaA17-A18
Montefiore Medical Center A27
Osler Institute
PBM Pharmaceuticals, Inc. Animi-3A37-A38
Sepracor LunestaA29-A30
Symposia
U.S. Pharmaceuticals, Pfizer, Inc. Corporate
University of Pittsburgh School of Medicine
Wyeth Pharmaceuticals, Inc.  Corporate

#### **Subscription and Business Information**

The American Journal of Psychiatry, ISSN 0002-953X, is published monthly by the American Psychiatric Association, 1000 Wilson Blvd., Suite 1825, Arlington, VA 22209-3901. Subscriptions (per year): individual \$205.00, international \$308.00. For additional subscription options, including single issues and student rates, please contact Customer Service at 1-800-368-5777 or email appi@psych.org. Institutional subscriptions are tier priced. For institutional site license or pricing information, contact Customer Service or visit http://highwire.stanford.edu/tfocis/.

Business communications, address changes, and subscription questions from APA members should be directed to the Division of Member Services: (888) 35-PSYCH (toll-free). Nonmember subscribers should call the Circulation Department (800) 368-5777. Author inquiries should be directed to the Journal editorial office: (703) 907-7885 or (703) 907-7884; fax (703) 907-1096; e-mail ajp@psych.org.

Business Management: Nancy Frey, Director, Publishing Services; Laura G. Abedi, Associate Director, Production; Brian Skepton, Advertising Sales and Marketing Manager, Nonpharmaceutical and Online Sales; Alison Jones, Advertising Prepress Manager; Robert Pursell, Director, Sales and Marketing.

Director, Advertising Sales: Raymond J. Purkis, Director, 2444 Morris Avenue, Union, NJ 07083; (908) 964-3100.

Pages are produced using Adobe FrameMaker+ SGML 6.0 Printed by Cadmus Communications, Richmond, Va., on acid-free paper effective with Volume 140, Number 5, May 1983.

Periodicals postage paid at Arlington, VA, and additional mailing offices. POSTMASTER: Send address changes to The American Journal of Psychiatry, Circulation Department, American Psychiatric Association, 1000 Wilson Blvd., Suite 1825, Arlington, VA 22209-3901.

Indexed in Abstracts for Social Workers, Academic Abstracts, Biological Abstracts, Chemical Abstracts, Chicago Psychoanalytic Literature Index, Cumulative Index to Nursing Literature, Excerpta Medica, Hospital Literature Index, Index Medicus, International Nursing Index, Nutrition Abstracts, Psychological Abstracts, Science Citation Index, Social Science Source, and Social Sciences Index.

The American Psychiatric Association does not hold itself responsible for statements made in its publications by contributors or advertisers. Unless so stated, material in The American Journal of Psychiatry does not reflect the endorsement, official attitude, or position of the American Psychiatric Association or of the Journal's Editorial Board.

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by the American Psychiatric Association for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$15.00 per copy is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923; (978) 750-8400 (tel), (978) 646-8600 (fax), www.copyright.com (web site). 0002-953X/05/\$15.00.

This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Requests for commercial distribution should be directed to (703) 907-7894. APA does not require that permission be obtained for the photocopying of isolated articles for nonprofit classroom or library reserve use; all fees associated with such permission are waived.

Copyright  $\ensuremath{\mathbb{C}}$  2005 American Psychiatric Association.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with increased morrainy in cinerry rations with Dementia-Healette Psychosis: Learny patients with dementia-Healett psychosis treated with adypical antipsycholic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., penumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

INDICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute manic or mixed episodes associated with bipolar disorder with or without psychotic features. GEODON® (ziprasidone mesylate) for Injection is indicated for acute agitation in schizophrenic patients

CONTRAINDICATIONS — QT Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association of fatal arrhythmias with QT prolongation by some other drugs, GEODON is contraindicated in patients with a known history of QT prolongation (including congenital long QT syndrome), with recent acute myocardial infarction, or with uncompensated heart failure (see WARNINGS). Pharmacokinetic/pharmacodynamic studies between GEODON and other drugs that prolong the QT interval have not been performed. An additive effect of GEODON and other drugs that prolong the QT interval cannot be excluded. Therefore, GEODON should not be given with dofetilide, sotalol, quindline, other Class Ia and Ill anti-arrhythmics, mesonidazine, thioridazine, chlorpromazine, droperidol. pimozide, sparfloxacin, gatifloxacin, moxifloxacin, halofantrine, mefloguine, pentamidine, arsenic trioxide, levomethadyl acetate, dolasetron princtions, span including audinocating incomposably incomposite in the period manifest assent include, evolutionally actually entered mensylate, problem, but mentioned in the proposable in the full prescribing information as a contraindication or a bowed or boiled warning (see WARNINGS). GEODON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—increased (see WARNINGS), GEDUON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—increased Mortality in Eldery Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treativit applical anilisyschotic drugs are at an increased risk of death compared to placebo, GEDOON (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). *CIP Prolongation and Risk of Sudden Death*: GEDOON was should be avoided in combination with other drugs that are known to prolong the CIT; interval. Additionally, clinicians should be alter to the identification of other drugs that have been consistently observed to prolong the CIT; interval. Such drugs should not be prescribed with GEDOON. A study directly comparing the CIT(TiT, prolonging effect of GEDOON with several other drugs effective in treatment of schizophrenia was conducted in patient volunteers. The mean increase in CIT, from baseline for GEDOON arging form approximation, but were schrzophrenia was conducted in patient volunteers. The mean increase in U<sub>1</sub> from dasteline for GEDUNV ranged from approximately 9 to 14 mass eg reater than for four of the comparator drugs (risperidone, olarappine, quellapline, and haloperidol), but was approximately 14 msec less than the prolongation observed for thioridazine. In this study, the effect of GEDON on QT<sub>c</sub> length was not augmented by the presence of a metabolic inhibitor (ketoconazole 200 mg bid). In placebo-controlled trials, GEDON increased the QT<sub>c</sub> interval compared to placebo by approximately 10 msec at the highest recommended daily dose of 160 mg. In clinical trials the electrocardiograms of 12/288 (0.05%) GEDOND patients and 1/440 (0.23%) placebo patients revealed QT<sub>c</sub> intervals exceeding the potentially clinically relevant threshold of 500 msec. In the GEDON patients, neither case suggested a role of GEDON. Some driving that prolong the QTVII intervals have been associated with the convergence of faced do posters and with suddon unvalvationed death that prolong the OT/OT<sub>e</sub> interval have been associated with the occurrence of torsade depointes and with sudden unexplained death. The relationship of QT prolongation to torsade depointes is clearest for larger increases (20 msec and greater) but it is possible that smaller QT/QT<sub>e</sub> prolongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia. hypomagnesemia, or genetic predisposition. Although forsade de pointes has not been observed in association with the use of ECDDON at recommended doses in premarketing studies, experience is too limited to rule out an increased risk. A study evaluating the QT/QT prolonging effect of intramuscular ECDDON, with intramuscular haloperidol as a control, was conducted in patient volunteers. In the trial, ECGs were obtained at the time of maximum plasma concentration following two injections of ECDDON (20 mg then 30 mg) or haloperido (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of intramuscular GEODON is 50% higher than the recommended therapeutic dose. The mean change in QT<sub>c</sub> from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the QT interval. The mean increase in QT<sub>c</sub> from baseline for GEODON was 4.6 msee following that removes the effect of near rate on the Q1 interval. In the mean increase in Q1, from baseline for IsDUON was 4.6 insect following the first injection and 12.8 masce following the second injection. The mean increase in Q1, from baseline for haloperidol was 6.0 masce following the first injection and 14.7 masce following the second injection. In this study, no patient had a Q1, interval exceeding 500 msec. As with other antipsycholic drugs and placebo, sudden unexplained deaths have been reported in patients taking 6E00DN at recommended doses. The premarketing experience for GE0DON did not reveal an excess of mortality for GE0DON compared to other antipsycholic drugs are prolongation of Q1, length compared to several other antipsycholic drugs raise set be possibility that the risk of sudden death may be greater for GE0DON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Certain circumstances may increase the risk of the common and the products of the control of the drugs to the considered in deciding among alternative drug products. Certain circumstances may increase the risk of the common and the products of the control of the drugs that prolong the Q1, interval, including (1) bradyscardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the Q1, interval, and (4) presence of congenital prolongation of the Q1 interval. GE0DON should also be avoided in patients with congenital long Q1 syndrome and in patients with a history of cardiac arrhythmias (see CONTRAINDICATIONS, and see Drug Interactions under PRECAUTIONS). It is recommended that altitude to the control of the product of the prod the first injection and 12.8 msec following the second injection. The mean increase in QT<sub>c</sub> from baseline for haloperidol was 6.0 mset discontinued in patients who are found to have persistent OT<sub>2</sub> measurements >500 msec. Neuroleptic Mailgnant Syndrome (NIMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Mailgnant Syndrome (NIMS) has been reported in association with administration of antipsychotic drugs. The management of NIMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; (2) intensive symptomatic treatment and medical monitoring; and (3) treatment of any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment affect recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported. *Tardive Dyskinesia (TD):* A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with antipsychotic drugs. Although the prevalence of TD appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop TD. If signs and symptoms of TD appear in a patient on GEODON, drug discontinuation should be considered. Hyperglycemia and Diabeles Mellitus: Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODA is a sesociated with these events. Patients treated with a atypical antipsychotic should be monitored for symptoms of hyperglycemia. PRECAUTIONS—General: Bash: In premarketing trials, about 5% of GEODON patients developed rash symptoms on typic giventae. **PreCAD INNS—betherate**. <u>Assis</u>, in prientariaening finals, about on 5% or GEDDON patients solvertuper that and/or urbicants, with discontinuation of treatment in about one-sixth of these cases. The occurrence of rash was dose related, although the finding might also be explained by longer exposure in higher-dose patients. Several patients with rash had signs and symptoms of associated systemic filness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discontinuation of GEDDON, and all patients were reported to recover completely. Upon appearance of rash for which an alternative etiology cannot be identified, GEDDON should be discontinued. <u>Orthostatic Hypotension</u>. GEDDON in pried orthostatic hypotension period, probably need no preind, probably need in some patients, syncope, especially during the initial dose-titration period, probably admit and preind, probably admit preind preind, probably discontinuation period, probably admit preind dose-titration period, probably admit preind dose-titration period, probably admit preind president present present properties. Syncope was reported in 0.6% of GEDDON patients. GEDDON should be used with particular caution in auteriority analysins properties. Syncope was reported in 100% of section placents, according to a patients with known cardiovascular disease, (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). Seizures: In clinical trials, seizures occurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsychotic drugs, GEODON should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagiar</u> Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderty Patients with Dementia-Related Psychosis). <u>Hyperprolactinemia</u>. As with other drugs that antagonize dopamine D<sub>2</sub> receptors, GEODON elevates prolactin levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Neither clinical studies not epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and turnorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. <u>Potential for Cognitive</u> and <u>Motor Impairment</u>. Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled trials, somnolence was reported in 14% of GEODON patients vs 7% of placebo patients. Somnolence led to discontinuation in 0.3% of trials, somnolence was reported in 14% of 6E00DN patients vs 7% of placebo patients. Somnolence led to discontinuation in 0.3% of patients in short-term clinical trials. Since 6E00DN has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that 6E00DNI herapy does not affect them adversely. <u>Prapps.mr.</u> One case of prizagin was reported in the premarkating database. <u>Body I Pemperature Repulation</u>. Although not reported with GE00DNI in permarkating trials, disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug them, GE00DNI prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk. <u>Use in Patients with Concomitant Illness</u>. Clinical experience with GE00DNI in patients with certain concomitant systemic illnesses is limited of GE00DNI has not been evaluated or used to any appreciable extent in patients with the certain concomitant port on unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of OT<sub>c</sub> prolongation and first of thought beat the product of particular systems. orthostatic hypotension with GEÖDON, caution should be observed in cardiac patients (see QT Prolongation and Risk of Sudden Death in WARNINGS and Orthostatic Hypotension in PRECAUTIONS). Information for Patients: To ensure safe and effective use of GEODON, the

information and instructions in the Patient Information Section should be discussed with patients. Laboratory Tests: Patients being considered for GEODON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during GEODON therapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients who are found to have persistent OT<sub>c</sub> measurements >500 msec (see **WARNINGS**). *Drug Interactions*: (1) GEODON should not be used with any drug that prolongs the QT interval. (2) Given the primary CNS effects of GEODON, caution should be used when it is taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, EEDDON may enhance the effects of certain antihypotensive agents. (4) GEODON may antagonize the effects of levodopa and dopamine agonists. <u>Effect of Other Drugs on GEODON</u>: <u>Carbamazepine</u>, 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUC of GEODON. <u>Keloconazole</u>, a potent inhibitor of CYP3A4, 400 mg q of rs 5 days, increased the ALC and C<sub>max</sub> of GEODON by about 35%-40%. *Circumetriane*, 800 mg of for 2 days, did not affect GEODON pharmacokinetics. Coadministration of 30 mL of *Maalox* did not affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benztropine, propranolol, or lorazepam. <u>Effect of GEODON on Other Drugs</u>: In vitro studies revealed little potential for GEODON to interfere with the metabolism of drugs cleared primarily by CYP1A2, CYP2D3, CYP2D6, and CYP3A4, and little potential for drug interactions with GEODON due to displacement. GEODON 4 drug bid administered concentrally with lithium 450 mg bid for 7 days did notfet the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concomitantly administered oral contraceptives ethinyl estradio (10.03 mg) and levonorgestrel (0.15 mg). Consistent with in vitro results, a study in normal healthy volunteers showed that GEODON did not alter the metabolism of dextromethorphan, a CYP2D6 model substrate, to its major metabolite, dextrorphan. There was no statistically significant change in the urinary dextromethorphan/dextrorphan ratio. Carcinogenesis, Mutagenesis, Impairment of Fertility: Lifetime carcinogenicity studies were conducted with GEODON in Long Evans rats and CD-1 mine. In male mice, there was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in serum prolactin were observed in a 1-month dietary study in female, but not male, mice, GEODON had no effect on serum prolactin in rats in a 5-week dietary tumors in rodents is unknown (see <u>Hyperprolactinemia</u>). <u>Mutagenesis</u>: There was a reproducible mutagenic response in the Amea say in one strain of *S. Aphinirurium* in the absence of metabolic activation. Positive results were obtained in both their vitro mammalian cell gene mutation assay and the in vitro chromosomal aberration assay in human lymphocytes. <u>Impairment of Fertility.</u> GEODON increased time to copulation in Sprague-Dawley rats in two fertility and early embryonic development studies at doses of 10 to 160 mg/kg/day (0.5 to 8 times the MRH bot 0.200 mg/kg/day (0.5 times the MRH bot 200 mg/kg/day (0.5 times the MRH bot assert educed at 16 mg/kg/day. (Defines the MRH both of 10 mg/kg/day (2 times the MRH both on a mg/m² basis). The fertility of female rats was reduced. *Pregnancy—Pregnancy Category* C. There are no adequate and well-controlled studies in pregnant women. GEODON should be used during pregnant only if the potential hashefit justifies the potential risk to the fetus. *Labor and Delivery*: The reflect of GEODON on labor and delivery in humans is unknown. *Nursing Minters*: it is not known whether, and if so in what amount, GEODON for its metabolites are excreted in human milk. It is recommended that women receiving GEODON should not breast feed. **Pediatric Use:** The safety and effectiveness of GEODON in pediatric patients have not been established. **Geriatric Use:** Of the approximately 4500 patients treated with GEODON in clinical studies, 2.4% (109) were 65 years of age or over. In general, there was no indication of any different tolerability for GEODON or of reduced clearance 2.4% (LUS) where by sizes of age or over. In general, mere was no indication of any dimensitude analytic frequency of GEODON in the elderly compared to younger adults. Nevertheless, the presence of multiple factors that might increase the pharmacodynamic response to GEODON, or cause poorer tolerance or orthostasis, should lead to consideration of a lower starting dose, slower titration, and careful monitoring during the initial dosing period for some elderly patients. ADVERSE REACTIONS.— Adverse Findings Observed in Short-term, Placebo-Controlled Trials: The following findings are based on the short-term placebo-controlled premarketing trials for schizophrenia (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 3-week flexible-dose trials) in which GEODON was administered in doses ranging from 10 to 200 mg/day. Adverse Events Associated with Discontinuation:
Schizophrenia: Approximately 4.1% (29/702) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment. due to an adverse event, compared with about 2.2% (6273) on placebo. The most common event associated with dropout was rash, including 7 dropouts for rash among GEODON patients (1%) compared to no placebo patients (see PRECAUTIONS). Bipolar Mania: Approximately 6.5% (18/279) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an Approximately 6.5% (18/279) of GEODON t-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 37% (5/163) on placebo. The most common events associated with dropout in the GEODON-treated patients were akathisia, anxiety, depression, dizziness, dystonia, rash and vomiting, with 2 dropouts for each of these events among GEODON patients (1%) compared to one placebo patient each for dystonia and rash (1%) and no placebo patients for the remaining adverse events associated with GEODON in schizophrenia trials were somnolence (14%) and respiratory tractification (8%). The most commonly observed adverse events associated with GEODON in schizophrenia trials were somnolence (14%) and respiratory tractification (8%). The most commonly observed adverse events associated with the use of GEODON in biploar mania trials were somnolence (131%), extrapyramidal symptoms (31%), dizziness (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred during acute therapy, including only those events that occurred in 2% of GEODON platents and at a greater adverse events that occurred the 2% of GEODON platents and at a greater incidence than in placebo. Schizophrenia: Body as a Whole—asthenia, accidental injury, chest pain. Gardiovascular—tachycardia. Digestive—nausea, constipation, dyspepsia, diarrhea, dry mouth, anorexia, Neurous—extrapyramidal symptoms, somnolence, akathisia, dizziness. Respiratory—respiratory tract infection, finitis, couch increased. Skin and Appendages—asth. Incard eterms—asth. funal demandaria. Special <u>Dugestive</u>—ratusea, consupation, gyspelsia, quarmea, dry mount, antiviax, <u>ewrous</u>—extrapyramical symptoms, sommolenca, acadidziness, <u>Respiratory</u>—respiratory tract infection, minitis, cough increased. Skin and <u>Appendages</u>—rash, fungal dermatifis. <u>Special Senses</u>—abnormal vision. Bipolar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarrhea, dry mouth, vomiting, increased salivation, tongue edema, dysphagia, <u>Musculoskeletal</u>—myalgia. <u>Nervous</u>—somnolence, extrapyramidal symptoms, dizziness, akathisia, anxiety, hypesthesia, speech disorder. <u>Respiratory</u>—pharyngitis, dyspnea. <u>Skin and Appendages</u>—fungal dermatitis. <u>Special Senses</u>—abnormal vision. **Dose Dependency**: An analysis for dose response in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, because in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, because in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, because the interesting the production of the properties of the production of t mouth, increased salivation, arthralgia, anxiety, dizziness, dystonia, hypertonia, somnolence, tremor, rhinitis, rash, and abnormal vision. Extrapyramidal Symptoms (EPS): The incidence of reported EPS for GEODON patients in the short-term, placebo-controlled schizophrenia trials was 14% vs. 98% for placebo. Objectively collected data from these trials on the Simpson-Angus Rating Scale and the mass Adathisia Scale did not generally show a difference between GEODON and placebo. Vital Sign Changes: GEODON is associated with orthostatic Scale did not generally show a difference between GEODON and placebo. Wital Sign Changes: GEODON is associated with orthostatic hypotension (see PREGAUTION). Weight Bain: In short-term schizophrenia trials, the proportions of patients meeting evilotty and criterion of 27% of body weight were compared, revealing a statistically significantly greater incidence of weight gain for GEODON patients (10%) vs placebo patients (4%). A median weight gain of 3.6 kg was observed in GEODON patients vs. 0.0 kg in placebo patients weight gain or GEODON and placebo patients. During long-term therapy with GEODON, a categorization of patients at baseline on the basis of body mass index (BMI) showed the greatest mean weight gain and the highest incident of clinically significant weight gain (-7% of body weight) in patients with a low BMI (-25) compared to normal (32-27) or overweight (-27) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "normal" BMI, and a 1.3 kg mean weight loss for patients with a "inph" BMI. ESG Changes: GEODON is associated with an increase in the CT<sub>2</sub> interval (see WARNINGS). In schizlophrenia trials, GEODON was sociated with an increase in heart rate of 1.4 beats per minute compared to 3.0 beats per minute decrease among places occurring in 14.100 to 11.000 to 11 Frequent adverse events are those occurring in at least 1/100 patients, infrequent adverse events are those occurring in at least 1/100 patients, infrequent adverse events are those occurring in flewer than 1/1000 patients. Schizophrenia: Body as a Whole — Frequent: abdominal pain, flu syndrome, fever, accidental fall, face edema, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. Cardiovascular System—Frequent tachycardia hypertension postural hypotension; Infrequent hydrocardia angina pectoris atrial fibrillation; Bare: first-<u>oystem – reguent adopted and present proposed in the proposed and proposed and an indicator and and and adopted a</u> o spanjaga, konguć evana, vlast gulmominaga, janomori, kea impacing samina gulmom v nasoponose. Hecasa, isrihasti o cholestatic janundice, hepatitis, hepatomegas), leukoplakia of mouth, fathy liver deposit, melena <u>Endocrine</u>——Pare i hypothyroidism, hyperthyroidism, thyroiditis. <u>Hemic and Lymphatic System</u>——Infrequent: anemia, ecchymosis, leukocytosis, leukopenia, eosinophilia, lymphadenopathy; <u>Pare</u> thrombocytopenia, hypochromic anemia, lymphocytosis, monocytosis, basophilia, lymphedema, polycythemia, y in practice to the control of your properties of the control of hypoglycemia, hyponatremia, hypoproteinemia, glucose tolerance decreased, gout, hyperchloremia, hyperuricemia, hypocalcemia, hypoglycemic reaction, hypomagnesemia, ketosis, respiratory alkalosis. <u>Musculoskeletal System - Frequentr.</u> myslorin, hypertonia, infrequent.tenosynovitis, Parer myogathy (Mervous System — Frequent-agitation, ektapyramidal syndrome, termor, dystonia, hypertonia, dyskinesia, hostility, twitching, paresthesia, confusion, vertigo, hypokinesia, hyperkinesia, abnormal gait, oculogyric crisis, hypesthesia, o ysantza, mosany, kwaning, pacsang, comosoli, virgo, rypokinista, rypokinista, anothing gait, congythe circlift, defirium, hypotonia, akinesia, dysarthria, withdrawal syndrome, buccoglossal syndrome, diocoglissal syndrome, dioco reinzes interased, utstinis, <u>respinatory systemi — riequenit, oyspiear, interquent, preuntonia, episaas, nare ientopysis, laryingitaris, skin and Appendages — Infrequent maculopapular rash, urticaria, alopecia, eczema, exfoliative dermatitis, contact dermatitis, vesiculobullous rash. <u>Special Senses — Frequent fung</u>al dermatitis; *Infrequent* conjunctivitis, dy eyes, tinnitus, blepharitis, cataract, photophobia; *Rare*: eye hemorrhage, visual field defect, keratitis, keratoconjunctivitis. <u>Urogenital System — Infrequent i</u>mpotence, abnormal</u> ejaculation, amenorrhea, hematuria, menorrhagia, female lactation, polyuria, urinary retention, metrorrhagia, male sexual dysfunction, anorgasmia, glycosuria; Rare: gynecomastia, vaginal hemorrhage, nocturia, oliguria, female sexual dysfunction, uterine hemorrhage. Adverse Finding Observed in Trials of Intramuscular GEODON: In these studies, the most commonly observed adverse events associated with the use of intramuscular GEODON (≥5%) and observed at a rate on intramuscular GEODON ( in the higher dose groups) at least twice that of the lowest intramuscular GEODON group were headache (13%), nausea (12%), and somnolence (20%). Adverse Events at an Incidence >1% in Short-Term Fixed-Dose Intramuscular Trials: The following list enumerates the treatment-emergent adverse events that occurred in ≥1% of GEODON patients (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON group. Body as a Whole—headache, injection site pain, asthenia, abdominial pain, flu syndrome, back pain, <u>Cardiovascular</u>—postural hypotension, hypertension, bradycardia, vasodilation. <u>Digastive</u>—nausea, rectal hemorrhage, diarrhea, vomiting, dyspepsia, anorexia, constipation, tooth disorder, dry mouth. <u>Nervous</u>—dizziness, arxiety, insomnia, somnolence, akathisia, agitation, extrapyramidal syndrome, hypertonia, cogwheel rigidity, paresthesia, personality disorder, psychosis, speech disorder. Respiratory—thintis. Skin and Appendages—furunculosis, sweating. Urogental—dysmenorhea, priapism. DRUG ABUSE AND DEPROENCE—Controlled Substance Class: 6CDONIs not controlled substance. OVERDOSAGE—In premarketing trials in over 5400 patients, accidental or intention overdosage of GEODON was documented in 10 patients. All patients survived without sequelae. In the patient taking the largest confirmed amount (3240 mg), the only symptoms reported were minimal sedation, slurring of speech, and transitory hypertension (BP 200/75).

References: 1. Daniel DG, Potkin SG, Reveex KR, Swift RH, Harrigan EP. Intramuscular (IM) ziprasidone 20 mg is effective in reducing acute agitation associated with psychosis: a double-blind, randomized trial. Psychopharmacology. 2001;155:128-134. 2. Brook S, Walden J, Benattia I, Siu CO, Romano SJ. Ziprasidone and haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized, blinded-assessment study. Psychopharmacology. 2005;178:514-523. 3. Lesem MD, Zajecka JM, Swift RH, Reeves KR, Harrigan EP. Intramuscular ziprasidone, 2 mg versus 10 mg, in the short-term management of agitated psychotic patients. J Clin Psychiatry. 2001;62:12-18. 4. Brook S, Lucey JV, Gunn KP, for the Ziprasidone IM Study Group. Intramuscular ziprasidone compared with intramuscular haloperidol in the treatment of acute psychosis. J Clin Psychiatry. 2000;61:933-941.

Revised May 2005

### Control acute agitation with

# GEODORI® for Injection | ziprasidone mesylate|

In schizophrenia...

## Rapid improvement with low EPS<sup>1,2</sup>

- Significant control achieved between 15 and 30 minutes\* after injection<sup>1,3</sup>
- Proven advantages over haloperidol IM
  - twice the improvement as measured on the BPRS<sup>4†</sup>
  - significantly lower incidence of movement disorders<sup>2‡</sup>
- Smooth transition, with continued improvement, from IM to oral therapy<sup>2,4</sup>
- May be used concomitantly with benzodiazepines

\*In 2 pivotal studies vs control, significance was achieved at 15 minutes (with 10 mg dose) and 30 minutes (with 20 mg dose), respectively.

†In a 7-day, open-label IM-to-oral transition study.

\*In a 6-week, open-label IM-to-oral transition study.



Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. GEODON is not approved for the treatment of patients with dementia-related psychosis.

GEODON is contraindicated in patients with a known history of QT prolongation, recent acute myocardial infarction, or uncompensated heart failure, and should not be used with other QT-prolonging drugs. GEODON has a greater capacity to prolong the QT<sub>C</sub> interval than several antipsychotics. In some drugs, QT prolongation has been associated with torsade de pointes, a potentially fatal arrhythmia. In many cases this would lead to the conclusion that other drugs should be tried first.

In fixed-dose, pivotal studies, the most commonly observed adverse events associated with the use of GEODON for Injection (incidence  $\geq$ 5%) and observed at a rate in the higher GEODON dose groups (10 mg, 20 mg) of at least twice that of the lowest GEODON dose group (2 mg control) were somnolence (20%), headache (13%), and nausea (12%).

Please see brief summary of prescribing information on adjacent page.