Volume 8 - Number 10

10

CNS SPECICUMS The International Journal of Neuropsychiatric Medicine

Personality Disorders

Guest Editor—Larry J. Siever, MD

INTRODUCTION

Refining the Approaches to Personality Disorders L.J. Siever

ORIGINAL RESEARCH

Neurobiologic Function and Temperament in Subjects With Personality Disorders V. Mitropoulou, R.L. Trestman, A.S. New,

J.D. Flory, J.M. Silverman, and L.J. Siever

Abuse and Neglect in Childhood: Relationship to Personality Disorder Diagnoses

L.M. Bierer, R. Yebuda, J. Schmeidler, V. Mitropoulou, A.S. New, J.M. Silverman, and L.J. Siever

> Norepinephrine Function in Personality Disorder: Plasma Free MHPG Correlates Inversely With Life History of Aggression E.F. Coccaro, R. Lee, and M. McCloskey

Relationship of Personality to Dissociation and Childhood Trauma in Borderline Personality Disorder

D. Simeon, D. Nelson, R. Elias, J. Greenberg, and E. Hollander

The Role of Childhood Trauma in Differences in Affective Instability in Those With Personality Disorder

M. Goodman, D.S. Weiss, H. Koenigsberg, V. Kotlyarevsky, A.S. New, V. Mitropoulou, J.M. Silverman, K. O'Flynn, and L.J. Siever



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CNS Spectrums



Time for wakefulness

PROVIGIL® (modafinil) TABLETS

with narcole

BRIEF SUMMARY: Consult Package Insert for Complete Prescribing Information INDICATIONS and USAGE: To improve wakefulness in patients with excessive daytime sleepiness associated

CONTRAINDICATIONS: Known hypersensitivity to PROVIGIL

PRECAUTIONS: General: Patients should be cautioned about operating an automobile or other hazardous machinery until they are reasonably certain that PROVIGIL therapy will not adversely affect their ability to engage in such activities.

Cardiovascular System: In clinical studies of PROVIGIL, signs and symptoms including chest pain palpitations, dyspnea, and transient ischemic T-wave changes on ECG were observed in 3 subjects in association with mitral valve prolapse or left ventricular hypertrophy. It is recommended that PROVIGIL tablets not be used in patients with a history of left ventricular hypertrophy or ischemic ECG changes, chest pain, arrhythmia or other clinically significant manifestations of mitral valve prolapse in association with CNS stimulant use. Patients with a recent history of MI or unstable angina should be treated with caution. Periodic monitoring of hypertensive patients taking PROVIGIL may be appropriate.

Central Nervous System: Caution should be exercised when PROVIGIL is given to patients with a history of psychosis. Patients with Severe Renal Impairment: Treatment with PROVIGIL resulted in much higher exposure to its inactive metabolite, modafinil acid, but not PROVIGIL itself.

Patients with Severe Hepatic Impairment: PROVIGIL should be administered at a reduced dose because its clearance is decreased.

Patients Using Contraceptives: The effectiveness of steroidal contraceptives may be reduced when used with PROVIGIL and for 1 month after discontinuation. Alternative or concomitant methods of contraception are recommended during and for 1 month after treatment.

Information for Patients: Physicians are advised to discuss the following with patients taking PROVIGIL: Pregnancy: Animal studies to assess the effects of PROVIGIL on reproduction and the developing fetus were not conducted so as to ensure a comprehensive evaluation of the potential of PROVIGIL to adversely affect fertility, or cause embryolethality or teratogenicity. Patients should notify their physician if they become pregnant or intend to become pregnant during therapy. They should be cautioned of the potential increased risk of pregnancy when using steroidal contraceptives (including depot or implantable contraceptives) with PROVIGIL and for 1 month after discontinuation. Nursing: Patients should notify their physician if they are breast feeding. Concomitant Medication: Patients should inform their physician if they are taking or plan to take any prescription or over-the-counter drugs, because of the potential for drug interactions. Alcohol: It is prudent to avoid alcohol while taking PROVIGIL. Allergic Reactions: Patients should notify their physician if

they develop a rash, hives, or a related allergic phenomenon. **Drug Interactions:** *CNS Active Drugs*: In a single-dose study, coadministration of PROVIGIL 200 mg with *methylphenidate* 40 mg delayed the absorption of PROVIGIL by approximately 1 hour. The coadministration of a single dose of clomipramine 50 mg with PROVIGIL 200 mg/day did not affect the pharmacokinetics of

either drug. One incident of increased levels of *clomipramine* and its active metabolite desmethylclomipramine has been reported. In a single-dose study with PROVIGIL (50, 100 or 200 mg) and triazolam 0.25 mg, no clinically important alterations in the safety profile of either drug were noted. In the absence of interaction studies with monoamine oxidase (MAO) inhibitors, caution should be exercised.

Potential Interactions with Drugs That Inhibit, Induce, or Are Potential Interactions with Drugs That Inhibit, Induce, or Are Metabolized by Cytochrome P-450 Isoenzymes and Other Hepatic Enzymes: Chronic dosing of PROVIGIL 400 mg/day resulted in ~20% mean decrease in PROVIGIL plasma trough concentration suggesting that PROVIGIL may have caused induction of its metabolism. Coadministration of potent inducers of CYP3A4

(eg, carbamazepine, phenobarbital, rifampin) or inhibitors of CYP3A4 (eg, ketoconazole, itraconazole) could after the levels of PROVIGIL. Caution needs to be exercised when PROVIGIL is coadministered with drugs that depend on hepatic enzymes for their clearance; some dosage adjustment may be required. Potentially relevant in vivo effects of PROVIGIL based on in vitro data are:

A slight induction of CYP1A2 and CYP2B6 in a concentration-dependent manner has been observed.

A modest induction of CYP3A4 in a concentration-dependent manner may result in lower levels of CYP3A4 substrates (eg, cyclosporine, steroidal contraceptives, theophylline).

An apparent concentration-related suppression of expression of CYP2C9 activity may result in higher levels of CYP2C9 substrates (eg, warfarin, phenytoin). A reversible inhibition of CYP2C19 may result in higher levels of CYP2C19 substrates (eg, diazepam, propranolol,

phenytoin, S-mephenytoin).

In some patients deficient in CYP2D6, the amount of metabolism via CYP2C19 may be substantially larger. Co-therapy with PROVIGIL may increase levels of some tricyclic antidepressants (eg, clomipramine, desipramine)

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis: The highest dose studied in carcinogenesis studies represents 1.5 times (mouse) or 3 times (rat) the maximum recommended human daily dose of 200 mg on a mg/m² basis. There was no evidence of tumorigenesis associated with PROVIGIL administration in these studies, but because the mouse study used an inadequate high dose below that representative of a maximum tolerated dose, the carcinogenic potential in that species has not been fully evaluated. *Mulagenesis:* There was no evidence of mutagenic or clastogenic potential of PROVIGIL. *Impairment of Fertility*: When PROVIGIL was administered orally to male and female rats prior to and throughout mating and gestation at up to 100 mg/kg/day (4.8 times the maximum recommended daily dose of 200 mg on a mg/m² basis) no effects on fertility were seen. This study did not use sufficiently high doses or large enough sample size to adequately assess effects on fertility

Pregnancy: Pregnancy Category C: Embryotoxicity was observed in the absence of maternal toxicity when rats received oral PROVIGIL throughout the period of organogenesis. At 200 mg/kg/day (10 times the maximum recommended daily human dose of 200 mg on a mg/m² basis) there was an increase in resorption, hydronephrosis, and skeletal variations. The no-effect dose for these effects was 100 mg/kg/day (5 times the maximum recommended daily human dose on a mg/m² basis). When rabbits received oral PROVIGIL throughout organogenesis at doses up to 100 mg/kg/day (10 times the maximum recommended daily human dose on a mg/m² basis), no embryotoxicity was seen. Neither of these studies, however, used optimal doses for the evaluation of embryotoxicity. Although a threshold dose for embryotoxicity has been identified, the full spectrum of potential toxic effects on the fetus has not been characterized. When rats were dosed throughout gestation and lactation at doses up to 200 mg/kg/day, no developmental toxicity was noted post-natally in the offspring. There are no adequate and well-controlled trials with PROVIGIL in pregnant women. PROVIGIL should be used during pregnancy only if the potential benefit outweighs the potential risk.

Labor and Delivery: The effect of PROVIGIL on labor and delivery in humans has not been systematically investigated. Seven normal births occurred in patients who had received PROVIGIL during pregnancy. Nursing Mothers: It is not known whether PROVIGIL or its metabolite are excreted in human milk. Caution should be exercised when PROVIGIL is administered to a nursing woman.

PEDIATRIC USE: Safely and effectiveness in individuals below 16 years of age have not been established. GERIATRIC USE: Safety and effectiveness in individuals above 65 years of age have not been established. ADVERSE REACTIONS: PROVIGIL has been evaluated for safety in over 2200 subjects, of whom more than 900 subjects with narcolepsy or narcolepsy/hypersomnia were given at least 1 dose of PROVIGIL. In controlled clinical trials, PROVIGIL was well tolerated, and most adverse experiences were mild to moderate. The most commonly observed adverse events (≥5%) associated with the use of PROVIGIL more frequently than placebo-treated patients in controlled US and foreign studies were headache, infection, nausea, nervousness, anxiety, and insomnia. In US controlled trials, 5% of the 369 patients who received PROVIGIL discontinued due to an adverse experience. The most frequent (≥1%) reasons for discontinuation that occurred at a higher rate for PROVIGIL than placebo patients were headache (1%), nausea (1%), depression (1%) and nervousness (1%). The incidence of adverse experiences that occurred in narcolepsy patients at a rate of ≥1% and were more frequent in patients treated with PROVIGIL than in placebo patients in US controlled trials are listed below. Consult full prescribing information on adverse events.

Body as a whole: Headache,' chest pain, neck pain, chills, rigid neck, fever/chills

tive: Nausea,1 diarrhea,1 dry mouth,1 anorexia,1 abnormal liver function,2 vomiting, mouth ulcer, gingivitis, thirst Respiratory system: Rhinitis,¹ pharyngitis,¹ lung disorder, dyspnea, asthma, epistaxis Nervous system: Nervousness,¹ dizziness, depression, anxiety, cataplexy, insomnia, paresthesia,

dyskinesia,3 hypertonia, confusion, amnesia, emotional lability, ataxia, tremor

Cardiovascular: Hypotension, hypertension, vasodilation, arrhythmia, syncope

Hemic/Lymphatic: Eosinophilia

Special senses: Amblyopia, abnormal vision

Metabolic/Nutritional: Hyperglycemia, albuminuria

Musculo-skeletal: Joint disorder

Skin/Appendages: Herpes simplex, dry skin Urogenital: Abnormal urine, urinary retention, abnormal ejaculation⁴

Incidence ≥5%,² Elevated liver enzymes,³ Oro-facial dyskinesias,⁴ Incidence adjusted for gender

Dose Dependency: In US trials, the only adverse experience more frequent (>5% difference) with PROVIGIL 400 mg/day than PROVIGIL 200 mg/day and placebo was headache. Vital Signs Changes: There were no consistent effects or patterns of change in vital signs for patients

treated with PROVIGIL in the US trials. Weight Changes: There were no clinically significant differences in body weight change in patients treated with PROVIGIL compared to placebo.

Laboratory Changes: Mean plasma levels of gamma-glutamyl transferase (GGT) were higher following administration of PROVIGIL but not placebo. Few subjects (1%) had GGT elevations outside the normal range. Shift to higher, but not clinically significantly abnormal, GGT values appeared to increase with time on PROVIGIL. No differences were apparent in alkaline phosphatase, alanine aminotransferase, aspartate aminotransferase, total protein, albumin, or total bilirubin. There were more elevated eosinophil counts with PROVIGIL than placebo in US studies; the differences were not clinically significant.

ECG Changes: No treatment-emergent pattern of ECG abnormalities was found in US studies following administration of PROVIGIL. Postmarketing Reports

In addition to the adverse events observed during clinical trials, the following adverse events have been identified during post-approval use of PROVIGIL in clinical practice. Because these adverse events are reported voluntarily from a population of uncertain size, reliable estimates of their frequency cannot be made.

Hematologic: Agranulocytosis

Central Nervous System: Symptoms of psychosis, symptoms of mania

BRUG ABUSE and DEFENDENCE: Abuse Potential and Dependence: In addition to wakefulness-promoting effect and increased locomotor activity in animals, in humans, PROVIGIL produces psychoactive and euphoric effects, alterations in mood, perception, thinking, and feelings typical of other CNS stimulants. *In* vitro, PROVIGIL binds to the dopamine reuptake site and causes an increase in extracellular dopamine but no increase in dopamine release. PROVIGIL is reinforcing, as evidenced by its self-administration in monkeys previously trained to self-administer cocaine. In some studies PROVIGIL was also partially discriminated as stimulant-like. Physicians should follow patients closely, especially those with a history of drug and/or stimulant (eg, methylphenidate, amphetamine, or cocaine) abuse. Patients should be observed for signs of misuse or abuse (eg, incrementation of doses or drug-seeking behavior). In individuals experienced with drugs of abuse, PROVIGIL produced psychoactive and euphoric effects and feelings consistent with other scheduled CNS stimulants (methylphenidate). Patients should be observed for signs of misuse or abuse

Withdrawal: Following 9 weeks of PROVIGIL use in 1 US trial, no specific symptoms of withdrawal were observed during 14 days of observation, although sleepiness returned in narcoleptic patients

OVERDOSAGE: Human Experience: A total of 151 doses of ≥1000 mg/day (5 times the maximum recommended daily dose) have been recorded for 32 individuals. Doses of 4500 mg and 4000 mg were taken intentionally by 2 patients participating in foreign depression studies. In both cases, adverse experiences observed were limited, expected, and not life-threatening, and patients recovered fully by the following day. The adverse experiences included excitation or agitation, insomnia, and slight or moderate elevations in hemodynamic parameters. In neither of these cases nor in others with doses ≥1000 mg/day, including experience with up to 21 consecutive days of dosing at 1200 mg/day, were any unexpected effects or specific organ toxicities observed. Other observed high-dose effects in clinical studies have included anxiety, irritability, aggressiveness, confusion, nervousness, tremor, palpitations, sleep disturbances, nausea, diarrhea, and decreased prothrombin time. Overdose Management: No specific antidote to the toxic effects of PROVIGIL overdose has been identified. Overdoses should be managed with primarily supportive care, including cardiovascular monitoring. Emesis or gastric lavage should be considered. There are no data suggesting that dialysis or urinary acidification or alkalinization enhance drug elimination. The physician should consider contacting a poison-control center on the treatment of any overdose Manufactured for: Cephalon, Inc., West Chester, PA 19380

For more information about PROVIGIL, please call Cephalon Professional Services at 1-800-896-5855 or visit our Website at www.PROVIGIL.com.

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GUIDE TO DSM-IV AND ICD-10 CODES

Descention of the Aleksionse Taxon With Desk, Acces With Descent of Manual	DSM-IV	ICD-10	
Specify if: With Behavioral Disturbance	290.13	F00.03	
Dementia of the Alzheimer's Type, With Late Onset With Depressed Mood			
Specify if: With Behavioral Disturbance	290.21	F00.13	
Psychotic Disorder Due to: Indicate General Medical Condition	293.81	F06.2	
With Hallucinations	293.82	F06.0	
Mood Disorder Due to: Indicate General Medical Condition	293.83	F06	
Anxiety Disorder Due to: Indicate General Medical Condition	293.89	F02.8	
Dementia NOS	294.8	F03	
Amnestic Disorder NOS	294.8	R41.3	
Schizophrenia—Disorganized Type	295	F20 1	
Schizophrenia Catatonic Type	295.20	F20.2	
Schizophrenia—Paranoid Type	295.30	F20.0	
Schizophrenia—Kesidual lype	295.60	F20.5	
Schizophrenia—Undifferentiated Type	295.90	F20.3	
Major Depressive Disorder	296	F32	
Bipolar I Disorder	296	F30	
Bipolar Disorder NOS	296.80	F39 F31_8	
Mood Disorder NOS	296.90	F39	
Psychotic Disorder NOS	298.9	F29	
Autistic Disorder	299.00	<u>F84</u>	
Pervasive Developmental Disorder NOS	299.80		
Anxiety Disorder NOS	300.00	F41,9	
Panic Disorder Without Agoraphobia	300.01	F41	
Dissociative Identity Disorder	300.02	F41.1 F44.81	
Dissociative Disorder NOS	300.15	F44.9	
Factitious Disorder NOS	300.19	F68.1	
Panic Disorder With Agoraphobia	300.21	F40.01	
Social Phobia	300.22	F40	
Specific Phobia	300.29	F40.2	
Obsessive-Compulsive Disorder	300.3	F42.8	
Dystnymic Disorder	300.4	F48 1	
Body Dysmorphic Disorder	300.7	F45.2	
Somatization Disorder	300.81	F45.	
Somatoform Disorder NOS	300.81	F34	
Alcohol Dependence	303.90	F10.2	
Cocaine Dependence	304.20	F14.2	
Cannabis Dependence	304.30	F12.2	
Alcohol Abuse	305.00	F10.1	
Cannabis Abuse	305.20	F12.1	
Cocaine Abuse	305.60	F14.1	
Ampnetamine Abuse	305.70	F15.1 F98.5	
Anorexia Nervosa	307.1	F50	
Tic Disorder NOS	307.20	F95.9	
Tourette Disorder	307.23	<u>F95.2</u>	
Primary Hypersomnia	307.44	F51.1	
Sleepwalking Disorder	307.46	F51.3	
Dyssomnia NOS	307.47	F51.9	
Parasomnia NOS	307.47	F51.8	
Eating Disorder NOS	307.50	F50.9	
Bulimia Nervosa	307.51	F50.2	
Feeding Disorders of Infancy or Early Childhood	307.59	F80.9	
Posttraumatic Stress Disorder	309.81	F43.1	
Depressive Disorder NOS	311	F32.9	
Impulse-Control Disorder NOS	312.30	F63.9	
Pyromania	312.33	F63.1	
Kleptomania	312.34	F63.2	
Trichotillomania	312.39	F63.3	
Disruptive Benavior Disorder NUS Attention-Deficit / Hyperactivity Disorder Combined Type	312.9	F91.9	
Attention-Deficit/Hyperactivity Disorder NOS	314.9	F90.9	
Learning Disorder NOS	315.9	F81.9	
Developmental Coordination Disorder	315.4	647.4	
Sleep Disorder Due to: Indicate General Medical Condition	780	G47	
Delirium NOS	780.09	F05.9	



Time for wakefulness

A unique wake-promoting agent

PROVIGIL promotes daytime wakefulness, improving patients' ability to participate in daily activities—with no effect on nighttime sleep.¹⁻³

Long-term safety

The long-term safety profile of PROVIGIL has been demonstrated for up to 136 weeks.⁴

PROVIGIL was generally well tolerated. Most frequently reported adverse events in clinical trials were headache, nausea, nervousness, anxiety, infection, and insomnia. Most adverse events were mild to moderate. PROVIGIL may interact with drugs that inhibit, induce, or are metabolized by cytochrome P450 isoenzymes.

Dosing

Recommended dose for PROVIGIL is 200 mg taken orally once daily in the morning. Both PROVIGIL doses, 200 mg and 400 mg QD, were effective.

PROVIGIL is indicated to improve wakefulness in patients with excessive daytime sleepiness associated with narcolepsy.

References: 1. PROVIGIL full prescribing information. **2.** US Modafinil in Narcolepsy Multicenter Study Group. Randomized trial of modafinil for the treatment of pathological somnolence in narcolepsy. *Ann Neurol.* 1998;43:88-97. **3.** US Modafinil in Narcolepsy Multicenter Study Group. Randomized trial of modafinil as a treatment for the excessive daytime somnolence of narcolepsy. *Neurology.* 2000;54:1166-1175. **4.** Data on file, Cephalon, Inc.



Please see brief summary of prescribing information on adjacent page. For more information, call 1-800-896-5855 or visit our Website at www.PROVIGIL.com.

Feb 2003

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EDITORIAL MISSION

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ACQUISITIONS EDITOR

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

Introduction

CNS Spectrums is an Index Medicus journal that publishes original scientific literature and reviews on a wide variety of neuroscientific topics of interest to the clinician. CNS Spectrums will publish 12 issues in 2003. As the immense prevalence of comorbid diseases among patients seen by psychiatrists and neurologists increases, these physicians will jointly diagnose and treat the neuropsychiatrically ill. Our mission is to provide these physicians with an editorial package that will enhance and increase their understanding of neuropsychiatry; therefore, manuscripts that address crossover issues germane to neurology and psychiatry will be given immediate priority.

Scope of Manuscripts

CNS Spectrums will consider the following types of articles for publication:

Original Research: Original Research presents methodologically sound original data.

Reviews: Reviews are <u>comprehensive</u> articles that summarize and synthesize the literature on various topics in a scholarly and clinically relevant fashion. Suitable topics include mood disorders, schizophrenia and related disorders, personality disorders, substance-use disorders, anxiety disorders, neuroscience, psychosocial aspects of psychiatry, child psychiatry, geriatric psychiatry, and other topics of interest to clinicians. Original flowcharts designed to aid the clinician in diagnosis and treatment will be considered for publication in reviews and are encouraged.

Case Reports: Single or multiple case reports will be considered for publication.

Letters to the Editor: Letters will be considered for publication.

Manuscript Submission

General information: Two copies of the manuscript with a letter on the author's letterhead should be submitted to Jack M. Gorman, Editor (or, in Europe, to Joseph Zohar, International Editor), c/o MBL Communications, 333 Hudson Street, 7th Floor, New York, NY 10013; (F) 212.328.0600. Authors are also required to submit their manuscripts on computer disk in Microsoft Word format. Disks should be labeled with the word processing program, title of paper, and lead author's name. Accepted manuscripts and letters will be edited for clarity and style.

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Please note: If your article is Original Research, it should be formatted as: Abstract (100-200 words); Introduction, Methods; Findings; Discussion; Conclusion; References (numbered and comprehensive list).

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Abstract: Authors must provide a brief abstract.

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References: American Medical Association style. See the following examples:

- 1. Jones J. Necrotizing Candida esophagitis. JAMA. 1980;244:2190-2191.
- 2. Stryer L. Biochemistry. 2nd ed. San Francisco, Calif: WH Freeman Co; 1980:559-596.

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- □ Six CME multiple-choice questions with answers
- □ Three to six focus points
- Disk labeled with the word processing program, title of paper, and lead author's name
- □ Names and addresses of five potential reviewers

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Table of Contents

Volum	ne 8 – Number 10
	Feature Articles
	INTRODUCTION
724	Refining the Approaches to Personality Disorders
	By Larry J. Siever, MD
	ORIGINAL RESEARCH
725	Neurobiologic Function and Temperment in Subjects With Personality Disorders By Vivian Mitropoulou, MA, Robert L. Trestman, PhD, MD, Antonia S. New, MD, Janine D. Flory, PhD, Jeremy M. Silverman, PhD, and Larry J. Siever, MD
	ORIGINAL RESEARCH
737	Abuse and Neglect in Childhood: Relationship to
	Personality Disorder Diagnoses
	By Linda M. Bierer, MD, Rachel Yehuda, PhD, James Schmeidler, PhD, Vivian Mitropoulou, MA
	Antonia S. New, MD, Jeremy M, Silverman, PhD,
	and Larry J. Siever, MD
	CME-Accredited Articles
	ORIGINAL RESEARCH
731	Norepinephrine Function in Personality Disorder: Plasma Free MHPG Correlates Inversely With Life History of Aggression
	and Michael McCloskey, PhD
755	Relationship of Personality to Dissociation and Childhood
,	Trauma in Borderline Personality Disorder
	By Daphne Simeon, MD, Dorothy Nelson, BSc, Rachela Elias, BA, Jennifer Greenberg, BA, and Eric Hollander, MD
	ORIGINAL RESEARCH
763	The Role of Childhood Trauma in Differences in Affective
	Instability in Those With Personality Disorder
	By Marianne Goodman, MD, Daniel S. Weiss, PhD,
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Table of Contents

October 2003 Volume 8 – Number 10

Departments/Monthly Columns

FROM THE EDITOR'S DESK

716 From Neuroses to Neuropsychiatry: Replacing Adjectives With Science in the Study of Personality Disorders By Jack M. Gorman, MD

CLINICAL UPDATES IN NEUROPSYCHIATRY

717 News From the Field of Neuroscience

- New Screening Method Accurately Detects Migraines
- Second Gene Implicated in Joubert Syndrome
- Long-Term Results of Epilepsy Surgery Suggest Positive Outcome
- Working Memory Possibly Improved by Creatine Usage
- Supplemental New Drug Application for Ropinirole for Restless Legs Syndrome
- FDA Approves Vardenafil for the Treatment of Erectile Dysfunction
- FDA Approves Bupropion Extended-Release for Major Depressive Disorder

CONTINUING MEDICAL EDUCATION

773 This CME quiz on personality disorders is accredited by Mount Sinai School of Medicine for 3.0 credit hours in Category 1.

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- 708 Guide to DSM-IV and ICD-10 Codes
- 711 Author Guidelines
- 777 Editorial Questionnaires
- 779 Subscriptions
- 780 Author Guidelines

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