

# CNS SPECTRUMS®

The International Journal of Neuropsychiatric Medicine



## Clinical Snapshots: A Look at the Anxiety and Autism Spectra

*Guest Editor—Randall D. Marshall, MD*

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September 11, 2001, Psychiatric Disorders,  
and Broadening Treatment

*R.D. Marshall*

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*R.D. Marshall*

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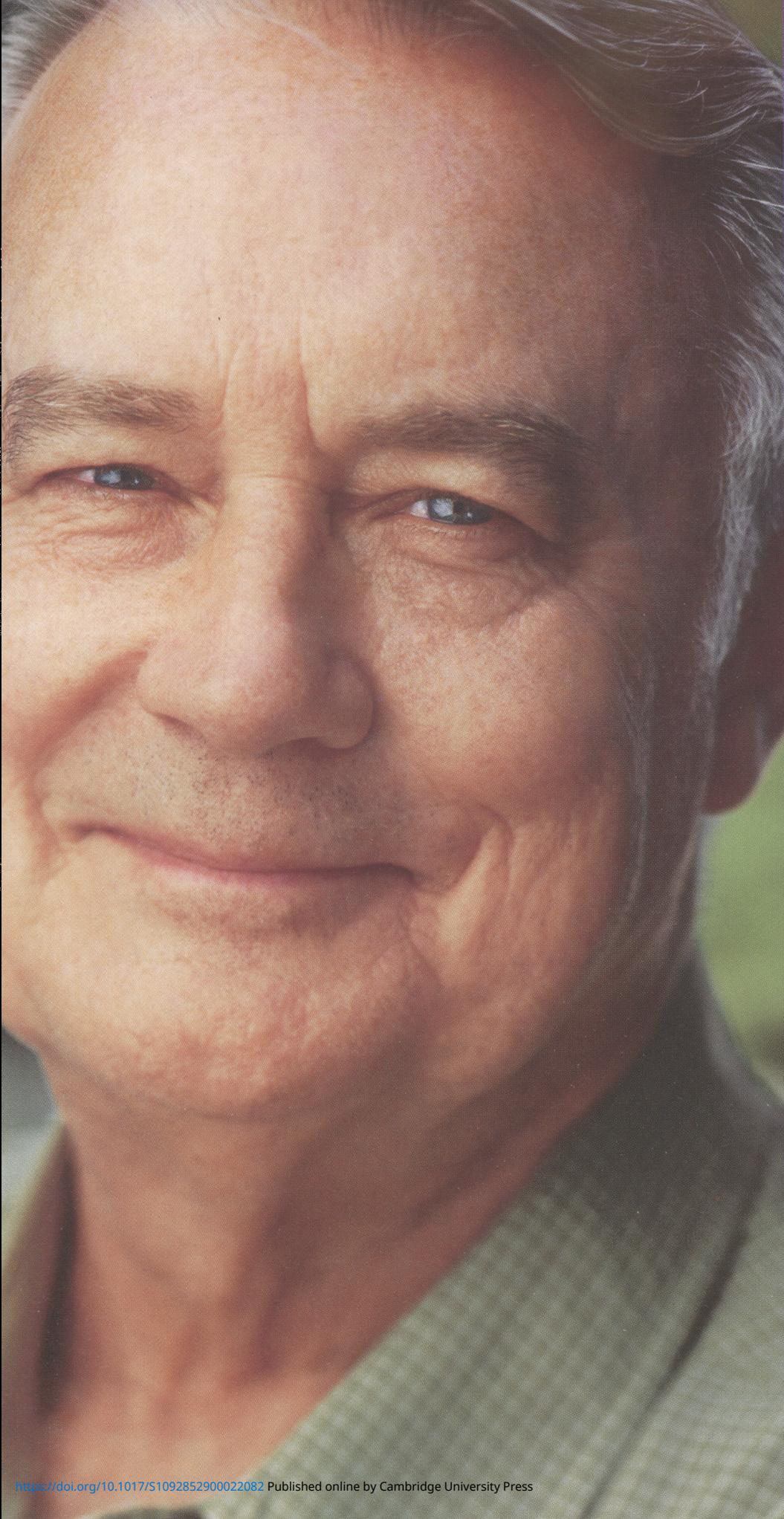
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*HE'S THE*

# **STRONG SILENT TYPE. LIKE HIS NEURONTIN.**

## **ADD-ON PARTIAL-SEIZURE CONTROL WITH EXCELLENT TOLERABILITY**

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*Well tolerated*

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NEURONTIN is indicated as adjunctive treatment for partial seizures in pediatric patients (3-12 years old) and for partial seizures with and without secondary generalization in adults (>12 years old). NEURONTIN is contraindicated in patients who have demonstrated hypersensitivity to the drug or its ingredients. NEURONTIN use in pediatric patients aged 3 to 12 years has been associated with mild to moderate neuropsychiatric adverse events, including emotional lability, hostility, thought disorder, and hyperkinesia.

In controlled clinical trials, the most common adverse events reported with NEURONTIN vs placebo in adults (>12 years old) were somnolence (19.3% vs 8.7%), dizziness (17.1% vs 6.9%), ataxia (12.5% vs 5.6%), fatigue (11.0% vs 5.0%), and nystagmus (8.3% vs 4.0%); the most common adverse events in pediatric patients (3-12 years old) were viral infection (10.9% vs 3.1%), fever (10.1% vs 3.1%), nausea and/or vomiting (8.4% vs 7.0%), somnolence (8.4% vs 4.7%), and hostility (7.6% vs 2.3%).

*Please see brief summary of full prescribing information on adjacent pages.*

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**INDICATIONS AND USAGE**

Neurontin® (gabapentin) is indicated as adjunctive therapy in the treatment of partial seizures with and without secondary generalization in patients over 12 years of age with epilepsy. Neurontin is also indicated as adjunctive therapy in the treatment of partial seizures in pediatric patients age 3–12 years.

**CONTRAINDICATIONS**

Neurontin® is contraindicated in patients who have demonstrated hypersensitivity to the drug or its ingredients.

**WARNINGS**

**Neuropsychiatric Adverse Events—Pediatric Patients 3-12 Years of Age** Gabapentin use in pediatric patients with epilepsy 3–12 years of age is associated with the occurrence of central nervous system related adverse events. The most significant of these can be classified into the following categories: 1) emotional lability (primarily behavioral problems), 2) hostility, including aggressive behaviors, 3) thought disorder, including concentration problems and change in school performance, and 4) hyperkinesia (primarily restlessness and hyperactivity). Among the gabapentin-treated patients, most of the events were mild to moderate in intensity. In controlled trials in pediatric patients 3–12 years of age the incidence of these adverse events was: emotional lability 6% (gabapentin-treated patients) vs 1.3% (placebo-treated patients); hostility 5.2% vs 1.3%; hyperkinesia 4.7% vs 2.9%; and thought disorder 1.7% vs 0%. One of these events, a report of hostility, was considered serious. Discontinuation of gabapentin treatment occurred in 1.3% of patients reporting emotional lability and hyperkinesia and 0.9% of gabapentin-treated patients reporting hostility and thought disorder. One placebo-treated patient (0.4%) withdrew due to emotional lability. **Withdrawal Precipitated Seizure, Status Epilepticus** Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled studies in patients >12 years of age, the incidence of status epilepticus in patients receiving Neurontin® was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients treated with Neurontin® across all studies (controlled and uncontrolled) 31(1.5%) had status epilepticus. Of these, 14 patients had no prior history of status epilepticus either before treatment or while on other medications. Because adequate historical data are not available, it is impossible to say whether or not treatment with Neurontin® is associated with a higher or lower rate of status epilepticus than would be expected to occur in a similar population not treated with Neurontin®. **Tumorigenic Potential** In standard preclinical *in vivo* lifetime carcinogenicity studies, an unexpectedly high incidence of pancreatic acinar adenocarcinomas was identified in male, but not female, rats (See PRECAUTIONS: Carcinogenesis, Mutagenesis, Impairment of Fertility). The clinical significance of this finding is unknown. Clinical experience during gabapentin's premarketing development provides no direct means to assess its potential for inducing tumors in humans. In clinical studies comprising 2085 patient-years of exposure, new tumors were reported in 10 patients (2 breast, 3 brain, 2 lung, 1 adrenal, 1 non-Hodgkin's lymphoma, 1 endometrial carcinoma *in situ*), and preexisting tumors worsened in 11 patients (9 brain, 1 breast, 1 prostate) during or up to 2 years following discontinuation of Neurontin®. Without knowledge of the background incidence and recurrence in a similar population not treated with Neurontin®, it is impossible to know whether the incidence seen in this cohort is or is not affected by treatment. **Sudden and Unexplained Deaths** During the course of premarketing development of Neurontin®, 8 sudden and unexplained deaths were recorded among a cohort of 2203 patients treated (2103 patient-years of exposure). Some of these could represent seizure-related deaths in which the seizure was not observed, e.g., at night. This represents an incidence of 0.0038 deaths per patient-year. Although this rate exceeds that expected in a healthy population matched for age and sex, it is within the range of estimates for the incidence of sudden unexplained deaths in patients with epilepsy not receiving Neurontin® (ranging from 0.0005 for the general population of epileptics, to 0.003 for a clinical trial population similar to that in the Neurontin® program, to 0.005 for patients with refractory epilepsy). Consequently, whether these figures are reassuring or raise further concern depends on comparability of the populations reported upon to the Neurontin® cohort and the accuracy of the estimates provided.

**PRECAUTIONS**

**Information for Patients** Patients should be instructed to take Neurontin® only as prescribed. Patients should be advised that Neurontin® may cause dizziness, somnolence and other symptoms and signs of CNS depression. Accordingly, they should be advised neither to drive a car nor to operate other complex machinery until they have gained sufficient experience on Neurontin® to gauge whether or not it affects their mental and/or motor performance adversely. **Laboratory Tests** Clinical trials data do not indicate that routine monitoring of clinical laboratory parameters is necessary for the safe use of Neurontin®. The value of monitoring Neurontin® blood concentrations has not been established. Neurontin® may be used in combination with other antiepileptic drugs without concern for alteration of the blood concentrations of gabapentin or of other antiepileptic drugs. **Drug Interactions** Gabapentin is not appreciably metabolized nor does it interfere with the metabolism of commonly coadministered antiepileptic drugs. The drug interaction data described in this section were obtained from studies involving healthy adults and adult patients with epilepsy. **Phenytoin:** In a single and multiple dose study of Neurontin® (400 mg T.I.D.) in epileptic patients (N=8) maintained on phenytoin monotherapy for at least 2 months, gabapentin had no effect on the steady-state trough plasma concentrations of phenytoin and phenytoin had no effect on gabapentin pharmacokinetics. **Carbamazepine:** Steady-state trough plasma carbamazepine and carbamazepine 10, 11 epoxide concentrations were not affected by concomitant gabapentin (400 mg T.I.D.; N=12) administration. Likewise, gabapentin pharmacokinetics were unaltered by carbamazepine administration. **Valproic Acid:** The mean steady-state trough serum valproic acid concentrations prior to and during concomitant gabapentin administration (400 mg T.I.D.; N=17) were not different and neither were gabapentin pharmacokinetic parameters affected by valproic acid. **Phenobarbital:** Estimates of steady-state pharmacokinetic parameters for phenobarbital or gabapentin (300 mg T.I.D.; N=12) are identical whether the drugs are administered alone or together. **Cimetidine:** In the presence of cimetidine at 300 mg Q.I.D. (N=12) the mean apparent oral clearance of gabapentin fell by 14% and creatinine clearance fell by 10%. Thus cimetidine appeared to alter the renal excretion of both gabapentin and creatinine, an endogenous marker of renal function. This small decrease in excretion of gabapentin by cimetidine is not expected to be of clinical importance. The effect of gabapentin on cimetidine was not evaluated. **Oral Contraceptive:** Based on AUC and half-life, multiple-dose pharmacokinetic profiles of norethindrone and ethinyl estradiol following administration of tablets containing 2.5 mg of norethindrone acetate and 50 mcg of ethinyl estradiol were similar with and without coadministration of gabapentin (400 mg T.I.D.; N=13). The Cmax of norethindrone was 13% higher when it was coadministered with gabapentin; this interaction is not expected to be of clinical importance. **Antacid (Maalox®):** Maalox reduced the bioavailability of gabapentin (N=16) by about 20%. This decrease in bioavailability was about 5% when gabapentin was administered 2 hours after Maalox. It is recommended that gabapentin be taken at least 2 hours following Maalox administration. **Effect of Probenecid:** Probenecid is a blocker of renal tubular secretion. Gabapentin pharmacokinetic parameters without and with probenecid were comparable. This indicates that gabapentin does not undergo renal tubular secretion by the pathway that is blocked by probenecid. **Drug/Laboratory Tests Interactions** Because false positive readings were reported with the Ames N-Multitest SG<sup>®</sup> dipstick test for urinary protein when gabapentin was added to other antiepileptic drugs, the more specific sulfosalicylic acid precipitation procedure is recommended to determine the presence of urine protein. **Carcinogenesis, Mutagenesis, Impairment of Fertility** Gabapentin was given in the diet to mice at 200, 600, and 2000 mg/kg/day and to rats at 250, 1000, and 2000 mg/kg/day for 2 years. A statistically significant increase in the incidence of pancreatic acinar cell adenomas and carcinomas was found in male rats receiving the high dose; the no-effect dose for the occurrence of carcinomas was 1000 mg/kg/day. Peak plasma concentrations of gabapentin in rats receiving the high dose of 2000 mg/kg were 10 times higher than plasma concentrations in humans receiving 3600 mg per day, and in rats receiving 1000 mg/kg/day peak plasma concentrations were 6.5 times higher than in humans receiving 3600 mg/day. The pancreatic acinar cell carcinomas did not affect survival, did not metastasize and were not locally invasive. The relevance of this finding to carcinogenic risk in humans is unclear. Studies designed to investigate the mechanism of gabapentin-induced pancreatic carcinogenesis in rats indicate that gabapentin stimulates DNA synthesis in rat pancreatic acinar cells *in vitro* and, thus, may be acting as a tumor promoter by enhancing mitogenic activity. It is not known whether gabapentin has the ability to increase cell proliferation in other cell types or in other species, including humans. Gabapentin did not demonstrate mutagenic or genotoxic potential in three *in vitro* and four *in vivo* assays. It was negative in the Ames test and the *in vitro* HGPRT forward mutation assay in Chinese hamster lung cells; it did not produce significant increases in chromosomal aberrations in the *in vitro* Chinese hamster lung cell assay; it was negative in the *in vivo* chromosomal aberration assay and in the *in vivo* micronucleus test in Chinese hamster bone marrow; it was negative in the *in vivo* mouse micronucleus assay; and it did not induce unscheduled DNA synthesis in hepatocytes from rats given gabapentin. No adverse effects on fertility or reproduction were observed in rats at doses up to 2000 mg/kg (approximately 5 times the maximum recommended human dose on an mg/m<sup>2</sup> basis). **Pregnancy** Pregnancy Category C. Gabapentin has been shown to be fetotoxic in rodents, causing delayed ossification of several bones in the skull, vertebrae, forelimbs, and hindlimbs. These effects occurred when pregnant mice received oral doses of 1000 or 3000 mg/kg/day during the period of organogenesis, or approximately 1 to 4 times the maximum dose of 3600 mg/day given to epileptic patients on a mg/m<sup>2</sup> basis. The no-effect level was 500 mg/kg/day or approximately 1/2 of the human dose on a mg/m<sup>2</sup> basis. When rats were dosed prior to and during mating, and throughout gestation, pups from all dose groups (500, 1000 and 2000 mg/kg/day) were affected. These doses are equivalent to less than approximately 1 to 5 times the maximum human dose on a mg/m<sup>2</sup> basis. There was an increased incidence of hydronephrosis and/or hydromegaly in rats in a study of fertility and general reproductive performance at 2000 mg/kg/day with no effect at 1000 mg/kg/day, in a teratology study at 1500 mg/kg/day with no effect at 300 mg/kg/day, and in a perinatal and postnatal study at all doses studied (500, 1000 and 2000 mg/kg/day). The doses at which the effects occurred are approximately 1 to 5 times the maximum human dose of 3600 mg/day on a mg/m<sup>2</sup> basis; the no-effect doses were approximately 3 times (Fertility and General Reproductive Performance study) and approximately equal to (Teratology study) the maximum human dose on a mg/m<sup>2</sup> basis. Other than hydronephrosis and hydromegaly, the etiologies of which are unclear, the incidence of malformations was not increased compared to controls in offspring of mice, rats, or rabbits given doses up to 50 times (mice), 30 times (rats), and 25 times (rabbits) the human daily dose on a mg/kg basis, or 4 times (mice), 5 times (rats), or 8 times (rabbits) the human daily dose on a mg/m<sup>2</sup> basis.



# 60-Day Planner

MEETINGS DEADLINES REMINDERS

## October

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
<p>10th International Congress on Neuromuscular Diseases Vancouver, Canada <i>contact:</i> Tel: 604-681-5226 Fax: 604-681-2503 congress@venuewest.com</p>						
13	14	15	16	17	18	19
<p>7th European Congress of Neuropathology Helsinki, Finland <i>contact:</i> Tel: 358-9-5607-500 Fax: 358-9-5607-5020 neuropathology2002@congrex.fi</p>						<p>8th International Congress on Alzheimer's Disease and Related Disorders Stockholm, Sweden <i>contact:</i> Tel: 312-335-5813 internationalconference@alz.org</p>
20	21	22	23	24	25	26
<p>University of California School of Medicine-San Francisco Neuro MR Update in Aspen 2002 Aspen, CO <i>contact:</i> Tel: 415-476-5808 cme@radiology.ucsf.edu</p>	<p>6th International Symposium on Neurobiology and Neuroendocrinology of Aging Bregenz, Austria <b>(June 21–26)</b> <i>contact:</i> abartke@siumed.edu</p>	<p>37th Meeting of the Canadian Congress of Neurological Sciences Vancouver, Canada <i>contact:</i> Tel: 604-681-5226 Fax: 604-681-2503 congress@venuewest.com</p>	<p>24th European Conference on Psychosomatic Research Lisbon, Portugal <i>contact:</i> Tel: 351-1-364-40-97 Fax: 351-1-364-35-25 memotur@mail.telepac.pt</p>			<p>12th Meeting of the European Neurological Society Berlin <i>contact:</i> Tel: 41-616-867-711 Fax: 41-616-867-788 info@akm.ch</p>
27	28	29	30	31		
	<p>Boston University Neurology Update 2002 Cape Cod, MA <i>contact:</i> Tel: 617-638-4905 cme@bu.edu</p>			<p>Halloween</p>		

MEETINGS DEADLINES REMINDERS

## 60-Day Planner

## November

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					<b>1</b>	<b>2</b>
					32nd Annual Meeting of the Society for Neuroscience Orlando, FL <b>(Nov 2-7)</b> <i>Contact:</i> Tel: 202-462-6688 www.sfn.org	
<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
		Schizophrenia Clinical Update 2002 Toronto, Canada <b>(Nov 6-9)</b> <i>Contact:</i> Tel: 905-513-1171 Fax: 905-513-1174 info@scimedcan.com	Southern Illinois University School of Medicine Cerebral Palsy Symposium Springfield, IL <i>Contact:</i> kkochman@wpsmtp.siumed.edu			12th International Symposium on Brain Edema and Brain Tissue Injury Hakone, Japan <b>(Nov 10-13)</b> <i>Contact:</i> edema2002-office@umin.ac.jp
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
Aesculap Akademie Basic Neuroendoscopy Course Tuttlingen, Germany <b>(Nov 11-14)</b> <i>Contact:</i> Tel: 49-7-461-951-015 Fax: 49-7-461-952-050 tanja.bauer@aesculap.de	International Day for Creutzfeldt-Jakob Disease London, England <i>Contact:</i> Tel: 41-1-630-673-993 cjdnet@alzheimers.org.uk	Congreso Regional del Colegio Internacional de Neuropsicofarmacología Buenos Aires, Argentina <b>(Nov 13-17)</b> <i>Contact:</i> inscrioconcra@cuidad.com.ar	Annual Meeting of the Epilepsy Society of Australia Brisbane, Australia <b>(Nov 14-16)</b> <i>Contact:</i> Tel: 02-94-379-333 Fax: 02-99-014-586			
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24/31</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
				Thanksgiving Day		

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The International Journal of Neuropsychiatric Medicine

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**HINDSIGHT, SURVEY STUDIES,  
AND DOMESTIC TERRORISM**

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“Based on field research on crime and disaster, we expected at least three major categories of increased need for therapeutic intervention: (1) Relapse of preexisting psychiatric disorder (eg, MDD, panic disorder, substance abuse, PTSD); (2) new-onset psychiatric disorder due to exposure to the attacks, including but not limited to PTSD; (3) relapse/new-onset psychiatric disorders related to secondary consequences of the attack (eg, protracted unemployment, relocation, and ongoing stressors related to living and/or working in lower Manhattan). However, there was little available data that could inform estimates of exposure and of anticipated rates of PTSD and other psychiatric symptoms. Since criterion A trauma from the *Diagnostic and Statistical Manual of Mental Disorders—Fourth Edition*, are highly heterogeneous, rates of PTSD after severe trauma can vary between 5% and 70%. Although, this range is generally interpreted as evidence that traumatic events can vary considerably in severity, other characteristics of a trauma have been identified, with some consistency, that also appear to contribute to severity (eg, multiple assailants, serious physical injury, witnessing of graphic or gruesome sights). Given the large number of people exposed on September 11th, whether such exposure would produce PTSD in 5% or 50% of eyewitnesses had immediate public health consequences.”

**ARE EARLY INTERVENTIONS EFFECTIVE IN  
TREATING TRAUMATIZED INDIVIDUALS?**

page 650

“One of the problems concerning debriefing is that it may lead to poorer functioning. Last December, *The Cochrane Library* released its third issue. In it were the results from 11 studies that assessed debriefing as a therapeutic intervention. The outcomes suggested that debriefing was not a beneficial treatment tool, and that at 1-year follow-up, it put those who received it at a greater risk for PTSD. Three studies have reported that people who have received debriefing exhibit more PTSD symptoms at follow-up than those who did not receive debriefing. For example, in a 3-year follow-up of road-accident survivors, those who initially received debriefing had worse PTSD symptoms than those who did not receive debriefing.

There are several possible explanations for the toxic effects of debriefing. First, requiring people to emotionally process their memories and the associated affect in the immediate aftermath of the event may compound stress reactions and contribute to overconsolidation of trauma memories. Second, focusing on trauma memories for brief and single sessions may activate anxiety about the experience without permitting habituation to occur. Third, many people may feel distressed by being required to disclose their emotional reactions immediately after a trauma, and this may contribute to further stress reactions.”

**CITALOPRAM AS A VIABLE TREATMENT  
STRATEGY FOR SOCIAL ANXIETY DISORDER**

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“The mean age of the sample was 38 years (SD±11.3). The average duration of illness was 25 years (SD±16.4). One patient met criteria for comorbid dysthymia, two patients for attention-deficit/hyperactivity disorder, and one for a history of major depression in remission. Only one patient was concomitantly receiving a benzodiazepine (diazepam 15 mg/day). Six of 10 patients met our definition of lack of efficacy or intolerance of a prior psychopharmacological treatment trial directed toward SAD. Table 1 shows the study sample characteristics.

Accrued patients were relatively ill with a mean baseline LSAS score of 89 (SD±26), a mean CGI-S rating of 6, ‘severely ill,’ and a mean duration of illness of 25 (±16.4) years. Citalopram, at a mean dose of 55mg (SD±12.7 mg), was well tolerated, with only one patient discontinuing because of side effects (ie, insomnia) at week 4. Side effects were generally mild and transient and included sexual dysfunction, sedation, fatigue, insomnia, dry mouth, nausea, jitteriness, and myalgias.

Patients improved significantly on all outcome measures (LSAS:  $t(9)=3.55$ ,  $df=9$ ,  $P<.01$ ; CGI-S:  $t(8)=4.26$ ,  $P<.005$ ; HAM-A:  $t(8)=4.87$ ,  $P<.005$ ; HAM-D:  $t(8)=2.56$ ,  $P<.05$ ; SDS:  $t(8)=2.7$ ,  $P<.05$ ), with a mean decrease in LSAS of 37 (±32.9) points (Table 2 and Figure 1). Seven of 10 patients met responder criteria at endpoint, including 67% of patients refractory to previous treatment.”

**PHARMACOLOGICAL TREATMENT OPTIONS  
FOR AUTISTIC SPECTRUM DISORDERS**

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“The idea of using target symptoms in making pharmacological decisions in ASD reflects that there are no specific pharmacological treatments for the social and communicative core symptoms of the disorders. It is more appropriate to conceptualize pharmacological intervention in terms of treating specific symptoms rather than characterize the medications as being given for diagnoses. We are not ‘treating autistic disorder,’ rather we are ‘treating a constellation of symptoms that are interfering with social, academic, or vocational functioning.’ All those involved with the child and assessing the response to the medication (physicians, therapists, parents, caretakers, teachers) need to understand exactly what symptoms are being focused upon as targets of the medication. This will greatly simplify the decision-making process regarding medication and aid the understanding of all involved in precisely what is trying to be accomplished.”

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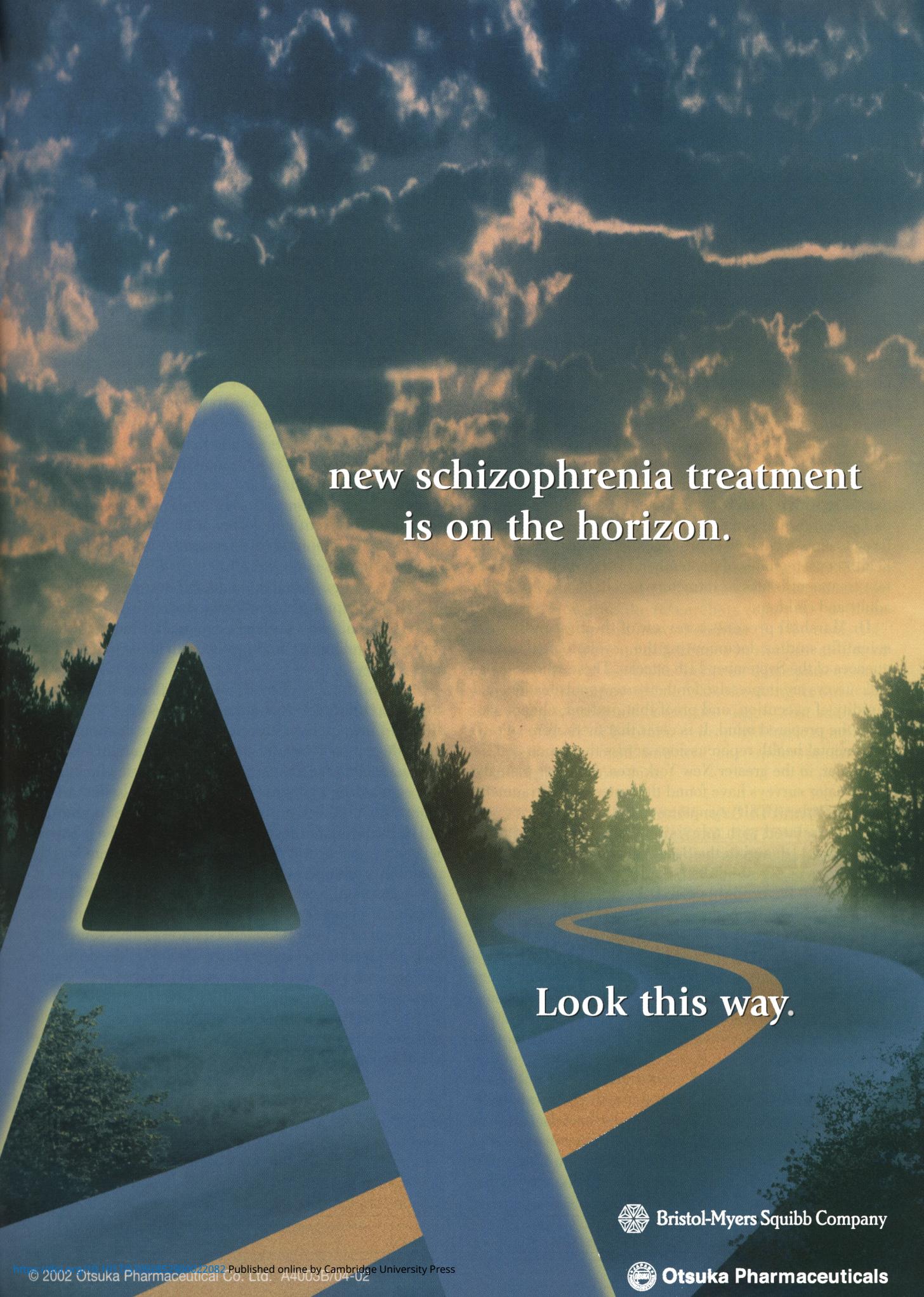
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