The International Journal of Neuropsychiatric Medicine

#### Late-life Depression and Dementia

Guest Editor-Benoit H. Mulsant, MD

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#### ORIGINAL RESEARCH

The Establishment of a Brain Bank for the Study of Late-life Depression: A Feasibility Study of Factors **Facilitating Consent** 

C. McFarland, R.A. Sweet, S.T. DeKosky, P.R. Houck, B.H. Mulsant, B.G. Pollock, and C.F. Reynolds III

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In a teratology study in rabbits, an increased incidence of postimplantation letal loss occurred in dams exposed to 60, 300 and 1500 mg/kg/day, or less than approximately ½ to 8 times the maximum human dose on a mg/m² basis. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this frug should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Use in Nursing Mothers Gabapenth in secreted into human milk following oral administration. A nursed infant could be exposed to a maximum dose of approximately 1 mg/kg/day of gabapentin because the reflect on the nursing infant is unknown, Neutronin's should be used in women who are nursing only in the benefits clearly outweigh the risks. Padiatric Use Effectiveness in pediatric patients below the age of 3 years has not been established (see CLINICAL PHARMAROCLOGY, Clinical Studies). Geriatric Use Clinical studies of Neurontin did not include sufficient numbers of subjects aged 65 and over to determine whether they responded differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, does selection for an elderly patients should be caultious, usually starting at the low end of the docing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased may be greater in patients with impaired renal function. Because delderly patients are more likely to have decreased may be greater in patients with impaired renal function. Because delderly patients are more likely to have decreased may be greater in patients with impaired renal func

#### ADVERSE REACTIONS

ADVERSE REACTIONS

The most commonly observed adverse events associated with the use of Neurontin® in combination with other antiepileptic drugs in patients > 12 years of age, not seen at an equivalent frequency among placebo-treated patients, were somolence, drugs in patients > 12 years of age, not seen at an equivalent frequency among placebo-treated patients, were somolence, drugs in patients and the patients and the patients are patients as to 12 years of age, not seen at an equal frequency among placebo-treated patients, were varied infection, tever, nausea and/or vomiting, somonence, and hostility (see WARNINGS, Neuropsychiatric Adverse Events). Approximately 7% of the 2074 patients > 12 years of age and approximately 7% of the 449 pediatric patients 3 to 12 years of age who received Neurontin® in premarketing clinical trials discontinued treatment because of an adverse event. The adverse events most commonly associated with withdrawal in patients > 12 years of age were somolence (1.2%), ataxia (0.8%), latique (0.6%), nausea and/or vomiting (0.6%), and diziness (0.6%). The adverse events most commonly associated with withdrawal in patients > 12 years of age were somonlence (1.2%), ataxia (0.8%), latique (0.6%), nausea and/or vomiting (0.6%), and diziness (0.6%). The adverse events most commonly associated with withdrawal in patients > 12 years of age were somolence (1.2%), hostility (1.3%), hostility (1.3%) and hyperkinesia (1.1%). Incidence in Controlled Clinical Trials Table 1 lists treatment-emergent signs and symptoms that occurred in at least 1% of Neurontin®-treated patients > 12 years of age with epilepsy participating in placebo-controlled trials and were numerically more common in the Neurontin® group, in these studies, either Neurontin® propoup, in the patients of the patients of the prescribed patients and the entire patient patients and the entire patient patients and the patient patients and the patient patients and the patient patients of the prescribed patients and the entire patient patien

TABLE 1. Treatment-Emergent Adverse Event Incidence in Controlled Add-On Trials in Patients >12 Years of Age (Events in at least 1% of Neurontin patients and numerically more frequent than in the placebo group)

Neurontin®a N=543 %	Placebo <sup>a</sup> N=378 %	Body System/ Adverse Event	Neurontin®a N=543 %	Placebo <sup>a</sup> N=378 %
		Nervous System (cont'	d)	
11.0	5.0	Tremor	6.8	3.2
2.9	1.6	Nervousness	2.4	1.9
1.8		Dysarthria	2.4	0.5
1.7	0.5	Amnesia	2.2	0.0
		Depression	1.8	1.1
1.1	0.3	Thinking Abnormal	1.7	1.3
		Twitching	1.3	0.5
			1.1	0.3
		Respiratory System		
		Rhinitis		3.7
				1.6
	8.0	Coughing	1.8	1.3
ohatic Systems	i	Skin and Appendages		
1.1	0.5			0.0
m			1.3	0.5
1.1	8.0		1.5	1.1
				1.9
			4.2	1.1
		Laboratory Deviations		
8.3	4.0	WBC Decreased	1.1	0.5
	N=543 % 11.0 2.9 1.8 1.7 1.1 2.2 1.7 1.5 1.5 1.5 1.5 1.1 phatic Systems	N=543 N=378 %  11.0 5.0 2.9 1.6 1.8 0.5 1.7 0.5  1.1 0.3 2.2 0.5 1.7 0.5 1.5 0.8 1.5 0.3 1.5 0.8 1.5 0.8 2.0 1.9 1.1 0.8  1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8	N=643	N=643

<sup>&</sup>lt;sup>a</sup> Plus background antiepileptic drug therapy. <sup>b</sup> Amblyopia was often described as blurred vision

Other events in more than 1% of patients >12 years of age but equally or more frequent in the placebo group included: headache, viral infection, fever, nauses and/or vomiting, abdominal pain, diarnhea, convulsions, confusion, insomnia, emotional lability, rash, acne. Among the treatment-emergent adverse events occurring at an incidence of at least 10% of Neurontin-Teaded patients, somnolence and ativatia appeared to exhibit a positive dose-response relationship. The overall incidence of adverse events and the types of adverse events seen were similar among men and women treated with Neuronint<sup>®</sup>. The incidence of adverse events increased slightly with increasing age in patients treated with either Neurontint<sup>®</sup> or placebo. Because only 3% of patients (289/291) in placebo-controlled studies were identified as norwhite (black or other), there are insufficient data to support a statement regarding the distribution of adverse events by race. Table 2 lists treatment-emergent signs and symptoms that occurred in at least 2% of Meurontin-treated patients 3 to 12 years of age with epilepsy participating in placebo-controlled trials and were numerically more common in the Neurontin group. Adverse events were usually mild to moderate in intensity.

TABLE 2. Treatment-Emergent Adverse Event Incidence in Pediatric Patients Age 3 to 12 Years in a Controlled Add-On Trial

(Events in at least 2% of Neurontin patients and numerically more frequent than in the placebo group)

		•	, ,		• .,
Body_System/ Adverse Event	Neurontin <sup>a</sup> N=119 %	Placebo <sup>a</sup> N=128 %	Body System/ Adverse Event	Neurontin <sup>a</sup> N = 119 %	Placebo <sup>a</sup> N=128 %
Body As A Whole			Nervous System		
Viral Infection	10.9	3.1	Somnolence	8.4	4.7
Fever	10.1	3.1	Hostility	7.6	2.3
Weight Increase	3.4	0.8	Emotional Lability	4.2	1.6
Fatigue	3.4	1.6	Dizziness	2.5	1.6
Digestive System			Hyperkinesia	2.5	0.8
Nausea and/or Vomiting	8.4	7.0	Respiratory System		
·			Bronchitis	3.4	0.8
			Respiratory Intection	2.5	0.8

a Plus background antiepileptic drug therapy

Other events in more than 2% of pediatric patients 3 to 12 years of age but equally or more frequent in the placebo group included: pharyngitis, upper respiratory infection, headache, rhinitis, convulsions, diarrhea, anorexia, coughing, and otitis

Other Adverse Events Observed During All Clinical Trials Neurontin\* has been administered to 2074 patients Other Adverse Events Observed During Afl Clinical Trials Neurontin® has been administered to 2074 patients 
-12 years of age during all clinical trials, only some of which were placebo-controlled. During these trials, all adverse 
events were recorded by the clinical investigators using terminology of their own choosing. To provide a meaningful 
estimate of the proportion of individuals having adverse events, similar types of events were grouped into a smaller number 
of standardized categories using modified COSTART dictionary terminology. These categories are used in the listing how. 
The frequencies presented represent the proportion of the 2074 patients >12 years of age exposed to Neurontin® who 
experienced an event of the type cited on at least one occasion while receiving Neurontin®. All reported events are 
included except those already listed in the previous table, those too general to be informative, and those not reasonably 
associated with the use of the drug. Events are further classified within body system categories and enumerated in order 
of decreasing frequency using the following definitions: frequent adverse events are defined as those occurring in at least 
1/100 patients, inferquent adverse events are those occurring in 1/100 to 1/1000 patients, rare events are those occurring in 1/100 to 1/1000 patients. Body As A Whole: Frequent: asthenia, malaise, face edema; infequent: allergy, generalized

edema, weight decrease, chill: Rare: strange feelings, lassitude, alcohol intolerance, hangover effect. **Cardiovascular System:** Frequent: hyperlension; *Infrequent:* hypotension, angina pectoris, peripheral vascular disorder, palpitation, tachycardia, migraine, murmur; Rare: atrial fibrillation, heart failure, thrombophlebitis, deep thrombophlebitis, myocardial edema, weight decrease, chilli, Rares strange feelings, lassitude, alcohol intolerance, hangower effect. Cardiovascular System: Fraquent: hyperlansion: Infraquent: hypotension. Infraquent: hypotension angina pedoris, peripheral vascular disorder, palpitation, tachycardia, migraine, murmur; Rare: atrial librillation, heart failure, thrombophlebitis, deep thrombophlebitis, myocardial infaction, carebrovascular accident, pulmonary embous, hyperipidemia, hypercholesterolemia, pericardial erlusion, pericardiiii pulmonary embous, hyperipidemia, hypercholesterolemia, pericardia effusion, pericardiiis. Digestive System: Fraquent: anorexia, fiatulence, gingivitis; Infraquent: glossitis, gum hemorrhage, thirst, stomatitis, orceased saliration, pastronetrisis, hemorrholis, bloody stools, feal incontinence, hepatomegaly, Rare dysphagia, excutation, pancreatitis, peptic ulcer, colitis, blisters in mouth, tooth discolor, perieche, salivary gland enlarged, lip hemorrhage, esophagitis, hatal hernia, hernatemesis, proctisi, irritate bevel syndrome, read hemorrhage, esophagia sparance. Hematologic and Lymphatic System: Fraquent: purpura most often described as bruises resulting from physical traum; Intrequent: anemia, Intrombucy openia, hymphatiencopathy, Rare: VMBC count increased, hymphocytosis, non-hodykin's lymphoma. bleeding time increased. Musculoskeletal System: Fraquent: anthralia; infraquent tendinitis, anthritis, joint sitifiness, joint swelling, positive Romberg lest; Rare: costochondritis, osteoprosis, burstis, contracture. Nervous System: Fraquent: vertigo, hyperkinesia, paresthesia, decreased or absent reflexes, increased reflexes, arxiety, hostility: Infraquent: Cristola, parkposis; kipp, creebellar dystunction, positive Babinski sirgi, docreased position sense, subdural hematoma, apathy, hallucination, decrease or loss of libido, apidation, paranoia, depersonalization, euphoria, feeling high doped-rup sensation, suicidal, psychosis; Rare chroenabetosis, ordacial dyskinasia encephalopathy, nerve palsy, personality

#### DRUG ABUSE AND DEPENDENCE

The abuse and dependence potential of Neurontin® has not been evaluated in human studies.

#### OVERDOSAGE

A lethal dose of gabapentin was not identified in mice and rats receiving single oral doses as high as 6000 mg/kg. Signs of acute toxicity in animals included ataxia, labored breathing, plosis, sedation, hypoactivity, or excitation. Acute oral overdoses of Neurontin' up to 49 grams have been reported. In these cases, double vision, sturred speech, drowsiness, lethargy and diarrhea were observed. All patients recovered with supportive care. Gabapentin can be removed by hemodialysis. Although hemodialysis has not been performed in the few overdose cases reported, it may be indicated by the patient's clinical state or in patients with significant renal impairment.

#### DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION

Neurontin® is recommended for add-on therapy in patients 3 years of age and older. Effectiveness in pediatric patients below the age of 3 years has not been established. Neurontin® is given orally with or without food. Patients >12 Years of Age: The effective dose of Neurontin® 100 to 1800 mg/day and given in divided doses (three times a day) using 300-or 400-mg capsules or 600-or 800-mg labeles. The starting dose is 300 mg three times a day. If necessary, the dose may be increased using 300-or 400-mg capsules or 600-or 800-mg labeles. The starting dose is 300 mg three times a day, if necessary, the dose up to 2400 mg/day have been well tolerated in long-term clinical studies. Doses of 3600 mg/day have also been administered to a small number of patients for a relatively short duration, and have been well tolerated. The maximum time between doses in the TLID. Schedule should not exceed 12 hours. Pediatric Patients Age 3-12 Years: The starting dose should range from 10-15 mg/kg/day in 3 divided doses, and the effective dose reached by upward titration over a period of approximately 3 days. The effective doses of Neurontin in patients 5 years of age and older is 25-35 ms/flydray and given in divided doses (three times a day). (See CLINICAL PHARMACOLOGY, Pediatrics,) Neurontin® may be administered as the oral solution, capsule, or table, or using combinations of these formulations. Dosages up to 50 mg/kg/day have been well tolerated in a long-term clinical study. The maximum time interval between doses should not exceed 15 hours. It is not necessary to monitor gabapentin plasma concentrations to optimize Neurontin® therapy. Further, because there are no significant pharmacokinetic interactions among Neurontin® and other commonly used antispileptic drugs, the addition of Neurontin® described in saided to the therapy, this should be done gradually over a minimum of 1 week. Creatinine clearance is difficult to measure in outpatients. In patients with stable renal function, creatinine cleara

 $C_{Cr} = (140-age)(weight)/[(72)(S_{Cr})]$ for males

where age is in years, weight is in kilograms and Scy is serum creatinine in mg/dL. Dosage adjustment in patients ≥12 years of age with compromised renal function or undergoing hemodialysis is recommended as follows:

TABLE 3. Neurontin® Dosage Based on Renal Function

Renal Function Creatinine Clearance (mL/min)	Total Daily Dose (mg/day)	Dose Regimen (mg)	
>60	1200	400 T.I.D.	
30-60	600	300 B.I.D.	
15-30	300	300 Q.D.	
<15	150	300 Q.O.D. <sup>a</sup>	
Hemodialysis		200-300°	

Every other day. Loading dose of 300 to 400 mg in patients who have never received Neurontin\*, then 200 to 300 mg Neurontin\*

The use of Neurontin® in patients <12 years of age with compromised renal function has not been studied

R, only

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#### NEURONTIN® (gabapentin) capsules NEURONTIN® (gabapentin) tablets NEURONTIN® (gabapentin) oral solution

Before prescribing, please see full prescribing information. A Brief Summary follows. 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

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

WARNINGS

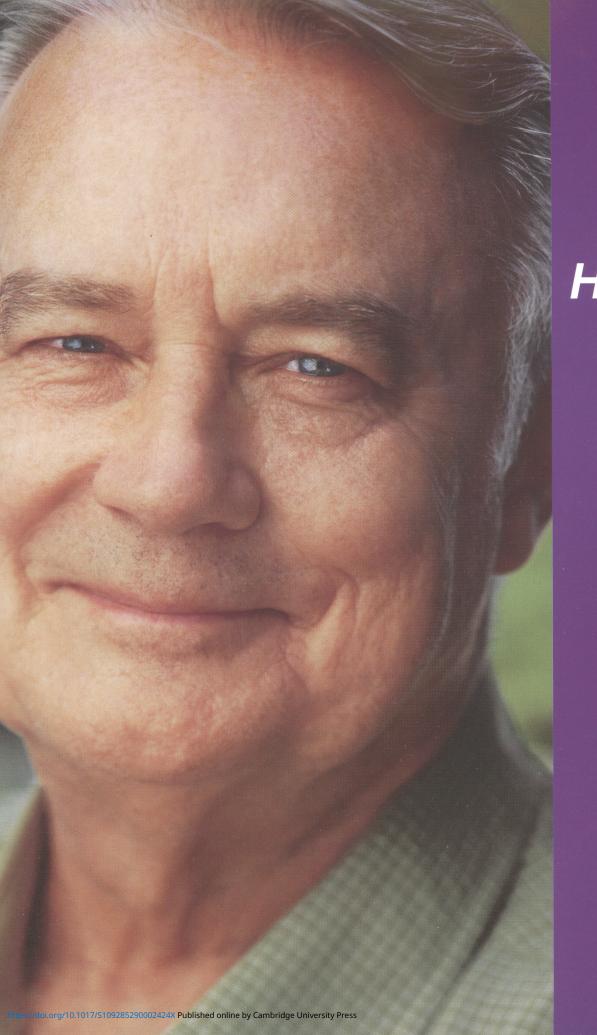
Neuropsychiatric Adverse Events—Pediatric Patients 3-12 Years of Age Gabapentin use in pediatric patients with epilepsy 3-12 years of age is associated with the occurrence of central nervous system related adverse events. The most significant of these can be classified into the following categories: 1) emotional lability (primarily behaviora) problems, 2) hostility, including aggressive behaviors, 3) Mought 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 68 (gabapentin-treated patients) vs. 13% (placebetreated 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 freatment occurred in 1.3% of patients reporting emotional lability and hyperkinesia and 0.9% of gabapentin-treated patients reporting hostility and hyperkinesia and 0.9% of gabapentin-treated patients reporting hostility and hyperkinesia and 0.9% of gabapentin-treated patients reporting hostility and intogration of patients patients reporting hostility and intogration of patients prepared patients reporting hostility of increasing sizure 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 2014 patients treated with Neurontin® across all studies in patients > 12 years of age, the incidence of status epilepticus in patients receiving hostility of increasing of the patients of the patients and patients of the pati

#### **PRECAUTIONS**

that in the Neurotinin program, to 0.005 for paleins with refractory spilepsy). Consequently, whether these figures are reasouring or raise further concern depends on comparability of the populations reported upon to the Neurotinin control and the accuracy of the estimates provided.

\*\*PRECAUTIONS\*\*

Information for Patients\*\* Patients should be instructed to bele Neurotinin only as prescribed. Patients should be advised that Neurotinin' for gauge withering or not a affects their mental and or on the patients of the pati



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## STRONG SILENT TYPE. LIKE HIS NEURONTIN.

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

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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

add control. add confidence. add NEURONTIN (gabapentin)

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#### The International Journal of Neuropsychiatric Medicine

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

BRIEF SUMMARY of PRESCRIBING INFORMATION

INDICATIONS AND USAGE

SEROULEI, is indicated for the treatment of schizophrenia.

The efficacy of SEROQUEL in schizophrenia was established in short-term (6week) controlled risks of schizophrenia inpatents (See CLINICAL PHARMACOLOGY)

The effectiveness of SEROQUEL in long-term use, that is, for more than 6weeks not been systematically evaluated in controlled risks. Therefore, the physician

who elects to use SEROQUEL for extended periods should periodically re-evaluate
the long-term sectioness of the drug for the individual patient.

CONTRAMOICATIONS

SEROQUEL is contraindicated in individuals with a known hypersensitivity to this medication or any of its ingredients.

Wannibus Malignand Syndrome (MMS) has been reported sometimes referred to as Neuroleptic Malignand Syndrome (MMS) has been reported in association with administration of antispeythoid crigor. Two possible cases of MMS (2016) (

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have been associated with an indeposited chargues, Apparation presumons as a common cause of michelity and michelity and professions, in particular times with a strought of the profession of t

SEROQUEL® (quetiapine fumarate) Tablets

Nursing Mothers: SEROQUEL was excreted in milk of treated animals during lactation. It is not known if SEROQUEL is excreted in human milk. It is recommended that women receiving SEROQUEL should not breast feed. Pediatric Use: The safety and effectiveness of SEROQUEL in pediatric patients have not been established. @erhafte Use: Of the approximately 2400 patients in clinical studies with SEROQUEL, 8½ (190) were 65 years of age or over. In operart, there was no indication of any different tolerability of SEROQUEL in the elderly compared to younger adults. Nevertheless, the presence of factors that might decrease pharmacodynamic response to SEROQUEL, or cause poorer tolerance or orthostasis, should lead to consideration of a lower starting dose, slower thration, and careful monitoring during the initial dosing period in the elderly. The mean plasma clearance of SEROQUEL was reduced by 30% to 50% in elderly patients when compared to younger patients.

Adverse Events Gecurring at an incidence of 1% or More Ameng SEROQUEL
Treated Patients in Short-Ferm, Placebe-Coeffordier Treits. The most commonly
bearned adverse events associated with the use of SEROQUEL (incidence of 1% or
greater) and observed at a rate on SEROQUEL at least twice that of placebo were
the following treatment-emergent adverse experiences occurred at an indicate rate
of 1% or more, and were at least as frequent among SEROQUEL treated patients,
3- to 6-week placebo-controlled trials.

\*\*Body as a White: Heacache, Ashmai, Abdominal pain, Back pain, Fever, Nerveux
Systems: Somoelevic, Discress: Olgenesic Systems: Conspication, Dry Models
and Nutritional Bloarders: Whight gain: Stan and Appendages: Rash; Respiratory
Systems: Somoelevic, Discress of the Seroguel Systems: Conspication, Dry Models
and Nutritional Bloarders: Whight gain: Stan and Appendages: Rash; Respiratory
Systems: Rhinitis; Special Senses: Car pain
Invents for which the SEROQUEL incidence was equal to or less than placebo are
not lested in the table, but included the following: pain, inlection, chest pain, hostiny,
accidental injury, hypertension, buyberesion, nuases, wornthing, darhers, mydgio,
accidental injury, hypertension, by potension, accidental injury, hypertension, partschess, pharyogitis, dry skin, ambyopia and urriary treat infection.

Explorations for inferactions on the basis of genders, and rate and did not reveal any
clinically meaningful differences in the adverse event occurrence on the basis of these
event places of the properties of the properties of the places of the pla



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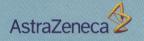




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