



February 21, 2002

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# Redacted

Dear Dr. Redacted

Your representative, Michael Santeramo, forwarded your request for information regarding the use of Paxil® (paroxetine hydrochloride) for the treatment of depression, obsessive compulsive disorder (OCD), panic disorder, social anxiety disorder (social phobia) or generalized anxiety disorder (GAD) in children and/or adolescents.

## SUMMARY

- *Paxil* is not FDA-approved for use in children or adolescents; therefore, we may not offer any recommendations regarding the use of *Paxil* in these patients.
- A search of the Medical Information Department's published literature database and MEDLINE identified several studies and case reviews discussing the use of *Paxil* in children or adolescents for the treatment of depression, OCD, panic disorder or social anxiety disorder. In the identified publications patient ages ranged from 5 to 18 years.
- A double-blind, placebo-controlled study by Keller et al evaluated treatment of *Paxil* and imipramine in adolescents with depression. In this study *Paxil* was superior to placebo by several assessment methods, including 1) response defined as Hamilton Depression Rating Scale (HAM-D) total score  $\leq 8$ ; 2) HAM-D depressed mood item; 3) the Schedule for Affective Disorders and Schizophrenia for School-age Children – Lifetime version (K-SADS-L) depressed mood item; and 4) CGI-I score of 1 (very much improved) or 2 (much improved). *Paxil* was better tolerated than treatment with imipramine.

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- Another study in depression showed numerical improvement in response based on Montgomery Asberg Depression Rating Scale (MADRS) after treatment with *Paxil* versus placebo, however statistical significance was not reached. Two additional open-label studies and one retrospective study reported improvement in depression symptoms with the treatment of *Paxil*.
- The use of *Paxil* in the treatment of children and adolescents with OCD has been evaluated in several open-label studies. Overall, treatment with *Paxil* has shown an improvement in OCD symptoms. In a study of children and adolescents with OCD who had comorbid psychiatric conditions, this group was found to be more likely to relapse following discontinuation of treatment than those patients without comorbidity.
- A retrospective study by Masi et al evaluated treatment of *Paxil* in children and adolescents with panic disorder. *Paxil* was shown to be effective based on the Clinical Global Impression Severity (CGI-S) scale. In addition, there are published case reports in this population.
- Published data regarding the use of *Paxil* in children or adolescents for the treatment of social anxiety disorder are limited to a few case reports. No studies or case reports were identified that discussed the use of *Paxil* for the treatment of GAD.
- Findling et al conducted a pharmacokinetic study in children and adolescents with depression which demonstrated many similarities between adults and children in terms of pharmacokinetics. However, the half-life was considerably shorter in the younger patients compared to adults suggesting more rapid clearance.
- Conclusions regarding the efficacy and safety of *Paxil* in children and adolescents for the treatment of depression, OCD, panic disorder, social anxiety disorder and GAD awaits additional adequately designed, double-blind, placebo-controlled trials.

### Depression

Keller et al (2001) conducted an 8-week, double-blind, placebo-controlled, multi-center trial comparing the safety and efficacy of *Paxil* and imipramine with placebo in the treatment of adolescents with major depression. A total of 275 adolescents (12 to 18 years), who met DSM-IV criteria for major depression, were randomized to receive *Paxil* 20 mg/day (n = 93), imipramine 200 mg/day (dose titrated from 50 mg/day over a period of 3 weeks, n = 95), or placebo (n = 87). Patients were treated for a total of eight weeks and 190 patients completed the study. If no response was noted at week 4, treatment could be increased over the next two weeks to a maximum of 40 mg/day of *Paxil* or 300 mg/day of imipramine. For doses of *Paxil* 30-40 mg/day, *Paxil* could be administered in divided doses at the clinician's discretion.

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The primary efficacy parameters included the proportion of responders with a  $\geq 50\%$  reduction from baseline on the HAM-D or a final HAM-D score of  $\leq 8$  and the mean change from baseline in HAM-D total scores at endpoint. Secondary assessments included mean Clinical Global Impression Improvement (CGI-I) scores and the 9-item depression subscale of the Schedule for Affective Disorders and Schizophrenia for School-age Children – Lifetime version (K-SADS-L). In the depression-related parameters, *Paxil* was statistically superior to placebo at endpoint among four parameters: 1) response defined as HAM-D  $\leq 8$ ; 2) HAM-D depressed mood item; 3) K-SADS-L depressed mood item; and 4) CGI-I score of 1 (very much improved) or 2 (much improved).

Analysis of last observation carried forward (LOCF) at endpoint resulted in significant separation ( $p = 0.02$ ) between the percentage of responders defined as HAM-D  $\leq 8$  among those treated with *Paxil* (63.3%) compared to placebo (46%). The percentage of responders in the imipramine group (50%) did not separate from placebo. Analysis of observed cases (OC) at endpoint resulted in significant separation ( $p = 0.02$ ) between the percentage of responders treated with *Paxil* (76.1%) compared to placebo (57.6%). The percentage of patients treated with *Paxil* who had a CGI-I of 1 or 2 was 65.6% compared to 48.3% with placebo ( $p = 0.02$ ). Premature withdrawal rates from the study were highest (40%) in the imipramine group ( $p = 0.02$  versus placebo), compared to 28% and 20% in the *Paxil* and placebo groups ( $p = 0.60$  versus placebo), respectively. Withdrawal from the study due to adverse events was (31.5%) in the imipramine group, compared to 9.7% and 6.9% in the *Paxil* and placebo groups, respectively. The most common adverse events during therapy with *Paxil* included headache, nausea, dizziness, dry mouth and somnolence. All of the events were reported in an incidence similar to placebo with the exception of somnolence, *Paxil* 17.2% vs. placebo 3.4%. In the imipramine treatment group, the most common adverse events included dizziness, dry mouth, headache, nausea and tachycardia.

In a double blind, placebo-controlled, multi-center study, the efficacy of *Paxil* and placebo in the treatment of adolescents (ages 13-18 years) with major depression based on DSM-IV criteria was evaluated (Data on File; Milin 1999). Patients were treated with *Paxil* 20-40 mg/day ( $n = 187$ ) or placebo ( $n = 99$ ) for 12 weeks. Efficacy was based on the proportion of patients with a  $\geq 50\%$  reduction in the MADRS and a change (between baseline and endpoint) in the K-SADS-L. Based on  $\geq 50\%$  reduction in the total MADRS score at the end of 12 weeks, treatment results were numerically higher with *Paxil*, however, this result did not reach statistical significance (70% vs 66.2%,  $p = 0.633$ ). Nausea (24.2%), headache (18.7%) and dizziness (10.4%) were the most commonly reported adverse events in the group treated with *Paxil*.

Rey-Sánchez et al (1997) conducted an open-label study of *Paxil* in the treatment of major depression in children less than 14 years of age. Patients ( $n = 45$ , mean age 10.7 years), meeting DSM-III-R criteria for major depressive disorder, were treated with *Paxil* (initial dose 10 mg/day; mean final dose 16 mg/day) in an outpatient setting. Treatment was continued until the depressive episode was completely resolved. Disease severity was measured utilizing a 5-point Clinical Global Severity scale (CGI-S) at baseline, month 1,

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month 3 and at the end of treatment. Response was reported as the intensity of therapeutic response (ITR), a reflection of point change in CGI-S. At baseline, the mean CGI-S was 3.0. At month 1, the mean CGS was 2.2 (mean ITR = 0.8) and at month 3 the mean CGI-S was 1.2 (mean ITR = 1.8). A complete remission of symptoms was reported in all patients at the end of treatment (mean duration 8.4 months). No patient experienced a worsening of symptoms. Patients were permitted to receive benzodiazepines during the study if needed; 16/45 (36%) patients were treated as such for insomnia or acute anxiety. Adverse events were reported in 4/45 (9.5%) of the patients (vomiting during the first four days of treatment, anxiety and nervousness, abdominal pain, abdominal cramps and nausea). These events were reported as mild to moderate with no patient withdrawals.

Masi et al (1997) reported improvement in four of seven patients (ages 14 to 18 years) with intellectual disability (IQ range 53 to 68) treated with *Paxil* (20 to 40 mg/day) for major depressive disorder. Adverse events included sedation, insomnia, nausea and dyspepsia. In a retrospective review, Rodriguez-Ramos et al (1996) reported findings in 25 adolescents, aged 13 to 17 years, treated with *Paxil* 10 to 40 mg/day for either primary or secondary depression. Total remission was reported for 11/25 (44%) patients, improvement with residual symptoms in 8/25 (32%) patients, and no change in 4/25 (16%) patients. Common adverse events included asthenia, somnolence and nausea. Two patients withdrew from the treatment due to adverse events (dizziness with hypotension, anxiety).

### Obsessive Compulsive Disorder

Carpenter et al (2000) reported on the safety and efficacy of *Paxil* for the treatment of OCD in children (8 to 11 years; n = 167) and adolescents (12 to 17 years; n = 168). Following 16 weeks of open-label therapy of *Paxil* 10 to 60 mg/day, responders, defined as a  $\geq 25\%$  decrease in the Children's Yale-Brown Obsessive Compulsive Scale (CY-BOCS) score and a CGI-I score of 1 or 2, were randomized to receive *Paxil* or placebo in a double-blind 16-week extension. The baseline mean CY-BOCS score was 26.3. During the first phase of the study, the mean CY-BOCS score was reduced by 13. Of those completing the first 16 weeks of the study, 86% met response criteria. After the double-blind phase, 28.9% in the *Paxil* group experienced a further decrease in CY-BOCS score compared to 14.4% in the placebo group ( $p = 0.023$ ). Mean increase, or worsening, in CY-BOCS score was +3.6 in the *Paxil* group compared to +6.9 in the placebo group ( $p = 0.008$ ). While relapse rates (defined as any worsening of CGI-I score for two consecutive visits or a worsening of 2 or more points at any single visit) were lower for *Paxil* (34.7%) compared to placebo (43.9%), the findings did not reach statistical significance ( $p = 0.136$ ).

Adverse events leading to discontinuation were generally low; the most common events included hostility (2.7%), hyperkinesia (2.1%) and agitation (1.8%). Even though the incidence of adverse events was similar in children and adolescents, agitation (11.4% vs 3.6%), hyperkinesia (14.4% vs 8.3%), trauma (18.6% vs 8.3%), infection (12.0% vs

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7.1%), manic reaction (4.2% vs 0.6%) and myoclonus (9.6% vs 4.8%) were reported more frequently in the younger age group.

Wagner et al. (2001) also reported on this study regarding the safety of *Paxil* for the treatment of OCD (n = 335). Adverse events, laboratory test results, vital signs, and ECGs were evaluated to determine safety. Headache (24.5%), asthenia (21.5%), and insomnia (21.2%) were the most commonly reported adverse events.

In a post-hoc analysis, Gellar et al (2001) evaluated the influence of psychiatric comorbidity on response and relapse rates in children and adolescents with OCD (n = 335) treated with *Paxil*. Upon entering the study, 57.6% patients had at least one psychiatric disorder in addition to OCD and 30.4% of these OCD patients had multiple disorders ( $\geq 2$ ). Overall, the response rates in patients with comorbid conditions did not differ significantly from patients without comorbid conditions (68% vs 75%, respectively,  $p = 0.163$ ). The response rates in patients with tic disorders, ADHD, or oppositional defiant disorder (53%, 56%, and 39%) were significantly less than those patients with only OCD (75%,  $p < 0.05$ ). The presence of comorbid psychiatric disorders was associated with a statistically significant increase in relapse rate in the placebo group only ( $p < 0.05$ ). This suggests that continued *Paxil* administration may prevent relapse in patients with comorbid conditions.

Diler et al (2000) conducted a 12-week, open-label study to assess the safety and effectiveness of paroxetine in 47 pediatric patients with OCD (DSM-IV criteria) not previously treated for the condition. Of the enrolled patients (aged 9 to 15 years), 19 (40%) had one comorbid diagnosis, 8 (17%) had two comorbid diagnoses, 4 (9%) had three comorbid diagnoses and 16 (34%) had no comorbid diagnoses. The comorbid diagnoses were major depression (n = 14), social anxiety disorder (n = 10), Tourette's syndrome (n = 5), generalized anxiety disorder (n = 4), panic disorder (n = 4), stuttering (n = 4), conversion disorder (n = 4), attention-deficit hyperactivity disorder (n = 2), conduct disorder (n = 2), trichotillomania (n = 2), encopresis (n = 1), and night terror (n = 1). Patients started treatment with paroxetine 10 mg/day for one week and were increased to a fixed dose of paroxetine 20 mg/day for five weeks; for the following six weeks the treating psychiatrist could maintain or change the dosage based on efficacy or adverse events. During the study, the mean dose was paroxetine 20.7 mg/day. No additional medication was used. Efficacy was assessed at baseline, weeks 3, 6 and 12 by Maudsley Obsessive Compulsive Inventory (MOCI), Children's Depression Inventory (CDI), Clinical Global Impressions-Severity of illness (CGI-SI) scale and Spielberger's State-Trait Anxiety Inventory for Children (SAI-C and TAI-C). Adverse events were assessed by the Adverse Experience Scale and the CGI-Adverse Effects scale.

At week 6, evaluation of 42 patients (five patients withdrew at week 6 due to noncompliance with study protocol) revealed significantly lower scores on the total MOCI, CDI, SAI-C, TAI-C and CGI-SI scale. These findings were sustained at study endpoint. At week 12, 61.9% (26) patients showed  $\geq 50\%$  improvement according to the MOCI. The mean reduction in the CGI-SI score was  $56.8\% \pm 19.4\%$ . The most commonly reported adverse events included sleepiness (23.4%), increase in anger (8.5%)

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and fatigue (8.5%). The percentage of patients with no adverse events increased from 34.5% at week 3 to 64.3% at week 12. No patient experienced adverse events severe enough to discontinue the drug.

Rosenberg et al (1999) conducted a 12-week, open-label trial of *Paxil* in 20 children (9 boys, 11 girls) ages 8 to 17 years with OCD (DSM-IV criteria). Twelve of the children had comorbid psychiatric conditions including anxiety disorders other than OCD ( $n = 3$ ), eating disorders ( $n = 3$ ), trichotillomania ( $n = 1$ ), attention-deficit hyperactivity disorder ( $n = 1$ ), dysthymia ( $n = 1$ ), oppositional defiant disorder ( $n = 1$ ) and tic-related/Tourette's disorder ( $n = 2$ ). Response assessments were made at baseline and weeks 2, 4, 6, 8 and 12. Response was evaluated utilizing the CY-BOCS, the Children's Global Assessment Scale (CGAS) and the CGI scale. In addition, the severity of tics and anxiety was evaluated with the Yale Global Tic Severity Scale and the Hamilton Anxiety Rating Scale (HAM-A) at baseline and weeks 4, 8 and 12.

*Paxil* was initiated at 10 mg/day in all patients and could be increased in increments of 10 mg/day every two weeks up to a maximum of 60 mg/day (final mean dose 41 mg/day). Nineteen patients completed 12 weeks of treatment; the remaining patient was assessed at week 8 and was included in the analysis. A significant ( $p = 0.0001$ ) reduction in CY-BOCS scores from baseline was noted at endpoint. Significant improvements in CGAS scores ( $p = 0.0001$ ) and CGI scores ( $p = 0.0001$ ) were also noted (Table 1).

**Table 1: Treatment Response at Endpoint**

	Baseline	Endpoint	p value
CY-BOCS	30.55 $\pm$ 3.50	21.60 $\pm$ 6.83	0.0001
CGAS*	46.79 $\pm$ 7.34	57.47 $\pm$ 7.89	0.0001
CGI	5.63 $\pm$ 0.60	4.26 $\pm$ 1.04	0.0001

\* increase scores indicates improvement

In general, OCD response did not appear to correlate with any comorbid disorders. The two patients with tics did not respond to treatment and one of these patients experienced a worsening of tics. Adverse events were rated every two weeks on the Adverse Experience Scale. Mild adverse events included hyperactivity/behavioral disinhibition ( $n = 6$ ), headache ( $n = 5$ ), insomnia ( $n = 3$ ), gastrointestinal distress ( $n = 3$ ), increased anxiety ( $n = 2$ ), drowsiness ( $n = 1$ ) and dry mouth ( $n = 1$ ); severe treatment-emergent adverse events included suicidal ideation ( $n = 1$ ) and increased tics ( $n = 1$ ). The authors noted that they did not observe any hypomania or mania in these patients.

Thomsen et al (1999) examined the addition of buspirone to existing selective serotonin reuptake inhibitor (SSRI) therapy in six adolescents with OCD. Of these patients, one 15-year-old male was treated with paroxetine. After three months of treatment with paroxetine 60 mg/day (starting dose or titration schedule not provided), there was a reduction of Y-BOCS score from 33 to 28. After approximately 6 weeks of combination therapy with paroxetine and buspirone 20 mg/day, his Y-BOCS score was 22. In addition, a decrease in the subject's obsessive-compulsive symptoms was noted. Specifically, a

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reduction in his evening rituals and less anxiety when trying to resist compulsions. The subject reported extreme tiredness after three weeks of combination therapy, but this dissipated after week 5.

### Panic Disorder

Masi et al (2001) conducted a retrospective study in a natural setting evaluating the safety and efficacy of *Paxil* in the treatment of children and adolescents with panic disorder. A total of 18 patients (7 to 16 years) meeting the DSM-IV criteria for panic disorder were started on *Paxil* (mean initial dose of 8.9 mg/day) and were gradually increased to 40 mg/day, depending on clinical response and adverse events. No concomitant drugs were allowed. Sixteen of these patients had co-morbid conditions, most commonly GAD (55.6%). Patients with mental retardation, pervasive developmental disorder, psychotic disorder, severe motor disorders, and sensory disorders were excluded from the study.

Clinical status was assessed retrospectively at every visit by a 5-point CGI-Severity scale. Based on the CGI scale, 15 patients (83.3%) were considered responders at the final evaluation ( $p < 0.0001$ ). Symptoms improved at a mean dose of 22 mg/day after approximately 21.87 days. The treatment duration in this study was approximately 12 months (mean 11.7 months) with a mean dosage at the final observation of 23.9 mg/day. The most common adverse events were nausea ( $n = 7$ ), tension-agitation ( $n = 7$ ), sedation ( $n = 6$ ), insomnia ( $n = 4$ ), palpitations ( $n = 4$ ), and headache ( $n = 4$ ). In this small study, *Paxil* was well tolerated and effective in children and adolescents with panic disorder.

Response to treatment with a number of different SSRIs, including *Paxil* was evaluated in an naturalistic, open-label study consisting of two phases: an acute treatment period consisting of six to eight weeks and follow-up phase lasting approximately six months (Renaud, 1999). Twelve patients, ages 7 to 17 years (mean age 16 years), with panic disorder (DSM-IV criteria) were included in the study, including eight patients with another comorbid anxiety disorder (generalized anxiety, separation anxiety, social phobia). Assessments were made utilizing a variety of anxiety scales, panic disorder scales, the CGI scale and the CGAS. The frequency of panic attacks was not noted.

Patients were treated with fluoxetine unless there was a previous unsuccessful trial with fluoxetine or the patient refused it. Two patients were treated with *Paxil* during the acute phase (20 or 60 mg/day) and three were treated with *Paxil* during the follow-up phase (10 to 30 mg/day). Because of the naturalistic nature of the study, eight patients, including one of the patients treated with *Paxil*, received a concomitant benzodiazepine (clonazepam or lorazepam).

At the end of the study (end of follow-up) significant improvement was noted in the mean CGI-Severity scores (baseline 4.4, endpoint 2.2,  $p = 0.002$ ). The mean time to achieve a CGI-Improvement score of 1 or 2 (much or very much improved) was 10.5 weeks. Significant improvement was also noted with the C-GAS score (baseline 48.3, endpoint 74.3,  $p < 0.001$ ). The two patients treated with *Paxil* throughout the study had

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improvements from baseline scores of 51 and 45 to final scores of 82 and 70, respectively. Adverse events were assessed with the Side Effects Form for Children and Adolescents. No significant differences were noted in adverse events from baseline to endpoint.

### Social Anxiety Disorder

Mancini et al (1999) reported response to treatment with a serotonergic agent in a consecutive series of seven patients (ages 7 to 18 years) with generalized social anxiety disorder. Five of these patients were treated with *Paxil*; the remaining two patients were treated with sertraline or nefazodone. The initial dose of *Paxil* was in the range of 5 to 20 mg/day. Over a few weeks, the dose was increased until there was a response or the dose was no longer tolerated. The maximum dose ranged from 5 to 80 mg/day. Initial response was seen between week 4 and week 9 of treatment. One adverse event was reported for each of the treatments: somnolence was reported with *Paxil*; diarrhea was reported with sertraline, and difficulty with visual accommodation was reported with nefazodone.

### Pharmacokinetics

Findling et al (1999) conducted an 8-week, open study to assess the pharmacokinetics and safety of paroxetine in 30 adolescents (aged 5 to 17 years) with depression (DSM-IV criteria). In addition to DSM-IV criteria, younger patients needed a score of at least 40 on the Children's Depression Rating Scale (CRDS) and older subjects were required to have a HAM-D score  $\geq 17$ . Patients were initiated on paroxetine 10 mg/day. After four weeks, the dose could be increased to 20 mg/day based on response. Following a single dose of paroxetine 10 mg, the mean C<sub>max</sub>, T<sub>max</sub>, half-life and area under the curve (AUC) were 5.5 ng/mL (SD 4.0), 5.7 ng/mL (SD 1.9), 11.1 hr (SD 5.2) and 0.09 mcg·hr/mL (SD 0.10), respectively. There were 15 subjects who received paroxetine 10 mg/day for eight weeks. For these patients, the average paroxetine concentration was 12.9 ng/mL (SD 8.4) at week 4 and 7.2 ng/mL (SD 7.5) at week 8. There were eight subjects that had their paroxetine dose increased to 20 mg/day at week 4. For these patients, the average paroxetine concentration was 10.0 ng/mL (SD 9.7) at week 4 and 48.9 ng/mL (SD 47.5) at week 8. Efficacy results in terms of HAM-D and CRDS were not provided.

Overall, adverse events were mild and transient; gastrointestinal events (e.g., nausea, abdominal cramps) were reported most commonly. The only adverse event that led to treatment discontinuation was hypomania and this occurred in two patients at a dose of 10 mg/day. There were no clinically significant changes in weight, blood pressure, pulse, electrocardiogram, serum chemistry and hematological studies noted.

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I appreciate your interest in *Paxil*. The citations noted may contain information on uses, doses, dosage forms, routes of administration or specific patient populations which are not described in the approved prescribing information for *Paxil*. GlaxoSmithKline makes no recommendations beyond those in the approved labeling and suggests that you review the enclosed prescribing information before initiating therapy. If you have further questions regarding our products, please contact the Medical Information Department at 800-366-8900.

Sincerely,

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Medical Information Department

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**Enclosures: Prescribing Information for *Paxil*. PXL0**

**Keller MB, et al. *J Am Acad Child Adolesc Psychiatry* 2001;40(7):762-772.**

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**Please add  
reprint  
Keller et al  
PX2808**

**Thank you**

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PRESCRIBING INFORMATION

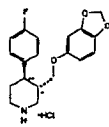
**PAXIL®**

brand of

**paroxetine hydrochloride  
tablets and oral suspension**

**DESCRIPTION**

Paxil (paroxetine hydrochloride) is an orally administered psychotropic drug. It is the hydrochloride salt of a phenylpiperidine compound identified chemically as (1*S*)-4-(4-(4-fluorophenyl)-3-(3,4,5-trimethoxyphenyl)propyl) piperidine hydrochloride hemihydrate and has the empirical formula of  $C_{21}H_{27}FNO_3 \cdot HCl \cdot 1/2H_2O$ . The molecular weight is 374.8 (329.4 as free base). The structural formula is:



paroxetine hydrochloride

Paroxetine hydrochloride is an odorless, off-white powder, having a melting point range of 120° to 138°C and a solubility of 5.4 mg/mL in water.

**Tablets**

Each film-coated tablet contains paroxetine hydrochloride equivalent to paroxetine as follows: 10 mg—yellow (scored); 20 mg—pink (scored); 30 mg—blue, 40 mg—green. Inactive ingredients consist of dibasic calcium phosphate dihydrate, hydroxypropyl methylcellulose, croscarmellose, polyethylene glycols, polyacrylic acid, sodium lauryl sulfate, titanium dioxide and one or more of the following:  $\beta$ -CD Red No. 30, D&C Yellow No. 10, FD&C Blue No. 2, FD&C Yellow No. 6.

**Oral Suspension**

Each 5 mL of orange-colored, orange-flavored liquid contains paroxetine hydrochloride equivalent to paroxetine, 10 mg. Inactive ingredients consist of potassium phosphate, microcrystalline cellulose, propylene glycol, glycerin, sorbitol, methyl paraben, propyl paraben, sodium citrate dihydrate, citric acid anhydride, sodium saccharin, flavors, FD&C Yellow No. 6 and simethicone emulsion, USP.

**CLINICAL PHARMACOLOGY**

**Pharmacodynamics**

The efficacy of paroxetine in the treatment of major depressive disorder, social anxiety disorder, obsessive compulsive disorder (OCD), panic disorder (PD), generalized anxiety disorder (GAD) and posttraumatic stress disorder (PTSD) is presumed to be linked to potentiation of serotonergic activity in the central nervous system resulting from inhibition of neuronal reuptake of serotonin (5-hydroxytryptamine, 5-HT). Studies at clinically relevant doses in humans have demonstrated that paroxetine blocks the uptake of serotonin into human platelets. *In vitro* studies in animals also suggest that paroxetine is a potent and highly selective inhibitor of neuronal serotonin reuptake and has only very weak effects on norepinephrine and dopamine neuronal reuptake. *In vitro* radioligand binding studies indicate that paroxetine has little affinity for muscarinic,  $\alpha_1$ ,  $\alpha_2$ ,  $\beta_1$ ,  $\beta_2$ ,  $\beta_3$ ,  $\beta_4$ ,  $\beta_5$ ,  $\beta_6$ ,  $\beta_7$ ,  $\beta_8$ ,  $\beta_9$ ,  $\beta_{10}$ ,  $\beta_{11}$ ,  $\beta_{12}$ ,  $\beta_{13}$ ,  $\beta_{14}$ ,  $\beta_{15}$ ,  $\beta_{16}$ ,  $\beta_{17}$ ,  $\beta_{18}$ ,  $\beta_{19}$ ,  $\beta_{20}$ ,  $\beta_{21}$ ,  $\beta_{22}$ ,  $\beta_{23}$ ,  $\beta_{24}$ ,  $\beta_{25}$ ,  $\beta_{26}$ ,  $\beta_{27}$ ,  $\beta_{28}$ ,  $\beta_{29}$ ,  $\beta_{30}$ ,  $\beta_{31}$ ,  $\beta_{32}$ ,  $\beta_{33}$ ,  $\beta_{34}$ ,  $\beta_{35}$ ,  $\beta_{36}$ ,  $\beta_{37}$ ,  $\beta_{38}$ ,  $\beta_{39}$ ,  $\beta_{40}$ ,  $\beta_{41}$ ,  $\beta_{42}$ ,  $\beta_{43}$ ,  $\beta_{44}$ ,  $\beta_{45}$ ,  $\beta_{46}$ ,  $\beta_{47}$ ,  $\beta_{48}$ ,  $\beta_{49}$ ,  $\beta_{50}$ ,  $\beta_{51}$ ,  $\beta_{52}$ ,  $\beta_{53}$ ,  $\beta_{54}$ ,  $\beta_{55}$ ,  $\beta_{56}$ ,  $\beta_{57}$ ,  $\beta_{58}$ ,  $\beta_{59}$ ,  $\beta_{60}$ ,  $\beta_{61}$ ,  $\beta_{62}$ ,  $\beta_{63}$ ,  $\beta_{64}$ ,  $\beta_{65}$ ,  $\beta_{66}$ ,  $\beta_{67}$ ,  $\beta_{68}$ ,  $\beta_{69}$ ,  $\beta_{70}$ ,  $\beta_{71}$ ,  $\beta_{72}$ ,  $\beta_{73}$ ,  $\beta_{74}$ ,  $\beta_{75}$ ,  $\beta_{76}$ ,  $\beta_{77}$ ,  $\beta_{78}$ ,  $\beta_{79}$ ,  $\beta_{80}$ ,  $\beta_{81}$ ,  $\beta_{82}$ ,  $\beta_{83}$ ,  $\beta_{84}$ ,  $\beta_{85}$ ,  $\beta_{86}$ ,  $\beta_{87}$ ,  $\beta_{88}$ ,  $\beta_{89}$ ,  $\beta_{90}$ ,  $\beta_{91}$ ,  $\beta_{92}$ ,  $\beta_{93}$ ,  $\beta_{94}$ ,  $\beta_{95}$ ,  $\beta_{96}$ ,  $\beta_{97}$ ,  $\beta_{98}$ ,  $\beta_{99}$ ,  $\beta_{100}$ ,  $\beta_{101}$ ,  $\beta_{102}$ ,  $\beta_{103}$ ,  $\beta_{104}$ ,  $\beta_{105}$ ,  $\beta_{106}$ ,  $\beta_{107}$ ,  $\beta_{108}$ ,  $\beta_{109}$ ,  $\beta_{110}$ ,  $\beta_{111}$ ,  $\beta_{112}$ ,  $\beta_{113}$ ,  $\beta_{114}$ ,  $\beta_{115}$ ,  $\beta_{116}$ ,  $\beta_{117}$ ,  $\beta_{118}$ ,  $\beta_{119}$ ,  $\beta_{120}$ ,  $\beta_{121}$ ,  $\beta_{122}$ ,  $\beta_{123}$ ,  $\beta_{124}$ ,  $\beta_{125}$ ,  $\beta_{126}$ ,  $\beta_{127}$ ,  $\beta_{128}$ ,  $\beta_{129}$ ,  $\beta_{130}$ ,  $\beta_{131}$ ,  $\beta_{132}$ ,  $\beta_{133}$ ,  $\beta_{134}$ ,  $\beta_{135}$ ,  $\beta_{136}$ ,  $\beta_{137}$ ,  $\beta_{138}$ ,  $\beta_{139}$ ,  $\beta_{140}$ ,  $\beta_{141}$ ,  $\beta_{142}$ ,  $\beta_{143}$ ,  $\beta_{144}$ ,  $\beta_{145}$ ,  $\beta_{146}$ ,  $\beta_{147}$ ,  $\beta_{148}$ ,  $\beta_{149}$ ,  $\beta_{150}$ ,  $\beta_{151}$ ,  $\beta_{152}$ ,  $\beta_{153}$ ,  $\beta_{154}$ ,  $\beta_{155}$ ,  $\beta_{156}$ ,  $\beta_{157}$ ,  $\beta_{158}$ ,  $\beta_{159}$ ,  $\beta_{160}$ ,  $\beta_{161}$ ,  $\beta_{162}$ ,  $\beta_{163}$ ,  $\beta_{164}$ ,  $\beta_{165}$ ,  $\beta_{166}$ ,  $\beta_{167}$ ,  $\beta_{168}$ ,  $\beta_{169}$ ,  $\beta_{170}$ ,  $\beta_{171}$ ,  $\beta_{172}$ ,  $\beta_{173}$ ,  $\beta_{174}$ ,  $\beta_{175}$ ,  $\beta_{176}$ ,  $\beta_{177}$ ,  $\beta_{178}$ ,  $\beta_{179}$ ,  $\beta_{180}$ ,  $\beta_{181}$ ,  $\beta_{182}$ ,  $\beta_{183}$ ,  $\beta_{184}$ ,  $\beta_{185}$ ,  $\beta_{186}$ ,  $\beta_{187}$ ,  $\beta_{188}$ ,  $\beta_{189}$ ,  $\beta_{190}$ ,  $\beta_{191}$ ,  $\beta_{192}$ ,  $\beta_{193}$ ,  $\beta_{194}$ ,  $\beta_{195}$ ,  $\beta_{196}$ ,  $\beta_{197}$ ,  $\beta_{198}$ ,  $\beta_{199}$ ,  $\beta_{200}$ ,  $\beta_{201}$ ,  $\beta_{202}$ ,  $\beta_{203}$ ,  $\beta_{204}$ ,  $\beta_{205}$ ,  $\beta_{206}$ ,  $\beta_{207}$ ,  $\beta_{208}$ ,  $\beta_{209}$ ,  $\beta_{210}$ ,  $\beta_{211}$ ,  $\beta_{212}$ ,  $\beta_{213}$ ,  $\beta_{214}$ ,  $\beta_{215}$ ,  $\beta_{216}$ ,  $\beta_{217}$ ,  $\beta_{218}$ ,  $\beta_{219}$ ,  $\beta_{220}$ ,  $\beta_{221}$ ,  $\beta_{222}$ ,  $\beta_{223}$ ,  $\beta_{224}$ ,  $\beta_{225}$ ,  $\beta_{226}$ ,  $\beta_{227}$ ,  $\beta_{228}$ ,  $\beta_{229}$ ,  $\beta_{230}$ ,  $\beta_{231}$ ,  $\beta_{232}$ ,  $\beta_{233}$ ,  $\beta_{234}$ ,  $\beta_{235}$ ,  $\beta_{236}$ ,  $\beta_{237}$ ,  $\beta_{238}$ ,  $\beta_{239}$ ,  $\beta_{240}$ ,  $\beta_{241}$ ,  $\beta_{242}$ ,  $\beta_{243}$ ,  $\beta_{244}$ ,  $\beta_{245}$ ,  $\beta_{246}$ ,  $\beta_{247}$ ,  $\beta_{248}$ ,  $\beta_{249}$ ,  $\beta_{250}$ ,  $\beta_{251}$ ,  $\beta_{252}$ ,  $\beta_{253}$ ,  $\beta_{254}$ ,  $\beta_{255}$ ,  $\beta_{256}$ ,  $\beta_{257}$ ,  $\beta_{258}$ ,  $\beta_{259}$ ,  $\beta_{260}$ ,  $\beta_{261}$ ,  $\beta_{262}$ ,  $\beta_{263}$ ,  $\beta_{264}$ ,  $\beta_{265}$ ,  $\beta_{266}$ ,  $\beta_{267}$ ,  $\beta_{268}$ ,  $\beta_{269}$ ,  $\beta_{270}$ ,  $\beta_{271}$ ,  $\beta_{272}$ ,  $\beta_{273}$ ,  $\beta_{274}$ ,  $\beta_{275}$ ,  $\beta_{276}$ ,  $\beta_{277}$ ,  $\beta_{278}$ ,  $\beta_{279}$ ,  $\beta_{280}$ ,  $\beta_{281}$ ,  $\beta_{282}$ ,  $\beta_{283}$ ,  $\beta_{284}$ ,  $\beta_{285}$ ,  $\beta_{286}$ ,  $\beta_{287}$ ,  $\beta_{288}$ ,  $\beta_{289}$ ,  $\beta_{290}$ ,  $\beta_{291}$ ,  $\beta_{292}$ ,  $\beta_{293}$ ,  $\beta_{294}$ ,  $\beta_{295}$ ,  $\beta_{296}$ ,  $\beta_{297}$ ,  $\beta_{298}$ ,  $\beta_{299}$ ,  $\beta_{300}$ ,  $\beta_{301}$ ,  $\beta_{302}$ ,  $\beta_{303}$ ,  $\beta_{304}$ ,  $\beta_{305}$ ,  $\beta_{306}$ ,  $\beta_{307}$ ,  $\beta_{308}$ ,  $\beta_{309}$ ,  $\beta_{310}$ ,  $\beta_{311}$ ,  $\beta_{312}$ ,  $\beta_{313}$ ,  $\beta_{314}$ ,  $\beta_{315}$ ,  $\beta_{316}$ ,  $\beta_{317}$ ,  $\beta_{318}$ ,  $\beta_{319}$ ,  $\beta_{320}$ ,  $\beta_{321}$ ,  $\beta_{322}$ ,  $\beta_{323}$ ,  $\beta_{324}$ ,  $\beta_{325}$ ,  $\beta_{326}$ ,  $\beta_{327}$ ,  $\beta_{328}$ ,  $\beta_{329}$ ,  $\beta_{330}$ ,  $\beta_{331}$ ,  $\beta_{332}$ ,  $\beta_{333}$ ,  $\beta_{334}$ ,  $\beta_{335}$ ,  $\beta_{336}$ ,  $\beta_{337}$ ,  $\beta_{338}$ ,  $\beta_{339}$ ,  $\beta_{340}$ ,  $\beta_{341}$ ,  $\beta_{342}$ ,  $\beta_{343}$ ,  $\beta_{344}$ ,  $\beta_{345}$ ,  $\beta_{346}$ ,  $\beta_{347}$ ,  $\beta_{348}$ ,  $\beta_{349}$ ,  $\beta_{350}$ ,  $\beta_{351}$ ,  $\beta_{352}$ ,  $\beta_{353}$ ,  $\beta_{354}$ ,  $\beta_{355}$ ,  $\beta_{356}$ ,  $\beta_{357}$ ,  $\beta_{358}$ ,  $\beta_{359}$ ,  $\beta_{360}$ ,  $\beta_{361}$ ,  $\beta_{362}$ ,  $\beta_{363}$ ,  $\beta_{364}$ ,  $\beta_{365}$ ,  $\beta_{366}$ ,  $\beta_{367}$ ,  $\beta_{368}$ ,  $\beta_{369}$ ,  $\beta_{370}$ ,  $\beta_{371}$ ,  $\beta_{372}$ ,  $\beta_{373}$ ,  $\beta_{374}$ ,  $\beta_{375}$ ,  $\beta_{376}$ ,  $\beta_{377}$ ,  $\beta_{378}$ ,  $\beta_{379}$ ,  $\beta_{380}$ ,  $\beta_{381}$ ,  $\beta_{382}$ ,  $\beta_{383}$ ,  $\beta_{384}$ ,  $\beta_{385}$ ,  $\beta_{386}$ ,  $\beta_{387}$ ,  $\beta_{388}$ ,  $\beta_{389}$ ,  $\beta_{390}$ ,  $\beta_{391}$ ,  $\beta_{392}$ ,  $\beta_{393}$ ,  $\beta_{394}$ ,  $\beta_{395}$ ,  $\beta_{396}$ ,  $\beta_{397}$ ,  $\beta_{398}$ ,  $\beta_{399}$ ,  $\beta_{400}$ ,  $\beta_{401}$ ,  $\beta_{402}$ ,  $\beta_{403}$ ,  $\beta_{404}$ ,  $\beta_{405}$ ,  $\beta_{406}$ ,  $\beta_{407}$ ,  $\beta_{408}$ ,  $\beta_{409}$ ,  $\beta_{410}$ ,  $\beta_{411}$ ,  $\beta_{412}$ ,  $\beta_{413}$ ,  $\beta_{414}$ ,  $\beta_{415}$ ,  $\beta_{416}$ ,  $\beta_{417}$ ,  $\beta_{418}$ ,  $\beta_{419}$ ,  $\beta_{420}$ ,  $\beta_{421}$ ,  $\beta_{422}$ ,  $\beta_{423}$ ,  $\beta_{424}$ ,  $\beta_{425}$ ,  $\beta_{426}$ ,  $\beta_{427}$ ,  $\beta_{428}$ ,  $\beta_{429}$ ,  $\beta_{430}$ ,  $\beta_{431}$ ,  $\beta_{432}$ ,  $\beta_{433}$ ,  $\beta_{434}$ ,  $\beta_{435}$ ,  $\beta_{436}$ ,  $\beta_{437}$ ,  $\beta_{438}$ ,  $\beta_{439}$ ,  $\beta_{440}$ ,  $\beta_{441}$ ,  $\beta_{442}$ ,  $\beta_{443}$ ,  $\beta_{444}$ ,  $\beta_{445}$ ,  $\beta_{446}$ ,  $\beta_{447}$ ,  $\beta_{448}$ ,  $\beta_{449}$ ,  $\beta_{450}$ ,  $\beta_{451}$ ,  $\beta_{452}$ ,  $\beta_{453}$ ,  $\beta_{454}$ ,  $\beta_{455}$ ,  $\beta_{456}$ ,  $\beta_{457}$ ,  $\beta_{458}$ ,  $\beta_{459}$ ,  $\beta_{460}$ ,  $\beta_{461}$ ,  $\beta_{462}$ ,  $\beta_{463}$ ,  $\beta_{464}$ ,  $\beta_{465}$ ,  $\beta_{466}$ ,  $\beta_{467}$ ,  $\beta_{468}$ ,  $\beta_{469}$ ,  $\beta_{470}$ ,  $\beta_{471}$ ,  $\beta_{472}$ ,  $\beta_{473}$ ,  $\beta_{474}$ ,  $\beta_{475}$ ,  $\beta_{476}$ ,  $\beta_{477}$ ,  $\beta_{478}$ ,  $\beta_{479}$ ,  $\beta_{480}$ ,  $\beta_{481}$ ,  $\beta_{482}$ ,  $\beta_{483}$ ,  $\beta_{484}$ ,  $\beta_{485}$ ,  $\beta_{486}$ ,  $\beta_{487}$ ,  $\beta_{488}$ ,  $\beta_{489}$ ,  $\beta_{490}$ ,  $\beta_{491}$ ,  $\beta_{492}$ ,  $\beta_{493}$ ,  $\beta_{494}$ ,  $\beta_{495}$ ,  $\beta_{496}$ ,  $\beta_{497}$ ,  $\beta_{498}$ ,  $\beta_{499}$ ,  $\beta_{500}$ ,  $\beta_{501}$ ,  $\beta_{502}$ ,  $\beta_{503}$ ,  $\beta_{504}$ ,  $\beta_{505}$ ,  $\beta_{506}$ ,  $\beta_{507}$ ,  $\beta_{508}$ ,  $\beta_{509}$ ,  $\beta_{510}$ ,  $\beta_{511}$ ,  $\beta_{512}$ ,  $\beta_{513}$ ,  $\beta_{514}$ ,  $\beta_{515}$ ,  $\beta_{516}$ ,  $\beta_{517}$ ,  $\beta_{518}$ ,  $\beta_{519}$ ,  $\beta_{520}$ ,  $\beta_{521}$ ,  $\beta_{522}$ ,  $\beta_{523}$ ,  $\beta_{524}$ ,  $\beta_{525}$ ,  $\beta_{526}$ ,  $\beta_{527}$ ,  $\beta_{528}$ ,  $\beta_{529}$ ,  $\beta_{530}$ ,  $\beta_{531}$ ,  $\beta_{532}$ ,  $\beta_{533}$ ,  $\beta_{534}$ ,  $\beta_{535}$ ,  $\beta_{536}$ ,  $\beta_{537}$ ,  $\beta_{538}$ ,  $\beta_{539}$ ,  $\beta_{540}$ ,  $\beta_{541}$ ,  $\beta_{542}$ ,  $\beta_{543}$ ,  $\beta_{544}$ ,  $\beta_{545}$ ,  $\beta_{546}$ ,  $\beta_{547}$ ,  $\beta_{548}$ ,  $\beta_{549}$ ,  $\beta_{550}$ ,  $\beta_{551}$ ,  $\beta_{552}$ ,  $\beta_{553}$ ,  $\beta_{554}$ ,  $\beta_{555}$ ,  $\beta_{556}$ ,  $\beta_{557}$ ,  $\beta_{558}$ ,  $\beta_{559}$ ,  $\beta_{560}$ ,  $\beta_{561}$ ,  $\beta_{562}$ ,  $\beta_{563}$ ,  $\beta_{564}$ ,  $\beta_{565}$ ,  $\beta_{566}$ ,  $\beta_{567}$ ,  $\beta_{568}$ ,  $\beta_{569}$ ,  $\beta_{570}$ ,  $\beta_{571}$ ,  $\beta_{572}$ ,  $\beta_{573}$ ,  $\beta_{574}$ ,  $\beta_{575}$ ,  $\beta_{576}$ ,  $\beta_{577}$ ,  $\beta_{578}$ ,  $\beta_{579}$ ,  $\beta_{580}$ ,  $\beta_{581}$ ,  $\beta_{582}$ ,  $\beta_{583}$ ,  $\beta_{584}$ ,  $\beta_{585}$ ,  $\beta_{586}$ ,  $\beta_{587}$ ,  $\beta_{588}$ ,  $\beta_{589}$ ,  $\beta_{590}$ ,  $\beta_{591}$ ,  $\beta_{592}$ ,  $\beta_{593}$ ,  $\beta_{594}$ ,  $\beta_{595}$ ,  $\beta_{596}$ ,  $\beta_{597}$ ,  $\beta_{598}$ ,  $\beta_{599}$ ,  $\beta_{600}$ ,  $\beta_{601}$ ,  $\beta_{602}$ ,  $\beta_{603}$ ,  $\beta_{604}$ ,  $\beta_{605}$ ,  $\beta_{606}$ ,  $\beta_{607}$ ,  $\beta_{608}$ ,  $\beta_{609}$ ,  $\beta_{610}$ ,  $\beta_{611}$ ,  $\beta_{612}$ ,  $\beta_{613}$ ,  $\beta_{614}$ ,  $\beta_{615}$ ,  $\beta_{616}$ ,  $\beta_{617}$ ,  $\beta_{618}$ ,  $\beta_{619}$ ,  $\beta_{620}$ ,  $\beta_{621}$ ,  $\beta_{622}$ ,  $\beta_{623}$ ,  $\beta_{624}$ ,  $\beta_{625}$ ,  $\beta_{626}$ ,  $\beta_{627}$ ,  $\beta_{628}$ ,  $\beta_{629}$ ,  $\beta_{630}$ ,  $\beta_{631}$ ,  $\beta_{632}$ ,  $\beta_{633}$ ,  $\beta_{634}$ ,  $\beta_{635}$ ,  $\beta_{636}$ ,  $\beta_{637}$ ,  $\beta_{638}$ ,  $\beta_{639}$ ,  $\beta_{640}$ ,  $\beta_{641}$ ,  $\beta_{642}$ ,  $\beta_{643}$ ,  $\beta_{644}$ ,  $\beta_{645}$ ,  $\beta_{646}$ ,  $\beta_{647}$ ,  $\beta_{648}$ ,  $\beta_{649}$ ,  $\beta_{650}$ ,  $\beta_{651}$ ,  $\beta_{652}$ ,  $\beta_{653}$ ,  $\beta_{654}$ ,  $\beta_{655}$ ,  $\beta_{656}$ ,  $\beta_{657}$ ,  $\beta_{658}$ ,  $\beta_{659}$ ,  $\beta_{660}$ ,  $\beta_{661}$ ,  $\beta_{662}$ ,  $\beta_{663}$ ,  $\beta_{664}$ ,  $\beta_{665}$ ,  $\beta_{666}$ ,  $\beta_{667}$ ,  $\beta_{668}$ ,  $\beta_{669}$ ,  $\beta_{670}$ ,  $\beta_{671}$ ,  $\beta_{672}$ ,  $\beta_{673}$ ,  $\beta_{674}$ ,  $\beta_{675}$ ,  $\beta_{676}$ ,  $\beta_{677}$ ,  $\beta_{678}$ ,  $\beta_{679}$ ,  $\beta_{680}$ ,  $\beta_{681}$ ,  $\beta_{682}$ ,  $\beta_{683}$ ,  $\beta_{684}$ ,  $\beta_{685}$ ,  $\beta_{686}$ ,  $\beta_{687}$ ,  $\beta_{688}$ ,  $\beta_{689}$ ,  $\beta_{690}$ ,  $\beta_{691}$ ,  $\beta_{692}$ ,  $\beta_{693}$ ,  $\beta_{694}$ ,  $\beta_{695}$ ,  $\beta_{696}$ ,  $\beta_{697}$ ,  $\beta_{698}$ ,  $\beta_{699}$ ,  $\beta_{700}$ ,  $\beta_{701}$ ,  $\beta_{702}$ ,  $\beta_{703}$ ,  $\beta_{704}$ ,  $\beta_{705}$ ,  $\beta_{706}$ ,  $\beta_{707}$ ,  $\beta_{708}$ ,  $\beta_{709}$ ,  $\beta_{710}$ ,  $\beta_{711}$ ,  $\beta_{712}$ ,  $\beta_{713}$ ,  $\beta_{714}$ ,  $\beta_{715}$ ,  $\beta_{716}$ ,  $\beta_{717}$ ,  $\beta_{718}$ ,  $\beta_{719}$ ,  $\beta_{720}$ ,  $\beta_{721}$ ,  $\beta_{722}$ ,  $\beta_{723}$ ,  $\beta_{724}$ ,  $\beta_{725}$ ,  $\beta_{726}$ ,  $\beta_{727}$ ,  $\beta_{728}$ ,  $\beta_{729}$ ,  $\beta_{730}$ ,  $\beta_{731}$ ,  $\beta_{732}$ ,  $\beta_{733}$ ,  $\beta_{734}$ ,  $\beta_{735}$ ,  $\beta_{736}$ ,  $\beta_{737}$ ,  $\beta_{738}$ ,  $\beta_{739}$ ,  $\beta_{740}$ ,  $\beta_{741}$ ,  $\beta_{742}$ ,  $\beta_{743}$ ,  $\beta_{744}$ ,  $\beta_{745}$ ,  $\beta_{746}$ ,  $\beta_{747}$ ,  $\beta_{748}$ ,  $\beta_{749}$ ,  $\beta_{750}$ ,  $\beta_{751}$ ,  $\beta_{752}$ ,  $\beta_{753}$ ,  $\beta_{754}$ ,  $\beta_{755}$ ,  $\beta_{756}$ ,  $\beta_{757}$ ,  $\beta_{758}$ ,  $\beta_{759}$ ,  $\beta_{760}$ ,  $\beta_{761}$ ,  $\beta_{762}$ ,  $\beta_{763}$ ,  $\beta_{764}$ ,  $\beta_{765}$ ,  $\beta_{766}$ ,  $\beta_{767}$ ,  $\beta_{768}$ ,  $\beta_{769}$ ,  $\beta_{770}$ ,  $\beta_{771}$ ,  $\beta_{772}$ ,  $\beta_{773}$ ,  $\beta_{774}$ ,  $\beta_{775}$ ,  $\beta_{776}$ ,  $\beta_{777}$ ,  $\beta_{778}$ ,  $\beta_{779}$ ,  $\beta_{780}$ ,  $\beta_{781}$ ,  $\beta_{782}$ ,  $\beta_{783}$ ,  $\beta_{784}$ ,  $\beta_{785}$ ,  $\beta_{786}$ ,  $\beta_{787}$ ,  $\beta_{788}$ ,  $\beta_{789}$ ,  $\beta_{790}$ ,  $\beta_{791}$ ,  $\beta_{792}$ ,  $\beta_{793}$ ,  $\beta_{794}$ ,  $\beta_{795}$ ,  $\beta_{796}$ ,  $\beta_{797}$ ,  $\beta_{798}$ ,  $\beta_{799}$ ,  $\beta_{800}$ ,  $\beta_{801}$ ,  $\beta_{802}$ ,  $\beta_{803}$ ,  $\beta_{804}$ ,  $\beta_{805}$ ,  $\beta_{806}$ ,  $\beta_{807}$ ,  $\beta_{808}$ ,  $\beta_{809}$ ,  $\beta_{810}$ ,  $\beta_{811}$ ,  $\beta_{812}$ ,  $\beta_{813}$ ,  $\beta_{814}$ ,  $\beta_{815}$ ,  $\beta_{816}$ ,  $\beta_{817}$ ,  $\beta_{818}$ ,  $\beta_{819}$ ,  $\beta_{820}$ ,  $\beta_{821}$ ,  $\beta_{822}$ ,  $\beta_{823}$ ,  $\beta_{824}$ ,  $\beta_{825}$ ,  $\beta_{826}$ ,  $\beta_{827}$ ,  $\beta_{828}$ ,  $\beta_{829}$ ,  $\beta_{830}$ ,  $\beta_{831}$ ,  $\beta_{832}$ ,  $\beta_{833}$ ,  $\beta_{834}$ ,  $\beta_{835}$ ,  $\beta_{836}$ ,  $\beta_{837}$ ,  $\beta_{838}$ ,  $\beta_{839}$ ,  $\beta_{840}$ ,  $\beta_{841}$ ,  $\beta_{842}$ ,  $\beta_{843}$ ,  $\beta_{844}$ ,  $\beta_{845}$ ,  $\beta_{846}$ ,  $\beta_{847}$ ,  $\beta_{848}$ ,  $\beta_{849}$ ,  $\beta_{850}$ ,  $\beta_{851}$ ,  $\beta_{852}$ ,  $\beta_{853}$ ,  $\beta_{854}$ ,  $\beta_{855}$ ,  $\beta_{856}$ ,  $\beta_{857}$ ,  $\beta_{858}$ ,  $\beta_{859}$ ,  $\beta_{860}$ ,  $\beta_{861}$ ,  $\beta_{862}$ ,  $\beta_{863}$ ,  $\beta_{864}$ ,  $\beta_{865}$ ,  $\beta_{866}$ ,  $\beta_{867}$ ,  $\beta_{868}$ ,  $\beta_{869}$ ,  $\beta_{870}$ ,  $\beta_{871}$ ,  $\beta_{872}$ ,  $\beta_{873}$ ,  $\beta_{874}$ ,  $\beta_{875}$ ,  $\beta_{876}$ ,  $\beta_{877}$ ,  $\beta_{878}$ ,  $\beta_{879}$ ,  $\beta_{880}$ ,  $\beta_{881}$ ,  $\beta_{882}$ ,  $\beta_{883}$ ,  $\beta_{884}$ ,  $\beta_{885}$ ,  $\beta_{886}$ ,  $\beta_{887}$ ,  $\beta_{888}$ ,  $\beta_{889}$ ,  $\beta_{890}$ ,  $\beta_{891}$ ,  $\beta_{892}$ ,  $\beta_{893}$ ,  $\beta_{894}$ ,  $\beta_{895}$ ,  $\beta_{896}$ ,  $\beta_{897}$ ,  $\beta_{898}$ ,  $\beta_{899}$ ,  $\beta_{900}$ ,  $\beta_{901}$ ,  $\beta_{902}$ ,  $\beta_{903}$ ,  $\beta_{904}$ ,  $\beta_{905}$ ,  $\beta_{906}$ ,  $\beta_{907}$ ,  $\beta_{908}$ ,  $\beta_{909}$ ,  $\beta_{910}$ ,  $\beta_{911}$ ,  $\beta_{912}$ ,  $\beta_{913}$ ,  $\beta_{914}$ ,  $\beta_{915}$ ,  $\beta_{916}$ ,  $\beta_{917}$ ,  $\beta_{918}$ ,  $\beta_{919}$ ,  $\beta_{920}$ ,  $\beta_{921}$ ,  $\beta_{922}$ ,  $\beta_{923}$ ,  $\beta_{924}$ ,  $\beta_{925}$ ,  $\beta_{926}$ ,  $\beta_{927}$ ,  $\beta_{928}$ ,  $\beta_{929}$ ,  $\beta_{930}$ ,  $\beta_{931}$ ,  $\beta_{932}$ ,  $\beta_{933}$ ,  $\beta_{934}$ ,  $\beta_{935}$ ,  $\beta_{936}$ ,  $\beta_{937}$ ,  $\beta_{938}$ ,  $\beta_{939}$ ,  $\beta_{940}$ ,  $\beta_{941}$ ,  $\beta_{942}$ ,  $\beta_{943}$ ,  $\beta_{944}$ ,  $\beta_{945}$ ,  $\beta_{946}$ ,  $\beta_{947}$ ,  $\beta_{948}$ ,  $\beta_{949}$ ,  $\beta_{950}$ ,  $\beta_{951}$ ,  $\beta_{952}$ ,  $\beta_{953}$ ,  $\beta_{954}$ ,  $\beta_{955}$ ,  $\beta_{956}$ ,  $\beta_{957}$ ,  $\beta_{958}$ ,  $\beta_{959}$ ,  $\beta_{960}$ ,  $\beta_{961}$ ,  $\beta_{962}$ ,  $\beta_{963}$ ,  $\beta_{964}$ ,  $\beta_{965}$ ,  $\beta_{966}$ ,  $\beta_{967}$ ,  $\beta_{968}$ ,  $\beta_{969}$ ,  $\beta_{970}$ ,  $\beta_{971}$ ,  $\beta_{972}$ ,  $\beta_{973}$ ,  $\beta_{974}$ ,  $\beta_{975}$ ,  $\beta_{976}$ ,  $\beta_{977}$ ,  $\beta_{978}$ ,  $\beta_{979}$ ,  $\beta_{980}$ ,  $\beta_{981}$ ,  $\beta_{982}$ ,  $\beta_{983}$ ,  $\beta_{984}$ ,  $\beta_{985}$ ,  $\beta_{986}$ ,  $\beta_{987}$ ,  $\beta_{988}$ ,  $\beta_{989}$ ,  $\beta_{990}$ ,  $\beta_{991}$ ,  $\beta_{992}$ ,  $\beta_{993}$ ,  $\beta_{994}$ ,  $\beta_{995}$ ,  $\beta_{996}$ ,  $\beta_{997}$ ,  $\beta_{998}$ ,  $\beta_{999}$ ,  $\beta_{1000}$ ,  $\beta_{1001}$ ,  $\beta_{1002}$ ,  $\beta_{1003}$ ,  $\beta_{1004}$ ,  $\beta_{1005}$ ,  $\beta_{1006}$ ,  $\beta_{1007}$ ,  $\beta_{1008}$ ,  $\beta_{1009}$ ,  $\beta_{1010}$ ,  $\beta_{1011}$ ,  $\beta_{1012}$ ,

## PARoxetine hydrochloride continued

efficacy of *Paxil* in the treatment of GAD was established in two 8-week placebo-controlled trials in adults with GAD. *Paxil* has not been studied in children or adolescents with Generalized Anxiety Disorder (see CLINICAL PHARMACOLOGY—Clinical Trials).

Generalized Anxiety Disorder (GAD) is characterized by excessive anxiety and worry (apprehensive expectation) that is persistent for at least 6 months and which the person finds difficult to control. It must be associated with at least 3 of the following 5 symptoms: restlessness or feeling keyed up or on edge, being easily fatigued, difficulty concentrating or mind going blank, irritability, tension, sleep disturbance.

Effectiveness of *Paxil* in the long-term treatment of GAD, that is, for more than 8 weeks, has not been systematically evaluated in controlled trials. The physician who elects to use *Paxil* for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see DOSAGE AND ADMINISTRATION).

### Posttraumatic Stress Disorder

It is indicated for the treatment of Posttraumatic Stress Disorder (PTSD).

Efficacy of *Paxil* in the treatment of PTSD was established in two 12-week placebo-controlled trials in adults with PTSD (DSM-IV CLINICAL PHARMACOLOGY—Clinical Trials).

DSM-IV defines PTSD as a traumatic event that involved actual or threatened death or serious injury, or threat to physical integrity of self or others, and a response which involves intense fear, helplessness, or horror. Symptoms that occur as a result of exposure to the traumatic event include re-experiencing of the event in the form of intrusive thoughts, flashbacks or dreams, intense psychological distress and physiological reactivity on exposure to cues to the event; avoidance of situations reminiscent of the traumatic event, inability to recall details of the event, and/or numbing of general responsiveness manifested as diminished interest in significant activities, estrangement from others, restricted range of affect, or sense of foreshortened future; and symptoms of autonomic arousal including hypervigilance, exaggerated startle response, sleep disturbance, impaired concentration, and irritability or outbursts of anger. A PTSD diagnosis requires that the symptoms are present for at least a month and that they cause clinically significant distress or impairment in social, occupational, or other important areas of functioning.

Efficacy of *Paxil* in long-term treatment of PTSD, i.e., for more than 12 weeks, has not been systematically evaluated in placebo-controlled trials. Therefore, the physician who elects to prescribe *Paxil* for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see DOSAGE AND ADMINISTRATION).

### Contraindications

Concomitant use in patients taking either monoamine oxidase inhibitors (MAOIs) or thioridazine is contraindicated (see WARNINGS and CAUTIONS).

It is contraindicated in patients with a hypersensitivity to paroxetine or any of the inactive ingredients in *Paxil*.

### Warnings

#### Interactions with Monoamine Oxidase Inhibitors

Patients receiving another serotonergic reuptake inhibitor drug in combination with a monoamine oxidase inhibitor (MAOI), there have been reports of serotonin toxicity, including hyperreflexia, rigidity, apnoea, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. These reactions have also been reported in patients who have recently discontinued that drug and have been started on an MAOI. Some cases presented with features resembling neuroleptic malignant syndrome. In these cases, the MAOI should be discontinued and the patient should be treated with supportive measures. In patients with a history of MAOI use, it is recommended that these drugs may act synergistically to elevate blood pressure and evoke labile hypotension. Therefore, it is recommended that *Paxil* (paroxetine hydrochloride) not be used in combination with an MAOI, or within 14 days of discontinuing treatment with an MAOI. At least 2 weeks should be allowed after stopping *Paxil* before starting an MAOI.

#### Interactions with Thioridazine

Thioridazine administration alone produces prolongation of the QTc interval, which is associated with serious ventricular arrhythmias, such as torsades de pointes-type arrhythmias, and sudden death. This effect appears to be dose related.

In *in vivo* studies, it is recommended that *Paxil* should be used cautiously in patients with a history of thioridazine use. Therefore, it is recommended that paroxetine not be used in combination with thioridazine (see CONTRAINDICATIONS and CAUTIONS).

### Precautions

**Use of *Paxil* in Patients with Major Depressive Disorder:** During premarketing testing, hypomania or mania occurred in approximately 1.0% of *Paxil*-treated patients compared to 0.3% of placebo-treated patients. In a subset of patients classified as manic or hypomanic, the rates of manic episodes were 2.7% for *Paxil* and 1.1% for the combined active-control groups. As with all drugs effective in the treatment of major depressive disorder, *Paxil* should be used cautiously in patients with a history of mania.

**Use of *Paxil* in Patients with Bipolar Disorder:** During premarketing testing, seizures occurred in 0.1% of *Paxil*-treated patients, a rate similar to that associated with other antidepressants. *Paxil* should be used cautiously in patients with a history of seizures. It should be discontinued in any patient who develops seizures.

**Use of *Paxil* in Patients with a History of Suicide Attempts:** The possibility of a suicide attempt is inherent in major depressive disorder and may persist until significant remission occurs. A supervision of high-risk patients should accompany initial drug therapy. Prescriptions for *Paxil* should be written for the smallest interval of tablets consistent with good patient management, in order to reduce the risk of overdose.

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**Warnings:** Preliminary data suggest that there may be a pharmacodynamic interaction (that causes an increased bleeding diathesis in the face of unaltered prothrombin time) between paroxetine and warfarin. Since there is little clinical experience, the concomitant administration of *Paxil* and warfarin should be undertaken with caution.

**Serotonin Receptor Inhibition:** There have been rare postmarketing reports describing patients with weakness, hyporeflexia, and incoordination following the use of a selective serotonin reuptake inhibitor (SSRI) and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluvoxamine, paroxetine, sertraline) is clinically warranted, appropriate observation of the patient is advised.

**Drugs Affecting Hepatic Metabolism:** The metabolism and pharmacokinetics of paroxetine may be affected by the induction or inhibition of drug-metabolizing enzymes.

Cimetidine—Cimetidine inhibits many cytochrome P<sub>450</sub> (oxidative) enzymes. In a study where *Paxil* (30 mg q.d.) was dosed orally for 4 weeks, steady-state plasma concentrations of paroxetine were increased by approximately 50% during co-administration with oral cimetidine (200 mg b.i.d.) for the final week. Therefore, when these drugs are administered concurrently, dosage adjustment of *Paxil* (paroxetine hydrochloride) after the 20 mg starting dose should be guided by clinical effect. The effect of paroxetine on cimetidine's pharmacokinetics was not studied.

Phenobarbital—Phenobarbital induces many cytochrome P<sub>450</sub> (oxidative) enzymes. When a single oral 30 mg dose of *Paxil* was administered at phenobarbital steady state (100 mg q.d. for 14 days), paroxetine AUC and T<sub>1/2</sub> were reduced (by an average of 25% and 38%, respectively) compared to paroxetine administered alone. The effect of paroxetine on phenobarbital pharmacokinetics was not studied. Since *Paxil* exhibits nonlinear pharmacokinetics, the results of this study may not address the case where the two drugs are both being chronically dosed. No initial *Paxil* dosage adjustment is considered necessary when co-administered with phenobarbital; any subsequent adjustment should be guided by clinical effect.

Phenytoin—When a single oral 30 mg dose of *Paxil* was administered at phenytoin steady state (300 mg q.d. for 14 days), paroxetine AUC and T<sub>1/2</sub> were reduced (by an average of 50% and 35%, respectively) compared to *Paxil* administered alone. In a separate study, when a single oral 30 mg dose of phenytoin was administered at paroxetine steady state (30 mg q.d. for 14 days), phenytoin AUC was slightly reduced (12% on average) compared to phenytoin administered alone. Since both drugs exhibit nonlinear pharmacokinetics, the above studies may not address the case where the two drugs are both being chronically dosed. No initial dosage adjustments are considered necessary when these drugs are co-administered; any subsequent adjustments should be guided by clinical effect (see ADVERSE REACTIONS—Postmarketing Reports).

**Drugs Metabolized by Cytochrome P<sub>450</sub> 2D6:** Many drugs, including most drugs effective in the treatment of major depressive disorder (paroxetine, other SSRIs and many tricyclics), are metabolized by the cytochrome P<sub>450</sub> isozyme P<sub>450</sub>2D6. Like other agents that are metabolized by P<sub>450</sub>2D6, paroxetine may significantly inhibit the activity of this isozyme. In most patients (80%), this P<sub>450</sub>2D6 isozyme is saturated early during *Paxil* dosing. In one study, daily dosing of *Paxil* (20 mg q.d.) under steady-state conditions increased single dose desipramine (100 mg) AUC and T<sub>1/2</sub> by an average of approximately two-, five- and three-fold, respectively. Concomitant use of *Paxil* with other drugs metabolized by cytochrome P<sub>450</sub>2D6 has not been formally studied but may require lower doses than usually prescribed for either *Paxil* or the other drug.

Therefore, co-administration of *Paxil* with other drugs that are metabolized by this isozyme, including certain drugs effective in the treatment of major depressive disorder (e.g., nortriptyline, amitriptyline, imipramine, desipramine and fluoxetine), phenothiazines and Type IC antiarrhythmics (e.g., propafenone, flecainide and encainide), or that inhibit this enzyme (e.g., quinidine), should be approached with caution.

However, due to the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, paroxetine and thioridazine should not be co-administered (see CONTRAINDICATIONS and WARNINGS).

At steady state, when the P<sub>450</sub>2D6 pathway is essentially saturated, paroxetine clearance is governed by alternative P<sub>450</sub> isozymes which, unlike P<sub>450</sub>2D6, show no evidence of saturation (see PRECAUTIONS—Tricyclic Antidepressants).

**Drugs Metabolized by Cytochrome P<sub>450</sub> 3A4:** An *in vivo* interaction study involving the co-administration under steady-state conditions of paroxetine and terfenadine, a substrate for cytochrome P<sub>450</sub>3A4, revealed no effect of paroxetine on terfenadine pharmacokinetics. In addition, *in vitro* studies have shown ketoconazole, a potent inhibitor of P<sub>450</sub>3A4 activity, to be at least 100 times more potent than paroxetine as an inhibitor of the metabolism of several substrates for this enzyme, including terfenadine, astemizole, cisapride, triazolam, and cyclosporin. Based on the assumption that the relationship between paroxetine's *in vitro* K<sub>i</sub> and its lack of effect on terfenadine's *in vivo* clearance predicts its effect on other P<sub>450</sub>3A4 substrates, paroxetine's extent of inhibition of P<sub>450</sub>3A4 activity is not likely to be of clinical significance.

**Tricyclic Antidepressants (TCAs):** Caution is indicated in the co-administration of tricyclic antidepressants (TCAs) with *Paxil*, because paroxetine may inhibit TCA metabolism. Plasma TCA concentrations may need to be monitored, and the dose of TCA may need to be reduced, if a TCA is co-administered with *Paxil* (see PRECAUTIONS—Drugs Metabolized by Cytochrome P<sub>450</sub>2D6).

**Drugs Highly Bound to Plasma Protein:** Because paroxetine is highly bound to plasma protein, administration of *Paxil* to a patient taking another drug that is highly protein bound may cause increased free concentrations of the other drug, potentially resulting in adverse events. Conversely, adverse effects could result from displacement of paroxetine by other highly bound drugs.

**Alcohol:** Although *Paxil* does not increase the impairment of mental and motor skills caused by alcohol, patients should be advised to avoid alcohol while taking *Paxil* (paroxetine hydrochloride).

**Lithium:** A multiple-dose study has shown that there is no pharmacokinetic interaction between *Paxil* and lithium carbonate. However, since there is little clinical experience, the concurrent administration of paroxetine and lithium should be undertaken with caution.

**Digoxin:** The steady-state pharmacokinetics of paroxetine was not altered when administered with digoxin at steady state. Mean digoxin AUC at steady state decreased by 15% in the presence of paroxetine. Since there is little clinical experience, the concurrent administration of paroxetine and digoxin should be undertaken with caution.

**Diazepam:** Under steady-state conditions, diazepam does not appear to affect paroxetine kinetics. The effects of paroxetine on diazepam were not evaluated.

**Prochlorperazine:** Daily oral dosing of *Paxil* (30 mg q.d.) increased steady-state AUC<sub>0-∞</sub>, C<sub>max</sub> and C<sub>min</sub> values of prochlorperazine (5 mg oral q.d.) by 35%, 31% and 61%, respectively, compared to prochlorperazine alone at steady state. If anticholinergic effects are seen, the dose of prochlorperazine should be reduced.

**Beta-Blockers:** In a study where propranolol (80 mg b.i.d.) was dosed orally for 18 days, the established steady-state plasma concentrations of propranolol were unaltered during co-administration with *Paxil* (30 mg q.d.) for the final 10 days. The effects of propranolol on paroxetine have not been evaluated (see ADVERSE REACTIONS—Postmarketing Reports).

**Theophylline:** Reports of elevated theophylline levels associated with *Paxil* treatment have been reported. While this interaction has not been formally studied, it is recommended that theophylline levels be monitored when these drugs are concurrently administered.

**Electroconvulsive Therapy (ECT):** There are no clinical studies of the combined use of ECT and *Paxil*.

### Contraindications, Warnings, Impairment of Fertility

**Contraindications:** Two-year carcinogenicity studies were conducted in rodents given paroxetine in the diet at 1, 5, and 25 mg/kg/day (MHD) and 1, 5, and 20 mg/kg/day (rat). These doses are up to 2.4 (mouse) and 4.9 (rat) times the maximum recommended human dose (MRHD) for major depressive disorder, social anxiety disorder, GAD and PTSD on a mg/m<sup>2</sup> basis. Because the MRHD for major depressive disorder is slightly less than that for OCD (50 mg vs. 60 mg), the doses used in these carcinogenicity studies were only 2.0 (mouse) and 3.2 (rat) times the MRHD for OCD. There was a significantly greater number of male rats in the high-dose group with reticular cell sarcoma (1/100, 0/50, 0/50 and 4/50 for control, low-, middle- and high-dose groups, respectively) and a significantly increased linear trend across dose groups for the occurrence of lymphoreticular tumors in male rats. Female rats were not affected. Although there was a dose-related increase in the number of tumors in mice, there was no drug-related increase in the number of mice with tumors. The relevance of these findings to humans is unknown.

**Metagenesis:** Paroxetine produced no genotoxic effects in a battery of *in vitro* and *in vivo* assays that included the following: bacterial mutation assay, mouse lymphoma mutation assay, unscheduled DNA synthesis assay, and tests for cytogenetic aberrations *in vitro* in mouse bone marrow and *in vitro* in human lymphocytes and in a dominant lethal test in rats.

**Impairment of Fertility:** A reduced pregnancy rate was found in reproduction studies in rats at a dose of paroxetine of 15 mg/kg/day which is 2.9 times the MRHD for major depressive disorder, social anxiety disorder, GAD and PTSD or 2.4 times the MRHD for OCD on a mg/m<sup>2</sup> basis. Irreversible lesions occurred in the reproductive tract of male rats after dosing in toxicity studies for 2 to 52 weeks. These lesions consisted of vacuolation of epididymal tubular epithelium at 50 mg/kg/day and atrophic changes in the seminiferous tubules of the testes with arrested spermatogenesis at 25 mg/kg/day (3.8 and 4.9 times the MRHD for major depressive disorder, social anxiety disorder and GAD; 3.2 and 4.1 times the MRHD for OCD and PD on a mg/m<sup>2</sup> basis).

### Pregnancy

**Teratogenic Effects—Pregnancy Category C**  
Reproduction studies were performed at doses up to 50 mg/kg/day in rats and 6 mg/kg/day in rabbits administered during organogenesis. These doses are equivalent to 9.7 (rat) and 2.2 (rabbit) times the maximum recommended human dose (MRHD) for major depressive disorder, social anxiety disorder, GAD and PTSD (50 mg) and 8.1 (rat) and 1.9 (rabbit) times the MRHD for OCD, on a mg/m<sup>2</sup> basis. These studies have revealed no evidence of teratogenic effects. However, in rats, there was an increase in pup deaths during the first 4 days of lactation when dosing occurred during the last trimester of gestation and continued throughout lactation. This effect occurred at a dose of 1 mg/kg/day or 0.19 times (mg/m<sup>2</sup>) the MRHD for major depressive disorder, social anxiety disorder, GAD and PTSD, and at 0.16 times (mg/m<sup>2</sup>) the MRHD for OCD. The no-effect dose for rat pup mortality was not determined. The cause of these deaths is not known. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

### Labor and Delivery

The effect of paroxetine on labor and delivery in humans is unknown.

### Nursing Mothers

Like many other drugs, paroxetine is secreted in human milk, and caution should be exercised when *Paxil* (paroxetine hydrochloride) is administered to a nursing woman.

### Pediatric Use

Safety and effectiveness in the pediatric population have not been established.

### Geriatric Use

In worldwide premarketing *Paxil* clinical trials, 17% of *Paxil*-treated patients (approximately 700) were 65 years of age or older. Pharmacokinetic studies revealed no decreased clearance in the elderly, and a lower starting dose is recommended; there were, however, no overall differences in the adverse event profile between elderly and younger patients, and effectiveness was similar in younger and older patients (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION).

### ADVERSE REACTIONS

#### Associated with Discontinuation of Treatment

Twenty percent (1,195/6,145) of *Paxil* patients in worldwide clinical trials in major depressive disorder and 16.1% (84/522), 11.8% (64/542), 9.4% (44/469), 10.7% (79/735) and 11.7% (79/678) of *Paxil* patients in worldwide trials in social anxiety disorder, OCD, panic disorder, GAD and PTSD, respectively, discontinued treatment due to an adverse event. The most common events (≥1%) associated with discontinuation and considered to be drug related (i.e., those events associated with dropout at a rate approximately twice or greater for *Paxil* compared to placebo) included the following:

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continued

**Paxil® (paroxetine hydrochloride) continued**

System	Major Depressive Disorder		OCD		Panic Disorder		Social Anxiety Disorder		Generalized Anxiety Disorder		PTSD	
	Paxil	Placebo	Paxil	Placebo	Paxil	Placebo	Paxil	Placebo	Paxil	Placebo	Paxil	Placebo
SMS												
Somnolence	23%	0.7%	—	—	1.3%	0.3%	3.4%	0.3%	2.6%	0.2%	2.6%	0.5%
Insomnia	1.1%	0.5%	1.7%	0%	1.3%	0.3%	3.1%	0%	—	—	—	—
Yawning	1.1%	0.3%	—	—	—	—	1.7%	0%	—	—	1.0%	0.2%
Excessive sweating	—	—	1.5%	0%	—	—	1.1%	0%	1.6%	0.2%	—	—
Heat intolerance	—	—	—	—	—	—	1.3%	0%	—	—	—	—
Metabolic												
Constipation	—	1.1%	8%	—	3.2%	1.2%	4.0%	0.3%	2.0%	0.2%	2.2%	0.6%
Diarrhea	1.0%	0.3%	—	—	—	—	—	—	—	—	—	—
Dry mouth	1.0%	0.3%	—	—	—	—	—	—	—	—	—	—
Oral tingling	1.0%	0.3%	—	—	—	—	1.0%	0%	—	—	—	—
Adverse effects	—	—	—	—	—	—	1.0%	0.3%	—	—	—	—
Asthenia	1.6%	0.4%	1.9%	0.4%	—	—	—	—	—	—	—	—
Normal ejaculation	1.6%	0%	2.1%	0%	—	—	2.5%	0.6%	1.8%	0.2%	1.6%	0.2%
Abnormal ejaculation	1.0%	0.3%	—	—	—	—	4.5%	0.6%	2.5%	0.5%	—	—
Impotence	—	—	1.5%	0%	—	—	1.1%	0%	1.1%	0.2%	—	—
Libido decreased	—	—	—	—	—	—	1.0%	0%	—	—	—	—

Item numbers are not provided for the incidence of the adverse events in Paxil (paroxetine hydrochloride) patients was not >1% or was not greater than or equal to twice the incidence of placebo.

**Incidence corrected for gender**

**Commonly Observed Adverse Events**

**Major Depressive Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 1 below) were: asthenia, sweating, nausea, decreased appetite, somnolence, dizziness, insomnia, tremor, nervousness, ejaculatory disturbance and other male genital disorders.

**Obsessive Compulsive Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 2 below) were: nausea, dry mouth, decreased appetite, constipation, dizziness, somnolence, tremor, sweating, impotence and abnormal ejaculation.

**Panic Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 2 below) were: asthenia, sweating, decreased appetite, libido decreased, tremor, normal ejaculation, female genital disorders and impotence.

**Social Anxiety Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 2 below) were: sweating, nausea, dry mouth, constipation, decreased appetite, somnolence, tremor, libido decreased, yawning, abnormal ejaculation, female genital disorders and impotence.

**Generalized Anxiety Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 3 below) were: asthenia, infection, constipation, decreased appetite, dry mouth, nausea, libido decreased, somnolence, tremor, sweating and abnormal ejaculation.

**Posttraumatic Stress Disorder**  
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Paxil at least twice that for placebo, derived from Table 3 below) were: asthenia, sweating, nausea, dry mouth, diarrhea, decreased appetite, somnolence, libido decreased, abnormal ejaculation, female genital disorders and impotence.

**Controlled Clinical Trials**  
A prescriber should be aware that the figures in the tables following cannot be used to predict the incidence of side effects in the use of usual medical practice where patient characteristics and other factors differ from those which 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. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and non-drug factors to the side effect incidence rate in the populations studied.

**Major Depressive Disorder**  
Table 1 enumerates adverse events that occurred at an incidence of 1% or more among paroxetine-treated patients who participated in 11-term (6-week) placebo-controlled trials in which patients were dosed in a range of 20 to 50 mg/day. Reported adverse events were styled using a standard COSTART-based Dictionary terminology.

**Table 1. Treatment-Emergent Adverse Experience Incidence in Placebo-Controlled Clinical Trials for Major Depressive Disorder\***

System	Preferred Term	Paxil (n=421)	Placebo (n=421)
Body as a Whole	Headache	16%	17%
	Asthenia	15%	6%
	Palpitation	3%	1%
Cardiovascular	Vasodilation	3%	1%
	Sweating	11%	2%
	Rash	2%	1%
Gastrointestinal	Nausea	26%	9%
	Dry Mouth	18%	12%
	Constipation	14%	9%
	Diarrhea	12%	8%
	Decreased Appetite	6%	2%
	Flatulence	4%	2%
	Oropharyngeal Disorder <sup>1</sup>	2%	0%
	Dyspepsia	2%	0%
Skeletal	Myopathy	2%	1%
	Myalgia	2%	1%
	Myasthenia	1%	0%
Nervous System	Somnolence	23%	9%
	Dizziness	13%	6%
	Insomnia	10%	6%
	Tremor	8%	2%
	Nervousness	5%	3%
	Anxiety	5%	3%
	Paresthesia	4%	2%
	Libido Decreased	3%	1%
	Drugged Feeling	2%	0%
	Confusion	1%	0%
Respiratory	Yawning	4%	0%
Special Senses	Blurred Vision	4%	1%
	Taste Perversion	2%	0%
Genital System	Ejaculatory Disturbance <sup>2,3</sup>	13%	0%
	Other Male Genital Disorders <sup>3</sup>	10%	0%
	Urinary frequency	3%	1%
	Urination Disorder <sup>4</sup>	3%	0%
	Female Genital Disorders <sup>3,5</sup>	2%	0%

\*Events reported by at least 1% of patients treated with Paxil (paroxetine hydrochloride) are included, except the following events which had an incidence on placebo ≥ Paxil: abdominal pain, agitation, back pain, chest pain, CNS stimulation, fever, increased appetite, yobonous, pharyngitis, postural hypotension, respiratory disorder (includes mostly "cold symptoms" or "URI"), trauma and vomiting. Incidence corrected for gender.

<sup>1</sup>Includes "gastrointestinal delay."  
<sup>2</sup>Includes "anorgasmia," "erectile difficulties," "delayed ejaculation/orgasm," and "sexual dysfunction," and "impotence."  
<sup>3</sup>Includes mostly "difficulty with micturition" and "urinary hesitancy."  
<sup>4</sup>Includes mostly "anorgasmia" and "difficulty reaching climax/orgasm."

**Obsessive Compulsive Disorder, Panic Disorder and Social Anxiety Disorder**  
Table 2 enumerates adverse events that occurred at a frequency of 2% or more among OCD patients on Paxil who participated in placebo-controlled trials of 12-weeks duration in which patients were dosed in a range of 20 to 60 mg/day or among patients with panic disorder on Paxil who participated in placebo-controlled trials of 10- to 12-weeks duration in which patients were dosed in a range of 10 mg/day or among patients with social anxiety disorder on Paxil who participated in placebo-controlled trials of 12-weeks duration in which patients were dosed in a range of 20 to 50 mg/day.

**Table 2. Treatment-Emergent Adverse Experience Incidence in Placebo-Controlled Clinical Trials for Obsessive Compulsive Disorder, Panic Disorder and Social Anxiety Disorder\***

System	Preferred Term	Obsessive Compulsive Disorder		Panic Disorder		Social Anxiety Disorder	
		Paxil (n=242)	Placebo (n=242)	Paxil (n=242)	Placebo (n=242)	Paxil (n=242)	Placebo (n=242)
	Asthenia	22%	14%	11%	5%	22%	14%
	Abdominal Pain	3%	2%	1%	3%	—	—
	Chest Pain	—	—	1%	2%	—	—
	Back Pain	—	—	1%	1%	—	—
	Chills	2%	1%	—	—	—	—
	Trauma	4%	1%	—	—	—	—
	Vasodilation	2%	0%	—	—	—	—
	Palpitation	1%	—	—	—	—	—

\*In a fixed-dose study comparing placebo and Paxil 20, 40 and 60 mg in the treatment of OCD, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned. No new adverse events were observed in a fixed-dose study comparing placebo and Paxil 10, 20 and 40 mg in the treatment of panic disorder, there was no clear relationship between adverse events and the dose of Paxil to which patients were assigned, except for asthenia, dry mouth, anxiety, libido decreased, tremor and abnormal ejaculation. In flexible-dose studies, no new adverse events were observed in patients receiving Paxil 60 mg compared to any of the other treatment groups.

In a fixed-dose study comparing placebo and Paxil 20, 40 and 60 mg in the treatment of social anxiety disorder, for most of the adverse events, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned.

In a fixed-dose study comparing placebo and Paxil 20 and 40 mg in the treatment of generalized anxiety disorder, for most of the adverse events, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned.

System	Preferred Term	Generalized Anxiety Disorder		Posttraumatic Stress Disorder	
		Paxil (n=735)	Placebo (n=529)	Paxil (n=478)	Placebo (n=504)
Body System	Assthenia	14%	6%	12%	4%
	Headache	17%	14%	5%	4%
	Infection	6%	3%	4%	3%
	Abdominal Pain	—	—	4%	3%
Cardiovascular	Trauma	3%	1%	6%	5%
Dermatologic	Sweating	3%	2%	2%	1%
Gastrointestinal	Nausea	20%	5%	5%	1%
	Dry Mouth	11%	5%	19%	8%
	Constipation	10%	2%	5%	3%
	Diarrhea	9%	7%	11%	5%
	Decreased Appetite	5%	1%	6%	3%
	Vomiting	3%	2%	3%	2%
	Dyspepsia	3%	2%	3%	2%
Nervous System	Insomnia	11%	8%	5%	3%
	Somnolence	15%	5%	16%	6%
	Dizziness	6%	5%	6%	5%
	Tremor	4%	1%	4%	1%
	Nervousness	5%	3%	2%	2%
	Libido Decreased	3%	2%	3%	2%
	Abnormal Dreams	3%	2%	3%	2%
Respiratory System	Respiratory Disorder	7%	5%	—	—
	Sinusitis	4%	3%	—	—
Special Senses	Blurred Vision	4%	—	2%	<1%
Urinary System	Abnormal Ejaculation <sup>1</sup>	2%	1%	3%	2%
	Female Genital Disorder <sup>2</sup>	4%	2%	13%	2%
	Impotence <sup>3</sup>	4%	3%	9%	1%

1. Events reported by at least 2% of OCD, panic disorder, and social anxiety disorder Paxil-treated patients are included, except the following events which had an incidence on placebo ≥ Paxil: abdominal pain, agitation, anxiety, back pain, cough increased, depression, headache, hyperkinesia, infection, parosmia, respiratory disorder, rhinitis and sinusitis, (panic disorder); abnormal dreams, abnormal vision, chest pain, cough increased, depersonalization, depression, dysmenorrhea, dyspepsia, flu syndrome, headache, infection, myalgia, nervousness, palpitation, parosmia, pharyngitis, rash, respiratory disorder, sinusitis, taste respiratory disorder, and vasodilation, (social anxiety disorder); abdominal pain, depression, headache, infection, posttraumatic stress disorder, and vasodilation.

2. Percentage corrected for gender.

**Generalized Anxiety Disorder and Posttraumatic Stress Disorder**  
Table 3 enumerates adverse events that occurred at a frequency of 2% or more among GAD patients on Paxil who participated in placebo-controlled trials of 8-weeks duration in which patients were dosed in a range of 10 mg/day to 50 mg/day or among PTSD patients on Paxil who participated in placebo-controlled trials of 12-weeks duration in which patients were dosed in a range of 20 mg/day to 50 mg/day.

**Table 3. Treatment-Emergent Adverse Experience Incidence in Placebo-Controlled Clinical Trials for Generalized Anxiety Disorder and Posttraumatic Stress Disorder\***

System	Preferred Term	Generalized Anxiety Disorder		Posttraumatic Stress Disorder	
		Paxil (n=735)	Placebo (n=529)	Paxil (n=478)	Placebo (n=504)
Body as a Whole	Assthenia	14%	6%	12%	4%
	Headache	17%	14%	5%	4%
	Infection	6%	3%	4%	3%
	Abdominal Pain	—	—	4%	3%
Cardiovascular	Trauma	3%	1%	6%	5%
Dermatologic	Sweating	3%	2%	2%	1%
Gastrointestinal	Nausea	20%	5%	5%	1%
	Dry Mouth	11%	5%	19%	8%
	Constipation	10%	2%	5%	3%
	Diarrhea	9%	7%	11%	5%
	Decreased Appetite	5%	1%	6%	3%
	Vomiting	3%	2%	3%	2%
	Dyspepsia	3%	2%	3%	2%
Nervous System	Insomnia	11%	8%	5%	3%
	Somnolence	15%	5%	16%	6%
	Dizziness	6%	5%	6%	5%
	Tremor	4%	1%	4%	1%
	Nervousness	5%	3%	2%	2%
	Libido Decreased	3%	2%	3%	2%
	Abnormal Dreams	3%	2%	3%	2%
Respiratory System	Respiratory Disorder	7%	5%	—	—
	Sinusitis	4%	3%	—	—
Special Senses	Blurred Vision	4%	—	2%	<1%
Urinary System	Abnormal Ejaculation <sup>1</sup>	2%	1%	3%	2%
	Female Genital Disorder <sup>2</sup>	4%	2%	13%	2%
	Impotence <sup>3</sup>	4%	3%	9%	1%

1. Events reported by at least 2% of GAD and PTSD Paxil-treated patients are included, except the following events which had an incidence on placebo ≥ Paxil: abdominal pain, back pain, trauma, dyspepsia, myalgia, and pharyngitis. (PTSD): back pain, headache, anxiety, depression, nervousness, respiratory disorder, pharyngitis and sinusitis.

2. Percentage corrected for gender.

**Dose Dependency of Adverse Events:** A comparison of adverse event rates in a fixed-dose study comparing Paxil 10, 20, 30 and 40 mg/day with placebo in the treatment of major depressive disorder revealed a clear dose dependency for some of the more common adverse events associated with Paxil use, as shown in the following table:

**Table 4. Treatment-Emergent Adverse Experience Incidence in a Dose-Comparison Trial in the Treatment of Major Depressive Disorder\***

Body System/Preferred Term	Placebo (n=51)	10 mg (n=102)	20 mg (n=104)	Paxil (n=101)	40 mg (n=102)
Body as a Whole					
Asthenia	0.0%	2.9%	10.6%	13.9%	12.7%
Dermatologic					
Sweating	2.0%	1.0%	6.7%	8.9%	11.8%
Gastrointestinal					
Constipation	0.9%	4.9%	7.7%	9.9%	12.7%
Decreased Appetite	2.0%	2.0%	5.6%	4.0%	4.9%
Diarrhea	7.8%	9.8%	19.2%	7.9%	14.7%
Dry Mouth	2.0%	10.9%	18.3%	15.8%	20.6%
Nausea	13.7%	14.7%	26.9%	34.7%	36.3%
Nervous System					
Anxiety	0.0%	2.0%	5.8%	5.9%	5.9%
Dizziness	3.9%	6.9%	6.7%	8.9%	12.7%
Nervousness	0.0%	5.9%	5.8%	4.0%	2.9%
Paresthesia	0.0%	2.9%	1.0%	5.0%	5.9%
Somnolence	7.8%	12.7%	18.3%	20.8%	21.6%
Tremor	0.0%	0.0%	7.7%	7.9%	14.7%
Special Senses					
Blurred Vision	2.0%	2.9%	2.9%	2.0%	7.8%
Urinary System					
Abnormal Ejaculation	0.0%	5.8%	6.5%	10.6%	13.0%
Impotence	0.0%	1.9%	4.3%	6.4%	1.9%
Male Genital Disorders	0.0%	3.8%	8.7%	6.4%	8.7%

\*Rule for including adverse events in table: incidence at least 5% for one of paroxetine groups and ≥ twice the placebo incidence for at least one paroxetine group.

In a fixed-dose study comparing placebo and Paxil 20, 40 and 60 mg in the treatment of OCD, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned. No new adverse events were observed in the Paxil 60 mg dose group compared to any of the other treatment groups.

In a fixed-dose study comparing placebo and Paxil 10, 20 and 40 mg in the treatment of panic disorder, there was no clear relationship between adverse events and the dose of Paxil to which patients were assigned, except for asthenia, dry mouth, anxiety, libido decreased, tremor and abnormal ejaculation. In flexible-dose studies, no new adverse events were observed in patients receiving Paxil 60 mg compared to any of the other treatment groups.

In a fixed-dose study comparing placebo and Paxil 20, 40 and 60 mg in the treatment of social anxiety disorder, for most of the adverse events, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned.

In a fixed-dose study comparing placebo and Paxil 20 and 40 mg in the treatment of generalized anxiety disorder, for most of the adverse events, there was no clear relationship between adverse events and the dose of Paxil (paroxetine hydrochloride) to which patients were assigned.

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