

SB
SmithKline Beecham
Pharmaceuticals

January 4, 2000

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Dear Dr. Redacted

Your Pharmaceutical Consultant, Edward Nyberg, forwarded your request for information regarding the use of *Paxil* (paroxetine hydrochloride, SmithKline Beecham Pharmaceuticals) for the treatment of depression, obsessive compulsive disorder (OCD), panic disorder or social anxiety disorder (social phobia) in children and adolescents.

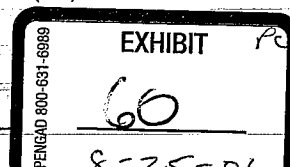
Synopsis

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. However, a search of the Product Information Department's published literature database and MEDLINE identified several studies and case reviews which discuss the use of *Paxil* in children or adolescents for the treatment of depression, obsessive compulsive disorder (OCD), panic disorder or social anxiety disorder (social phobia).

The use of *Paxil* in adolescents with depression has been evaluated in one double-blind, placebo-controlled study (n=275). This study found *Paxil* to be superior to placebo by several assessment methods and to be tolerated better than treatment with imipramine. The findings of this study are in agreement with two small open-label studies and one retrospective study. However, further study is needed to clearly establish the safety and efficacy of *Paxil* in the treatment of adolescents with depression.

The use of *Paxil* in the treatment of adolescents with OCD has been evaluated in one open-label study. Although the findings of this study are encouraging, any conclusions

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regarding the efficacy and safety of *Paxil* for the treatment of OCD in adolescents awaits adequately designed, double blind, placebo-controlled trials.

Published information regarding the use of *Paxil* in the treatment of panic disorder and social anxiety disorder is limited to a few case reports. Although the reports are favorable, the use of *Paxil* in adolescents for these disorders has not been methodically studied.

Depression

Double-blind, Placebo-controlled Trial

Data gathered from a double-blind, placebo-controlled, multicenter trial comparing the safety and efficacy of *Paxil* and imipramine in the treatment of adolescents with major depression has been presented (Berard, 1998; Keller, 1998). A total of 275 adolescents (12 to 18 years), who met DSM-III-R 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 8 weeks and 190 patients completed the study. If no response was noted at week 4, the treatment dosage could be increased over the next two weeks to a maximum of 40 mg/day of *Paxil* or 300 mg/day of imipramine.

The primary assessment of treatment response was based on the 17-item Hamilton Depression Rating Scale (HAM-D) and included the percentage of treatment responders (50% or more reduction from baseline or a final score of 8 or less) and the mean change in HAM-D scores. Secondary assessments included mean Clinical Global Impression of 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). Significant separation ($p=0.05$) was seen between the percentage of responders treated with *Paxil* (81%) compared to placebo (65%). The percentage of responders in the imipramine group (73%) did not separate from placebo. No statistical difference in mean HAM-D score change was seen in any treatment group although a trend favoring *Paxil* was reported. Mean CGI-I scores at endpoint favored treatment with *Paxil* compared to placebo (1.9 vs 2.4, respectively, $p=0.03$). Mean changes in K-SADS-L scores were not significantly different in any treatment group.

Withdrawal from the study due to adverse events was highest (32%) in the imipramine group, compared to 10% and 7% in the *Paxil* and placebo groups, respectively. No further details on adverse events were provided in this report.

Open-label Trials

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 ± 2.0), meeting DSM-III-R criteria for major depressive disorder, were treated with *Paxil* (initial dose 10 mg/day; mean final dose 16 mg/day ± 5 mg) 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 (CGS) at baseline, month 1, month 3 and at the end of treatment. Response was reported as the intensity of therapeutic response (ITR), a reflection of point change in CGS. At baseline, the mean CGS was 3.0 (range 2-4). At month 1, the mean CGS was 2.2 (range 1-4; mean ITR = 0.8) and at month 3 the mean CGS was 1.2 (range 0-3, mean ITR = 1.8). A complete remission of symptoms was reported in all patients at the end of treatment (8.4 ± 1.4 months.). Boys showed a significantly ($p < 0.05$) better response than girls at 1 month as measured by CGS or ITR. This difference was not seen at month 3. No patient experienced a worsening of symptoms. Adverse events were reported in 4/45 (9.5%) of the patients (vomiting during the first 4 days of treatment, anxiety and nervousness, abdominal pain, and abdominal cramps and nausea). These events were reported as mild to moderate with no patient withdrawing from the study. Patients were permitted to receive benzodiazepines during the study if needed; 16/45 (36%) patients were treated as such for insomnia or acute anxiety.

Other Published Data

Masi et al (1997) reported improvement in 4 of 7 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. Two patients withdrew from the treatment due to adverse events (dizziness with hypotension, anxiety). Common adverse events included asthenia, somnolence and nausea.

Obsessive Compulsive Disorder

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 Children's Yale-Brown Obsessive Compulsive Scale (CY-BOCS), the Children's Global Assessment Scale (CGAS) and the Clinical Global Impression Scale (CGI). 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 2 weeks up to a maximum of 60 mg/day. The mean dose at study completion was 41 mg/day. Nineteen of the patients completed the 12-week course of

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treatment; the remaining patient was assessed at 8 weeks 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 (see 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 2 weeks on the Adverse Experience Scale. Severe treatment-emergent adverse events included suicidal ideation ($n=1$) and increased tics ($n=1$). 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 ($n=1$). The authors noted that they did not observe any hypomania or mania in these patients. Possible mania, however, has been described elsewhere (Diler, 1999) in three children treated with 20 mg/day of *Paxil* for OCD.

Panic Disorder

Response to treatment with a number of different selective serotonin reuptake inhibitors (SSRIs), including *Paxil* was evaluated in a naturalistic, open-label study consisting of two phases: an acute treatment period consisting of six to eight weeks and follow-up phase lasting approximately 6 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 8 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 Clinician Global Impression (CGI) scale and the Children's Global Assessment Scale (C-GAS). The frequency of panic attacks was not noted.

Patients were treated with fluoxetine unless there was 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

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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 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.

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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*. SmithKline Beecham Pharmaceuticals 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 Product Information Department at 1-800-366-8900, ext. 5231.

Sincerely,

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Product Information Department

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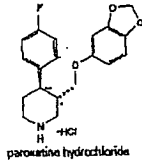
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PRESCRIBING INFORMATION

PAXIL®
brand of
paroxetine hydrochloride
tablets and oral suspension

DESCRIPTION

Paxil (paroxetine hydrochloride) is an orally administered antidepressant with a chemical structure unrelated to other selective serotonin reuptake inhibitors or to tricyclic, tetracyclic or other available antidepressant agents. It is the hydrochloride salt of a phenylpiperidine compound identified chemically as (+)-trans-4-[4-(4-horophenyl)-3S-1',3'-4'-methylenehexahydro-1H-pyridine]piperidine hydrochloride and has the empirical formula of C₁₇H₁₉FN₂·HCl·1/2H₂O. The molecular weight is 374.8 (325.4 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 5.8 mg/mL in water.

Tablets

Each film-coated tablet contains paroxetine hydrochloride equivalent to paroxetine as follows: 10 mg—yellow; 20 mg—pink (scored); 30 mg—blue; 40 mg—green. Inactive ingredients consist of dibasic calcium phosphate dihydrate, hydroxypropyl methylcellulose, magnesium stearate, polyethylene glycol, polyacrylate 80, xanthan starch glycolate, titanium dioxide and one or more of the following: D&C Red No. 30, D&C Yellow No. 10, FD&C Blue No. 2, FD&C Yellow No. 6.

Suspension for Oral Administration

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

CLINICAL PHARMACOLOGY

Pharmacodynamics

The antidepressant action of paroxetine and its efficacy in the treatment of social anxiety disorder, obsessive compulsive disorder (OCD) and panic disorder (PD) is presumed to be linked to potentiation of serotonergic activity in the central nervous system resulting from inhibition of neuronal reuptake of serotonin (5-hydroxy-tryptamine, 5-HT). Studies at clinically relevant doses in human have demonstrated that paroxetine blocks the uptake of serotonin into human platelets. *In vivo* 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, alpha₁, alpha₂, beta-adrenergic, dopamine (D₁), 5-HT_{1A}, 5-HT_{1B}, and histamine (H₁)-receptors; antagonism of muscarinic, histaminergic and alpha₁-adrenergic receptors has been associated with various anticholinergic, sedative and cardiovascular effects for other psychotropic drugs. Because the relative potencies of paroxetine's major metabolites are at most 1/50 of the parent compound, they are essentially inactive.

Pharmacokinetics

Paroxetine is equally bioavailable from oral suspension and tablet. Paroxetine hydrochloride is completely absorbed after oral dosing of a solution of the hydrochloride salt. In a study in which normal male subjects (n=15) received 30 mg tablets daily for 30 days, steady-state paroxetine concentrations were achieved by approximately 10 days for most subjects, although it may take substantially longer in an occasional patient. At steady state, mean values of C_{max}, T_{max}, C_{min} and T_{1/2} were 61.7 ng/mL (CV 45%), 5.2 hr (CV 10%), 20.7 ng/mL (CV 67%) and 21.0 hr (CV 22%), respectively. The steady-state C_{max} and C_{min} values were about 6 and 14 times what would be predicted from single-dose studies. Steady-state drug exposure based on AUC₀₋₂₄ was about 8 times greater than would have been predicted from single-dose data in these subjects. The excess accumulation is a consequence of the fact that one of the enzymes that metabolizes paroxetine is readily saturable. In steady-state dose proportionality studies involving elderly and nonelderly patients, at doses of 20 to 40 mg daily for the elderly and 20 to 50 mg daily for the nonelderly, some nonlinearity was observed in both populations, again reflecting a saturable metabolic pathway. In comparison to C_{max} values after 20 mg daily values after 40 mg daily were only about 2 to 3 times greater than double.

The effects of food on the pharmacokinetics of paroxetine were studied in subjects administered a single dose with and without food. AUC values only slightly increased (8%) when drug was administered with food but the C_{max} was 23% greater, while the time to reach peak plasma concentration decreased from 6.4 hours post-dosing to 4.9 hours.

Paroxetine is extensively metabolized after oral administration. The principal metabolites are polar and conjugated products of oxidation and methylation, which are readily cleared. Conjugates with glucuronic acid and sulfate predominate, and major metabolites have been isolated and identified. Data indicate that the metabolites have no more than 1/50 the potency of the parent compound at inhibiting serotonin reuptake. The metabolism of paroxetine is accomplished in part by cytochrome P₄₅₀. Saturation of the enzyme at clinical doses appears to account for the nonlinearity of paroxetine kinetics with increasing dose and increasing duration of treatment. The role of these enzymes in paroxetine metabolism also suggests potential drug-drug interactions (see PRECAUTIONS).

Approximately 64% of a 30 mg oral solution dose of paroxetine was excreted in the urine with 2% as the parent compound and 62% as metabolites over a 10-day post-dosing period. About 36% was excreted in the feces (probably via the bile), mostly as metabolites and less than 1% as the parent compound over the 10-day post-dosing period.

Distribution: Paroxetine distributes throughout the body, including the CNS, with only 1% remaining in the plasma. **Protein Binding:** Approximately 95% and 83% of paroxetine is bound to plasma protein at 100 ng/mL and 400 ng/mL, respectively. Under clinical conditions, paroxetine concentrations would normally be less than 400 ng/mL. Paroxetine does not alter the *in vitro* protein binding of phenytoin or warfarin.

Renal and Liver Disease: Increased plasma concentrations of paroxetine occur in subjects with renal and hepatic impairment. The mean plasma concentrations in patients with creatinine clearance below 30 mL/min, was approximately 4 times greater than seen in normal volunteers. Patients with creatinine clearance of 30 to 60 mL/min, and patients with hepatic functional impairment had about a 2-fold increase in plasma concentrations (AUC, C_{max}). The initial dosage should therefore be reduced in patients with severe (not of hepatic impairment, and upward titration, if necessary, should be at increased intervals (see DOSAGE AND ADMINISTRATION).

Elderly Patients: In a multiple-dose study in the elderly at daily paroxetine doses of 20, 30 and 40 mg, C_{max} concentrations were about 70% to 80% greater than the respective C_{max} concentrations in nonelderly subjects. Therefore the initial dosage in the elderly should be reduced (see DOSAGE AND ADMINISTRATION).

Clinical Trials

Depression

The efficacy of Paxil (paroxetine hydrochloride) as a treatment for depression has been established in 6 placebo-controlled studies of patients with depression (ages 18 to 70). In these studies Paxil was shown to be significantly more effective than placebo in treating depression by at least 2 of the following measures: Hamilton Depression Rating Scale (HDRS), the Hamilton depression mood item, and the Clinical Global Impression (CGI)—Severity of Illness. Paxil (paroxetine hydrochloride) was significantly better than placebo in improvement of the HDRS sub-factor scores, including the depressed mood item, sleep disturbance factor and anxiety factor.

A study of depressed outpatients who had responded to Paxil (HDRS total score <8) during an initial 8-week open-treatment phase and were then randomized to continuation on Paxil or placebo for 1 year demonstrated a significantly lower relapse rate for patients taking Paxil (15%) compared to those on placebo (39%). Effectiveness was similar for male and female patients.

Obsessive Compulsive Disorder

The effectiveness of Paxil in the treatment of obsessive compulsive disorder (OCD) was demonstrated in two 12-week multicenter placebo-controlled studies of adult outpatients (Studies 1 and 2). Patients in all studies had moderate to severe OCD (Y-BOCS) with mean baseline ratings on the Yale Brown Obsessive Compulsive Scale (YBOCS) total score ranging from 23 to 28. Study 1, a dose-range finding study where patients were treated with fixed doses of 20, 40 or 60 mg of paroxetine/day demonstrated that daily doses of paroxetine 40 and 60 mg are effective in the treatment of OCD. Patients receiving doses of 40 and 60 mg paroxetine experienced a mean reduction of approximately 6 and 7 points, respectively, on the YBOCS total score which was significantly greater than the approximate 4 point reduction at 20 mg and a 3 point reduction in the placebo-treated patients. Study 2 was

a flexible dose study comparing paroxetine (20 to 60 mg daily) with clomipramine (25 to 250 mg daily). In this study, patients receiving paroxetine experienced a mean reduction of approximately 7 points on the YBOCS total score which was significantly greater than the mean reduction of approximately 4 points in placebo-treated patients. The following table provides the outcome classification by treatment group on Global Improvement Items of the Clinical Global Impression (CGI) scale for Study 1.

Outcome Classification	Outcome Classification (%) on CGI-Global Improvement Item for Completers in Study 1			
	Placebo (n=74)	Paxil 20 mg (n=75)	Paxil 40 mg (n=66)	Paxil 60 mg (n=66)
Worse	14%	7%	7%	3%
No Change	44%	35%	22%	19%
Minimally Improved	24%	33%	29%	34%
Much Improved	11%	18%	22%	24%
Very Much Improved	7%	7%	20%	20%

Subgroup analyses did not indicate that there were any differences in treatment outcomes as a function of age or gender.

The long-term maintenance effects of Paxil in OCD were demonstrated in a long-term extension to Study 1. Patients who were responders on paroxetine during the 3-month double-blind phase and a 6-month extension on open-label paroxetine (20 to 60 mg/day) were randomized to either paroxetine or placebo in a 6-month double-blind relapse prevention phase. Patients randomized to paroxetine were significantly less likely to relapse than comparably treated patients who were randomized to placebo.

Panic Disorder

The effectiveness of Paxil (paroxetine hydrochloride) in the treatment of panic disorder was demonstrated in three 10- to 12-week multicenter, placebo-controlled studies of adult outpatients (Studies 1-3). Patients in all studies had panic disorder (DSM-III-R), with or without agoraphobia. In these studies, Paxil was shown to be significantly more effective than placebo in treating panic disorder by at least 2 out of 3 measures of panic attack frequency and on the Clinical Global Impression Severity of Illness score.

Study 1 was a 10-week dose-range finding study; patients were treated with fixed paroxetine doses of 10, 20, or 40 mg/day for placebo. A significant difference from placebo was observed only for the 40 mg/day group. At endpoint, 76% of patients receiving paroxetine 40 mg/day were free of panic attacks, compared to 44% of placebo-treated patients.

Study 2 was a 12-week flexible-dose study comparing paroxetine (10 to 60 mg daily) and placebo. At endpoint, 51% of paroxetine patients were free of panic attacks compared to 32% of placebo-treated patients.

Study 3 was a 12-week flexible-dose study comparing paroxetine (10 to 60 mg daily) to placebo in patients concurrently receiving standardized cognitive behavioral therapy. At endpoint, 33% of the paroxetine-treated patients showed a reduction to 0 or 1 panic attacks compared to 14% of placebo patients.

In both Studies 2 and 3, the mean paroxetine dose for completers at endpoint was approximately 40 mg/day of paroxetine. Long-term maintenance effects of Paxil in panic disorder were demonstrated in an extension to Study 1. Patients who were responders during the 10-week double-blind phase and during a 3-month double-blind extension phase were randomized to either paroxetine (10, 20, or 40 mg/day) or placebo in a 3-month double-blind relapse prevention phase. Patients randomized to paroxetine were significantly less likely to relapse than comparably treated patients who were randomized to placebo.

Subgroup analyses did not indicate that there were any differences in treatment outcomes as a function of age or gender.

Social Anxiety Disorder

The effectiveness of Paxil in the treatment of social anxiety disorder was demonstrated in three 12-week, multicenter, placebo-controlled studies (Studies 1-3) of adult outpatients with social anxiety disorder (DSM-IV). In these studies, the effectiveness of Paxil compared to placebo was evaluated on the basis of (1) the proportion of responders, as defined by a Clinical Global Impression (CGI) improvement score of 1 (every much improved) or 2 (much improved), and (2) change from baseline in the Liebowitz Social Anxiety Scale (LSAS).

Studies 1 and 2 were flexible-dose studies comparing paroxetine (20 to 50 mg daily) and placebo. Paroxetine demonstrated statistically significant superiority over placebo on both the CGI improvement responder criterion and the Liebowitz Social Anxiety Scale (LSAS). In Study 1, for patients who completed to week 12, 63% of paroxetine-treated patients compared to 29% of placebo-treated patients were CGI improvement responders. In Study 2, CGI improvement responders were 77% and 42% for the paroxetine- and placebo-treated patients, respectively.

Study 3 was a 12-week study comparing fixed paroxetine doses of 20, 40 or 60 mg/day with placebo. Paroxetine 20 mg was demonstrated to be significantly superior to placebo on both the LSAS Total Score and the CGI improvement responder criterion; there were trends for superiority over placebo for the 40 and 60 mg/day dose groups. There was no indication in this study of any additional benefit for doses higher than 20 mg/day. Subgroup analyses did not indicate differences in treatment outcomes as a function of age, race, or gender.

INDICATIONS AND USAGE

Depression

Paxil (paroxetine hydrochloride) is indicated for the treatment of depression.

The efficacy of Paxil in the treatment of a major depressive episode was established in 6-week controlled trials of outpatients whose diagnoses corresponded most closely to the DSM-III category of major depressive disorder (see CLINICAL PHARMACOLOGY). A major depressive episode implies a prominent and relatively persistent depressed or dysphoric mood that usually interferes with daily functioning (nearly every day for at least 2 weeks); it should include at least 4 of the following 9 symptoms: change in appetite (increase or decrease), psychomotor agitation or retardation, loss of interest in usual activities or decrease in sexual drive, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, and a suicide attempt or suicidal ideation. The antidepressant action of Paxil in hospitalized depressed patients has not been adequately studied.

The efficacy of Paxil in maintaining an antidepressant response for up to 1 year was demonstrated in a placebo-controlled trial (see CLINICAL PHARMACOLOGY). Nevertheless, 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.

Obsessive Compulsive Disorder

Paxil is indicated for the treatment of obsessions and compulsions in patients with obsessive compulsive disorder (OCD) as defined in the DSM-III-R. The obsessions or compulsions cause marked distress, are time-consuming, or significantly interfere with social or occupational functioning.

The efficacy of Paxil was established in the 12-week trials with obsessive compulsive outpatients whose diagnoses corresponded most closely to the DSM-III-R category of obsessive compulsive disorder (see CLINICAL PHARMACOLOGY—Clinical Trials).

Obsessive compulsive disorder is characterized by recurrent and persistent ideas, thoughts, impulses or images (obsessions) that are ego-dystonic and/or repetitive, purposeful and intentional behaviors (compulsions) that are recognized by the person as excessive or unreasonable.

Long-term maintenance of efficacy was demonstrated in a 6-month relapse prevention trial. In this trial, patients assigned to paroxetine showed a lower relapse rate compared to patients on placebo (see CLINICAL PHARMACOLOGY). Nevertheless, 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).

Panic Disorder

Paxil is indicated for the treatment of panic disorder, with or without agoraphobia, as defined in DSM-III-R. Panic disorder is characterized by the occurrence of unexpected panic attacks and associated concern about having additional attacks, worry about the implications or consequences of the attacks, and/or a significant change in behavior related to the attacks.

The efficacy of Paxil (paroxetine hydrochloride) was established in three 10- to 12-week trials in panic disorder patients whose diagnoses corresponded to the DSM-III-R category of panic disorder (see CLINICAL PHARMACOLOGY—Clinical Trials).

Panic disorder (DSM-III-R) is characterized by recurrent unexpected panic attacks, i.e., a discrete period of intense fear or discomfort in which four (or more) of the following symptoms develop abruptly and reach a peak within 10 minutes: (1) palpitations, pounding heart, or accelerated heart rate; (2) sweating; (3) trembling or shaking; (4) sensations of shortness of breath or smothering; (5) feeling of choking; (6) chest pain or discomfort; (7) nausea or abdominal distress; (8) feeling dizzy, unsteady, lightheaded, or faint; (9) derealization (feelings of unreality) or depersonalization (being detached from oneself); (10) fear of losing control; (11) fear of dying; (12) paresthesias (numbness or tingling sensations); (13) chills or hot flashes.

Long-term maintenance of efficacy was demonstrated in a 3-month relapse prevention trial. In this trial, patients with panic disorder assigned to paroxetine demonstrated a lower relapse rate compared to patients on placebo (see CLINICAL PHARMACOLOGY). Nevertheless, the physician who prescribes Paxil for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

Social Anxiety Disorder

Paxil is indicated for the treatment of social anxiety disorder, also known as social phobia, as defined in DSM-IV (YBOCS). Social anxiety disorder is characterized by a marked and persistent fear of one or more social or performance situations in which the person is exposed to unfamiliar people or to possible scrutiny by others. Exposure to the feared situation almost invariably provokes anxiety, which may approach the intensity of a panic attack. The feared situations are avoided or endured with intense anxiety or distress. The avoidance, anxious

Faxil® (paroxetine hydrochloride) continued

System	Adverse Event	Incidence (%)	Placebo (%)
Gastrointestinal	Constipation	3.2%	1.2%
	Nausea	1.0%	0.3%
	Diarrhea	1.0%	0.3%
	Dry mouth	1.0%	0.3%
	Vomiting	1.0%	0.3%
	Flatulence	1.0%	0.3%
	Blebs	1.0%	0.3%
	Abnormal ejaculation ¹	1.0%	0.3%
	Sweating	1.0%	0.3%
	Impotence ²	1.0%	0.3%

Where numbers are not provided the incidence of the adverse events in Faxil (paroxetine hydrochloride) patients was not >1% or not yet greater than or equal to two times the incidence of placebo.

1. Incidence corrected for gender.

Commonly Observed Adverse Events

Depressive
The most commonly observed adverse events associated with the use of paroxetine (incidence of 5% or greater and incidence for Faxil at least twice that for placebo, derived from Table 2 below) were: asthenia, sweating, nausea, decreased appetite, somnolence, dizziness, insomnia, tremor, nervousness, ejaculatory disturbances 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 Faxil at least twice that for placebo, derived from Table 2 below) were: sweating, 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 Faxil at least twice that for placebo, derived from Table 2 below) were: asthenia, sweating, decreased appetite, libido decreased, tremor, abnormal 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 Faxil at least twice that for placebo, derived from Table 2 below) were: sweating, nausea, dry mouth, constipation, decreased appetite, somnolence, tremor, libido decreased, yawn, abnormal ejaculation, female genital disorders and impotence.

Incidence in Controlled Clinical Trials

The prescriber should be aware that the figures in the tables following cannot be used to predict the incidence of side effects in the course 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.

Depressions

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

Table 1. Treatment-Emergent Adverse Experiences Incidence in Placebo-Controlled Clinical Trials for Depressions¹

Body System	Preferred Term	Faxil [®] (n=421)	Placebo (n=421)		
Body as a Whole	Headache	18%	17%		
	Asthenia	15%	6%		
	Palpitation	3%	1%		
	Vasodilation	3%	1%		
	Dermatologic	Sweating	11%	2%	
		Rash	7%	3%	
		Nausea	25%	18%	
		Dry Mouth	18%	12%	
	Gastrointestinal	Constipation	14%	9%	
		Diarrhea	12%	8%	
Decreased Appetite		6%	2%		
Flatulence		4%	2%		
Drophanol Disorder ²		2%	0%		
Musculoskeletal		Dyspepsia	2%	1%	
		Myopathy	2%	1%	
		Myalgia	1%	0%	
		Nervous System	Somnolence	23%	9%
			Dizziness	13%	6%
	Insomnia		11%	6%	
	Tremor		8%	2%	
	Nervousness		5%	3%	
	Anxiety		5%	3%	
	Paresthesia		4%	2%	
Libido Decreased	3%		0%		
Drugged Feeling	2%		1%		
Constipation	1%		0%		
Respiration	Yawn	4%	0%		
	Special Senses	Blurred Vision	4%	1%	
		Taste Perversion	2%	0%	
	Urogenital System	Ejaculatory Disturbance ³	13%	0%	
Other Male Genital Disorders ⁴		10%	0%		
Urinary Frequency		3%	1%		
Urination Disorder ⁴		2%	0%		
Female Genital Disorders ^{5,7}		2%	0%		

- Events reported by at least 1% of patients treated with Faxil (paroxetine hydrochloride) are included, except the following events which had an incidence on placebo: Faxil: abdominal pain, agitation, back pain, chest pain, CNS stimulant, fever, increased appetite, myoclonus, pharyngitis, postural hypotension, respiratory disorder (includes mostly "cold symptoms" or "URI"), trauma and vomiting.
- Includes mostly "turns in throat" and "tighness in throat."
- Percentage corrected for gender.
- Mostly "ejaculatory delay."
- Includes "anorgasmia," "erectile difficulties," "delayed ejaculation/orgasm," and "sexual dysfunction," and "impotence."
- Includes mostly "difficulty with micturition" and "urinary hesitancy."
- Includes mostly "anorgasmia" and "difficulty reaching 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 Faxil 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 Faxil who participated in placebo-controlled trials of 10- to 12-weeks duration in which patients were dosed in a range of 10 to 60 mg/day or among patients with social anxiety disorder on Faxil (paroxetine hydrochloride) 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 Experiences Incidence in Placebo-Controlled Clinical Trials for Obsessive Compulsive Disorder, Panic Disorder and Social Anxiety Disorder¹

Body System	Preferred Term	Obsessive Compulsive Disorder		Panic Disorder		Social Anxiety Disorder	
		Faxil (n=22)	Placebo (n=22)	Faxil (n=22)	Placebo (n=22)	Faxil (n=22)	Placebo (n=22)
Body as a Whole	Asthenia, Anorexia, Fatigue	22%	14%	11%	5%	22%	14%

System	Adverse Event	Incidence (%)	Placebo (%)		
Cardiovascular	Chest Pain	3%	2%		
	Back Pain	2%	1%		
	Chills	2%	1%		
	Trauma	1%	1%		
	Vasodilation	2%	0%		
	Palpitation	2%	0%		
	Sweating	3%	2%		
	Rash	2%	1%		
	Nausea	23%	10%		
	Dry Mouth	18%	9%		
Gastrointestinal	Constipation	14%	9%		
	Diarrhea	12%	8%		
	Decreased Appetite	6%	2%		
	Flatulence	4%	2%		
	Drophanol Disorder ²	2%	0%		
	Musculoskeletal	Dyspepsia	2%	1%	
		Myopathy	2%	1%	
		Myalgia	1%	0%	
		Nervous System	Somnolence	23%	9%
			Dizziness	13%	6%
Insomnia			11%	6%	
Tremor			8%	2%	
Nervousness			5%	3%	
Anxiety			5%	3%	
Paresthesia			4%	2%	
Libido Decreased	3%		0%		
Drugged Feeling	2%		1%		
Constipation	1%		0%		
Respiration	Yawn	4%	0%		
	Special Senses	Blurred Vision	4%	1%	
		Taste Perversion	2%	0%	
	Urogenital System	Ejaculatory Disturbance ³	13%	0%	
Other Male Genital Disorders ⁴		10%	0%		
Urinary Frequency		3%	1%		
Urination Disorder ⁴		2%	0%		
Female Genital Disorders ^{5,7}		2%	0%		

- Events reported by at least 2% of OCD, panic disorder, and social anxiety disorder Faxil-treated patients are included, except the following events which had an incidence on placebo: Faxil (OCD): abdominal pain, agitation, anxiety, back pain, cough increased, depression, headache, hypotension, infection, parosmia, pharyngitis, respiratory disorder, rhinitis and sinusitis, tic disorder; abdominal distress, abnormal vision, chest pain, cough increased, depersonalization, depression, dyspareunia, dyspepsia, flu syndrome, headache, infection, myalgia, nervousness, palpitation, parosmia, pharyngitis, rash, respiratory disorder, sinusitis, taste perversion, trauma, urination impaired and vasodilation; social anxiety disorder: abdominal pain, depression, headache, infection, respiratory disorder and sinusitis.
- Percentage corrected for gender.

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

Table 3. Treatment-Emergent Adverse Experiences Incidence in a Depression Dose-Comparison Trial¹

Body System/Preferred Term	Faxil				
	Placebo (n=51)	10 mg (n=102)	20 mg (n=104)	30 mg (n=101)	40 mg (n=102)
Body as a Whole					
Asthenia	0.0%	2.9%	10.6%	13.8%	12.7%
Dermatologic					
Sweating	2.0%	1.0%	6.7%	8.0%	11.8%
Gastrointestinal					
Constipation	5.8%	4.9%	7.7%	9.9%	12.7%
Decreased Appetite	2.0%	2.0%	5.8%	4.0%	4.9%
Appetite					
Diarrhea	7.8%	9.8%	19.2%	7.8%	14.7%
Dry Mouth	2.0%	10.8%	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%	5.8%	5.9%
Dizziness	3.9%	8.9%	6.7%	8.9%	12.7%
Nervousness	8.0%	5.8%	5.8%	4.0%	2.0%
Paresthesia	0.0%	2.9%	1.0%	5.0%	5.9%
Somnolence	7.8%	12.7%	18.3%	20.6%	21.6%
Tremor	0.0%	0.0%	7.7%	7.8%	14.7%
Special Senses					
Blurred Vision	2.0%	2.9%	2.9%	2.0%	7.8%
Urogenital 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%	3.7%

¹Table for including adverse events in table; incidence at least 5% for one of paroxetine groups and ≥ 2% twice the placebo incidence for at least one paroxetine group.

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

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

In a fixed-dose study comparing placebo and Faxil 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 Faxil (paroxetine hydrochloride) in which patients were assigned.

Adaptation to Certain Adverse Events: Over a 4- to 6-week period, there was evidence of adaptation to some adverse events with continued therapy (e.g., nausea and dizziness), but less to other effects (e.g., dry mouth, somnolence and anorexia).

Male and Female Sexual Dysfunction with SSRIs: Although changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that selective serotonin reuptake inhibitors (SSRIs) can cause such untoward sexual experiences.

Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance and satisfaction are difficult to obtain, however, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling, are likely to underestimate their actual incidence.

In placebo-controlled clinical trials involving more than 1,800 patients, the ranges for the reported incidence of sexual side effects in males and females with depression, OCD, panic disorder, and social anxiety disorder are displayed in Table 4 below.

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Paxil® (paroxetine hydrochloride) continued

Table A. Incidence of Sexual Adverse Events in Controlled Clinical Trials

	Paxil	Placebo
Men (males)	825	658
Decreased libido	6%-14%	0%-5%
Ejaculatory disturbance	13%-28%	0%-1%
Impotence	2%-8%	0%-1%
Women (females)	532	694
Decreased libido	1%-3%	0%-2%
Organic disturbance	2%-9%	0%-1%

There are no adequate and well-controlled studies examining sexual dysfunction with paroxetine treatment. Paroxetine treatment has been associated with several cases of priapism. In those cases with a known outcome, patients recovered without sequelae. While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRI's, physicians should routinely inquire about such possible side effects.

Weight and Vital Signs Changes: Significant weight loss may be an undesirable result of treatment with Paxil for some patients but, on average, patients in controlled trials had minimal (about 1 pound) weight loss vs. smaller changes in placebo and active control. No significant changes in vital signs (systolic and diastolic blood pressure, pulse and temperature) were observed in patients treated with Paxil in controlled clinical trials.

ECG Changes: In an analysis of ECGs obtained in 602 patients treated with Paxil and 415 patients treated with placebo in controlled clinical trials, no clinically significant changes were seen in the ECGs of either group. **Liver Function Tests:** In placebo-controlled clinical trials, patients treated with Paxil exhibited abnormal values on liver function tests at no greater rate than that seen in placebo-treated patients. In particular, the Paxil-placebo comparisons for alkaline phosphatase, SGOT, SGPT and bilirubin revealed no differences in the percentage of patients with marked abnormalities.

Other Events Observed During the Promoting Evaluation of Paxil (paroxetine hydrochloride): During its postmarketing assessment in depression, multiple doses of Paxil were administered to 6,145 patients in phase 2 and 3 studies. The conditions and duration of exposure to Paxil varied greatly, including (but not limited to) open and double-blind studies, uncontrolled and controlled studies, inpatient and outpatient studies, and fixed-dose and titration studies. During promoting clinical trials in OCD, panic disorder, and social anxiety disorder, 542, 469, and 522 patients, respectively, received multiple doses of Paxil. Unwanted events associated with this exposure were recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of unwanted events into a smaller number of standardized event categories. In the tabulation that follows, reported adverse events were classified using a standard COSTART-based Dictionary terminology. The frequency presented, therefore, represent the proportion of the 7,678 patients exposed to multiple doses of Paxil (paroxetine hydrochloride) who experienced an event of the type cited on at least one occasion while receiving Paxil. All reported events are included except those already listed in tables 1 and 2, those reported in terms so general as to be uninformative and those events where a drug cause was certain. It is important to emphasize that although the events reported occurred during treatment with paroxetine, they were not necessarily caused by it.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients (but not already listed in the tabulated results from placebo-controlled trials appear in this listing); infrequent adverse events are those occurring in 1/100 to 1/10,000 patients; rare events are those occurring in fewer than 1/10,000 patients. Events of major clinical importance are also described in the PRECAUTIONS section.

Blood and Hematology: frequent: chills, malaise; infrequent: allergic reaction, face edema, neck pain; rare: adverse drug syndrome, leukitis, mononitosis, neck rigidity, pelvic pain, peritonitis, ulcers.

Cardiovascular System: frequent: hypertension, syncope, tachycardia; infrequent: bradycardia, hirsutism, hypotension, migraine; rare: angina pectoris, arhythmia nodal, aortic fibulation, bundle branch block, cerebral ischemia, cerebrovascular accident, congestive heart failure, heart block, low cardiac output, myocardial infarct, myocardial ischemia, pallor, phlebitis, pulmonary embolus, supraventricular extrasystoles, thrombophlebitis, thrombosis, varicose vein, vascular headache, ventricular extrasystoles.

Digestive System: frequent: bruising, colitis, dysphagia, eructation, gastritis, gastroenteritis, gingivitis, glossitis, increased salivation, liver function tests abnormal, oral numbness, ulcers; infrequent: dyspepsia, flatulence, stomatitis, bloody diarrhea, bulimia, cholelithiasis, duodenitis, enteritis, esophagitis, focal infection, focal inflammation, gum hemorrhage, hiccups, hemorrhoids, hepatitis, ileus, intestinal obstruction, jaundice, melena, mouth ulceration, pelvic ulcer, salivary gland enlargement, stomach ulcer, stomatitis, tongue discoloration, tongue edema, tooth caries.

Endocrine System: rare: diabetes mellitus, hyperthyroidism, hypothyroidism, thyroiditis.

Hemic and Lymphatic Systems: infrequent: anemia, eosinophilia, leukopenia, leukopenia, lymphadenopathy, purpura; rare: abnormal erythrocytes, basophilia, hypochromic anemia, iron deficiency anemia, lymphedema, abnormal lymphocytes, lymphocytosis, microcytic anemia, monocytosis, normocytic anemia, thrombocytopenia, thrombocytosis.

Metabolic and Nutritional: frequent: weight gain, weight loss; infrequent: alkaline phosphatase increased, edema, peripheral edema, SGOT increased, SGPT increased, thirst; rare: bilitinemia, BUN increased, creatinine phosphatase increased, dehydration, gamma globulin increased, gout, hypercalcemia, hypercholesterolemia, hyperphosphatemia, hypocalcemia, hypophosphatemia, hypocalcemia, hypokalemia, hyponatremia, ketosis, lactic dehydrogenase increased.

Musculoskeletal System: frequent: arthralgia; infrequent: arthritic; rare: arthritis, bursitis, myositis, osteoporosis, generalized spasm, tenosynovitis, tetany.

Nervous System: frequent: amnesia, CNS stimulation, concentration impaired, depression, emotional lability, vertigo; infrequent: abnormal thinking, alcohol abuse, ataxia, delirium, disorientation, dyslexia, dystonia, dyssomnia, euphoria, hallucinations, hostility, hyperreflexia, hypomania, hypomania, hyperostosis, incoordination, lack of attention, Ritalin reaction, seizures, choreoathetosis, circumoral paresthesias, convulsion, delusions, depression, diplopia, drug dependence, dysarthria, extrapyramidal syndrome, hallucinations, grand mal convulsion, hyperreflexia, hyperreflexia, manic-depressive reaction, meningitis, myalgia, neuropathy, nystagmus, peripheral neuropathy, psychotic depression, reflexes decreased, reflexes increased, stupor, tinnitus, withdrawn syndrome.

Respiratory System: frequent: cough increased, pharyngitis, sinusitis; infrequent: asthma, bronchitis, dyspnea, epistaxis, hyperinflation, pneumonia, respiratory flux; rare: emphysema, hemoptysis, Necropsy, lung fibrosis, pulmonary edema, sputum increased, voice alteration.

Skin and Appendages: frequent: pruritus; infrequent: acne, alopecia, contact dermatitis, dry skin, ecchymosis, eczema, herpes simplex, maculopapular rash, photosensitivity, urticaria; rare: angioedema, erythema nodosum, erythema multiforme, fungal dermatitis, furunculosis, herpes zoster, herpes, herpes, skin discoloration, skin hypersensitivity, skin ulcer, vesiculobullous rash.

Special Senses: frequent: abnormality of accommodation, conjunctivitis, ear pain, eye pain, myopia, otitis media, photophobia, vision; rare: amblyopia, anisocoria, blepharitis, cataract, conjunctival edema, corneal ulcer, deafness, exophthalmos, eye hemorrhage, glaucoma, hyperopia, hyperostosis, keratoconjunctivitis, night blindness, otitis externa, parosmia, ptosis, retinal hemorrhage, taste loss, visual field defect.

Urogenital System: infrequent: abortion, amenorrhea, breast pain, cystitis, dysuria, hematuria, menorrhagia, nocturia, polyuria, urinary incontinence, urinary retention, urinary urgency, vaginal moniliasis, vaginitis; rare: breast atrophy, breast enlargement, epididymitis, female lactation, glycosylated breast, kidney calculus, kidney pain, leukorrhea, mastitis, metrorrhagia, nephritis, oliguria, pyuria, urethritis, uterine spasm, vulvitis, vaginal hemorrhage.

Pharmacokinetic Reports

Voluntary reports of adverse events in patients taking Paxil (paroxetine hydrochloride) that have been received since market introduction and not listed above that may have no causal relationship with the drug include acute pancreatitis, elevated liver function tests (in most severe cases were deaths due to liver necrosis, and grossly elevated transaminases associated with severe liver dysfunction), Guillain-Barre syndrome, toxic epidermal necrolysis, priapism, thrombocytopenia, syndrome of inappropriate ADH secretion, symptoms suggestive of prolactinemia and galactorrhea, neuroleptic malignant syndrome-like events; extrapyramidal symptoms which have included akathisia, bradykinesia, cogwheel rigidity, dystonia, hyperreflexia, oculogyric crisis which has been associated with concomitant use of piperidine, levor and bromazepam and serotonin syndrome, associated in some cases with concomitant use of serotonergic drugs and with drugs which may have impaired Paxil metabolism (symptoms have included agitation, confusion, diaphoresis, hallucinations, hyperreflexia, myoclonus, shivering, tachycardia and tremor). There have been spontaneous reports that abrupt discontinuation may lead to symptoms such as dizziness, sensory disturbances, agitation or anxiety, nausea and sweating; these events are generally self-limiting. There has been a case report of an elevated phentolamine level after 4 weeks of Paxil and phentolamine co-administration. There has been a case report of severe hypertension when Paxil was added to chronic nifedipine treatment.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class: Paxil (paroxetine hydrochloride) is not a controlled substance.

Physical and Psychologic Dependence: Paxil has not been systematically studied in animals or humans for its potential for abuse, tolerance or physical dependence. While the clinical trials did not reveal any tendency for any drug-seeking behavior, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted and/or abused once marketed.

Consequently, patients should be evaluated carefully for history of drug abuse, and such patients should be observed closely for signs of Paxil misuse or abuse (e.g., development of tolerance, increments of dose, drug-seeking behavior).

OVERDOSAGE

Human Experience: Overdose with Paxil (up to 2000 mg) alone and in combination with other drugs has been reported. Signs and symptoms of overdose with Paxil include nausea, vomiting, sedation, dizziness, sweating, and facial flush. There are no reports of coma or convulsions following overdose with Paxil alone. A fatal outcome has been reported rarely when Paxil was taken in combination with other agents, or when taken alone.

Overdosage Management: Treatment should consist of those general measures employed in the management of overdosage with any antidepressant.

Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large-bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion, or in symptomatic patients.

Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion and exchange transfusion are unlikely to be of benefit. No specific antidotes for paroxetine are known.

A specific caution involves patients who are taking or have recently taken paroxetine who might ingest excessive quantities of a tricyclic antidepressant. In such a case, accumulation of the parent tricyclic and/or an active metabolite may increase the possibility of clinically significant sequelae and extend the time needed for close medical observation (see Drug Metabolism by Displacement, $P_{d,ind}$ under PRECAUTIONS).

In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference (PDR).

DOSAGE AND ADMINISTRATION

Depression

Usual Initial Dosage: Paxil (paroxetine hydrochloride) should be administered as a single daily dose with or without food, usually in the morning. The recommended initial dose is 20 mg/day. Patients were dosed in a range of 20 to 60 mg/day in the clinical trials demonstrating the antidepressant effectiveness of Paxil. As with all antidepressants, the full antidepressant effect may be delayed. Some patients not responding to a 20 mg daily dose may benefit if dose increases, in 10 mg/day increments, up to a maximum of 50 mg/day. Dose changes should occur at intervals of at least 1 week.

Maintenance Therapy: There is no body of evidence available to answer the question of how long the patient treated with Paxil should remain on it. It is generally agreed that acute episodes of depression require several months or longer of sustained pharmacologic therapy. Whether the dose of an antidepressant needs to be reduced or discontinued is identical to the dose needed to maintain and/or sustain euthymia is unknown.

Systemic evaluation of the efficacy of Paxil (paroxetine hydrochloride) has shown that efficacy is maintained for periods of up to 1 year with doses that averaged about 30 mg.

Obsessive Compulsive Disorder

Usual Initial Dosage: Paxil (paroxetine hydrochloride) should be administered as a single daily dose with or without food, usually in the morning. The recommended dose of Paxil in the treatment of OCD is 40 mg daily. Patients should be started on 20 mg/day and the dose can be increased in 10 mg/day increments. Dose changes should occur at intervals of at least 1 week. Patients were dosed in a range of 20 to 60 mg/day in the clinical trials demonstrating the effectiveness of Paxil in the treatment of OCD. The maximum dosage should not exceed 60 mg/day.

Maintenance Therapy: Long-term maintenance of efficacy was demonstrated in a 6-month relapse prevention trial. In this trial, patients with OCD assigned to paroxetine demonstrated a lower relapse rate compared to patients on placebo (see CLINICAL PHARMACOLOGY). OCD is a chronic condition, and it is reasonable to consider continuation for a responding patient. Dosage adjustments should be made to maintain the patient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for continued treatment.

Panic Disorder

Usual Initial Dosage: Paxil should be administered as a single daily dose with or without food, usually in the morning. The target dose of Paxil in the treatment of panic disorder is 40 mg/day. Patients should be started on 10 mg/day. Dose changes should occur in 10 mg/day increments and at intervals of at least 1 week. Patients were dosed in a range of 10 to 60 mg/day in the clinical trials demonstrating the effectiveness of Paxil. The maximum dosage should not exceed 60 mg/day.

Maintenance Therapy: Long-term maintenance of efficacy was demonstrated in a 3-month relapse prevention trial. In this trial, patients with panic disorder assigned to paroxetine demonstrated a lower relapse rate compared to patients on placebo (see CLINICAL PHARMACOLOGY). Panic disorder is a chronic condition, and it is reasonable to consider continuation for a responding patient. Dosage adjustments should be made to maintain the patient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for continued treatment.

Social Anxiety Disorder

Usual Initial Dosage: Paxil should be administered as a single daily dose with or without food, usually in the morning. The recommended and initial dosage is 20 mg/day. In clinical trials the effectiveness of Paxil was demonstrated in patients dosed in a range of 20 to 60 mg/day. While the safety of Paxil has been evaluated in patients with social anxiety disorder at doses up to 60 mg/day, available information does not suggest any additional benefit for doses above 20 mg/day. (See CLINICAL PHARMACOLOGY).

Maintenance Therapy: There is no body of evidence available to answer the question of how long the patient treated with Paxil should remain on it. Although the efficacy of Paxil beyond 12 weeks of dosing has not been demonstrated in controlled clinical trials, social anxiety disorder is recognized as a chronic condition, and it is reasonable to consider continuation of treatment for a responding patient. Dosage adjustments should be made to maintain the patient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for continued treatment.

Dosage for Elderly or Debilitated, and Patients with Severe Renal or Hepatic Impairment: The recommended initial dose is 10 mg/day for elderly patients, debilitated patients, and/or patients with severe renal or hepatic impairment. Increases may be made if indicated. Dosage should not exceed 40 mg/day.

Switching Patients to or from a Monoamine Oxidase Inhibitor: At least 14 days should elapse between discontinuation of a MAOI and initiation of Paxil therapy. Similarly, at least 14 days should be allowed after stopping Paxil (paroxetine hydrochloride) before starting a MAOI.

NOTE: SHAKE SUSPENSION WELL BEFORE USING.

HOW SUPPLIED

- Tablets: Film-coated, modified-oval as follows:
- 10 mg yellow tablets engraved on the front with PAXL and on the back with 10.
- NDC 0029-3218-13 Bottles of 30
- 20 mg pink, scored tablets engraved on the front with PAXL and on the back with 20.
- NDC 0029-3211-13 Bottles of 30
- NDC 0029-3211-20 Bottles of 100
- NDC 0029-3211-21 SUP 100's (intended for institutional use only)
- 30 mg blue tablets engraved on the front with PAXL and on the back with 30.
- NDC 0029-3212-13 Bottles of 30
- 40 mg green tablets engraved on the front with PAXL and on the back with 40.
- NDC 0029-3213-13 Bottles of 30
- Store tablets between 15° and 30°C (59° and 86°F).
- Oral Suspension: Orange-colored, orange-flavored, 10 mg/5 mL, in 250 mL white bottles. Manufactured in Crawley, UK, by SmithKline Beecham Pharmaceuticals.
- NDC 0029-3215-48
- Store suspension at or below 25°C (77°F).
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Rx only

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