



Width: 17.0”  
Length: 18.75”  
Fold: 1.25” x 1.25”

9.125” 170”W

.625” .625”

6.625”



1.25”W x 1.25”W

they have systemic illness or are receiving multiple drugs for concomitant diseases. The effects of age upon the metabolism of fluoxetine have been investigated in 26 elderly but otherwise healthy depressed patients (> 60 years of age) who received 20 mg fluoxetine for 6 weeks. Combined fluoxetine plus nortrioxetine plasma concentrations were 209.3 ng/mL ± 85.7 ng/mL at the end of 6 weeks. No unusual age-associated pattern of adverse reactions was observed in those elderly patients. Pediatric pharmacokinetics (children and adolescents)-Fluoxetine pharmacokinetics were evaluated in 21 pediatric patients (10 children ages 6 to < 13, 11 adolescents ages 13 to < 18) diagnosed with MDD or OCD. Fluoxetine 20 mg/day was administered for up to 162 days. The average steady-state concentrations of fluoxetine in these children were 2-fold higher than in adolescents (171 ng/mL and 86 ng/mL, respectively). The average nortrioxetine steady-state concentrations in these children were 1.5-fold higher than in adolescents (195 ng/mL and 113 ng/mL, respectively). These differences can be almost entirely explained by differences in weight. No gender-associated difference in fluoxetine pharmacokinetics was observed. Similar ranges of fluoxetine and nortrioxetine plasma concentrations were observed in another study in 94 pediatric patients (ages 8 to < 18) diagnosed with MDD. Higher average steady-state fluoxetine and nortrioxetine concentrations were observed in children relative to adults; however, these concentrations were within the range of concentrations observed in the adult population. As in adults, fluoxetine and nortrioxetine accumulated extensively following multiple oral dosing; steady-state concentrations were achieved within 3 to 4 weeks of daily dosing.

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility Carcinogenesis-The dietary administration of fluoxetine to rats and mice for 2 years at doses of up to 10 mg/kg/day and 12 mg/kg/day, respectively (approximately 1.2 and 0.7 times, respectively, the MRHD of 80 mg on a mg/m<sup>2</sup> basis), produced no evidence of carcinogenicity. Mutagenesis-Fluoxetine and nortrioxetine have been shown to have no genotoxic effects based on the following assays: bacterial mutation assay, DNA repair assay in cultured rat hepatocytes, mouse lymphoma assay, and in vivo sister chromatid exchange assay in Chinese hamster ovary marrow cells. Impairment of Fertility-Two fertility studies conducted in adult rats at doses of up to 7.5 mg/kg/day and 12.5 mg/kg/day (approximately 0.8 and 1.5 times the MRHD on a mg/m<sup>2</sup> basis) indicated that fluoxetine had no adverse effects on fertility. However, adverse effects on fertility were seen when juvenile rats were treated with fluoxetine (see Use in Specific Populations (8.1)).

13.2 Animal Toxicology and/or Pharmacology Phospholipids are increased in some tissues of mice, rats, and dogs given fluoxetine chronically. This effect is reversible after treatment with a diet high in polyunsaturated fatty acids. Fluoxetine also causes a dose-dependent decrease in amphibian drugs, including fenfluramine, imipramine, and ranitidine. The significance of this effect in humans is unknown.

14 CLINICAL STUDIES Efficacy for fluoxetine was established for the: • Acute and maintenance treatment of MDD in adults, and children and adolescents (8 to 18 years) in 7 short-term and 2 long-term, placebo-controlled trials (see Clinical Studies (14.1)). • Acute treatment of obsessions and compulsions in adults, children and adolescents (7 to 17 years) with OCD in 3 short-term, placebo-controlled trials (see Clinical Studies (14.2)). • Acute and maintenance treatment of binge-eating and vomiting behaviors in adult patients with moderate to severe bulimia nervosa in 3 short-term and 1 long-term, placebo-controlled trials (see Clinical Studies (14.3)). • Acute treatment of Panic Disorder, with or without agoraphobia, in adult patients in 2 short-term, placebo-controlled trials (see Clinical Studies (14.4)).

14.1 Major Depressive Disorder Pediatric and adolescent Use-The efficacy of fluoxetine was studied in 5- and 6-week placebo-controlled trials with depressed adult and geriatric outpatients (> 18 years of age) whose diagnoses corresponded most closely to the DSM-III-R criteria for MDD. Fluoxetine was shown to be significantly more effective than placebo as measured by the Hamilton Depression Rating Scale (HAM-D). Fluoxetine was also significantly more effective than placebo on the HAM-D subscores for depressed mood, sleep disturbance, and the anxiety subscale. 6-week controlled studies (N=671, randomized) comparing fluoxetine 20 mg and placebo have shown fluoxetine 20 mg/day to be significantly more effective than placebo in decreasing depression severity (decreased YMRS total score) in patients with moderate to severe MDD. Fluoxetine was also significantly more effective than placebo on the HAM-D subscores for depressed mood, sleep disturbance, and the anxiety subscale. A study was conducted involving depressed outpatients who had responded (modified HAM-D-17 score of < 7 during each of the last 3 weeks of open-label treatment and absence of MDD by DSM-III-R criteria) by the end of an initial 12-week open-label period on fluoxetine 20 mg/day. These patients (N=298) were randomized to continuation on double-blind fluoxetine 20 mg or placebo. At 36 weeks (20 weeks of double-blind treatment), a statistically significantly lower relapse rate (defined as symptoms sufficient to meet a diagnosis of MDD for 2 weeks or a modified HAM-D-17 score of > 14 for 3 weeks) was observed for patients taking fluoxetine compared with those on placebo.

A specific effect on bone mineralization was reported in juvenile mice administered fluoxetine by the intraperitoneal route to 4-week-old mice for 4 weeks at doses of 0.5 and 2 times the oral MRHD of 20 mg/day on a mg/m<sup>2</sup> basis. There was a decrease in bone mineralization and density at both doses, but the overall growth (body weight gain or femur length) was not affected. 8.5 Geriatric Use-Fluoxetine clinical trials included 687 patients > 65 years of age and 93 patients > 75 years of age. The efficacy in geriatric patients has been established (see Clinical Studies (14.1)). For pharmacokinetic information in geriatric patients, (see Clinical Pharmacology (12.3)). No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experiences do not identify differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. SNRIs and SSRIs, including fluoxetine, have been associated with cases of clinically significant hyponatremia in elderly patients, which may be a greater risk for this adverse effect in geriatric patients (see Warnings and Precautions (5.9)).

8.6 Hepatic Impairment In subjects with cirrhosis of the liver, the clearances of fluoxetine and its active metabolite, nortrioxetine, were decreased, thus increasing the elimination half-lives of these substances. A lower or less frequent dose of fluoxetine should be used in patients with cirrhosis. Caution is advised when prescribing fluoxetine to patients with hepatic impairment or conditions that could affect its metabolism (see Dosage and Administration (2.5) and Clinical Pharmacology (12.3)).

9 DRUG ABUSE AND DEPENDENCE 9.3 Dependence Fluoxetine has not been systematically studied in animals or humans, for its potential for abuse, tolerance, or physical dependence. While the premarketing clinical experience with fluoxetine did not reveal any tendency for a withdrawal syndrome or any drug seeking behavior, these observations were not systematic and it is not possible to project on the basis of this limited experience the extent to which a CNS active drug will be misused, abused, or abused with other drugs. Consequently, physicians should carefully evaluate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of fluoxetine (e.g., development of tolerance, incrementation of dose, drug-seeking behavior).

10 OVERDOSEAGE The following have been reported with fluoxetine tablet overdose: • Seizures, which may be delayed, and altered mental status including coma. • Cardiovascular toxicity, which may be delayed, including QRS and QT interval prolongation, wide complex tachyarrhythmias, torsades de pointes, and cardiac arrest. Hypertension most commonly seen, but rarely can see hypotension alone or with co-ingestants including alcohol. • Serotonin syndrome (patients with a multiple drug overdose with other pro serotonergic drugs may have a higher risk). Gastrointestinal decontamination with activated charcoal should be considered in patients who present early after a fluoxetine overdose. Consider contacting a Poison Center (1-800-221-2222) or a medical toxicologist for additional overdose management recommendations.

11 DESCRIPTION Fluoxetine hydrochloride is a selective serotonin reuptake inhibitor for oral administration. It is designated (±)-N-methyl-3-phenyl-3-([o.o.c.trifluoro-p-tolyl]oxy)propylamine hydrochloride and has the empirical formula of C<sub>18</sub>H<sub>19</sub>NH<sub>2</sub>O<sub>2</sub>·HCl. Its molecular weight is 345.79. The structural formula is:

Table 5. Outcome Classification (%) on CGI Improvement Scale for Completers in Pool of Two OCD Studies

Outcome Classification	Fluoxetine			
	Placebo	20 mg	40 mg	60 mg
Worse	8%	0%	0%	0%
No change	84%	41%	33%	29%
Minimally improved	17%	23%	28%	24%
Much improved	8%	28%	27%	28%
Very much improved	3%	8%	12%	19%

Exploratory analyses for age and gender effects on outcome did not suggest any differential responsiveness on the basis of age or sex. Pediatric (children and adolescents)-In one 13-week clinical trial in pediatric patients (N=103 randomized; 75 children ages 7 to < 18 adolescents ages 13 to < 18) with OCD (DSM-III-R criteria for bulimia. Patients in the 16-week studies received either 20 mg/day or 60 mg/day of fluoxetine or placebo in the morning. Patients in the 16-week study received a fixed fluoxetine dose of 60 mg/day (once a day) or placebo. Patients in these 3 studies had moderate to severe bulimia with median binge-eating and vomiting frequencies ranging from 2 to 10 per week and 5 to 8 per week, respectively. In these 3 studies, fluoxetine 60 mg, but not 20 mg, was statistically significantly superior to placebo in reducing the number of binge-eating and vomiting episodes per week and the statistically significantly superior effect of 60 mg versus placebo was present as early as week 1 and persisted throughout each study.

The fluoxetine-related reduction in bulimic episodes appeared to be independent of baseline depression as assessed by the HAM-D. In each of these 3 studies, the treatment effect, as measured by differences between fluoxetine 60 mg and placebo on median reduction from baseline in frequency of bulimic behaviors at endpoint, ranged from 1 to 2 episodes per week for binge-eating and 2 to 4 episodes per week for vomiting. The size of the effect was similar to baseline frequency with greater reductions seen in patients with higher baseline frequencies. Although some patients achieved freedom from binge-eating and purging as a result of treatment, for the majority, the benefit was a partial reduction in the frequency of binge-eating and purging.

In a longer-term trial, 150 patients meeting DSM-IV criteria for Bulimia Nervosa, purging subtype, who had responded during a single-blind, 8-week, acute-treatment phase with fluoxetine 60 mg/day, were randomized to continuation of fluoxetine 60 mg/day or placebo for up to 52 weeks of follow-up. Responses during the single-blind trial were maintained in patients who had achieved at least a 50% decrease in vomiting frequency compared with baseline. Relapse during the double-blind phase was defined as the persistent return to baseline vomiting frequency or physician judgment that the patient had relapsed. Patients receiving fluoxetine 60 mg/day experienced a significantly longer time to relapse over the subsequent 52 weeks compared with those receiving placebo. 14.4 Panic Disorder The effectiveness of fluoxetine in the treatment of Panic Disorder was demonstrated in 2 double-blind, randomized, placebo-controlled, multicenter studies of adult outpatients who had a primary diagnosis of Panic Disorder (DSM-III-R, with or without agoraphobia). Study 1 (N=180 randomized) was a 12-week, flexible-dose study. Fluoxetine was initiated at 10 mg/day for the first week, after which patients were dosed in the range of 20 mg/day to 60 mg/day on the basis of clinical response and tolerability. Statistically significantly greater percentage of fluoxetine-treated patients were free from panic attacks at endpoint than placebo-treated patients, 42% versus 28%, respectively. Study 2 (N=214 randomized) was a 12-week, flexible-dose study. Fluoxetine was initiated at 10 mg/day for the first week, after which patients were dosed in the range of 20 mg/day to 60 mg/day on the basis of clinical response and tolerability. Statistically significantly greater percentage of fluoxetine-treated patients were free from panic attacks at endpoint than placebo-treated patients, 62% versus 44%, respectively.

15 NEW SUPPLEMENTS, STORAGE AND HANDLING 16.1 How Supplied Fluoxetine Tablets, USP 60 mg are available as 60-mg (fluoxetine base equivalent), functional-scored, capsule shape, blue color film coated tablets with score line on both sides debossed with “SG 422” on one side and plain on other side. Bottles of 30 NDC 50228-638-30 Bottles of 1000 NDC 50228-638-10 16.2 Storage and Handling Store at 20°C to 25°C (68°F to 77°F) [See USP Controlled Room Temperature]. Protect from light.

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide). Information on Medication Guide and Benefits/Risks of Fluoxetine Healthcare providers should instruct their patients to read the Medication Guide before starting therapy with fluoxetine tablets and to read it each time the prescription is renewed. Healthcare providers should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with fluoxetine tablets and should counsel them in its appropriate use. Healthcare providers should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. Patients should be advised of the following issues and asked to alert their healthcare provider if these occur while taking fluoxetine tablets. Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to look for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and include a need for very close monitoring and possibly changes in the medication (see Boxed Warning and Warnings and Precautions (5.9)).

Serotonin Syndrome Patients should be cautioned about the risk of serotonin syndrome with the concomitant use of fluoxetine and other serotonergic agents including triptans, tricyclic antidepressants, opioids, lithium, buspirone, tryptophan, amphetamines, and St. John's wort and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid). Instruct patients to contact their healthcare provider or report to the emergency room if they experience signs or symptoms of serotonin syndrome (see Contraindications (4.1), Warnings and Precautions (5.9), and Drug Interactions (7.9)). Adverse Reactions and Rash Patients should be advised to notify their physician if they develop a severe allergic reaction, including swelling of the face, lips, or mouth, or have hives/itching. Patients should be cautioned to seek medical care immediately if they experience these symptoms.

Increased Risk of Bleeding Elderly patients take with the concomitant use of fluoxetine and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation since combined use of psychotropic drugs that interfere with serotonin reuptake and these agents have been associated with an increased risk of bleeding (see Warnings and Precautions (5.7) and Drug Interactions (7.4)). Advise patients to call their doctor if they experience any increased or unusual bruising or bleeding while taking fluoxetine. Angle-Closure Glaucoma Patients should be advised that taking fluoxetine can cause mild pupillary dilation, which in susceptible individuals, can lead to

ulcer, esophageal ulcer, gastrointestinal hemorrhage, hematemesis, hepatitis, pelvic ulcer, stomach ulcer, hemorrhage. Hemic and Lymphatic System—Infection: ecchymosis; Rare: petechia, purpura. Nervous System—Frequent: emotional lability; Infrequent: akathisia, ataxia, balance disorder<sup>1</sup>, bruxism<sup>1</sup>, buccoglossal syndrome, depersonalization, euphoria, hypertension, libido increase, myoclonus, paranoid reaction; Rare: delusions. Respiratory System—Rare: larynx edema. Skin and Appendages—Infrequent: alopecia; Rare: purpuric rash. Special Senses—Frequent: taste perversion; Infrequent: mydriasis. Urogenital System—Frequent: micturition disorder; Infrequent: dysuria, gynecological bleeding<sup>2</sup>. MedDRA dictionary term from integrated database of placebo-controlled trials of 15,870 patients received fluoxetine.

<sup>1</sup> Group term that includes individual MedDRA terms: cervix contracted uterus, dysfunctional uterine bleeding, genital hemorrhage, menometrorrhagia, menorrhagia, metrorrhagia, polymenorrhea, postmenopausal hemorrhage, uterine hemorrhage, vaginal hemorrhage. Adjusted for gender. <sup>2</sup> Postmarketing Experience The following adverse reactions have been identified during postapproval use of fluoxetine. Because these reactions are reported voluntarily from a population of uncertain size, it is difficult to reliably estimate their frequency or evaluate a causal relationship to drug exposure.

Voluntary reports of adverse reactions temporally associated with fluoxetine that have been received since market introduction and that may have no causal relationship with the drug include the following: anorexia, aplastic anemia, atrial fibrillation<sup>1</sup>, cardiac, cardiovascular incident<sup>1</sup>, cholestatic jaundice, drug reaction with eosinophilia and systemic symptoms (DRESS), dyskinesia (including, for example, a case of buccal-lingual-masticatory syndrome with involuntary tongue protrusion reported to develop in a 77-year-old female after 5 weeks of fluoxetine therapy and which completely resolved over the next few months following drug discontinuation), epidermal necrolysis, erythema multiforme, erythema nodosum, exfoliative dermatitis, galactorrhea, gynecostasia, heart arrest<sup>1</sup>, hepatic failure/necrosis, hyperproliferative, hypoglycemia, hypokinesia, immune-related hemolytic anemia, kidney failure, memory impairment, movement disorders developing in patients with risk factors including major depressive disorder, obsessive compulsive disorder, bipolar disorder, depression, optic neuritis, pancreatitis<sup>1</sup>, pancytopenia, pulmonary embolism, pulmonary hypertension, QT prolongation, Stevens-Johnson syndrome, thrombocytopenia<sup>1</sup>, thrombocytopenic purpura, ventricular tachycardia (including Torsades de Pointes-type arrhythmias), vaginal bleeding, and vasculitis. <sup>1</sup> These terms represent serious adverse events, but do not meet the definition for adverse drug reactions. They are included here because of their seriousness.

7 DRUG INTERACTIONS 7.1 Drug Interactions As with all drugs, the potential for interaction by a variety of mechanisms (e.g., pharmacodynamic, pharmacokinetic drug inhibition or enhancement, etc.) is possible. 7.1.1 Monoamine Oxidase Inhibitors (MAOIs) (see Dosage and Administration (2.6, 2.7), Contraindications (4.1), and Warnings and Precautions (5.2)). 7.2 CNS Acting Drugs Caution is advised if the concomitant administration of fluoxetine and such drugs is required. In evaluating individual cases, consideration should be given to using lower initial doses of the concomitantly administered drugs, using conservative titration schedules, and monitoring of clinical status (see Clinical Pharmacology (12.3)). 7.3 Other Serotonergic Drugs The concomitant use of serotonergic drugs (including other SSRIs, SNRIs, triptans, tricyclic antidepressants, opioids, lithium, buspirone, amphetamines, tryptophan, and St. John's Wort) with fluoxetine increases the risk of serotonin syndrome. Monitor patients for signs and symptoms of serotonin syndrome, particularly during treatment initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of fluoxetine and/or concomitant serotonergic drugs (see Warnings and Precautions (5.2)).

7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin) The concomitant use of serotonergic drugs (including other SSRIs, SNRIs, triptans, tricyclic antidepressants, opioids, lithium, buspirone, amphetamines, tryptophan, and St. John's Wort) with fluoxetine increases the risk of serotonin syndrome. Monitor patients for signs and symptoms of serotonin syndrome, particularly during treatment initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of fluoxetine and/or concomitant serotonergic drugs (see Warnings and Precautions (5.2)).

7.5 Potential for Other Drugs to Affect Fluoxetine Drugs lightly bound to plasma proteins-Because fluoxetine is tightly bound to plasma proteins, adverse effects may result from displacement of protein-bound fluoxetine by other tightly-bound drugs (see Clinical Pharmacology (12.3)). 7.6 Potential for Fluoxetine to Affect Other Drugs Fluoxetine is a weak CYP2D6 inhibitor. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

Thioridazine-Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT prolongation (see Contraindications (4.2), Warnings and Precautions (5.1), and Drug Interactions (7.7)).

In a study of 19 healthy male subjects, which included 6 slow and 13 rapid hydroxylators of debrisoquin, a single 25-mg oral dose of thioridazine (25 mg) had a 4.4-fold higher area under the curve (AUC) for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is linked to the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated thioridazine plasma levels. Thioridazine administration produces a dose-related prolongation of the QT interval, which is associated with serious ventricular arrhythmias, such as Torsades de Pointes-type arrhythmias, and sudden death. This risk is expected to increase with fluoxetine-induced inhibition of thioridazine metabolism.

Fluoxetine-Coming within 14 days of fluoxetine is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine is not available, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and flu