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5.3 Allergic Reactions and Rash

suggestive of serum sickness.

diarrhea). Patients should be monitored for the emergence of serotonin syndrome.

and all patients experiencing these reactions were reported to recover completely.

5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic

instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g.,

tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting,

clarmea). Patients should be monitored for the emergence of serotonin syndrome. The concomitant use of fluoxetine with MAOIs intended to treat psychiatric disorders is contraindicated. Fluoxetine should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking fluoxetine. Fluoxetine should be discontinued before initiating treatment with the MAOI [see Contraindications (4.1) and Dosage and Administration (2.9, 2.10)].

If concomitant use of fluoxetine with other serotonergic drugs, i.e., triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, buspirone, tryptophan and St. John's Wort is clinically warranted, patients should be made aware of a potential increased risk for

uspinore, by building and stand with a some short is clinically waranted, patients should be hade aware of a potential incleased risk for erotonin syndrome, particularly during treatment initiation and dose increases. Treatment with fluoxetine and any concomitant serotonergic agents, should be discontinued immediately if the above events occur nd supportive symptomatic treatment should be initiated.

In US fluoxetine clinical trials, 7% of 10,782 patients developed various types of rashes and/or urticaria. Among the cases of rash and/or urticaria reported in premarketing clinical trials, almost a third were withdrawn from treatment because of the rash and/or systemic signs or symptoms associated with the rash. Clinical findings reported in association with rash include fever, leukocytosis,

arthralgias, edema, carpal tunnel syndrome, respiratory distress, lymphadenopathy, proteinuria, and mild transaminase elevation

Most patients improved promptly with discontinuation of fluoxetine and/or adjunctive treatment with antihistamines or steroids

In premarketing clinical trials, 2 patients are known to have developed a serious cutaneous systemic illness. In neither patient was there an unequivocal diagnosis, but one was considered to have a leukocytoclastic vasculitis, and the other, a severe desquamating syndrome that was considered variously to be a vasculitis or erythema multiforme. Other patients have had systemic syndromes

Since the introduction of fluxetine, systemic reactions, possibly related to vasculitis and including lupus-like syndrome, have developed in patients with rash. Although these reactions are rare, they may be serious, involving the lung, kidney, or liver. Death has been reported to occur in association with these systemic reactions.

Anaphylactoid reactions, including bronchospasm, angioedema, laryngospasm, and urticaria alone and in combination, have been

Pulmonary reactions, including inflammatory processes of varying histopathology and/or fibrosis, have been reported rarely. These reactions have occurred with dyspnea as the only preceding symptom.

Whether these systemic reactions and rash have a common underlying cause or are due to different etiologies or pathogenic

processes is not known. Furthermore, a specific underlying immunologic basis for these reactions has not been identified. Upor the appearance of rash or of other possibly allergic phenomena for which an alternative etiology cannot be identified, fluoxe

A major depressive episode may be the initial presentation of Bipolar Disorder. It is generally believed (though not established

treated with fluoxetine and 0.1% of patients treated with placebo. Activation of mania/hypomania has also been reported in a

small proportion of patients with Major Affective Disorder treated with other marketed drugs effective in the treatment of Major

Depressive Disorder [see Use in Specific Populations (8, 4)]. In US placebo-controlled clinical trials for OCD, mania/hypomania was reported in 0.8% of patients treated with fluoxetine and no patients treated with placebo. No patients reported mania/hypomania in US placebo-controlled clinical trials for UCD, mania/hypomania in US placebo-controlled clinical trials for UCD, mania/hypomania in US placebo-controlled clinical trials for UCD, mania/hypomania was reported in 0.8% of patients treated with placebo. No patients reported mania/hypomania was reported in 0.8% of patients treated with placebo. No patients reported mania/hypomania was reported in 0.8% of patients reported mania/hypomania (see Use in Specific Populations (8.4)].

In US placebo-controlled clinical trials for Major Depressive Disorder, convulsions (or reactions described as possibly having been

seizures) were reported in 0.1% of patients treated with fluoxetine and 0.2% of patients treated with placebo. No patients reported convulsions in US placebo-controlled clinical trials for either OCD or bulimia. In US fluoxetine clinical trials, 0.2% of 10,782 patients

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use fluoxetine capsules, USP safely and effectively. See full prescribing information for fluoxetine capsules. USP rmation for fluoxetine capsules. USP.

FLUOXETINE capsules, USP for oral use Initial U.S. Approval: 1987

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

See full prescribing information for complete boxed warn Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antidepressants (5.1) Monitor for worsening and emergence of suicidal thoughts and behaviors (5.1). When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert fi Symbyax

-----INDICATIONS AND USAGE-

Fluoxetine cansules are a selective serotonin reuntake inhibitor indicated for

 Acute and maintenance treatment of Major Depressive Disorder (MDD) (1 Acute and maintenance treatment of Obsessive Compulsive Disorder (OCD) (1)

• Acute and maintenance treatment of Bulimia Nervosa (1)

Acute treatment of Panic Disorder, with or without agoraphobia (1)

Fluoxetine capsules and olanzapine in combination for treatment of

 Acute Depressive Episodes Associated with Bipolar I Disorder (1) • Treatment Resistant Depression (1)

DUSAGE AND ADMINISTRATION		
Indication	Adult	Pediatric
MDD (2.1)	20 mg/day in am (initial dose)	10 to 20 mg/day (initial dose)
OCD (2.2)	20 mg/day in am (initial dose)	10 mg/day (initial dose)
Bulimia Nervosa (2.3)	60 mg/day in am	
Panic Disorder (2.4)	10 mg/day (initial dose)	
Depressive Episodes Associated with Bipolar I Disorder (2.5)	Oral in combination with olanzapine: 5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)	Oral in combination with olanzapine: 2.5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)
Treatment Resistant Depression (2.6)	Oral in combination with olanzapine: 5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)	

· A lower or less frequent dosage should be used in patients with hepatic impairment, the elderly, and for patients with concurrent disease or on multiple concomitant medications (2.7)

Fluoxetine cansules and olanzanine in combination:

Dosage adjustments should be made with the individual components according to efficacy and tolerability (2.5, 2.6) Fluoxetine monotherapy is not indicated for the treatment of Depressive Episodes associated with Bipolar I Disorder or

- treatment resistant depression (2.5, 2.6) Safety of the coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in adults (2526)
- Safety of the coadministration of doses above 12 mg olanzapine with 50 mg fluoxetine has not been evaluated in children and adolescents ages 10 to 17 (2.5)
- --- DOSAGE FORMS AND STRENGTHS----• Capsules: 10 mg, 20 mg, and 40 mg (3)

--- CONTRAINDICATIONS--

- Serotonin Syndrome and MAOIs: Do not use MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks
 of stopping treatment with fluoxetine. Do not use fluoxetine within 14 days of stopping an MAOI intended to treat psychiatric
 disorders. In addition, do not start fluoxetine in a patient who is being treated with linezolid or intravenous methylene blue (4.1)
- Pimozide: Do not use. Risk of QT prolongation and drug interaction (4.2, 5.11, 7.7, 7.8)
- Thioridazine: Do not use. Risk of QT interval prolongation and elevated thioridazine plasma levels. Do not use thioridazine within 5 weeks of discontinuing fluoxetine. Do not use thioridazine within 5 weeks of discontinuing fluoxetine (4.2, 5.11, 7.7, 7.8) · When using fluoxetine and olanzapine in combination, also refer to the Contraindications section of the package insert for
- Symbyax (4)

FULL PRESCRIBING INFORMATION: CONTENTS* WARNING: SUICIDAL THOUGHTS AND BEHAVIORS 1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION Major Depressive Disorder 2.2 Obsessive Compulsive Disorder Bulimia Nervosa 2.3 2.4 Panic Disorder 2.5 Fluoxetine and Olanzapine in Combination: Depressive E 2.6 Fluoxetine and Olanzapine in Combination: Treatment R Dosing in Specific Population 2.8 Discontinuation of Treatment 2.9 Switching a Patient To or From a Monoamine Oxidase Inh 2.10 Use of Fluoxetine with Other MAOIs such as Linezolid or N 3 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS 4.1 Monoamine Oxidase Inhibitors (MAOIs) 4.2 Other Contraindications 5 WARNINGS AND PRECAUTIONS Suicidal Thoughts and Behaviors in Children, Adolescents Serotonin Syndrome Allergic Reactions and Rash Screenin Patients for Design of the 5.3 Screening Patients for Bipolar Disorder and Monitoring for 5.4 5.5 Seizures Altered Appetite and Weight 56 Abnormal Bleeding Angle-Closure Glaucoma Hyponatremia Anxiety and Insomnia QT Prolongation Use in Patients with Concomitant Illness Potential for Cognitive and Motor Impairment 5.13 5.14 Long Elimination Half-Life

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- Monoamine Oxidase Inhibitors (MAOI) CNS Acting Drugs Serotonergic Drugs Drugs that Interfere with Hemostasis (e.g., NSAIDS, Aspirin, Warfarin) Electroconvulsive Therapy (ECT) Potential for Other Drugs to affect Fluoxetine
- 7.6 Potential for Other Drugs to affect Fluoxetine7.7 Potential for fluoxetine to affect Other Drugs
- FULL PRESCRIBING INFORMATION

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--WARNINGS AND PRECAUTIONS-· Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults: Monitor for clinical worsening and suicidal thinking and behavior (5.1)

Serotonin Syndrome: Serotonin syndrome has been reported with SSRIs and SNRIs, including fluoxetine, both when taker alone, but especially when co-administered with other serotonergic agents (including triptans, tricyclic antidepressants fentanyl, lithium, tramadol, tryptophan, buspirone and St. John's Wort). If such symptoms occur, discontinue fluoxetine and initiate supportive treatment. If concomitant use of fluoxetine with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. (5.2)

Allergic Reactions and Rash: Discontinue upon appearance of rash or allergic phenomena (5.3)

- Activation of Mania/Hypomania: Screen for lipotar Disorder and monitor for mania/hypomania (5.4) Seizures: Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold (5.5) Altered Appetite and Weight: Significant weight loss has occurred (5.6)
- Anomal Bleeding: May increase the risk of bleeding. Use with NSAIDs, aspirin, warfarin, or other drugs that affect coagulation may potentiate the risk of gastrointestinal or other bleeding (5.7) Angle-Closure Glaucoma: Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated

with antidepressants. (5.8) Hyponatremia: Has been reported with fluoxetine in association with syndrome of inappropriate antidiuretic hormone (SIADH)

Consider discontinuing if symptomatic hyponatremia occurs (5.9) Anxiety and Insomnia: May occur (5.10)

OT Prolongation: OT prolongation and ventricular arrhythmia including Torsades de Pointes have been reported with fluoxetine use. Use with caution in conditions that predispose to arrhythmias or increased fluoxetine exposure. Use cautiously in patients with risk factors for QT prolongation (4.2, 5.11, 7.7, 7.8, 10.1)

- Potential for Cognitive and Motor Impairment: Has potential to impair judgment, thinking, and motor skills. Use caution when
- hinery (5.13) Long Half-Life: Changes in dose will not be fully reflected in plasma for several weeks (5.14)

Most common adverse reactions (${\geq}5\%$ and at least twice that for placebo) associated with:

Major Depressive Disorder, Obsessive Compulsive Disorder, Bulimia, and Panic Disorder: abnormal dreams, abnormal eiaculation norexia, anxiety, asthenia, diarrhea, dry mouth, dyspepsia, flu syndrome, impotence, insomna, libido decreased, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilatation, and yawn (6.1)

Fluoxetine and olanzapine in combination - Also refer to the Adverse Reactions section of the package insert for Symboxa (6)

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch --DRUG INTERACTIONS

Monoamine Oxidase Inhibitors (MAOIs): (2.9, 2.10, 4.1, 5.2)

recently discontinued (5.2, 7.7)

Benzodiazepines: Diazepam - increased t1/2, alprazolam - further psychomotor performance decrement due to increased levels (7.7)

Antipsycotics: Potential for elevation of haloperidol and clozapine levels (7.7)

Anticonvulsants: Potential for elevated phenytoin and carbamazepine levels and clinical anticonvulsant toxicity (7.7)

Drugs that prolong the QT Interval: Do not use fluoxetine with thioridazine or pimozide. Use with caution in combination with other drugs that prolong the QT interval (4.2, 5.11, 7.7, 7.8)

Pregnancy: Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risks to the fetus (8.1)

nent: Lower or less frequent dosing may be appropriate in patients with cirrhosis (8.6) See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide

		7.8 Drugs that Prolong the QT Interval
	-	USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.2 Labor and Delivery 8.3 Nursing Mothers 8.4 Pediatric Use 8.5 Geriatric Use 8.6 Hepatic Impairment
Episodes Associated with Bipolar I Disorder Resistant Depression		DRUG ABUSE AND DEPENDENCE 9.3 Dependence
Inhibitor (MAOI) Intended to Treat Psychiatric Disorders or Methylene Blue		OVERDOSAGE 10.1 Human Experience 10.2 Animal Experience 10.3 Management of Overdose
	11	DESCRIPTION
nts, and Young Adults		CLINICAL PHARMACOLOGY 12.1 Mechanism of Action 12.2 Pharmacodynamics 12.3 Pharmacokinetics 12.4 Specific Populations
for Mania/Hypomania		NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 13.2 Animal Toxicology and/or Pharmacology
		CLINICAL STUDIES 14.1 Major Depressive Disorder 14.2 Obsessive Compulsive Disorder 14.3 Bulimia Nervosa 14.4 Panic Disorder
		HOW SUPPLIED/STORAGE AND HANDLING 16.1 How Supplied 16.2 Storage and Handling
		PATIENT COUNSELING INFORMATION
pirin, Warfarin)		17.1 General Information 17.2 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults 17.3 Serotonin Syndrome 17.4 Allergic Reactions and Rash 17.5 Abnormal Bleeding 17.6 Angle-Closure Glaucoma 17.7 Hyponatremia 17.8 QT Prolongation 17.9 Potential for Cognitive and Motor Impairment 17.10 Use of Concomitant Medications
print, mananity		

17.11 Discontinuation of Treatment

17.12 Use in Specific Populations

A major depresence optioner integration of the integration of application and a provide the provided of the pr Drugs Metabolized by CYP2D6: Floorenin is a potent inhibitor of CYP2D6 enzyme pathway (7.7)
 Tricyclic Antidepressants (TCAs): Monitor TCA levels during coadministration with fluoxetine or when fluoxetine has been CNS Acting Drugs: Caution should be used when taken in combination with other centrally acting drugs (7.2) include a detailed psychiatric history, including a family history of suicide. Bipolar Disorder, and depression. It should be noted that fluoxetine and olanzapine in combination is approved for the acute treatment of depressive episodes associated with Bipola The modeline durate provide approvement of the package insert for Symbyay. Fluoxetine monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder. In US placebo-controlled clinical trials for Major Depressive Disorder, mania/hypomania was reported in 0.1% of patients

Serotoneraic Druas: (2.9, 2.10, 4.1, 5.2)

Drugs that Interfere with Hemostasis (e.g. NSAIDs, Aspirin, Warfarin): May potentiate the risk of bleeding (7.4) Drugs Tightly Bound to Plasma Proteins: May cause a shift in plasma concentrations (7.6, 7.7)

Olanzapine: When used in combination with fluoxetine, also refer to the Drug Interactions section of the package insert for

----USE IN SPECIFIC POPULATIONS-----

Nursing Mothers: Breast feeding is not recommended (8.3) *Pediatric Use:* Safety and effectiveness of fluoxetine in patients <8 years of age with Major Depressive Disorder and <7 years of age with OCD have not been established. Safety and effectiveness of fluoxetine and olanzapine in combination in patients

<10 years of age for depressive episodes associated with Bipolar I Disorder have not been established. (8.4)

reported convulsions. The percentage appears to be similar to that associated with other marketed drugs effective in the treatment of Major Depressive Disorder. Fluoxetine should be introduced with care in patients with a history of seizures. 5.6 Altered Appetite and Weight Significant weight loss, especially in underweight depressed or bulimic patients, may be an undesirable result of treatment with fluoxetine In US placebo-controlled clinical trials for Major Depressive Disorder, 11% of patients treated with fluoxetine and 2% of patients treated with placebo reported anorexia (decreased appetite). Weight loss was reported in 1.4% of patients treated with fluoxetine and in 0.5% of patients treated with placebo. However, only rarely have patients discontinued treatment with fluoxetine because of anorexia or weight loss *[see Use in Specific Populations (8.4]]*. Revised: 8/2016 In US placebo-controlled clinical trials for OCD, 17% of patients treated with fluoxetine and 10% of patients treated with placebo reported anorexia (decreased appetite). One patient treated with fluoxetine because of anorexia [see Use in reported anorexia (decreas Specific Populations (8.4)]. In US placebo-controlled clinical trials for Bulimia Nervosa, 8% of patients treated with fluoxetine 60 mg and 4% of patients treated

with placebo reported anorexia (decreased appetite). Patients treated with fluoxetine 60 mg on average lost 0.45 kg compared with a gain of 0.16 kg by patients treated with placebo in the 16-week double-blind trial. Weight change should be monitored

5.7 Abnormal Bleeding

5.5 Seizures

SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammary drugs, warfarin, and other anti-coagulants may add to this risk. Case reports and epidemiological studies (case control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages. Includes US Major Depressive Disorder, OCD, bulimia, and Panic Disorder clinical trials, plus non-US Panic Disorder clinical trial Other adverse reactions in pediatric patients (children and adolescents) — Treatment-emergent adverse reactions were collected in 322 pediatric patients (180 fluoxetine-treated, 142 placebo-treated). The overall profile of adverse reactions was generally

Patients should be cautioned about the risk of bleeding associated with the concomitant use of fluoxetine and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation [see Drug Interactions (7.4)]. 5.8 Angle-Closure Glaucoma

Angle-Closure Glaucoma — The pupillary dilation that occurs following use of many antidepressant drugs including fluoxetine may trigger an angle-closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy

Hyponatremia has been reported during treatment with SNRIs and SSRIs, including fluoxetine. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported and appeared to be reversible when fluoxetine was discontinued. Elderly patients may be at greater risk of developing hyponatremia with SNRIs and SSRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk [see Use in Specific Populations (8.5)]. Discontinuation of fluoxetine should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and steadiness, which may lead to falls. More severe and/or acute cases have been associated with hallucination, syncope, seizure na, respiratory arrest, and death.

5.10 Anxiety and Insomnia

In US placebo-controlled clinical trials for Major Depressive Disorder, 12% to 16% of patients treated with fluoxetine and 7% to 9% of patients treated with placebo reported anxiety pervousness or insomnia

In US placebo-controlled clinical trials for OCD, insomnia was reported in 28% of patients treated with fluoxetine and in 22% of patients treated with placebo. Anxiety was reported in 14% of patients treated with fluoxetine and in 7% of patients treated with placebo. In US placebo-controlled clinical trials for Bulimia Nervosa, insomnia was reported in 33% of patients treated with fluoxetine 60 mg, and 13% of patients treated with placebo. Anxiety and nervousness were reported, respectively, in 15% and 11% of patients

ing, and to so of patients treated with placetor. Anders and the voorness were reported, respectively, in 15% and 17% of patients treated with floxetine 60 mg and in 9% and 5% of patients treated with elector. Among the most common adverse reactions associated with discontinuation (incidence at least twice that for placebo and at least 1% for fluoxetine in clinical trials collecting only a primary reaction associated with discontinuation) in US placebo-controlled fluoxetine clinical trials were anxiety (2% in OCD), insomnia (1% in combined indications and 2% in bulimia), and nervousness (1%

in Major Depressive Disorder) [see Table 5].

5.11 QT Prolongation Post-marketing cases of QT interval prolongation and ventricular arrhythmia including Torsades de Pointes have been reported in patients treated with fluoxetine. Fluoxetine should be used with caution in patients with congenital long QT syndrome; a previous history of QT prolongation; a family history of long QT syndrome or sudden cardiac death; and other conditions that predispose to DT prolongation and ventricular arrhythmia. Such conditions include concomitant use of drugs that prolong the OT interval; hypokalemia or hypomagnesemia; recent myocardial infarction, uncompensated heart failure, bradyarrhythmias, and other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that predispose to increased fluoxetine exposure (overdose, hepatic impairment, the other significant arrhythmias; and conditions that the significant arrhythmias (the significant arrhythmias) are the si

use of CYP2D6 inhibitors, CYP2D6 poor metabolizer status, or use of other highly protein-bound drugs). Fluoxetine is primarily

metabolized by CYP2D6 [see Contraindications (4.2), Drug Interactions (7.7, 7.8), Overdose (10.1), and Clinical Pharmacology (12.3)]

Includes US data for Major Depressive Disorder, OCD, Bulimia, and Panic Disorder clinical trials, plus non-US data for Panic

Disorder clinical trials. Denominator used was for males only (N=690 fluoxetine Major Depressive Disorder; N=410 placebo Major Depressive Disorder; N=116 fluxetine OCD: N=43 placebo OCD: N=14 fluxetine bulimia: N=1 placebo bulimia: N=162 fluxetine panic: N=121 placebo panic)

Table 4: Treatment-Emergent Adverse Reactions: Incidence in Major Depressive Disorder, OCD, Bulimia, and Panio

		Patients Reporting Event	
	Major Depressive Disorder, OCD, Bulimia, and Panic Disorder Combined		
Body System/ Adverse	Fluoxetine Placebo		
Reaction	(N=2869)	(N=1673)	
Body as a Whole	· · · ·	× 7	
Headache	21	19	
Asthenia	11	6	
Flu syndrome	5	4	
Fever	2	1	
Cardiovascular System			
Vasodilatation	2	1	
Digestive System			
Nausea	22	9	
Diarrhea	11	7	
Anorexia	10	3	
Dry mouth	9	6	
Dyspepsia	8	4	
Constipation	5	4	
Flatulence	3	2	
Vomiting	3	2	
Metabolic and			
Nutritional Disorders			
Weight loss	2	1	
Nervous System			
Insomnia	19	10	
Nervousness	13	8	
Anxiety	12	6	
Somnolence	12	5	
Dizziness	9	6	
Tremor	9	2	
Libido decreased	4	1	
Thinking abnormal	2	1	
Respiratory System			
Yawn	3		
Skin and Appendages			
Sweating	7	3	
Rash	4	3	
Pruritus	3	2	
Special Senses			
Abnormal vision	2	1	

Includes US data for Major Depressive Disorder, OCD, bulimia, and Panic Disorder clinical trials, plus non-US data for Panic Disorder clinical trials. Associated with discontinuation in Major Depressive Disorder, OCD, bulimia, and Panic Disorder placebo-controlled clinical trials

(excluding data from extensions of trials) — Table 5 lists the adverse reactions associated with discontinuation of fluoxetine treatment (incidence at least twice that for placebo and at least 1% for fluoxetine in clinical trials collecting only a primary reaction associated with discontinuation) in Major Depressive Disorder, OCD, bulimia, and Panic Disorder clinical trials, plus non-US Panico Disorder distribution of trials and the second second

Table 5: Most Common Adverse Reactions Associated with Discontinuation in Major Depressive Disorder, OCD, Buli

Bulimia

(N=450)

Insomnia (2%)

similar to that seen in adult studies, as shown in Tables 4 and 5. However, the following adverse reactions (excluding those which

appear in the body or footnotes of Tables 4 and 5 and those for which the COSTART terms were uninformative or misleading) were

reported at an inclusive of at read 2% for non-energinal greater than praceous times, hyperknesia, agratuon, personanty disorder, epistaxis, unitary frequency, and menorthagia. The most common adverse reaction (incidence at least 1% for fluoxetine and greater than placebo) associated with

discontinuation in 3 pediatric placebo-controlled trials (N=418 randomized; 228 fluoxetine-treated; 190 placebo-treated) was mania/hypomania (1.8% for fluoxetine-treated, 0% for placebo-treated). In these clinical trials, only a primary reaction associated

Male and female sexual disfunction with SSRIs — Although changes in sexual desire, sexual performance, and sexual satisfaction

Male and remate sexual dystunction with SSHs — 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 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 experience, and performance, cited in product labeling, are likely to underestimate their actual incidence. In patients enrolled in US Major Descreto IND and builtion longebe controlled divided liking unto the optic owned like divide unto the optic owned likely to underestimate their actual incidence.

Depressive Disorder, OCD, and bulimia placebo-controlled clinical trials, decreased libido was the only sexual side effect reported by at least 2% of patients taking fluoxetine (4% fluoxetine, <1% placebo). There have been spontaneous reports in women taking

While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely

Following is a list of treatment-emergent adverse reactions reported by patients treated with fluoxetine in clinical trials. This listing

is not intended to include reactions (1) already listed in previous tables or elsewhere in labeling, (2) for which a drug cause was

remote, (3) which were so general as to be uninformative, (4) which were not considered to have significant clinical implications,

Reactions are classified by body system using the following definitions: frequent adverse reactions are those occurring in at least 1/100 patients; infrequent adverse reactions are those occurring in 1/100 patients; rare reactions are those occurring in 1/100 patients; rare reactions are those occurring in fewer than 1/1000 patients; rare reactions are those occurring in fewer than 1/1000 patients; rare reactions are those occurring in the section of t

Digestice System — Infrequent: vsphatada, gastrichi, sastroenteriki, melena, stomach ulcer; Rare: bloody diarrhea, duodenal ulcer, esophageal ulcer, gastrointestinal hemorrhage, hematemesis, hepatitis, peptic ulcer, stomach ulcer hemorrhage. Hemic and Lymphatic System — Infrequent: ecchymosis; Rare: petechia, purpura.

Nervous System — Frequent: emotional lability; Infrequent: akathisia, ataxia, balance disorder¹, bruxism¹, buccoglossal

Urogenital System — Frequent: micruintion disorder; Infrequent: dysuria, gynecological bleeding². MedDRA dictionary term from integrated database of placebo controlled trials of 15870 patients, of which 9673 patients received

²Group term that includes individual MedDRA terms: cervix hemorrhage uterine, dysfunctional uterine bleeding, genital

hemorrhage, menometrorrhagia, menorrhagia, metrorrhagia, polymenorrhea, postmenopausal hemorrhage, uterine hemorrhage vaginal hemorrhage. Adjusted for gender.

Voluntary reports of adverse reactions temporally associated with fluoxetine that have been received since market introduction

Voluntary reports or 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: aplastic anemia, atrial fibrillation¹, cataract, cerebrovascular accident¹, cholestatic jaundice, 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), eosinophilic pneumonia¹, epidermal necrolysis, erythema multiforme, erythema nodosum, exfoliative dermatitis, galactorrhea, gynecomastia, heart arrest¹, hepatic failure/necrosis, hyperprolactinemia, hypoglycemia, immune-related hemolytic anemia, kidney failure, memory impairment, movement disorders developing in patients with risk factors including drugs associated with such reactions and worsening of ore-existing movement disorders, onlic neuritis, soarcreatitis¹, onacrotoponia, nulmonary embolism, nulmonary hopetnesion.

of pre-existing movement disorders, optic neuritis, pancreatitis¹, pancytopenia, pulmonary embolism, pulmonary hypertension, QT prolongation, Stevens-Johnson syndrome, thrombocytopenia¹, thrombocytopenic purpura, ventricular tachycardia (including

These terms represent serious adverse events, but do not meet the definition for adverse drug reactions. They are included here

As with all drugs, the potential for interaction by a variety of mechanisms (e.g., pharmacodynamic, pharmacokinetic drug inhibition

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

7.4 Drugs that interfere with removasists (e.g., NSALDS, ASpirin, Wartarin) Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding have also shown that concurrent use of an NSALD or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SNRIs or SSRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when fluoxetine is initiated or discontinued (*cas Morelines of Bray interfects*).

7.5 Electroconvulsive Interapy (EUI) There are no clinical studies establishing the benefit of the combined use of ECT and fluoxetine. There have been rare reports of prolonged seizures in patients on fluoxetine receiving ECT treatment.
7.6 Potential for Other Drugs to affect Fluoxetine Drugs Tighty 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)].

7.7 Optimization of Provide through a statistical statistical and a statistical stati

pimozide with other antidepressants demonstrate an increase in drug interaction or QT prolongation. While a specific study with pimozide and fluoxetine has not been conducted, the potential for drug interactions or QT prolongation warrants restricting the

concurrent use of pimozide and fluoxetine [see Contraindications (4.2), Warnings and Precautions (5.11), and Drug Interactions (7.8)]. Thioridazine — Thioridazine should not be administered with fluxettine or within a minimum of 5 weeks after fluxettine has been discontinued, because of the risk of QT Prolongation [see Contraindications (4.2), Warnings and Precautions (5.11), and Deve because of the risk of QT Prolongation [see Contraindications (4.2), Warnings and Precautions (5.11), and

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 produced a 2.4-fold higher C_{max} and a 4.5-fold higher AUC for thioridazine in the slow hydroxylators compared with the rapid hydroxylators. The rate of debrisoquin hydroxylation is felt to depend on the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated plasma

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. Drugs Metabolized by CYP2D6 — Fluoxetine inhibits the activity of CYP2D6, and may make individuals with normal CYP2D6

metabolic activity resemble a poor metabolizer. Coadministration of fluoxetine with other drugs that are metabolized by CYP2D6, including certain antidepressants (e.g., TCAs), antipsychotics (e.g., phenothiazines and most atypicals), and antiarrhythmics (e.g., proparenone, flecaninde, and others) should be approached with caution. Therapy with medications that are predominantly

(e.g., propatenone, lifecainide, and others) should be approached with caution. Iherapy with medications that are predominantly metabolized by the CYP2D6 system and that have a relatively narrow therapeutic index (see list below) should be initiated at the low end of the dose range if a patient is receiving fluoxetine concurrently or has taken it in the previous 5 weeks. Thus, his/her dosing requirements resemble those of poor metabolizers. If fluoxetine is added to the treatment regimen of a patient already receiving a drug metabolized by CYP2D6, the need for decreased dose of the original medication should be considered. Drugs with a narrow therapeutic index represent the greatest concern (e.g., flecainide, propafenone, vinblastine, and TCAs). Due to the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued lese. Output of 40 ll

Tricvclic Antidepressants (TCAs) — In 2 studies, previously stable plasma levels of imipramine and desipramine have increased

Incyclic Punicip/essants (1243) — In 2 sources, previously statue plasma reversion impression and user plasma in the increased greater than 2 to 10-fold when fluoxetine has been administered in combination. This influence may persist for 3 weeks or longer after fluoxetine is discontinued. Thus, the dose of TCAs may need to be reduced and plasma TCA concentrations may need to be monitored temporarily when fluoxetine is coadministered or has been recently discontinued [see Warnings and Precautions (5.2 and Clinical Pharmacology (12.3)].

Benzodiazapines - The half-life of concurrently administered diazepam may be prolonged in some patients [see Clinical

Pharmacology (12.3)]. Coadministration of alprazolam and fluoxetine has resulted in increased alprazolam plasma concentrations and in further psychomotor performance decrement due to increased alprazolam levels.

Antipsycholics — Some clinical data suggests a possible pharmacodynamic ant/or pharmacokinetic interaction between SSRIs and antipsychotics. Elevation of blood levels of haloperidol and clozapine has been observed in patients receiving concomitant

Anticonvulsants — Patients on stable doses of phenytoin and carbamazepine have developed elevated plasma anticonvulsant concentrations and clinical anticonvulsant toxicity following initiation of concomitant fluoxetine treatment. Lithium — There have been reports of both increased and decreased lithium levels when lithium was used concomitantly with

Limium — Inere nave been reports of both increased and occreased limium levels when intimum was used concomitantly with fluoxetine. Cases of lithium toxicity and increased services have been reported. Lithium levels should be monitored when these drugs are administered concomitantly *[see Warnings and Precautions (5.2)]*. *Drugs Tightly Bound to Plasma Proteins* — Because fluoxetine is tightly bound to plasma proteins, the administration of fluoxetine to a patient taking another drug that is tightly bound to protein (e.g., Coumadin, digitoxin) may cause a shift in plasma concentrations potentially resulting in an adverse effect *[see Clinical Pharmacology (12.3)]*.

Prus Metabolized by CYP3A4 — In an in vivo interaction study involving coadministration of fluoxetine with single doses of

Erefenadine (a CYP3A4 substrate), no increase in plasma terfenadine concentrations occurred with concentrating works and the second strategy increase in plasma terfenadine occurred with concentrating works and the second strategy in the second strategy

Olanzapine — Fluoxetine (60 mg single dose or 60 mg daily dose for 8 days) causes a small (mean 16%) increase in the

or maximum concentration of of anzapine and a small (mean 16%) decrease in olargence dearance. The magnitude of the impact of this factor is small in comparison to the overall variability between individuals, and therefore dose modification is not routinely

When using fluoxetine and olanzapine and in combination, also refer to the Drug Interactions section of the package insert for

n using fluoxetine and olanzapine in combination, also refer to the Use in Specific Populations section of the package insert for Symbyay

Pregnancy Category C — Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. All preprior bave a background risk of birth defects loss or other adverse outcome regardless of drug exposure

Treatment of Pregnant Women during the First Trimster — There are no adequate and well-controlled clinical studies on the use of fluoxetine in pregnant women. Results of a number of published epidemiological studies assessing the risk of fluoxetine exposure during the first trimsster of pregnancy have demonstrated inconsistent results. More than 10 cohort studies and case-control studies failed to demonstrate an increased risk for congenital malformations overall. However, one prospective cohort study conducted by

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age and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)].

7.3 Serotonergic Drugs [see Dosage and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)].

I oblinated ing Experience following adverse reactions have been identified during post approval use of fluoxetine. Because these reactions are reported ntarily from a population of uncertain size, it is difficult to reliably estimate their frequency or evaluate a causal relationship

There are no adequate and well-controlled studies examining sexual dysfunction with fluoxetine treatment. Symptoms of sexual dysfunction occasionally persist after discontinuation of fluoxetine treatment.

ascular System — Frequent: palpitation: Infrequent: arrhythmia, hypotension¹

enersonalization euphoria hypertonia libido increased myocl

ence of at least 2% for fluoxetine and greater than placebo: thirst, hyperkinesia, agitation, pers

Panic Disorde

(N=425)

Anxiety (2%)

(1%)

OCD

(N=266)

Anxiety (2%)

Rash (1%)

and Panic Disorder Placebo-Controlled Clinical Trials

Major

Depressiv Disorder

(N=392)

(1%)

etine of orgasmic dysfunction, including anorgasmia.

or (5) which occurred at a rate equal to or less than placebo.

Respiratory System — Rare: larynx edema. Skin and Appendages — Infrequent: alopecia; Rare: purpuric rash.

Special Senses — Frequent: taste perversion; Infrequent: mydriasis.

Torsades de Pointes- type arrhythmias), vaginal bleeding, and violent behaviors

chedules, and monitoring of clinical status [see Clinical Pharmacology (12.3)].

7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDS, Aspirin, Warfarin)

Major

Depressive Disorder, OCD,

Bulimia, and

Panic Disord

Combined

(N=1533)

ed at an incid

with discontinuation was collected.

Priapism has been reported with all SSRIs.

inquire about such possible side effects

6.3 Postmarketing Experience

to drug exposure.

DRUG INTERACTIONS

7.2 CNS Acting Drugs

levels of thioridazine.

[see Contraindications (4.2)].

fluoxetine.

significance

7.8 Drugs that Prolong the QT Interval

8 LISE IN SPECIFIC POPULIATIONS

8.1 Pregnancy

(5.11), Drug Interactions (7.7), and Clinical Pharmacology (12.3)].

Panic Disorde

(N=342)

5

2

Fluoxetine

12

6

10

or enhancement, etc.) is a possibility. 7 1 Monoamine Oxidase Inhibitors (MAOI)

discontinued [see Warnings and Precautions (5.7)]

7.5 Electroconvulsive Therapy (ECT)

Anxiety (1%)

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

 MARNING: SUICIDAL THOUGHTS AND BEHAVIORS
 Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term studies. These studies did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in patients over age 24; there was a reduction in risk with antidepressant use in patients aged and older [see Warnings and Precautions (5.1)].
 In patients of all none who are obtained on antidepressant thereasy monitor closely for upgraphic and for approximate. scant use in patients aged 6

and older [see warmings and rrecautions (o. 1)]. I n patients of all ages who are started on antidepressant therapy, monitor closely for worsening and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber [see Warnings and Precautions (5.1)].

• Fluxetine is not approved for use in children less than 7 years of age [see Warnings and Precautions (5.1) and Use in Specific Populations (8.4)].

When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert for

1 INDICATIONS AND USAGE

Fluoxetine is indicated for the treatment of:

- Acute and maintenance treatment of Major Depressive Disorder *Isee Clinical Studies (14,1)*].
- Acute and maintenance treatment of major bepressive Disorder (*see Clinical subules* (*14.1*).
 Acute and maintenance treatment of obsessions and compulsions in patients with Obsessive Compulsive Disorder (OCD) [see Clinical Studies (*14.2*)]. Acute and maintenance treatment of binge-eating and vomiting behaviors in patients with moderate to severe Bulimia Nervosa
- [see Clinical Studies (14.3)].
- Acute treatment of Panic Disorder, with or without agoraphobia *[see Clinical Studies (14.4)*].
- Fluoxetine and Olanzapine in Combination is indicated for the treatment of:
- Acute treatment of depressive episodes associated with Bipolar I Disorder

Treatment resistant depression (Major Depressive Disorder in patients, who do not respond to 2 separate trials of different antidepressants of adequate dose and duration in the current episode). Fluoxetine monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder or the

treatment of treatment resistant depression. When using fluoxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax^a

2 DOSAGE AND ADMINISTRATION

2.1 Major Depressive Disorder

nitial Treatme

Adult — Initiate fluoxetine 20 mg/day orally in the morning. Consider a dose increase after several weeks if insufficient clinical match research 20 mg/ day only only in the nonming or onsatch a dose morease and soveral vectors in instance in only in improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon). The maximum fluoxetine dose should not exceed 80 mg/day.

In controlled trials used to support the efficacy of fluoxetine, patients were administered morning doses ranging from 20 to 80 mg/ day. Studies comparing fluxestine 20, 40, and 60 mg/day to placebo indicate that 20 mg/day is sufficient to obtain a satisfactory response in Major Depressive Disorder in most cases [see Clinical Studies (14.1)].

Pediatric (children and adolescents) --- Initiate fluoxetine 10 or 20 mg/day. After 1 week at 10 mg/day, increase the dose to 20 mg/ day. However, due to higher plasma levels in lower weight children, the starting and target dose in this group may be 10 mg/day. Consider a dose increase to 20 mg/day after several weeks if insufficient clinical improvement is observed. In the short-term (8 to 9 week) controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of Major Depressive Disorder, patients were administered fluoxetine doses of 10 to 20 mg/day [see Clinical Studies (14.1)].

All patients — As with other drugs effective in the treatment of Major Depressive Disorder, the full effect may be delayed until 4 weeks of treatment or longer. Periodically reassess to determine the need for maintenance treatment

Switching Patients to a Tricyclic Antidepressant (TCA) — Dosage of a TCA may need to be reduced, and plasma TCA concentrations may need to be monitored temporarily when fluoxetine is coadministered or has been recently discontinued [see Warnings and Precautions (5.2) and Drug Interactions (7.7)].

2.2 Obsessive Compulsive Disorder

Initial Treatmen Adult --- Initiate fluoxetine 20 mg/day, orally in the morning. Consider a dose increase after several weeks if insufficient clinical

improvement is observed. The full therapeutic effect may be delayed until 5 weeks of treatment or longer. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon). A dose range of 20 to 60 mg/day is recommended; however, doses of up to 80 mg/day have been well tolerated in open studies of OCD. The maximum fluoxetine dose should not

In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of OCD, patients were administered fixed daily doses of 20, 40, or 60 mg of fluoxetine or placebo *[see Clinical Studies (14.2)]*. In one of these studies, no dose-response elationship for effectiveness was demonstrated.

Pediatric (children and adolescents) - In adolescents and higher weight children, initiate treatment with a dose of 10 mg/day After 2 weeks, increase the dose to 20 mg/day. Consider additional dose increases after several more weeks if insufficient c

After 2 weeks, increase the does to 20 ing/day, consider adultation does increases after several more weeks in insufficient emitted in the several more weeks in insufficient emitted and the several more weeks in insufficient entropy of 10 mg/day is recommended. The several more weeks greater than 20 mg is very minimal, and there is no experience with doses greater than 60 mg.

In the controlled clinical trial of fluxetime supporting its effectiveness in the treatment of OCD, patients were administered fluxetime doses in the range of 10 to 60 mg/day *[see Clinical Studies (14.2)]*. Periodically reassess to determine the need for treatment.

2.3 Bulimia Nervosa

Initial Treatment - Administer fluoxetine 60 mg/day in the morning. For some patients it may be advisable to titrate up to this target dose over several days. Fluoxetine doses above 60 mg/day have not been systematically studied in patients with bulimia. In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of Bulimia Nervosa, patients

were administered fixed daily fluoxetine doses of 20 or 60 mg, or placebo *[see Clinical Studies (14.3)]*. Only the 60 mg dose was Periodically significantly superior to placebo in reducing the frequency of binge-eating and vomiting. Periodically reassess to determine the need for maintenance treatment.

2.4 Panic Disorder

Initial Treatment — Initiate treatment with fluoxetine 10 mg/day. After one week, increase the dose to 20 mg/day. Consider a dose increase after several weeks if no clinical improvement is observed. Fluoxetine doses above 60 mg/day have not been systematically evaluated in patients with Panic Disorder. In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of Panic Disorder, patients were administered fluoxetine doses in the range of 10 to 60 mg/day *[see Clinical Studies* (14.4)]. The most frequently administered dose in the 2 flexible-dose clinical trials was 20 mg/day.

Periodically reassess to determine the need for continued treatment.

2.5 Fluoxetine and Olarzapine in Combination: Depressive Episodes Associated with Bipolar I Disorder When using fluoxetine and olarzapine in combination: Depressive Episodes Associated with Bipolar I Disorder When using fluoxetine and olarzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax. When using fluxetime and olarizapine in combination, also feer to the Cuincial Studies section of the package insert for Sympyax. Adult — Administer fluxetine in combination with oral olarizapine once daily in the evening, without regard to meals, generally beginning with 5 mg of oral olarizapine and 20 mg of fluxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability within dose ranges of fluxetine 20 to 50 mg and oral olarizapine 5 to 12.5 mg. Antidepressant efficacy was demonstrated with olarizapine and fluxetine in combination with a dose range of olarizapine 6 to 12 mg and fluxetine 25 to 50 mg. Safety of co-administration of doses above 18 mg olarizapine with 75 mg fluxetine has not been evaluated in clinical studies. Periodically re-examine the need for continued pharmacotherapy. *Children and adolescents* (10-17 years of age) — Administer olarizapine and fluxetine combination once daily in the evening, generally beginning with 2.5 mg of olarizapine and 20 mg of fluxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability. according to efficacy and tolerability. Safety of co-administration of doses above 12 mg of olanzapine with 50 mg of fluoxetine has not been evaluated in pediatric clinical studies. Periodically re-examine the need for continued pharmacotherapy Safety and efficacy of fluxetine in combination with olanzapine was determined in clinical trials supporting approval of Symbyas (fixed-dose combination of olanzapine and fluxetine). Symbyax is dosed between 3 mg/25 mg (olanzapine/fluxetine) per day and 12 mg/50 mg (olanzapine/fluxetine) per day. The following table demonstrates the appropriate individual component doses of fluxetine and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy and table mg/50 mg (olanzapine). and tolerability.

Table 1: Approximate Dose Correspondence Between Symbyax' and the Combination of Fluoxetine and Olanzapine

For Symbyax (mg/day)	Use in Combination	
	Olanzapine (mg/day)	Fluoxetine (mg/day)
3 mg olanzapine/25 mg fluoxetine	2.5	20
6 mg olanzapine/25 mg fluoxetine	5	20
12 mg olanzapine/25 mg fluoxetine	10+2.5	20
6 mg olanzapine/50 mg fluoxetine	5	40+10
12 mg olanzapine/50 mg fluoxetine	10+2.5	40+10

Symbyax (olanzapine/fluoxetine HCL) is a fixed-dose combination of fluoxetine and olanzapine Eluxactine capsules monotante no call a a fuel data data company on face-tamban de calledaria. Pluxactine capsules monotanterapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder 2.6 Fluxactine and Olanzapine in Combination: Treatment Resistant Depression

When using fluxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax

1788 Pack Insert for Fluoxetine Capsules USP, (ScieGen-Camber) 905-08-2016.indd 1

When using fluxetine and olarization in combination, also refer to the Clinical Studies section of the package insert for Symbyax. Administer fluxetine in combination with oral olarization ence daily in the evening, without regard to meals, generally beginning with 5 mg of oral olarization and 20 mg of fluxetine. Adjust dosage, if indicated, according to efficacy and tolerability within dose ranges of fluxetine 20 to 50 mg and oral olarization e 5 to 20 mg. Antidepressant efficacy was demonstrated with olarization and fluxetine in combination with a dose range of olarizatione 6 to 18 mg and fluxetine 25 to 50 mg. Safety and efficacy of fluxetine in combination with olarization e to 18 mg and fluxetine 25 to 50 mg. Safety and efficacy of fluxetine in combination with olarization was determined in clinical trials supporting approval of Symbyax (fixed dose combination of olarization and fluxetine). Symbyax is dosed between 3 mg/25 mg (olarizationeffluxetine) per day and 12 mg/50 mg (olarizatione/fluxetine) per day. Table 1 demonstrates the appropriate individual component doses of fluxetine and olarizatione were symbyax. Adjust doseand is individual components according to taffeacy and tolerability

and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy and tolerability. Periodically re-examine the need for continued pharmacotherapy. Safety of coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies.

Fluoxetine monotherapy is not indicated for the treatment of treatment resistant depression (Major Depressive Disorder in patients nd to 2 anti

*Sections or subsections omitted from the full prescribing information are not listed.

2.7 Dosing in Specific Populations Treatment of Pregnant Women — When treating pregnant women with fluoxetine, the physician should carefully consider the potential risks and potential benefits of treatment. Neonates exposed to SSRIs or SNRIs late in the third trimester have developed omplications requiring prolonged hospitalization, respiratory support, and tube feeding *[see Use in Specific Populations (8.1)]*.

Geritatic — Consider a lower or less frequent dosage for the elderly *[see Use in Specific Populations (8.5)]*. Hepatic Impairment — As with many other medications, use a lower or less frequent dosage in patients with hepatic impairr [see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)]. Concomitant Illness — Patients with concurrent disease or on multiple concomitant medications may require dosage adjustments

Concommand integrations — Patients with concurrent obsease of oir induciple concommand metorcations may require loosage adjustments [see clinical Pharmacology (12.4) and Warnings and Precautions (5.12)]. Fluoxetine Capsules and Olanzapine in Combination — Use a starting dose of oral olanzapine 2.5 to 5 mg with fluoxetine 20 mg for patients with a predisposition to hypotensive reactions, patients with hepatic impairment, or patients who exhibit a combination of factors that may slow the metabolism of olanzapine or fluoxetine in combination (female gender, geriatric age, non-smoking status), or those patients who may be pharmacodynamically sensitive to olanzapine. Titrate slowly and adjust dosage as needed in patients who exhibit a combination of factors that may slow metabolism. Fluoxetine and olanzapine in combination have not been exclementically studied in patient cours 65 wears of ang or in patients less than 10 wears of ang fragmatical prebeen systematically studied in patients over 65 years of age or in patients less than 10 years of age [see Warnings and Precautions (5.16) and Drug Interactions (7.7)]. uation of Treatment

2.8 Disconti ymptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precaution:

2.9 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine. Conversely, at least 5 weeks should be allowed after stopping fluoxetine before starting an MAOI intended to treat psychiatric disorders *(see Contraindications (4.1))*. 2.10 Use of Fluoxetine with Other MAOIs such as Linezolid or Methylene Blue

Do not start fluoxetine in a patient who is being treated with linezolid or intravenous methylene blue because there is an increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, ncluding hospitalization, should be considered *[see Contraindications (4,1)]*.

including hospitalization, should be considered *(see Contraindications (4.1))*. In some cases, a patient already receiving fluoxetine therapy may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, fluoxetine should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for five weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, donut function and fluoxetine end Deavutine (f). intravenous methylene blue Isee Warnings and Precautions (5.2)].

The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with fluoxetine is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use [see Warnings and Precautions (5.2)]. **3 DOSAGE FORMS AND STRENGTHS**

 Fluoxetine capsules, USP 10 mg** are white to off white powder filled in size "4" hard gelatin capsules with opaque light blue Colored cap and opaque light orange colored body imprinted "SG" on cap and "113" on body with black ink.
 Fluoxetine capsules, USP 20 mg** are white to off white powder filled in size "2" hard gelatin capsules with opaque light green colored body imprinted "SG" on cap and "114" on body with black ink.

Fluoxetine capsules, USP 40 mg** are white to off white powder filled in size "0" hard gelatin capsules with opaque light blue

colored cap and opaque white colored body imprinted "SG" on cap and "115" on body with black ink

4 CONTRAINDICATIONS

When using fluoxetine capsules and olanzapine in combination, also refer to the Contraindications section of the package insert

mine Oxidase Inhibitors (MAOIs)

The use of MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks of stopping treatment with fluox is contraindicated because of an increased risk of serotonin syndrome. The use of fluoxetine within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated [see Dosage and Administration (2.9) and Warnings and Precautions (5.2)].

Starting fluoxetine in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue is also ated because of an increased risk of serotonin syndrome [see Dosage and Adm

4.2 Other Contraindications

The use of fluoxetine is contraindicated with the following:

Pimozide (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8)]
 Thioridazine (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8)]
 Thioridazine (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8)]
 Thioridazine prolong the OT interval. Fluxetine can increase the levels of pimozide and thioridazine through inhibition YP2D6, Fluxetine can also prolong the QT interval.

5 WARNINGS AND PRECAUTIONS When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert

5.1 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults Patients with Major Depressive Disorder (MDD), both adult and pediatric, may experience worsening of their depression and/ or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence Iong-standing concern, nowever, mat antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, addescents, and young adults (ages 18 to 24) with Major Depressive Disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older. The pooled analyses of placebo-controlled trials in children and addescents with MDD, Dbessive Compulsive Disorder (MDD) and other psychiatric disorders. The pooled analyses of placebo related 24 och term trief ef a antidepressant drugs in our 4400 existing. The pooled short term trief ef a antidepressant drugs in our 4400 existing. The pooled short term trief ef antidepressant drugs in our 4400 existing.

The pooled analyses of placebo-controlled trials in children and addescents with MDD, Obsestive Computive Disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug versus placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 2.

ble 2: Suicidality per 1000 Patients Treated		
Age Range Drug-Placebo Difference in Number of Cases of Suicidality per 1000		
	Patients Treated	
	Increases Compared to Placebo	
<18	14 additional cases	
18-24	5 additional cases	
	Decrea ses Compared to Placebo	
25-64	1 fewer case	
>65	6 fewer cases	

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach

any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the ecurrence of depression.

All patients of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for Major Depressive Disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a

antidepressants for Major Depressive Disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

If the design has been made to discontinue treatment medication should be tanered as rapidly as is feasible, but with recognition

In the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms [see Warnings and Precautions (5.15)]. Families and caregivers of patients being treated with antidepressants for Major Depressive Disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of agitation, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for fluovetine should be written for the smallest quantity of capsules consistent with good relationt emergence the related to be diverdee. patient management, in order to reduce the risk of overdose.

It should be noted that fluoxetine is approved in the pediatric population for Major Depressive Disorder and Obsessive Compulsive Disorder; and fluoxetine in combination with olanzapine for the acute treatment of depressive episodes associated with Bipolar

5.2 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs, including The development of a potentially with concentrating servorm syndrome has been reported with owned and Sorks, in flowedine, alone but particularly with concentration of other servolonergic drugs (including triptans, tricyclic antidepr fentanyl, lithium, tramadol, tryptophan, buspirone, and StJohn's Wort) and with drugs that impair metabolism of s fentanyl, lithium, tramadol, tryptophan, buspirone, and St.John's Wort) and with drugs that impair metabolism of serotonir (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue)

a and thioridazina are dicated for use with fluovetine. Avoid the cor itant use of drugs known to prolong the QT interval. These include specific antipsychotics (e.g., ziprasidone, iloperidone, chlorpromazine, mesoridazine, droperidol.); specific antibiotics (e.g.,erythromycin, gatifloxacin, moxifloxacin, sparfloxacin); Class 1A antiarrhythmic medications (e.g., quinidine, procainamide); Class III antiarrhythmics (e.g., amiodarone, sotalol); and others (e.g., pentamidine, levomethadyl acetate, nethadone, halofantrine, mefloquine, dolasetron mesylate, probucol or tacrolimus) [see Drug Interactions (7.7, 7.8) and Clinical Pharmacology (12.3)].

Consider ECG assessment and periodic ECG monitoring if initiating treatment with fluoxetine in patients with risk factors for QT prolongation and ventricular arrhythmia. Consider Edg discontinuing fluoxetine and obtaining a cardiac evaluation if patients develop signs or symptoms consistent with ventricular arrhythmia.

5.12 Use in Patients with Concomitant Illness

Clicical experience with flowerine in patients with concomitant systemic illness is limited. Caution is advisable in using fluoxetine in patients with diseases or conditions that could affect metabolism or hemodynamic responses.

Cardiovascular — Fluoxetine has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease. Patients with these diagonal ses were systematically excluded from clinical studies my command that court or unstature treat unsease. Fatternts with intese utaginuses were systematically excluded from clinical studies during the product's premarket testing. However, the electrocardiograms of 312 patients who received fluxetine in double-blind trials were retrospectively evaluated; no conduction abnormalities that resulted in heart block were observed. The mean heart rate was reduced by approximately 3 beats/min.

Glycemic Control — In patients with diabetes, fluoxetine may alter glycemic control. Hypoglycemia has occurred during therapy with fluxetine, and hyperglycemia has developed following discontinuation of the drug. As is true with many other types of medication when taken concurrently by patients with diabetes, insulin and/or oral hypoglycemic, dosage may need to be adjusted when therapy with fluxetine is instituted or discontinued.

5.13 Potential for Cognitive and Motor Impairment

As with any CNS-active drug, fluoxetine has the potential to impair judgment, thinking, or motor skills. Patients should be cautioned about operating bits databased and how and have potential to impair judgment, imming or moto sense rations should be calculated about operating hazardous machinery, including automobiles, until they are reasonably certain that the drug treatment does not affect them adversely.

5.14 Long Elimination Half-Life

Because of the long elimination half-lives of the parent drug and its major active metabolite, changes in dose will not be fully reflected in plasma for several weeks, affecting both strategies for titration to final dose and withdrawal from treatment. This is of potential consequence when drug discontinuation is required or when drugs are prescribed that might interact with fluoxetine and norfluoxetine following the discontinuation of fluoxetine [see Clinical Pharmacology (12.3)].

5.15 Discontinuation of Adverse Reactions

During marketing of fluxetine, SNRIs, and SSRIs, there have been spontaneous reports of adverse reactions occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, diziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), ankiety, contusion, headache, lethargu, emotional lability, insomnia, and hypomania. While these reactions are generally self-limiting, there have been reports of serious discontinuation symptoms. Patients should be monitored for these symptoms when discontinuing treatment with fluoxetine. A oradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur gradual reduction in the dose raties that abupt cossidion is recommended whenever possible. In index abit symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate. Plasma fluoxetine and norfluoxetine concentration decrease gradually at the conclusion of therapy which may minimize the risk of discontinuation symptoms with this drug.

5.16 Fluoxetine and Olanzapine in Combination

Seizures [see Warnings and Precautions (5.5)]

Altered Appetite and Weight [see Warnings and Precautions (5.6)]
 Abnormal Bleeding [see Warnings and Precautions (5.7)]

Major Depressive

Disorder

Potential for Cognitive and Motor Impairment [see Warnings and Precautions (5.13)]
 Discontinuation Adverse Reactions [see Warnings and Precautions (5.15)]

Angle-Closure Glaucoma [see Warnings and Precautions (5.8)]

Hyponatremia [see Warnings and Precautions (5.9)]
 Anxiety and Insomnia [see Warnings and Precautions (5.10)]

QT Prolongation [see Warnings and Precautions (5.11)]

When using flucxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax.

6 ADVERSE REACTIONS

The following adverse reactions are discussed in more detail in other sections of the labeling:
 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults [see Boxed Warning and Warnings and Precautions (5.1)]

When using fluoxetine and olanzapine in combination, also refer to the Adverse Reactions section of the package insert for

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a

drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect or predict the rates observed

Multiple doses of fluoxetine have been administered to 10,782 patients with various diagnoses in US clinical trials. In addition, there have been 425 patients administered fluoxetine in panic clinical trials. The stated frequencies represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse reaction of the type listed. A reaction was considered

Incidence in Major Depressive Disorder, OCD, builma and Panic Disorder placebox controlled clinical trials (excluding data from extensions of trials) — Table 3 enumerates the most common treatment-emergent adverse reactions associated with the use of fluoxetine (incidence of at least 5% for fluoxetine and at least twice that for placebo within at least 1 of the indications) for the treatment of Major Depressive Disorder, OCD, audimize a twice that for placebo within at least 1 of the indications) for the treatment of Major Depressive Disorder, OCD, and Dulimia in US controlled clinical trials and Panic Disorder in L25 plus non-US controlled trials. Table 5 enumerates treatment-emergent adverse reactions that occurred in 2% or more patients treated with

fluoxetine and with incidence greater than placebo who participated in US Major Depressive Disorder, OCD, and bulimia controlled Induction and the function of the provided in the proceeding of the provided of the provided separately by indication in Table 3.

Table 3: Most Common Treatment-Emergent Adverse Reactions: Incidence in Major Depressive Disorder, OCD, Bulimia, and Panic Disorder Placebo-Controlled Clinical Trials^{1,2}

Percentage of Patients Reporting Event

Fluoxetine Placebo Fluoxetine Placebo Fluoxetine Placebo

15

10

26

10

28

(N=1728) (N=975) (N=266) (N=89) (N=450) (N=267) (N=425)

13

22

21

29

10

11

6

13

11

treatment-emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation.

• Serotonin Syndrome [see Warnings and Precautions (5.2)] Allergic Reactions and Rash [see Warnings and Precautions (c.2.)]
 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania [see Warnings and Precautions (5.4)]

6.1 Clinical Trials Experience

n practice.

Body System/

Adverse Reaction

Body as a Whole

Digestive Syster

rvous Systen

lervousness

Somnolence

System

Sinusitis

Skin and

Sweating

Urogenital

bnorma

ejaculation

۲

Incidence less than 1%

System

Rash

haryngitis

ibido decreasec

rmal dre Respiratory

thenia

Flu Syndrome

System

Diarrhea

Anorexia

the European Network of Teratology Information Services reported an increased risk of cardiovascular malformations in infants born to women (N = 253) exposed to fluoxetine during the first trimester of pregnancy compared to infants of women (N = 1,359) who were not exposed to fluoxetine. There was no specific pattern of cardiovascular malformations. Overall, however, a causal relationship has not been established.

has not been established. Nonteratogenic Effects — Neonates exposed to fluoxetine and other SSRIs or serotonin and norepinephrine reuptake inhibitors (SNRIs), late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypotonia, hypotonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (see Warnings and Precautions (5.2)). Infants exposed to SSRIs in prenopacy may have an increased risk for persistent nulmonary hypertension of the newhorn (PPHM)

Infants exposed to SSRIs in pregnancy may have an increased risk for persistent pulmonary hypertension of the newborn (PPHN) PPHN occurs in 1 to 2 per 1,000 live births in the general population and is associated with substantial neonatal morbidity and From occurs in 1 to 2 per 1,000 live bitts in the general population and is associated with substantial including and mortality. Several recent epidemiological studies suggest a positive statistical association between SSRI use (including fluoxetine) in pregnancy and PPHN. Other studies do not show a significant statistical association. Physicians should also note the results of a prospective longitudinal study of 201 pregnant women with a history of major depression, who were either on antidepressants or had received antidepressants less than 12 weeks prior to their last menstrual

period, and were in remission. Women who discontinued antidepressant medication during pregnancy showed a significant increase in relapse of their major depression compared to those women who remained on antidepressant medication throughout pregnancy.

When treating a pregnant woman with fluoxetine, the physician should carefully consider both the potential risks of taking an SSRI, along with the established benefits of treating depression with an antidepressant. The decision can only be made on a case by case basis [see Dosage and Administration (2.7)].

Animal Data — In embryo-fetal development studies in rats and rabbits, there was no evidence of teratogenicity following administration of fluoxetine at doses up to 12.5 and 15 mg/kg/day, respectively (1.5 and 3.6 times, respectively, the maximum terministicate in the matching of the set o surviving offspring of rats treated with 12 mg/kg/day during gestation. The no-effect dose for rat pup mortality was 5 mg/kg/day (0.6 times the MRHD on a mg/m² basis).

8.2 Labor and Delivery

The effect of fluoxetine on labor and delivery in humans is unknown. However, because fluoxetine crosses the placenta and because of the possibility that fluxetime may have adverse effects on the newborn, fluxetine should be used during labor and delivery only if the potential benefit justifies the potential risk to the fetus.

8.3 Nursing Mothers

Because fluoxetine is excreted in human milk, nursing while on fluoxetine is not recommended. In one breast-milk sample, the concentration of fluoxetine plus norfluoxetine was 70.4 ng/mL. The concentration in the mother's plasma was 295.0 ng/mL. No adverse effects on the infant were reported. In another case, an infant nursed by a mother on fluoxetine developed crying sleep disturbance, vomiting, and watery stools. The infant's plasma drug levels were 340 ng/mL of fluoxetine and 208 ng/mL of norfluoxetine on the second day of feeding. 8.4 Pediatric Use

Use of fluxetine in children - The efficacy of fluxetine for the treatment of Major Depressive Disorder was demonstrated in two 8- to 9-week placebo-controlled clinical trials with 315 pediatric outpatients ages 8 to ≤ 18 [see Clinical Studies (14.1)]. The efficacy of fluoxetine for the treatment of OCD was demonstrated in one 13-week placebo-controlled clinical trial with 103 pediatric outpatients ages 7 to <18 [see Clinical Studies (14.2)].

The safety and effectiveness in pediatric patients <8 years of age in Major Depressive Disorder and <7 years of age in OCD have not been established.

Fluoxetine pharmacokinetics were evaluated in 21 pediatric patients (ages 6 to ≤18) with Major Depressive Disorder or OCD [see Clinical Pharmacology (12.3)].

The acute adverse reaction profiles observed in the 3 studies (N=418 randomized: 228 fluoxetine-treated, 190 placebo-treated) The acute average reaction profiles observed in the 3 studies (n=+10 randomized, 220 indexine treated, 130 placebor vealed) were generally similar to that observed in the 19-week Major Depressive Disorder study (N=219 randomized; 109 fluoxetine-treated, 110 placebo-treated) was also similar to that observed in adult trials with fluoxetine *[see Adverse Reactions* (6.1)]. Manic reaction, including mania and hypomania, was reported in 6 (1 mania, 5 hypomania) out of 228 (2.6%)

fluoxetine-treated patients and in 0 out of 190 (0%) placebo-treated patients. Mania/hypomania led to the discontinuation of 4 (1.8%) fluoxetine-treated patients from the acute phases of the 3 studies combined. Consequently, regular monitoring for the occurrence of mania/hypomania is recommended.

As with other SSRIs, decreased weight gain has been observed in association with the use of fluoxetine in children and adolescent patients. After 19 weeks of treatment in a clinical trial, pediatric subjects treated with fluoxetine gained an average of 1.1 cm less in height and 1.1 kg less in weight than subjects treated with placebo. In addition, fluoxetine treatment was associated with a decrease in alkaline phosphatase levels. The safety of fluoxetine treatment for pediatric patients has not been systematically assessed for chronic treatment longer than several months in duration. In particular, there are no studies that directly evaluate the longer-term effects of fluoxetine on the growth, development and maturation of children and adolescent patients. Therefore, height and weight should be monitored periodically in pediatric patients receiving fluoxetine *[see Warnings and Precautions (5.6)]*. Fluxatine is approved for use in pediatric patients with MDD and OCD [see Box Warning and Warnings and Precautions (5.1)]. Anyone considering the use of fluxatine in a child or adolescent must balance the potential risks with the clinical need. Animal Data - Significant toxicity on muscle tissue, neurobehavior, reproductive organs, and bone development has been observed

following exposure of juvenile rats to fluoxetine from weaning through maturity. Oral administration of fluoxetine to rats from weaning postnatal day 21 through adulthood day 90 at 3, 10, or 30 mg/kg/day was associated with testicular depenation and necrosis, epididymal vacuolation and hypospermia (at 30 mg/kg/day corresponding to plasma exposures [AUC] approximately 5 to 10 times the average AUC in pediatric patients at the MRHD of 20 mg/day), increased serum levels of creatine kinase (at AUC as low as 1 to 2 times the average AUC in pediatric patients at the MRHD of 20 mg/day), skeletal muscle degeneration and necrosis, decreased femur length/growth and body weight gain (at AUC 5 to10 times the average AUC in pediatric patients at the MRHD of 20 mg/day). The high dose of 30 mg/kg/day exceeded a maximum tolerated dose. When animals were evaluated after a drug-free period (up to 11 weeks after cessation of dosing), fluoxetine was associated with neurobehavioral abnormalities (decreased practivity at AUC as low as approximately 0.1 to 0.2 times the average AUC in pediatric patients at the MRHD and learning deficit at the high dose), and reproductive functional impairment (decreased mating at all doses and impaired fertility at the high dose). In addition, the testicular and epididymal microscopic lesions and decreased sperm concentrations found in high dose group were also observed, indicating that the drug effects on reproductive organs are irreversible. The reversibility of fluoxetine-induced nuscle damage was not assessed.

These fluoxetine toxicities in juvenile rats have not been observed in adult animals. Plasma exposures (AUC) to fluoxetine in juvenile rats receiving 3, 10, or 30 mg/kg/day doses in this study are approximately 0.1 to 0.2, 1 to 2, and 5 to 10 times, respectively, the average exposure in pediatric patients receiving the MRHD of 20 mg/day. Rat exposures to the major metabolite, norfluoxetine, are approximately 0.3 to 0.8, 1 to 8, and 3 to 20 times, respectively, the pediatric exposure at the MRHD.

A specific effect on bone development was reported in juvenile mice administered fluoxetine by the intraperitoneal route to 4 week old mice for 4 weeks at doses 0.5 and 2 times the oral MRHD of 20 mg/day on mg/m² 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. Use of fluoxetine in combination with olanzapine in children and adolescents: Safety and efficacy of fluoxetine and olanzapine in children and adolescents.

combination in patients 10 to 17 years of age have been established for the acute treatment of depressive episodes associated with Bipolar I Disorder. Safety and effectiveness of fluoxetine and olanzapine in combination in patients less than 10 years of age have not been established.

8.5 Geriatric Use

US 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 (12.4)]. No vorall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. SNRIs and SSRIs, including fluxetine, have been associated with cases of clinically significant hyponatremia in elderly patients, who may be at greater risk for this adverse reaction

(see Warnings and Precautions (5.9)). Clinical studies of olanzapine and fluoxetine in combination did not include sufficient numbers of patients ≥65 years of determine whether they respond differently from younger patients.

8.6 Hepatic Impairment In subjects with cirrhosis of the liver, the clearances of fluoxetine and its active metabolite, norfluoxetine, were decreased increasing the elimination half-lives of these substances. A lower or less frequent dose of fluoxetine should be used in particular to the substances of the substances. with cirrhosis. Caution is advised when using fluoxetine in patients with diseases or conditions that could affect its meta [see Dosage and Administration (2.7) and Clinical Pharmacology (12.4)].

9 DRUG ABUSE AND DEPENDENCE 9.3 Depend

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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 fluxetine 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 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, physicians should

range of 2 to 3 days seen in subjects without liver disease; norfluoxetine elimination was also delayed, with a mean duration of 12 days for cirrhotic patients compared with the range of 7 to 9 days in normal subjects. This suggests that the use of fluoxetine in patients with liver disease must be approached with caution. If fluoxetine is administered to patients with liver disease lower or less frequent dose should be used [see Dosage and Administration (2.7), Use in Specific Populations (8.6)]. Renal Disease — In depressed patients on dialysis (N=12), fluoxetine administered as 20 mg once daily for 2 months produced steady-state fluoxetine and norfluoxetine plasma concentrations comparable with those seen in patients with normal renal function. While the possibility exists that renally excreted metabolites of fluoxetine may accumulate to higher levels in patients with severe renal dysfunction, use of a lower or less frequent dose is not routinely necessary in renally impaired patients.

Geriatric Pharmacokinetics — The disposition of single doses of fluoxetine in healthy elderly subjects (>65 years of age did not differ significantly from that in younger normal subjects. However, given the long half-life and nonlinear disposition of the drug, a single-dose study is not adequate to rule out the possibility of altered pharmacokinetics in the elderly particularly if they have systemic illness or are receiving multiple drugs for concomitant diseases. The effects of age upor the metabolism of fluoxetine have been investigated in 260 elderly but otherwise healthy depressed patients (≥60 years of age) who received 20 mg fluoxetine for 6 weeks. Combined fluoxetine plus norfluoxetine plasma concentrations were 209.3 ± 85.7 ng/mL at the end of 6 weeks. No unusual age-associated pattern of adverse reactions was observed in those

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 Major Depressive Disorder of Desessive Compulsive Disorder (OCD). Fluoxetine 20 mg/day was administered for up to 62 days. The average steady-state concentrations of fluoxetine in these children were 2-fold higher than in adolescents (171 and 86 ng/mL, respectively). The average norfluoxetine steady-state concentrations in these children were 1.5-fold higher than in adolescents (195 and 113 ng/mL, respectively). These differences can be almost entirely explained by differences in weight. No gender associated difference in fluxetine pharmacokinetics was observed. Similar ranges of fluxetine and norfluxetine pharma concentrations were observed in another study in 94 pediatric patients (ages 8 to <18) diagnosed with Major Depressive Disorder.

Higher average steady-state fluoxetine and norfluoxetine 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 fluxetine and norfluxetine accumulated extensively following multiple oral dosing; steady-state concentrations were tabled on the observed of the state of the st thin 3 to 4 weeks of daily dosing.

NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

13.1 Carcinogenesis, mutagenesis, impartment or remain Carcinogenesis, mutagenesis, impartment or remain respectively [approximately 1.2 and 0.7 times, respectively, the maximum recommended human dose (MRHD) of 80 mg on a mg/m² basis], produced no evidence of carcinogenicity. Mutagenicity — Fluoxetine and norfluoxetine have been shown to have no genotoxic effects based on the following assays: heatering and the following assays:

bacterial mutation assay, DNA repair assay in cultured rat hepatocytes, mouse lymphoma assay, and in vivo sister chromatic

exchange assay in Chinese hamster bone marrow cells. mpairment of Fertility — Two fertility studies conducted in adult rats at doses of up to 7.5 and 12.5 mg/kg/day (approximately 0.9 and 1.5 times the MRHD on a mg/m² basis) indicated that fluoxetine had no adverse effects on fertility. However, a effects on fertility were seen when juvenile rats were treated with fluoxetine [see Use in Specific Populations (8.4)]. ver, adverse

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 cessation of fluoxetine treatment. Phospholipid accumulation in animals has been observed with many cationic amphiphilic 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 Major Depressive Disorder in adults, and children and adolescents (8 to 18 years) in 7

Acute and maintenance treatment of Major Depressive Disorder 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, and children and adolescents (7 to 17 years) with Obsessive Compulsive Disorder (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 (14.3)].
 Efficacy for fluoxetine and olarzapine in combination was established for the:

 Acute treatment of denressive ensorts.
 Binolar L Disorder (in adults, and children and adolescents (10 to 17 years) in 3

Acute treatment of depressive episodes in Bipolar I Disorder in adults, and children and adolescents (10 to 17 years) in 3

short-term, placebo-controlled trials. • Acute and maintenance treatment of treatment resistant depression in adults (18 to 85 years) in 3 short-term,

placebo-controlled trials and 1 randomized withdrawal study with an active control. When using fluoxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for

14.1 Major Depressive Disorde

Dailv Dosina

Adult - The efficacy of fluoxetine was studied in 5- and 6-week placebo-controlled trials with depressed adult and geriatric

Adult — 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 (currently DSM-IV) category of Major Depressive Disorder. Fluoxetine was shown to be significantly more effective than placebo as measured by the Hamilton Depressive Disorder. Fluoxetine was shown to be significantly more effective than placebo as measured by the Hamilton Depressive Disorder. Fluoxetine was also significantly more effective than placebo as measured by the Hamilton Depressive Disorder. Fluoxetine was also significantly more effective than placebo as measured by the Hamilton Depressive Disorder. Fluoxetine was also significantly more effective than placebo as measured by the Hamilton Depressive Disorder. Fluoxetine was also significantly more effective than placebo on the HAM-D subscores for depressed mood, sleep disturbance, and the anxiety subfactor. Two 6-week controlled studies (N=671, randomized) comparing fluoxetine 20 mg and placebo have shown fluoxetine 20 mg daily to be effective in the treatment of elderly patients (≥60 years of age) with Major Depressive Disorder. In these studies, fluoxetine produced a significantly higher rate of response and remission as defined, respectively, by a 50% decrease in the HAM-D score and a total endpoint HAM-D score of ≤8. Fluoxetine was well tolerated and the rate of treatment discontinuations due to adverse reactions did not differ between fluoxetine (12%) and placebo (9%). A study was conducted involving depressed outpatients who had responded (modified HAMD-17 score of ≤7 during each of the last 3 weeks of open-label treatment and absence of Major Depressive Disorder by DSM-III-R criteria) by the end of an initial 12-week open-treatment phase on fluoxetine 20 mg/day. These patients (N=28) were randomized to continuation on double-bind fluoxetine 20 mg/day or placebo. At 38 weeks (50 weeks total), a statistically significan

Pediatric (children and adolescents) — The efficacy of fluoxetine 20 mg/day in children and adolescents (N=315 randomized; 170 children ages 8 to <13, 145 adolescents ages 13 to ≤18) was studied in two 8- to 9-week placebo-controlled clinical trials in depressed outpatients whose diagnoses corresponded most closely to the DSM-III-R or DSM-IV category of Major Depressive Disorder.

In both studies independently, fluoxetine produced a statistically significantly greater mean change on the Childhood epression Rating Scale-Revised (CDRS-R) total score from baseline to endpoint than did placebo ubgroup analyses on the CDRS-R total score did not suggest any differential responsiveness on the basis of age or gender.

Adult — The effectiveness of fluoxetine for the treatment of Obsessive Compulsive Disorder (OCD) was demonstrated in

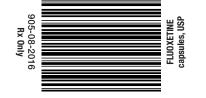
two 13-week, multicenter, parallel group studies (Studies 1 and 2) of adult outpatients who received fixed fluoxetine doses of 20, 40, or 60 mg/day (on a once-a-day schedule, in the morning) or placebo. Patients in both studies had moderate to severe 0CD (DSM-III-R), with mean baseline ratings on the Yale-Brown Obsessive Compulsive Scale (YBOCS, total score) severe OCD (USM-III-H), with mean baseline ratings on the Yale-Brown Obsessive Computive Scale (1YBOCS, total score) ranging from 22 to 26. In Study 1, patients receiving fluoxetine experienced mean reductions of approximately 4 to 6 units on the YBOCS total score, compared with a 1-unit reduction for placebo patients. In Study 2, patients receiving fluoxetine experienced mean reductions of approximately 4 to 9 units on the YBOCS total score, compared with a 1-unit reduction for placebo patients. While there was no indication of a dose-response relationship for effectiveness in Study 1, a dose-response relationship was observed in Study 2, with numerically better responses in the 2 higher dose groups. The following table provides the outcome classification by treatment group on the Clinical Global Impression (CGI) improvement scale for Studies 1 and 2 combined: Table 5

Table 6	
Outcome Classification (%) on CGI Improvement Sca	le for Completers in Pool of Two
OCD Studies	
	Fluovetine

				Fluoxetine	
age to	Outcome Classification	Placebo	20 mg	40 mg	60 mg
	Worse	8%	0%	0%	0%
	No change	64%	41%	33%	29%
d, thus	Minimally improved	17%	23%	28%	24%
atients	Much improved	8%	28%	27%	28%
ıbolism	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 represented that and addressents ages 13 to <18) with OCD (DSM-10), patients received fluoxetine 10 mg/day for 2 weeks. The dose was then adjusted in the range of 20 to 60 mg/day on the basis of clinical formation of the second seco response and tolerability. Fluoxetine produced a statistically significantly greater mean change from baseline to endpoint did placeho as measured by the Children's Yale-Brown Ol ulsive Scale (CY-BOC)



Pointes have been reported in patients treated with fluoxetine. Signs and symptoms of ventricular arrhyth include fast, slow, or irregular heart rate, dyspnea, syncope, or dizziness, which may indicate serious cardiac arrhythmia [see Warnings and Precautions (5.11)].

17.9 Potential for Cognitive and Motor Impairment

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Huoxetine may impair judgment, thinking, or motor skills. Patients should be advised to avoid driving a car or operating hazardous machinery until they are reasonably certain that their performance is not affected *[see Warnings and Precautions (5.13)]*. 17.10 Use of Concomitant Medications Patients should be advised to inform their physician if they are taking, or plan to take, any prescription medication, including

Symbyax, Sarafem, or over-the-counter drugs, including herbal supplements or alcohol. Patients should also be advised to inform their physicians if they plan to discontinue any medications they are taking while on fluoxetine. **17.11 Discontinuation of Treatment** Patients should be advised to take fluoxetine exactly as prescribed, and to continue taking fluoxetine as prescribed even after their

symptoms improve. Patients should be advised that they should not after their dosing regimen, or stop taking fluozetine without consulting their physician [see Warnings and Precautions (5.15)]. Patients should be advised to consult with their healthcare provider if their symptoms do not improve with fluoxetine. 17.12 Use in Specific Populations

Pregnancy - Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy. Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus [see Use in Specific Populations (8.1)].

Nursing Mothers — Patients should be advised to notify their physician if they intend to breast-feed an infant during therapy. Because fluoxetine is excreted in human milk, nursing while taking fluoxetine is not recommended [see Use in Specific Populations (8.3)1.

Pediatric Use of fluoxetine - Fluoxetine is approved for use in pediatric patients with MDD and OCD [see Box Warning and Warnings and Precautions (5.1)]. Limited evidence is available concerning the longer-term effects of fluoxetine on the development

and maturation of children and adolescent patients. Height and weight should be monitored periodically in pediatric patients receiving fluoxetine. [see Warnings and Precautions: Folgint and Wogint since to the monoto be monoto and periodically in periodical particular receiving fluoxetine. [see Warnings and Precautions (5.6) and Use in Specific Populations (8.4)]. Pediatric Use of fluoxetine and olanzapine in combination—Safety and efficacy of fluoxetine and olanzapine in combination in

natients 10 to 17 years of age have been established for the acute treatment of depressive episodes associated with Bipolar Disorder [see Warnings and Precautions (5.16) and Use in Specific Populations (8.4)].

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Rx only Manufactured for: Camber Pharmaceuticals, Inc

Piscataway, NJ 08854 Manufactured by:

ScieGen Pharmaceuticals Inc. Hauppauge, NY 11788

Rev. August 2016

USA

Medication Guide

Fluoxetine Capsules, USP (floo-ox-e-teen)

Read the Medication Guide that comes with fluoxetine capsules before you start taking it and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking to your healthcare provider about your medical condition or treatment. Talk with your healthcare provider if there is something you do not understand or want to learn more about. What is the most important information I should know about fluoxetine capsules?

Fluoxetine capsules and other antidepressant medicines may cause serious side effects, including:

1. Suicidal thoughts or actions:

- Fluoxetine capsules and other antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, or young adults within the first few months of treatment or when the dose is changed.
- Depression or other serious mental illnesses are the most important causes of suicidal thoughts or actions.
- Watch for these changes and call your healthcare provider right away if you notice:
- New or sudden changes in mood, behavior, actions, thoughts, or feelings, especially if severe.
- Pay particular attention to such changes when fluoxetine capsules is started or when the dose is changed.

Keep all follow-up visits with your healthcare provider and call between visits if you are worried about symptoms.

Call your healthcare provider right away if you have any of the following symptoms, or call 911 if an emergency, especially if they are new, worse, or worry you:

attempts to commit suicide

- acting on dangerous impulses
- acting aggressive or violent
- thoughts about suicide or dying
- new or worse depression
- new or worse anxiety or panic attacks
- feeling agitated, restless, angry or irritable
- trouble sleeping
- an increase in activity or talking more than what is normal for you • other unusual changes in behavior or mood

Call your healthcare provider right away if you have any of the following symptoms, or call 911 if an emergency. Fluoxetine capsules may be associated with these serious side effects:

2. Serotonin Syndrome. This condition can be life-threatening and

• Do not start fluoxetine capsules if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your physician.

People who take fluoxetine capsules close in time to an MAOI may have serious or even life-threatening side effects. Get medical help right away if you have any of these symptoms:

take Mellaril[®] (thioridazine). Do not take Mellaril[®] within 5 weeks

of stopping fluoxetine capsules because this can cause serious heart

• take the antipsychotic medicine pimozide (Orap®) because this can

What should I tell my healthcare provider before taking fluoxetine

• Medicines used to treat mood, anxiety, psychotic or thought disorders,

• Over-the-counter supplements such as tryptophan or St. John's Wort

• are pregnant or plan to become pregnant. It is not known if fluoxetine

capsules will harm your unborn baby. Talk to your healthcare provider about

• are breast-feeding or plan to breast-feed. Some fluoxetine capsules may

pass into your breast milk. Talk to your healthcare provider about the best

Tell your healthcare provider about all the medicines that you take,

including prescription and non-prescription medicines, vitamins, and

herbal supplements. Fluoxetine capsules and some medicines may

interact with each other, may not work as well, or may cause serious side

Your healthcare provider or pharmacist can tell you if it is safe to take

fluoxetine capsules with your other medicines. Do not start or stop

any medicine while taking fluoxetine capsules without talking to your

If you take fluoxetine capsules, you should not take any other medicines

Take fluoxetine capsules exactly as prescribed. Your healthcare provider

may need to change the dose of fluoxetine capsules until it is the right dose

If you miss a dose of fluoxetine capsules, take the missed dose as soon as

and take your next dose at the regular time. Do not take two doses of

If you take too much fluoxetine capsules, call your healthcare provider or

Fluoxetine capsules can cause sleepiness or may affect your ability to make

decisions, think clearly, or react quickly. You should not drive, operate heavy

machinery, or do other dangerous activities until you know how fluoxetine

• See "What is the most important information I should know about

• Problems with blood sugar control. People who have diabetes and take

fluoxetine capsules may have problems with low blood sugar while

taking fluoxetine capsules. High blood sugar can happen when fluoxetine

capsules is stopped. Your healthcare provider may need to change the

dose of your diabetes medicines when you start or stop taking fluoxetine

Common possible side effects in people who take fluoxetine capsules include:

loss of appetite, diarrhea, indigestion, nausea or vomiting, weakness, or dry mouth

• possible slowed growth rate and weight change. Your child's height and

Tell your healthcare provider if you have any side effect that bothers you or

that does not go away. These are not all the possible side effects of fluoxetine

CALL YOUR DOCTOR FOR MEDICAL ADVICE ABOUT SIDE EFFECTS. YOU

Store fluoxetine capsules at 20° to 25°C (68° to 77°F); excursions permitted

Keep fluoxetine capsules and all medicines out of the reach of

Medicines are sometimes prescribed for purposes other than those listed

in a Medication Guide. Do not use fluoxetine capsules for a condition for

which it was not prescribed. Do not give fluoxetine capsules to other

This Medication Guide summarizes the most important information about

fluoxetine capsules. If you would like more information, talk with your

healthcare provider. You may ask your healthcare provider or pharmacist

for information about fluoxetine capsules that is written for healthcare

For more information about fluoxetine capsules call Hetero Labs Limited

Inactive ingredients: pregelatinized starch (maize [corn]), colloidal silicon

dioxide, gelatin, sodium lauryl sulphate, FD&C Blue #1, FD&C Red #3, and

titanium dioxide. In addition, 20 mg capsules also contains D&C Yellow

#10 and 10 mg capsules also contains FD&C Yellow #6. The capsules are

printed with edible ink containing black iron oxide, potassium hydroxide,

Symbyax[®] and Sarafem[®] are registered trademarks of Eli Lilly and Company.

Jantoven[®] is a registered trademark of Upsher-Smith Laboratories Inc.

This Medication Guide has been approved by the U.S. Food and Drug

8/11/16 5:15 PM

people, even if they have the same condition. It may harm them.

to 15° to 30°C (59° to 86°F). [see USP Controlled Room Temperature].

capsules. For more information, ask your healthcare provider or pharmacist.

weight should be monitored during treatment with fluoxetine capsules.

MAY REPORT SIDE EFFECTS TO THE FDA AT 1-800-FDA-1088.

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capsules affects you. Do not drink alcohol while using fluoxetine capsules.

poison control center right away, or get emergency treatment.

What are the possible side effects of fluoxetine capsules?

Fluoxetine capsules may cause serious side effects, including:

What should I avoid while taking fluoxetine capsules?

you remember. If it is almost time for the next dose, skip the missed dose

the benefits and risks of treating depression during pregnancy.

way to feed your baby while taking fluoxetine capsules.

that contain fluoxetine hydrochloride including:

How should I take fluoxetine capsules?

fluoxetine capsules at the same time.

• Feeling anxious or trouble sleeping

Other side effects in children and adolescents include:

abnormal increase in muscle movement or agitation

How should I store fluoxetine capsules?

• Keep fluoxetine capsules away from light.

Keep fluoxetine capsules bottle closed tightly.

General information about fluoxetine capsules

What are the ingredients in fluoxetine capsules?

propylene glycol, shellac and strong ammonia solution.

Mellaril® is a registered trademark of Novartis AG Corporation.

Orap[®] is a registered trademark of Teva Pharmaceuticals USA.

Coumadin[®] is a registered trademark of Bristol Myers Souibb.

Zyprexa[®] is a registered trademark of Eli Lilly and Company.

Active ingredient: fluoxetine hydrochloride, USP

fluoxetine capsules?

capsules.

unusual dreams

sexual problems

flu symptoms

vawning

sweating

hot flashes

nose bleed

children.

professionals.

Administration.

Manufactured for:

Manufactured by:

Rev. August 2016

USA

Piscataway, NJ 08854

Hauppauge, NY 11788

Camber Pharmaceuticals, Inc.

ScieGen Pharmaceuticals Inc.

at 866-495-1995.

increased thirst

• urinating more often

heavy menstrual periods

rash

• feeling tired or fatigued

sinus infection or sore throat

feeling anxious or nervous

• change in sleep habits

tremor or shaking

Fluoxetine capsules may be taken with or without food.

including tricyclics, lithium, buspirone, SSRIs, SNRIs, MAOIs or antipsychotics

Before starting fluoxetine capsules, tell your healthcare provider if you:

high fever

confusion

stiff muscles

• uncontrolled muscle spasms

loss of consciousness (pass out)

rhythm problems or sudden death.

capsules? Ask if you are not sure.

• Electroconvulsive therapy (ECT)

have or had seizures or convulsions

have low sodium levels in your blood

• have bipolar disorder or mania

have or had bleeding problems

have a history of a stroke

have high blood pressure

healthcare provider first.

effects.

Symbyax

Sarafem

for you.

Prozac Weekly

• Are taking certain drugs or treatments such as:

• Triptans used to treat migraine headache

cause serious heart problems.

Tramadol and fentanyl

• have liver problems

have kidney problems

have heart problems

rapid changes in heart rate or blood pressure

carefully evaluate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of fluxetine (e.g., development of tolerance, incrementation of dose, drug-seeking behavior). 10 OVERDOSAGE

10.1 Human Experience

Worldwide exposure to fluoxetine hydrochloride is estimated to be over 38 million patients (circa 1999). Of the 1578 cases of overdose involving fluoxetine hydrochloride, alone or with other drugs, reported from this population, there were 195 deaths. Among 633 adult patients who overdosed on fluoxetine hydrochloride alone, 34 resulted in a fatal outcome, 378 completely recovered, and 15 patients experienced sequelae after overdosage, including abnormal accommodation, abnormal gait, confusion, unresponsiveness, nervousness, pulmonary dysfunction, vertigo, tremor, elevated blood pressure, impotence, movement disorder, and hypomania. The remaining 206 patients had an unknown outcome. The most common signs and symptoms associated with and hybritalia. The tentaming zoo patients had an unknown outcome, the most common symptom as spontated with non-fatal overdosage were seizures, somnolence, nausea, tachycardia, and vomiting. The largest known ingestion of fluoxetine hydrochloride in adult patients was 8 grams in a patient who took fluoxetine alone and who subsequently recovered. However, in an adult patient who took fluoxetine alone, an ingestion as low as 520 mg has been associated with lethal outcome, but causality has not been established.

Among pediatric patients (ages 3 months to 17 years), there were 156 cases of overdose involving fluoxetine alone or in combination with other drugs. Six patients died, 127 patients completely recovered, 1 patient experienced renal failure, and 22 patients had an unknown outcome. One of the six fatalities was a 9-year-old boy who had a history of OCD. Tourette's syndrome with tics, attention deficit disorder, and fetal alcohol syndrome. He had been receiving 100 mg of fluoxetine daily for 6 months in addition to clonidine, methylphenidate, and promethazine. Mixed-drug ingestion or other methods of suicide complicated all 6 overdoses in children that resulted in fatalities. The largest ingestion in pediatric patients was 3 grams which was nonlethal. Other important adverse reactions reported with fluxetine overdose (single or multiple drugs) include coma, delirium, ECG abnormalities (such as nodal rhythm, QT interval prolongation and ventricular arrhythmias, including Torsades de Pointes-type arrhythmias), hypotension, mania, neuroleptic malignant syndrome-like reactions, pyrexia, stupor, and syncope.

10.2 Animal Experience

Studies in animals do not provide precise or necessarily valid information about the treatment of human overdose. However, animal experiments can provide useful insights into possible treatment strategies.

The oral median lethal dose in rats and mice was found to be 452 and 248 mg/kg, respectively. Acute high oral doses produced hyperirritability and convulsions in several animal species.

Among 6 dogs purposely overdosed with oral fluoxetine, 5 experienced grand mal seizures. Seizures stopped immediately upon the bolus intravenous administration of a standard veterinary dose of diazepan. In this short-term study, the lowest plasma concentration at which a seizure occurred was only twice the maximum plasma concentration seen in humans taking 80 mg/ day, chronically.

In a separate single-dose study, the ECG of dogs given high doses did not reveal prolongation of the PR, QRS, or QT intervals. Tachycardia and an increase in blood pressure were observed. Consequently, the value of the ECG in predicting cardiac toxicity is unknown. Nonetheless, the ECG should ordinarily be monitored in cases of human overdose [see Overdosage (10.3)]. 10.3 Management of Overdose.

For current information on the management of fluoxetine overdose, contact a certified poison control center (1-800-222-1222 or www.poison.org). Treatment should consist of those general measures employed in the management of overdosage with any drug. Consider the possibility of multi-drug overdose. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. Use general supportive and

symptomatic measures. Induction of emesis is not recommended.

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 fluoxetine are known. A specific caution involves patients who are taking or have recently taken fluoxetine and might ingest excessive quantities of

a TCA. 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 Interactions (7.7)]. For specific information about overdosage with olanzapine and fluoxetine in combination, refer to the Overdosage section of the Symbyax package insert.

11 DESCRIPTION

Fluoxetine capsules. USP are a selective serotonin reuptake inhibitor for oral administration. It is also marketed for The treatment of premenstrual dyspheric disorder (Sarafem[®], fluoxtine hydrochloride). It is designated (±)-N-methyl-3-phenyl-3-[(α,α,α -trifluoro-*p*-tolyl)oxy]propylamine hydrochloride and has the empirical formula of $C_{17}H_{18}F_{28}N0$ -HCl. Its molecular weight is 345.79. The structural formula is:

F₃C - O-CHCH₂CH₂NHCH₃ • HCl

Fluoxetine hydrochloride, USP is a white to off-white crystalline powder with a solubility of 14 mg/mL in water. Each capsule contains fluoxetine hydrochloride equivalent to 10 mg (32.3 µmol), 20 mg (64.7 µmol), or 40 mg (129.3 µmol) of fluoxetine. The capsules also contain the following inactive ingredients: pregelatinized strich (maize [corn]), colloidal silicon dioxide, gelatin, sodium lauryl sulphate, FD&C Blue #1, FD&C Red #3, and titanium dioxide. In addition, 20 mg capsules also contains D&C Yellow #10 and 10 mg capsules also contains FD&C Yellow #6. The capsules are printed with dible ink containing black iron oxide, potassium hydroxide, propylene glycol, shellac and strong ammonia solution 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Although the exact mechanism of fluoxetine is unknown, it is presumed to be linked to its inhibition of CNS neuronal uptake of serotonin.

12.2 Pharmacodynamics

Studies at clinically relevant doses in man have demonstrated that fluoxetine blocks the uptake of serotonin into human platelets. Studies in animals also suggest that fluoxetine is a much more potent uptake inhibitor of serotonin than of norepinephrine

Antagonism of muscarinic, histaminergic, and α₁-adrenergic receptors has been hypothesized to be associated with various anticholinergic, sedative, and cardiovascular effects of classical tricyclic antidepressant (TCA) drugs. Fluoxetine binds to these and other membrane receptors from brain tissue much less potently in vitro than do the tricyclic drugs. 12.3 Pharmacokinetics

Systemic Bioavailability — In man, following a single oral 40 mg dose, peak plasma concentrations of fluoxetine From 15 to 55 ng/mL are observed after 6 to 8 hours. Food does not appear to affect the systemic bioavailability of fluoxetine, although it may delay its absorption by 1 to 2 hours,

which is probably not clinically significant. Thus, fluoxetine may be administered with or without food. *Protein Binding* — Over the concentration range from 200 to 1000 ng/mL, approximately 94.5% of fluoxetine is bound *in vitro* to human serum proteins, including albumin and α_i -glycoprotein. The interaction between fluoxetine and other highly

protein-bound drugs has not been fully evaluated, but may be important.

Enantiomers — Fluoxetine is a racemic fol/50) of *R*-fluoxetine and *S*-fluoxetine enantiomers. In animal models, both enantiomers are specific and potent serotonin uptake inhibitors with essentially equivalent pharmacologic activity. The *S*-fluoxetine enantiomer is eliminated more slowly and is the predominant enantiomer present in plasma at steady state. Metabolism — Fluoxetine is extensively metabolized in the liver to norfluoxetine and a number of other unidentified metabolites. The only identified active metabolite, norfluoxetine, is formed by demethylation of fluoxetine. In animal models, *S*-norfluoxetine is a potent and selective inhibitor of serotonin uptake and has activity essentially equivalent to *R*- or *S*-fluoxetine. *R*-norfluoxetine is significantly less potent than the parent drug in the inhibition of serotonin uptake. The primary route of elimination appears to be hepatic metabolism to inactive metabolites excreted by the kidney. Variability in Metabolism — A subset (about 7%) of the population has reduced activity of the drug metabolizing enzyme

cytochrome P450 2D6 (CYP2D6). Such individuals are referred to as "poor metabolizers" of drugs such as debrisoquin, dextromethorphan, and the TCAs. In a study involving labeled and unlabeled enantiomers administered as a racemate, these individuals metabolized S-fluoxetine at a slower rate and thus achieved higher concentrations of S-norfluoxetine at steady state were lower. The metabolism of *R*-fluoxetine in these poor metabolizers appears normal. When compared with normal metabolizers, the total sum at steady state of the plasma concentrations of the 4 active enantiomers was not significantly greater among poor metabolizers. Thus, the net pharmacodynamic activities were essentially the same. Alternative, nonsaturable pathways (non-2D6) also contribute to the metabolism of fluoxetine. This explains how fluoxetine achieves a steady-state concentration rather than increasing without limit.

Because fluxetine's metabolism, like that of a number of other compounds including TCAs and other selective serotonin reuptake inhibitors (SSRIs), involves the CYP2D6 system, concomitant therapy with drugs also metabolized by this enzyme system (such as the TCAs) may lead to drug interactions [see Drug Interactions (7.7)].

Accumulation and Slow Elimination — The relatively slow elimination of fluxetine (elimination half-life of 1 to 3 days after acute administration and 4 to 6 days after chronic administration) and its active metabolite, norfluxetine (elimination half-life of 4 to 16 days after acute and chronic administration), leads to significant accumulation of these active species in chronic use and delayed attainment of steady state, even when a fixed dose is used [see Warnings and Precautions (5.14)]. After 30 days of dosing at 40 mg/day, plasma concentrations of fluoxetine in the range of 91 to 302 ng/mL and norfluoxetine in the range of 72 to 258 ng/mL have been observed. Plasma concentrations of fluoxetine were higher than those predicted by single-dose studies, because fluoxetine's metabolism is not proportional to dose. Norfluoxetine, however, appears to have in the problem of the

The long elimination half-lives of fluoxetine and norfluoxetine assure that, even when dosing is stopped, active drug substance will persist in the body for weeks (primarily depending on individual patient characteristics, previous dosing regimen, and length of previous therapy at discontinuation). This is of potential consequence when drug discontinuation is required or when drugs are prescribed that might interact with fluoxetine and norfluoxetine following the discontinuation of fluoxetin

12.4 Specific Population

Liver Disease — As might be predicted from its primary site of metabolism, liver impairment can affect the elimination of fluoxetine The elimination half-life of fluoxetine was prolonged in a study of cirrhotic patients, with a mean of 7.6 days compared with the

1788 Pack Insert for Fluoxetine Capsules USP, (ScieGen-Camber) 905-08-2016.indd 2

roup analyses on outcome did not suggest any differential responsiveness on the basis of age or gende 14.3 Bulimia Nervosa

The effectiveness of fluoxetine for the treatment of bulimia was demonstrated in two 8-week and one 16-week, multicenter, parallel group studies of adult outpatients meeting DSM-III-R criteria for bulimia. Patients in the 8-week studies received either 20 or 60 mg/day of fluoxetine or placebo in the morning. Patients in the 16-week study received a fixed fluoxetine does 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 7 to 10 per week and 5 to 9 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. 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 Hamilton Depression Rating Scale. 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 related 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 observation for relapse. Response during the single-blind phase was defined by having achieved at least a 50% decrease in vomiting frequency compared with baseline. Relapse during the double-blind phase was defined as a persistent return to baseline vomiting frequency or physician judgment that the patient had relapsed. Patients receiving continued fluoxetine 60 mg/day experienced a significantly longer time to relapse over the ubsequent 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-IV), with or without agorapholia. 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 to 60 mg/day on the basis of clinical response and tolerability. A 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 study 1 (u-2) 4 matchine of weak a 12 weak measure uses study i nuclear was minated at to ingray to the mat weak, after which patients were dosed in a range of 20 to 60 mg/day on the basis of clinical response and tolerability. A statistically significantly greater percentage of fluoxetine-treated patients were free from panic attacks at endpoint than placeboeated patients, 62% versus 44%, respectively

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied Fluoxetine cansules. USP 10 md** are white to off white powder filled in size "4" hard gelatin capsules with opaque light e colored cap and opaque light orange colored body imprinted "SG" on cap and "113" on body with black ink. NDC 31722-903-30: Bottles of 30 capsules NDC 31722-903-01: Bottles of 100 capsules NDC 31722-903-05: Bottles of 500 capsules NDC 31722-903-10: Bottles of 1000 capsules Fluoxetine Capsules USP, 20 mg** are white to off white powder filled in size "2" hard gelatin capsules with opaque light blue colored cap and opaque light green colored body imprinted "SG" on cap and "114" on body with black ink NDC 31722-904-30: Bottles of 30 capsules NDC 31722-904-01: Bottles of 100 capsules NDC 31722-904-05: Bottles of 500 capsules NDC 31722-904-10: Bottles of 1000 capsules Fluoxetine Capsules USP, 40 mg** are white to off white powder filled in size "0" hard gelatin capsules with opaque light blue colored cap and opaque white colored body imprinted "SG" on cap and "115" on body with black ink. NDC 31722-905-30: Bottles of 30 capsules NDC 31722-905-01: Bottles of 100 capsules NDC 31722-905-05: Bottles of 500 capsules etine base equivalent 16.2 Storage and Handling Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room 17 PATIENT COUNSELING INFORMATION See the FDA-approved Medication Guide. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking fluoxetine as monotherapy or in combination with olanzapine. When using fluoxetine and olanzapine in combination, also refer to the Patient Counseling Information section of the

package insert for Symbyax. 17.1 General Information

lealthcare providers should instruct their patients to read the Medication Guide before starting therapy with fluoxetine and to reread 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 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

When using fluoxetine and olanzapine in combination, also refer to the Medication Guide for Symbyax.

17.2 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 indicate a need for very close monitoring and possibly changes in the medication [see Box Warning and Warnings and Precautions (5.1)].

17.3 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, fentanyl, lithium, tramadol, buspirone, tryptophan, and St. John's Wort [see Contraindications (4.1), Warnings and Precautions (5.2), and Drug Interactions (7.3)].

Patients should be advised of the signs and symptoms associated with serotonin syndrome that may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular changes (e.g., tremor, rigidity, myoclonus, hyperreflexia to conclusion, activities, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be cautioned to seek medical care immediately if they experience these symptoms.

17.4 Allergic Reactions and Rash

Patients should be advised to notify their physician if they develop a rash or hives *(see Warnings and Precautions (5.3))*. Patients should also be advised of the signs and symptoms associated with a severe allergic reaction, including swelling of the face, eyes, or mouth, or have trouble breathing. Patients should be cautioned to seek medical care immediately if they merience these symptoms

17.5 Abnormal Bleeding

Patients should be cautioned about the concomitant use of fluoxetine and NSAIDs, aspirin, warfarin, or other drugs that ration should be calculated about the concommant use of house the individual should as should be and the angle 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)]. Patients should be advised to call their doctor if they experience any increased or unusual bruising or bleeding while taking

17.6 Angle-Closure Glaucoma

Patients should be advised that taking fluoxetine can cause mild pupillary dilation, which in susceptible individuals, can lead to an episode of angle-closure glaucoma. Ye nexisting glaucoma is almost always open-angle glaucoma because angle-closure glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle-closure glaucoma. Patients may wish to be examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible. [See Warnings and Precautions (5.8)] 17.7 Hyponatremia

Patients should be advised that hyponatremia has been reported as a result of treatment with SNRIs and SSRIs, including

fluxetine. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion weakness, and unsteadiness, which may lead to falls. More severe and/or acute cases have been associated with cination, syncope, seizure, coma, respiratory arrest, and death [see Warnings and Precautions (5.9)]. 17.8 OT Prolongation

ints should be advised that QT interval prolongation and ventricular arrhythmia including Torsades de

may include:

agitation, hallucinations, coma or other changes in mental status

- coordination problems or muscle twitching (overactive reflexes)
- racing heartbeat, high or low blood pressure
- sweating or fever
- nausea, vomiting, or diarrhea
- muscle rigidity
- dizziness
- flushing
- tremor
- seizures

3. Severe allergic reactions:

trouble breathing

• swelling of the face, tongue, eyes or mouth

 rash, itchy welts (hives) or blisters, alone or with fever or joint pain 4. Abnormal bleeding: Fluoxetine capsules and other antidepressant medicines may increase your risk of bleeding or bruising, especially if you

take the blood thinner warfarin (Coumadin[®], Jantoven[®]), a non-steroidal anti-inflammatory drug (NSAIDs, like ibuprofen or naproxen), or aspirin. 5. Visual problems:

eve pain

changes in vision

• swelling or redness in or around the eye Only some people are at risk for these problems. You may want to undergo an eye examination to see if you are at risk and receive preventative treatment

if you are. 6. Seizures or convulsions

7. Manic episodes:

- greatly increased energy
- severe trouble sleeping racing thoughts
- reckless behavior
- unusually grand ideas

excessive happiness or irritability

talking more or faster than usual

8. Changes in appetite or weight. Children and adolescents should have

• headache, sweating, nausea, dizziness

What are fluoxetine capsules?

choices with your healthcare provider.

Fluoxetine capsules are used to treat:

Obsessive Compulsive Disorder (OCD)

Major Depressive Disorder (MDD)

*Not approved for use in children

getting better with fluoxetine capsules treatment.

unless directed to do so by your physician.

Who should not take fluoxetine capsules?

Do not take fluoxetine capsules if you:

incredients in fluoxetine capsules.

Bulimia Nervosa*

olanzapine (Zyprexa)

Panic Disorder*

linezolid.

۲

· electric shock-like sensations, shaking, confusion

height and weight monitored during treatment. 9. Low salt (sodium) levels in the blood. Elderly people may be at greater risk for this. Symptoms may include:

headache

weakness or feeling unsteady

• confusion, problems concentrating or thinking or memory problems 10. Changes in the electrical activity of your heart (QT prolongation and ventricular arrhythmia including Torsades de Pointes). This condition can be life threatening. The symptoms may include:

Do not stop fluoxetine capsules without first talking to your healthcare

Stopping fluoxetine capsules too quickly may cause serious symptoms

• anxiety, irritability, high or low mood, feeling restless or changes in sleep habits

Fluoxetine capsules are a prescription medicine used to treat depression. It

is important to talk with your healthcare provider about the risks of treating

depression and also the risks of not treating it. You should discuss all treatment

• Depressive episodes associated with Bipolar I Disorder, taken with

Treatment Resistant Depression (depression that has not gotten better

Talk to your healthcare provider if you do not think that your condition is

• are allergic to fluoxetine hydrochloride or any of the ingredients in fluoxetine

capsules. See the end of this Medication Guide for a complete list of

• take a Monoamine Oxidase Inhibitor (MAOI). Ask your healthcare provider

• Do not take an MAOI within 5 weeks of stopping fluoxetine capsules

or pharmacist if you are not sure if you take an MAOI, including the antibiotic

with at least 2 other treatments), taken with olanzapine (Zyprexa)*

- fast, slow, or irregular heartbeat
- shortness of breath dizziness or fainting

provider.

including:



Customer Name:			
Customer Rep:			
Date Submitted:			
	JOB INFO)	
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Type: New Design ()	Reprint ()		
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JOB TYPE: () Insert	() Med Guide	() Patient Guide	
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Disorder Placebo-Controlled Clinical Trials

Body System/ Adverse

Cardiovascular System

Body as a Whole

leadache

Flu syndrome

Vasodilatatio

Diarrhea

Dry mouth

Dyspepsia

Flatulence

Metabolic and

Weight loss

somnia

Anxiety Somnolence

Dizziness remor

Sweating

Special Senses

clinical trials.

with discontinuation was collected.

Priapism has been reported with all SSRIs.

nquire about such possible side effects.

Special Ser

to drug exposure.

7 DRUG INTERACTIONS

7.2 CNS Acting Drugs

evels of thio

[see Contraindications (4.2)].

Panic Disorde

Fluovetine Placebo

12

6

10

5

2

2

significance

7.8 Drugs that Prolong the QT Interval

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

(5.11), Drug Interactions (7.7), and Clinical Pharmacology (12.3)].

or enhancement, etc.) is a possibility. 7.1 Monoamine Oxidase Inhibitors (MAOI)

liscontinued [see Warnings and Precautions (5.7)].

7.5 Electroconvulsive Therapy (ECT)

6.3 Postmarketing Experience

or (5) which occurred at a rate equal to or less than placebo

Respiratory System — Rare: larynx edema. Skin and Appendages — Infrequent: alopecia; Rare: purpuric rash

es — Frequent: taste perversion: Infrequent: mydriasis.

forsades de Pointes- type arrhythmias), vaginal bleeding, and violent behaviors¹.

7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDS, Aspirin, Warfarin)

Urogenital System — Frequent: micturition disorder: Infrequent: dysuria, gynecological bleeding²

and Panic Disorder Placebo-Controlled Clinical Trials

Major

Disorde

(N=392)

(1%)

Abnormal vision

Pruritus

Incidence less than 1%

Disorder clinical trials.

Major

order, OCD,

Bulimia, and

Panic Disorde

(N=1533)

Anxiety (1%)

Rash

Libido decreased

hinking abnorma

Respiratory System

Skin and Appendages

Nervousness

Nervous System

Nutritional Disorders

Digestive System

Asthenia

Fever

TEMPLATE: #1

Width: 17

Length: 24

Grain Direction: 24

Final Fold Down: 1.25 x 1.25

HIGHLIGHTS OF PRESCRIBING INFORMATION Where highlights do not include all the information

needed to use fluoxetine capsules. USP safely and effectively. See full ng information for fluoxetin capsules. USP

FLUOXETINE capsules, USP for oral use

Initial U.S. Approval: 1987 WARNING: SUICIDAL THOUGHTS AND BEHAVIORS See full prescribing information for complete boxed warning Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antidepressants (5.1). Monitor for worsening and emergence of suicidal thoughts and behaviors (5.1). When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert fo

Symbyax. --- INDICATIONS AND USAGE-Fluoxetine capsules are a selective serotonin reuptake inhibitor indicated for Acute and maintenance treatment of Major Depressive Disorder (MDD) (1

Acute and maintenance treatment of Obsessive Compulsive Disorder (OCD) (1) Acute and maintenance treatment of Bulimia Nervosa (1)

 Acute treatment of Panic Disorder, with or without agoraphobia (1) Fluoxetine capsules and olanzapine in combination for treatment of:

Acute Depressive Episodes Associated with Bipolar I Disorder (1)

• Treatment Resistant Depression (1)

-- DOSAGE AND ADMINISTRATION-

Indication	Adult	Pediatric
MDD (2.1)	20 mg/day in am (initial dose)	10 to 20 mg/day (initial dose)
OCD (2.2)	20 mg/day in am (initial dose)	10 mg/day (initial dose)
Bulimia Nervosa (2.3)	60 mg/day in am	
Panic Disorder (2.4)	10 mg/day (initial dose)	
Depressive Episodes Associated with Bipolar I Disorder (2.5)	Oral in combination with olanzapine: 5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)	Oral in combination with olanzapine: 2.5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)
Treatment Resistant Depression (2.6)	Oral in combination with olanzapine: 5 mg of oral olanzapine and 20 mg of fluoxetine once daily (initial dose)	

• A lower or less frequent dosage should be used in patients with hepatic impairment, the elderly, and for patients with concurrent disease or on multiple concomitant medications (2

Fluoxetine cansules and olanzanine in combination

- Decage adjustments should be made with the individual components according to efficacy and tolerability (2.5, 2.6) Fluoxetine monotherapy is not indicated for the treatment of Depressive Episodes associated with Bipolar I Disorder or
- treatment resistant depression (2.5, 2.6) Safety of the coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in adults
- (2.3, 2.0) Safety of the coadministration of doses above 12 mg olanzapine with 50 mg fluoxetine has not been evaluated in children and adolescents ages 10 to 17 (2.5)
- -- DOSAGE FORMS AND STRENGTHS--

Capsules: 10 mg, 20 mg, and 40 mg (3)

- --CONTRAINDICATIONS--- Serotonin Syndrome and MAOIs: Do not use MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks
 of stopping treatment with fluoxetine. Do not use fluoxetine within 14 days of stopping an MAOI intended to treat psychiatric
 disorders. In addition, do not start fluoxetine in a patient who is being treated with linezolid or intravenous methylene blue (4.1) Pimozide: Do not use. Risk of QT prolongation and drug interaction (4.2, 5.11, 7.7, 7.8)
- Thioridazine: Do not use. Risk of QT interval prolongation and elevated thioridazine plasma levels. Do not use thioridazine within 5 weeks of discontinuing fluoxetine. Do not use thioridazine within 5 weeks of discontinuing fluoxetine (4.2, 5.11,
- When using fluoxetine and olanzapine in combination, also refer to the Contraindications section of the package insert for Symbyax (4)

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6	ADVERSE REACTIONS 6.1 Clinical Trials Experience 6.2 Other Reactions 6.3 Postmarketing Experience
7	DRUG INTERACTIONS 7.1 Monoamine Oxidase Inhibitors (MAOI) 7.2 CVIE Articine Device

WARNINGS AND PRECAUTIONS · Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults: Monitor for clinical worsening and suicidal thinking and behavior (5.1)

Serotonin Syndrome: Serotonin syndrome has been reported with SSRIs and SNRIs, including fluoxetine, both when taken alone, but especially when co-administered with other serotonergic agents (including triptans, tricyclic antidepressants fentanyl, lithium, tramadol, tryptophan, buspirone and St. John's Wort). If such symptoms occur, discontinue fluoxetine and initiate supportive treatment. If concomitant use of fluoxetine with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. (5.2)

- Allergic Reactions and Rash: Discontinue upon appearance of rash or allergic phenomena (5.3)
- Activation of Mania/Pyomania: Screen for Biopar Disorder and monitor for mania/hypomania (5.4)
 Seizures: Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold (5.5) Altered Appetite and Weight: Significant weight loss has occurred (5.6)
- Abnormal Beeding: May increase the risk of bleeding. Use with NSADs, aspirin, warfarin, or other drugs that affect coagulation may potentiate the risk of gastrointestinal or other bleeding (5.7)
- Angle-Closure Glaucoma: Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.8)
- Hyponatremia: Has been reported with fluoxetine in association with syndrome of inappropriate antidiuretic hormone (SIADH). Consider discontinuing if symptomatic hyponatremia occurs (5.9)
- Anxiety and Insomnia: May occur (5.10)
- QT Prolongation: QT prolongation and ventricular arrhythmia including Torsades de Pointes have been reported with fluoxetine use. Use with caution in conditions that predispose to arrhythmias or increased fluoxetine exposure. Use cautiously in patients with risk factors for QT prolongation (4.2, 5.11, 7.7, 7.8, 10.1)
- Potential for Cognitive and Motor Impairment: Has potential to impair judgment, thinking, and motor skills. Use caution when operating machinery (5.13)
- *Long Half-Life:* Changes in dose will not be fully reflected in plasma for several weeks (5.14)

Fluxetine and Olarzapine in Combination: When using fluxetine and olarzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax (5.16)

-----ADVERSE REACTIONS-

Most common adverse reactions (\geq 5% and at least twice that for placebo) associated with: Major Depressive Disorder, Obsessive Compulsive Disorder, Bulimia, and Panic Disorder: abnormal dreams, abnormal eiaculation. norexia, anxiety, asthenia, diarrhea, dry mouth, dyspepsia, flu syndrome, impotence, insomna, libido decreased, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilatation, and yawn (6.1)

Fluoxetine and olanzanine in combination – Also refer to the Adverse Beactions section of the package insert for Symboxy (6 To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 866-495-1995 or FDA at

1-800-FDA-1088 or www.fda.gov/medwatch ----DRUG INTERACTION

Monoamine Oxidase Inhibitors (MAOIs): (2.9, 2.10, 4.1, 5.2)

Monoamme Oxtuase minious (MAOIS), (2:3, 2:10, 4:1, 3:2)
 Drugs Metabolized by CYP2D6: Fluoxetine is a potent inhibitor of CYP2D6 enzyme pathway (7:7)
 Tricyclic Antidepressants (TCAs): Monitor TCA levels during coadministration with fluoxetine or when fluoxetine has been

recently discontinued (5.2, 7.7)

• CNS Acting Drugs: Caution should be used when taken in combination with other centrally acting drugs (7.2) Benzodiazepines: Diazepam - increased t1/2, alprazolam - further psychomotor performance decrement due to increased levels (7.7)

Antipsycotics: Potential for elevation of haloperidol and clozapine levels (7.7) Anticonvulsants: Potential for elevated phenytoin and carbamazepine levels and clinical anticonvulsant toxicity (7.7)

- Serotoneraic Druas: (2.9, 2.10, 4.1, 5.2)
- Drugs that Interfere with Hemostasis (e.g. NSAIDs, Aspirin, Warfarin): May potentiate the risk of bleeding (7.4) Drugs Tightly Bound to Plasma Proteins: May cause a shift in plasma concentrations (7.6, 7.7)

Olanzapine: When used in combination with fluoxetine, also refer to the Drug Interactions section of the package insert for ymbyax (7.7)

 Drugs that Prolong the QT Interval: Do not use fluoxetine with thioridazine or pimozide. Use with caution in combination with other drugs that prolong the QT interval (4.2, 5.11, 7.7, 7.8)

- -----USE IN SPECIFIC POPULATIONS--
- Pregnancy: Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risks to the fetus (8.1)
 Nursing Mothers: Breast feeding is not recommended (8.3)
 Pediatric Use: Stafty and effectiveness of fluoxetine in patients <8 years of age with Major Depressive Disorder and <7 years
 of age with OCD have not been established. Safety and effectiveness of fluoxetine and olanzapine in combination in patients
- <10 years of age for depressive episodes associated with Bipolar I Disorder have not been established. (8.4)
- Hepatic Impairment: Lower or less Stredge usboliated wini Dipolar Poise in a pairment: Lower or less Stredge usboliated wini Dipolar Poise in pairment: Lower or less Stredge usboliated wini Dipolar Poise in pairment: Lower or less Stredge usboliated wini Dipolar Poise in the internet set with circhosis (8.6)
 See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide

7.8 Drugs that Prolong the QT Interval

8 USE IN SPECIFIC POPULATIONS

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Geriatric Use

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14 CLINICAL STUDIES

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10.3 Management of Overdose

9 DRUG ABUSE AND DEPENDENCE

8.4

8.5

10 OVERDOSAGE

11 DESCRIPTION

Revised: 8/2016



625

Serotonin syndrom 1.25" H x 2.50" W tus changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tac.. iness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome.

CENTER FOLD

.625

The concomitant use of fluoxetine with MAOIs intended to treat psychiatric disorders is contraindicated. Fluoxetine should also The concomitant use of fluoxetine with MAOIs intended to treat psychiatric disorders is contraindicated. Fluoxetine should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking fluoxetine. Fluoxetine should be discontinued before initiating treatment with the MAOI [see Contraindications (4.1) and Dosage and Administration (2.9, 2.10)].

If concomitant use of fluxetine with other serotenergic drugs, i.e., triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, buspirone, tryptophan and St. John's Wort is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. Treatment with fluxetine and any concomitant serotonergic agents, should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.

5.3 Allergic Reactions and Rash

tine clinical trials, 7% of 10,782 patients developed various types of rashes and/or urticaria. Among the cases of rash and/or utication reported in premarketing clinical trials, almost a third were withdrawn from treatment because of the rash and/or systemic signs or symptoms associated with the rash. Clinical findings reported in association with rash include fever, leukocytosis, arthralgias, edema, carpal tunnel syndrome, respiratory distress, lymphadenopathy, proteinuria, and mild transaminase elevation Most patients improved promptly with discontinuation of fluoxetine and/or adjunctive treatment with antihistamines or steroids,

and all patients experiencing these reactions were reported to recover completely. In premarketing clinical trials, 2 patients are known to have developed a serious cutaneous systemic illness. In neither patient was there an unequivocal diagnosis, but one was considered to have a leveloped a serious cutaneous systemic illness. In neither patient was syndrome that was considered variously to be a vasculitis or erythema multiforme. Other patients have had systemic syndromes suggestive of serum sickness.

Since the introduction of fluoxetine, systemic reactions, possibly related to vasculitis and including lupus-like syndrome, have developed in patients with rash. Although these reactions are rare, they may be serious, involving the lung, kidney, or liver. Death has been reported to occur in association with these systemic reactions.

Anaphylactoid reactions, including bronchospasm, angioedema, laryngospasm, and urticaria alone and in combination, have been reported.

Pulmonary reactions, including inflammatory processes of varying histopathology and/or fibrosis, have been reported rarely. These reactions have occurred with dyspnea as the only preceding symptom.

Whether these systemic reactions and rash have a common underlying cause or are due to different etiologies or pathogenic processes is not known. Furthermore, a specific underlying immunologic basis for these reactions has not been identified. Upon appearance of rash or of other possibly allergic phenomena for which an alternative etiology cannot be identified. Upon uld be discontinued.

5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania

sive episode may be the initial presentation of Bipolar Disorder. It is generally believed (though not established A major depre A major depressive episode may be the mind a presentation of bipolar bisorder. It is generally believed (modg) not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for Bipolar Disorder. Whether any of the symptoms described for clinical worsening and suicide risk represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for Bipolar Disorder; such screening should include a detailed psychiatric history, including a family history of suicide. Bipolar Disorder, and depression. It should be noted that, fluoxetine and olanzanine in combination is approved for the acute treatment of depressive episodes associated with Bipola In the booking of the participation of the package insert for Symbyax). Fluoxetine monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder. In US placebo-controlled clinical trials for Major Depressive Disorder, mania/hypomania was reported in 0.1% of patients in the section of the treatment of the package insert for Symbyax and Proceedings and Pr

treated with fluoxetine and 0.1% of patients treated with placebo. Activation of mania/hypomania has also been reported in a small proportion of patients with Maior Affective Disorder treated with other marketed drugs effective in the treatment of Maior

In US placebo-controlled clinical trials for OCD, mania/hypomania was reported in 0.8% of patients treated with flucebo. No patients reported mania/hypomania in US placebo-controlled clinical trials for bulimia. In US

fluoxetine clinical trials, 0.7% of 10.782 patients reported mania/hypomania [see Use in Specific Populations (8.4)].

In US placebo-controlled clinical trials for Major Depressive Disorder, convulsions (or reactions described as possibly having been In US placebo-controlled clinical trials for Major Depressive Disorder, convulsions (or reactions described as possibly having been seizures) were reported in 0.1% of patients treated with fluoxetine and 0.2% of patients treated with placebo. No patients reported convulsions in US placebo-controlled clinical trials for either OCD or bulimia. In US fluoxetine clinical trials, 0.2% of 10,782 patients reported convulsions. The percentage appears to be similar to that associated with other marketed drugs effective in the treatment of Major Depressive Disorder. Fluoxetine should be introduced with care in patients with a history of seizures

5.6 Altered Appetite and Weight

Significant weight loss, especially in underweight depressed or bulimic patients, may be an undesirable result of treatment with fluoxetine

In US placebo-controlled clinical trials for Major Depressive Disorder, 11% of patients treated with fluoxetine and 2% of patients treated with placebo reported anorexia (decreased appetite). Weight loss was reported in 1.4% of patients treated with fluoxetine and in 0.5% of patients treated with placebo. However, only rarely have patients discontinued treatment with fluoxetine because of anorexia or weight loss (see Use in Specific Populations (8.4)).

In US placebo-controlled clinical trials for OCD, 17% of patients treated with fluoxetine and 10% of patients treated with placebo reported anorexia (decreased appetite). One patient discontinued treatment with fluoxetine because of anorexia [see Use in Specific Populations (8.4]].

In US placebo-controlled clinical trials for Bulimia Nervosa, 8% of patients treated with fluoxetine 60 mg and 4% of patients treated with placebo reported anorexia (decreased appetite). Patients treated with fluoxetine 60 mg on average lost 0.45 kg compared with a gain of 0.16 kg by patients treated with placebo in the 16-week double-blind trial. Weight change should be monitored

during therapy. 5.7 Abnormal Bleeding

SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal and boths including including including integration of biological to this role of biological studies controllar des of applicit, honselvour anti-inflammatic groups, warfarin, and other anti-coogulants may add to this risk. Case reports and epidemiological studies (case control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of fluoxetine and NSAIDs, aspirin,

warfarin, or other drugs that affect coagulation [see Drug Interactions (7.4)] 5.8 Angle-Closure Glaucoma

Angle-Closure Glaucoma — The pupillary dilation that occurs following use of many antidepressant drugs including fluoxetine may

trigger an angle-closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy

Hyponatremia has been reported during treatment with SNRIs and SSRIs, including fluoxetine. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported and appeared to be reversible when fluoxetine was discontinued. Elderly patients may be at greater risk of developing hyponatremia with SNRIs and SSRIs. Also, patients taking diuretics or who are otherwise volume depieted may be at greater risk (see Use in Specific Populations (8.5)). Discontinuation of fluoxetine should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which may lead to falls. More severe and/or acute cases have been associated with hallucination, syncope, seizure,

coma, respiratory arrest, and death. 5.10 Anxiety and Insomnia

In US placebo-controlled clinical trials for Major Depressive Disorder, 12% to 16% of patients treated with fluoxetine and 7% to 9% of patients treated with placebo reported anxiety, nervousness, or insomnia. In US placebox-controlled clinical trials for OCD, insominal was reported in 28% of patients treated with fluoxetine and in 22% of patients treated with placebo. Anxiety was reported in 14% of patients treated with fluoxetine and in 7% of patients treated with placebo.

In US placebo-controlled clinical trials for Bulimia Nervosa, insomnia was reported in 33% of patients treated with fluoxetine 60 mg and 13% of patients treated with placebo Apxiety and pervousness were reported respectively in 15% and 11% of patients Ing, and to so to participate a constraint of an and the source of the s

1% for fluoxetine in clinical trials collecting only a primary reaction associated with discontinuation) in US placebo-controlled fluoxetine clinical trials were anxiety (2% in OCD), insomnia (1% in combined indications and 2% in bulimia), and nervousness (1% in Major Depressive Disorder) [see Table 5].

5.11 QT Prolongation

Includes US data for Major Depressive Disorder, OCD, Bulimia, and Panic Disorder clinical trials, plus non-US data for Panic Disorder clinical trials

Denominator used was for males only (N=690 fluoxetine Major Depressive Disorder; N=410 placebo Major Depressive Disorder N=116 fluoxetine OCD: N=43 placebo OCD: N=14 fluoxetine bulimia: N=1 placebo bulimia: N=162 fluoxetine panic; N=121 placebo panic) Table 4: Treatment-Emergent Adverse Reactions: Incidence in Major Depressive Disorder, OCD, Bulimia, and Panic

Includes US data for Maior Depressive Disorder. OCD, bulimia, and Panic Disorder clinical trials, plus non-US data for Panic

Associated with discontinuation in Maior Depressive Disorder, OCD, bulimia, and Panic Disorder placebo-controlled clinical trials

(excluding data from extensions of trials) — Table 5 lists the adverse reactions associated with discontinuation in Major Depressive Disorder, oCD, builmia, and Paric Disorder discontinuation of fluoxetine ir reartment (incidence at least twice that for placebo and at least 1% for fluoxetine in clinical trials collecting only a primary reaction associated with discontinuation) in Major Depressive Disorder, OCD, builmia, and Panic Disorder clinical trials, plus non-US Panic

Table 5: Most Common Adverse Reactions Associated with Discontinuation in Major Depressive Disorder, OCD, Bulimia,

(N=450)

Insomnia (2%)

Includes US Major Depressive Disorder, OCD, bulimia, and Panic Disorder clinical trials, plus non-US Panic Disorder clinical trials

Other adverse reactions in pediatric patients (children and adolescents) — Treatment-emergent adverse reactions were collected in 322 pediatric patients (180 fluoxetine-treated, 142 placebo-treated). The overall profile of adverse reactions was generally

similar to that seen in adult studies, as shown in Tables 4 and 5. However, the following adverse reactions (excluding those which

The most common adverse reaction (incidence at least 1% for fluoxetine and greater than placebo) associated with

discontinuation in 3 pediatric placebo-controlled trials (N=418 randomized; 228 fluoxetine-treated; 190 placebo-treated) was mania/hypomania (1.8% for fluoxetine-treated, 0% for placebo-treated). In these clinical trials, only a primary reaction associated

Male and female sexual dysfunction with SSRIs — Although changes in sexual desire, sexual performance, and sexual satisfaction

Male and remate sexual dystunction with SSHs — 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 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 experience, and performance, cited in product labeling, are likely to underestimate their actual incidence. In patients enrolled in US Major Descreto IND and builtion longebe controlled divided liking unto the optic owned jide divided unto the patient owned biot owned biot.

Depressive Disorder, OCD, and bulimia placebo-controlled clinical trials, decreased libido was the only sexual side effect reported by at least 2% of patients taking fluoxetine (4% fluoxetine, <1% placebo). There have been spontaneous reports in women taking

While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely

iollowing is a list of treatment-emergent adverse reactions reported by patients treated with fluoxetine in clinical trials. This listing

is not intended to include reactions (1) already listed in previous tables or elsewhere in labeling, (2) for which a drug cause was

emote. (3) which were so general as to be uninformative. (4) which were not considered to have significant clinical implications

actions are classified by body system using the following definitions: frequent adverse reactions are those occurring in at least 100 patients; infrequent adverse reactions are those occurring in 1/100 to 1/1000 patients; rare reactions are those occurring fewer than 1/1000 patients

Body as a Whole — Frequent: chills; Infrequent: suicide attempt; Rare: acute abdominal syndrome, photosensitivity reaction.

Cardiovascular System — Infequent adaptation; Infequent: astructure duce interview advanting interview interview advanting interview interview advanting interview interview advanting int

WedDRA dictionary term from integrated database of placebo controlled trials of 15870 patients, of which 9673 patients received

Group term that includes individual MedDRA terms: cervix hemorrhage uterine, dysfunctional uterine bleeding, genital iemorrhage, menometrorrhagia, menorrhagia, metrorrhagia, polymenorrhea, postmenopausal hemorrhage, uterine hemo raginal hemorrhage. Adjusted for gender.

he following adverse reactions have been identified during post approval use of fluoxetine. Because these reactions are reported oluntarily from a population of uncertain size, it is difficult to reliably estimate their frequency or evaluate a causal relationship

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: aplastic anemia, atrial fibrillation¹, cataract, cerebrovascular accident¹, cholestatic jaundice, dyskinesia (including, for example, a case of buccal-lingual-masticatory

cerebrovascular accident', cholestatic jaundice, dyskinesia (including, tor 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), eosinophilic pneumonia', epidermal necrolysis, erythema multiforme, erythema nodosum, exfoliative dermatitis, galactorrhea, gynecomastia, heart arrest', hepatic failure/necrosis, hyperprolactinemia, hypoglycemia, immune-related hemolytic anemia, kidney failure, memory impairment, movement disorders developing in patients with risk factors including drugs associated with such reactions and worsening of pre-existing movement disorders, optic neuritis, pancreatitis', pancytopenia, pulmonary embolism, pulmonary hypertension, QT prolongation, Stevens-Johnson syndrome, thrombocytopenia', thrombocytopenic purpura, ventricular tachycardia (including torscades de pointes_ two erurthtima) vanical bleeding and vijolent behaviors'.

These terms represent serious adverse events, but do not meet the definition for adverse drug reactions. They are included here

As with all drugs, the potential for interaction by a variety of mechanisms (e.g., pharmacodynamic, pharmacokinetic drug inhibition

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)].

7.4 orugs that memory with remussias (e.g., NSALDS, ASPIRIT, Wartarni) Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding have also shown that concurrent use of an NSALD or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SNRIs or SSRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when fluoxetine is initiated or discontinuer (*con Monitore of Departure (6.7)*.

There are no clinical studies establishing the benefit of the combined use of ECT and fluoxetine. There have been rare reports of prolonged seizures in patients on fluoxetine receiving ECT treatment. 7.6 Potential for Other Drugs to affect Fluoxetine

The Protection of the Protecti

Considering of protein-bound indoxetine by other highly-bound drugs [see Clinical Pharmacology (12:3)].
7.7 Potential for Fluoxetine to affect Other Drugs
Pimozide — Concomitant use in patients taking pimozide is contraindicated. Pimozide can prolong the QT interval. Fluoxetine can increase the level of pimozide through inhibition of CVP2D6. Fluoxetine can also prolong the QT interval. Clinical studies of pimozide and fluoxetine has not been conducted, the potential for drug interactions or QT prolongation. While a specific study with pimozide and fluoxetine has not been conducted, the potential for drug interactions or QT prolongation warrants restricting the concurrent use of pimozide and fluoxetine [see Contraindications (4.2), Warnings and Precautions (5.11), and Drug Interactions (7.8)].

Thioridazine — Thioridazine should not be administered with flux time or within a minimum of 5 weeks after flux time has been discontinued, because of the risk of QT Prolongation [see Contraindications (4.2), Warnings and Precautions (5.11), and

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 produced a 2.4-fold higher C_{max} and a 4.5-fold higher AUC for thioridazine in the slow hydroxylators compared

with the rapid hydroxylators. The rate of debrisoquin hydroxylation is felt to depend on the level of CYP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CYP2D6, such as certain SSRIs, including fluoxetine, will produce elevated plasma

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. Drugs Metabolized by CYP2D6 — Fluoxetine inhibits the activity of CYP2D6, and may make individuals with normal CYP2D6

metabolic activity resemble a poor metabolizer. Coadministration of fluoxetine with other drugs that are metabolized by CYP2D6, including certain antidepressants (e.g., TCAs), antipsychotics (e.g., phenothiazines and most atypicals), and antiarrhythmics (e.g., proparenone, flecaninde, and others) should be approached with caution. Therapy with medications that are predominantly

(e.g., propatenone, Itecanide, and others) should be approached with caution. Iherapy with medications that are predominantly metabolized by the CYP2D6 system and that have a relatively narrow therapeutic index (see list below) should be initiated at the low end of the dose range if a patient is receiving fluoxetine concurrently or has taken it in the previous 5 weeks. Thus, his/her dosing requirements resemble those of poor metabolizers. If fluoxetine is added to the treatment regimen of a patient already receiving a drug metabolized by CYP2D6, the need for decreased dose of the original medication should be considered. Drugs with a narrow therapeutic index represent the greatest concern (e.g., flecanide, propatenone, vinblastine, and TCAs). Due to the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, thioridazine, should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued *leve* (*A*).

 $F_{\mu\nu}$ Inspire Pundepressants (ICAs) — In 2 sources, previously source plasma reversion in inspiralment and bespiratione in the increase of inspiral and bespirate and bespirate in the sources of inspiral inspiration in the inspirate increase of the inspirate in the source of the inspirate in the source of the inspirate inspirate in the source of the inspirate inspirate inspirate in the source of the inspirate inspirate

Benzodiazapines — The half-life of concurrently administered diazepam may be prolonged in some patients [see Clinical

Pharmacology (12.3)]. Coadministration of alprazolam and fluoxetine has resulted in increased alprazolam plasma concentrations and in further psychomotor performance decrement due to increased alprazolam levels.

Antipsychotics — Some clinical data suggests a possible pharmacodynamic and/or pharmacokinetic interaction between SSRIs and antipsychotics. Elevation of blood levels of haloperidol and clozapine has been observed in patients receiving concomitant

Anticonvulsants — Patients on stable doses of phenytoin and carbamazepine have developed elevated plasma anticonvulsant

Lithium — There have been reports of both increased and decreased lithium levels when lithium was used concomitantly with Limium — There have been reports of both increased and decreased limium levels when intrium was used concomitantly with fluoxetine. Cases of lithium toxicity and increased services have been reported. Lithium levels should be monitored when these drugs are administered concomitantly *[see Warnings and Precautions (5.2)]*. *Drugs Tightly Bound to Plasma Proteins* — Because fluoxetine is tightly bound to plasma proteins, the administration of fluoxetine to a patient taking another drug that is tightly bound to protein (e.g., Coumadin, digitoxin) may cause a shift in plasma concentrations potentially resulting in an adverse effect *[see Clinical Pharmacology (12.3)]*.

Drugs Metabolized by CYP3A4 — In an *in vivo* interaction study involving coadministration of fluoxetine with single doses of

terfenadine (a CVP3A4 substrate), no increase in plasma terfenadine concentrations occurred with concentratin fluoredines. Additionally, in vitro studies have shown ketoconazole, a potent inhibitor of CVP3A4 activity, to be at least 100 times more potent than fluoretine or norfluoretine as an inhibitor of the metabolism of several substrates for this enzyme, including astemizole, cisapride, and midazolam. These data indicate that fluoretine's extent of inhibition of CVP3A4 activity is not likely to be of clinical

significance. Olanzapine — Fluoxetine (60 mg single dose or 60 mg daily dose for 8 days) causes a small (mean 16%) increase in the maximum concentration of olanzapine and a small (mean 16%) decrease in olanzapine clearance. The magnitude of the impact of this factor is small in comparison to the overall variability between individuals, and therefore dose modification is not routinely

When using fluoxetine and olanzapine and in combination, also refer to the Drug Interactions section of the package insert fo

7.8 Urigs that Prolong the UI interval Do not use fluoxetine in combination with thioridazine or pimozide. Use fluoxetine with caution in combination with other drugs that cause OT prolongation. These include: specific antipsychotics (e.g., ziprasidone, iloperidone, chlorpromazine, mesoridazine, droperidol): specific antibiotics (e.g., erythromycin, gatifloxacin, moxifloxacin, sparfloxacin); Class 1A antiarrhythmic medications (e.g., quinidine, procainamide); Class III antiarrhythmics (e.g., amiodarone, solalol); and others (e.g., pentamidine, levomethadyl acetate, methadone, halofantrine, mefloquine, dolasetron mesylate, probucol or tacrolimus). Fluoxetine is primarily metabolized by CYP2D6. Concomitant treatment with CYP2D6 inhibitors can increase the concentration of fluoxetine. Concomitant use of other highly protein-bound drugs can increase the concentration of fluoxetine (*s.e.*), Warnings and Precautions (f. 11). Drug Interactions; (72) and (Dirige Pharmacology (72))

n using fluoxetine and olanzapine in combination, also refer to the Use in Specific Populations section of the package insert for Symbyax.

Pregnancy Category C — Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risk to

Tregrancy Category C — However is should be used during pregnancy only in the potential obtaining trustings the potential risk to the fetus. All pregnancies have a background risk of birth defects, loss, or other adverse outcome regardless of drug exposure. Treatment of Pregnant Women during the First Trimester — There are no adequate and well-controlled clinical studies on the use of fluxestine in pregnant women. Results of a number of published epidemiological studies assessing the risk of fluxestine exposure during the first trimester of pregnancy have demonstrated inconsistent results. More than 10 cohort studies and case-control studies failed to demonstrate an increased risk for congenital malformations overall. However, one prospective cohort study conducted by

concentrations and clinical anticonvulsant toxicity following initiation of concomitant fluoxetine treatment.

e and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)].

7.3 Serotonergic Drugs [see Dosage and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)].

vndrome, depersonalization, euphoria, hypertonia, libido increased, myoclonus, paranoid reaction; Rare; delusion

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There are no adequate and well-controlled studies examining sexual dysfunction with fluxetine treatment. Symptoms of sexual dysfunction occasionally persist after discontinuation of fluxetine treatment.

appear in the body or footnotes of Tables 4 and 5 and those for which the COSTART terms were uninformative or misle

appeal in the body in boundes or nables 4 and balls and these for which the body and the high and the body in the

Panic Disorder

(N=425)

Anxiety (2%)

Nervousness

(1%)

OCD

(N=266)

Anxiety (2%)

Rash (1%)

(N=2869)

Percentage of Patients Reporting Event

Major Depressive Disorder, OCD, Bulimia, and Panic

Disorder Combined

Placebo

(N=1673)

CNS Acting Dru Serotonergic Drugs Drugs that Interfere with Hemostasis (e.g., NSAIDS, Aspirin, Warfarin) Electroconvulsive Therapy (ECT) Potential for Other Drugs to affect Fluoxetine Potential for fluoxetine to affect Other Drugs

FULL PRESCRIBING INFORMATION

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WARNING: SUICIDAL THOUGHTS AND BEHAVIORS Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term studies. These studies did not show an increase in the risk of suicidal thoughts and behavior with cant use in patients over age 24; there was a reduction in risk with antidepressant use in patients aged 65

and older [see Warnings and Precautions (5.1)]. • In patients of all ages who are started on antidepressant therapy, monitor closely for worsening and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber [see Warnings and Precautions (5.1)]. Fluoxetine is not approved for use in children less than 7 years of age [see Warnings and Precautions (5.1) and Use

in Specific Populations (8.4)1. When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert for

1 INDICATIONS AND USAGE

Fluoxetine is indicated for the treatment of: Acute and maintenance treatment of Major Depressive Disorder *[see Clinical Studies (14.1)]*.

- Acute and maintenance treatment of obsessions and compulsions in patients with Obsessive Compulsive Disorder (OCD) [see Clinical Studies (14.2)]. Acute and maintenance treatment of binge-eating and vomiting behaviors in patients with moderate to severe Bulimia Nervosa
- [see Clinical Studies (14.3)]. Acute treatment of Panic Disorder, with or without agoraphobia *[see Clinical Studies (14.4)]*.
- Fluoxetine and Olanzapine in Combination is indicated for the treatment of:
- Acute treatment of depressive episodes associated with Bipolar I Disorder
- Treatment resistant depression (Major Depressive Disorder in patients, who do not respond to 2 separate trials of different sants of adequate dose and duration in the current enisode
- Fluoxetine monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder or the treatment of treatment resistant depression.

When using fluxetine and olarzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax⁶ **2 DOSAGE AND ADMINISTRATION**

2.1 Major Depressive Disorder

Adult — Initiate fluoxetine 20 mg/day orally in the morning. Consider a dose increase after several weeks if insufficient clinical minute inductive by figure of any in the memory consider a cose indicate and solve indicate and solve indicate indicate

In controlled trials used to support the efficacy of fluoxetine, patients were administered morning doses ranging from 20 to 80 mg/ day. Studies comparing fluxestine 20, 40, and 60 mg/day to placeba there daministered moning does ranging non 20 60 mg/ response in Major Depressive Disorder in most cases [see Clinical Studies (14.1)].

Pediatric (children and adolescents) ---- Initiate fluoxetine 10 or 20 mg/day. After 1 week at 10 mg/day, increase the dose to 20 mg/ day, However, due to higher plasma levels in lower weight children, the starting and target dose in this group may be 10 mg/day. Consider a dose increase to 20 mg/day after several weeks if insufficient clinical improvement is observed. In the short-term (8 to 9 week) controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of Major Depressive Disorder, patients were administered fluoxetine doses of 10 to 20 mg/day [see Clinical Studies (14.1)].

All patients — As with other drugs effective in the treatment of Major Depressive Disorder, the full effect may be delayed until 4 weeks of treatment or longer.

Periodically reassess to determine the need for maintenance treatment.

Switching Patients to a Tricyclic Antidepressant (TCA) — Dosage of a TCA may need to be reduced, and plasma TCA concentrations may need to be monitored temporarily when fluoxetine is coadministered or has been recently discontinued [see Warnings and Precautions (5.2) and Drug Interactions (7.7)].

2 2 Obsessive Compu

Initial Treatment Adult --- Initiate fluoxetine 20 mg/day, orally in the morning. Consider a dose increase after several weeks if insufficient clinical

Improvement is observed. The full therapeutic effect may be delayed until 5 weeks of treatment or longer. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon). A dose range of 20 to 60 mg/day is recommended; however, doses of up to 80 mg/day have been well tolerated in open studies of OCD. The maximum fluoxetine dose should not

In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of OCD, patients were administered fixed daily doses of 20, 40, or 60 mg of fluoxetine or placebo [see Clinical Studies (14.2)]. In one of these studies, no dose-response relationship for effectiveness was demonstrated. Pediatric (children and adolescents) — In adolescents and higher weight children, initiate treatment with a dose of 10 mg/day.

The advectory of the second se

if insufficient clinical improvement is observed. A dose range of 20 to 30 mg/day is recommended. Experience with daily doses greater than 20 mg is very minimal, and there is no experience with doses greater than 60 mg.

In the controlled clinical trial of fluoxetine supporting its effectiveness in the treatment of OCD, patients were administered fluoxetine doses in the range of 10 to 60 mg/day [see Clinical Studies (14.2]].

Periodically reassess to determine the need for treat

2.3 Bulimia Nervosa

Initial Treatment — Administer fluoxetine 60 mg/day in the morning. For some patients it may be advisable to titrate up to this target dose over several days. Fluoxetine doses above 60 mg/day have not been systematically studied in patients with bulimia. In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of Bulimia Nervosa, patients were administered fixed daily fluovetine does of 20 or 60 mg, or placebo *[see Clinical Studies (14.3)]*. Only the 60 mg dose was statistically significantly superior to placebo in reducing the frequency of binge-eating and vomiting. Periodically reassess to determine the need for maintenance treatment.

2.4 Panic Disorder

Initial Treatment — Initiate treatment with fluoxetine 10 mg/day. After one week, increase the dose to 20 mg/day. Consider a dose increase after several weeks if no clinical improvement is observed. Fluoxetine doses above 60 mg/day have not been systematically evaluated in patients with Panic Disorder. In the controlled clinical trials of fluxetine supporting its effectiveness in the treatment of Panic Disorder, patients were administered fluxetine doses in the range of 10 to 60 mg/day [see Clinical Studies (14.4)]. The most frequently administered dose in the 2 flexible-dose clinical trials was 20 mg/day.

Periodically reassess to determine the need for continued treatment.

2.5 Fluxestine and Olanzapine in Combination: Depressive Episodes Associated with Bipolar I Disorder When using fluxetine and olanzapine in combination: Depressive Episodes Associated with Bipolar I Disorder When using fluxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax. Adult — Administer fluoxetine in combination with oral olanzapine once daily in the evening, without regard to meals Aduit — Administer fuolization in combination with oral olanzapine once daily in the evening, without regard to meals, generally beginning with 5 mg of oral olanzapine and 20 mg of fluoxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability within dose ranges of fluoxetine to 50 mg and oral olanzapine 5 to 12.5 mg. Antidepressant efficacy was demonstrated with olanzapine and fluoxetine in combination with a dose range of olanzapine 6 to 12 mg and fluoxetine 25 to 50 mg. Safety of co-administration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies. Periodically re-examine the need for continued pharmacotherapy. *Children and adolescents (10-17 years of age)* — Administer olanzapine and fluoxetine combination once daily in the evening, generally beginning with 2.5 mg of olanzapine and 20 mg of fluoxetine. Make dosage adjustments, if indicated, according to efficacy and luterability.

according to efficacy and tolerability. Safety of co-administration of doses above 12 mg of olanzapine with 50 mg of fluoxetine has not been evaluated in pediatric clinical studies. Periodically re-examine the need for continued pharmacotherapy. Safety and efficacy of fluoxetine in combination with olanzapine was determined in clinical trials supporting approval of Symbyas (fixed-dose combination of olanzapine and fluoxetine). Symbyax is dosed between 3 mg/25 mg (olanzapine/fluoxetine) per day and 12 mg/50 mg (olanzapine/fluoxetine) per day. The following table demonstrates the appropriate individual component doses of fluoxetine and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy of fluoxetine and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy

and tolerability. Table 1: Approximate Dose Correspondence Between Symbyax¹ and the Combination of Fluoxetine and Olanzapine

For Symbyax (mg/day) Use in Combination

Olanzapine (mg/day)	Fluoxetine (mg/day)
2.5	20
5	20
10+2.5	20
5	40+10
10+2.5	40+10
	2.5 5 10+2.5 5

Fluxetine capsules monotherapy is not indicated for the treatment of depressive episode associated with Bipolar I Disorder. 2.6 Fluxetine and Olanzapine in Combination: Treatment Resistant Depression

When using fluxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax When using indexine and bialization in Combination, also relef to the China Studies section on the package insert for Symbyax. Administer fluxetine in combination with oral olarizatine once daily in the evening, without regard to meals, generatly beginning with 5 mg of oral olarizatine and 20 mg of fluxetine. Adjust dosage, if indicated, according to efficacy and tolerability within dose ranges of fluxetine 20 to 50 mg and oral olarizatine 5 to 20 mg. Antidepressant efficacy was demonstrated with olarizatine and fluxetine in combination with a dose range of olarizatine 6 to 18 mg and fluxetine 25 to 50 mg. Safety and efficacy of fluxetine in combination with olarizatine was determined in clinical trials supporting approval of Symbyax (fixed dose combination of olarizatine negretary to a data the dose to the advectine) and 12 mg/6 mg (olarizatine/fluxetine) per day and 12 mg/6 mg (olarization) fluxetine) per day Tabil.

and 12 mg/50 mg (olanzapine/fluggetine) per day. Table 1 demonstrates the appropriate individual component doses of fluggetine ine versus Symbolas Adults dosane i indicated with the individual components according to efficacy and tolerabilit Periodically re-examine the need for continued pharmacotherapy. Safety of coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies.

QT Prolongation Potential for Cognitive and Motor Impairment 17.9 17.10 Use of Concomitant Medication ontinuation of Treatment 17.12 Use in Specific Populations *Sections or subsections omitted from the full prescribing information are not listed.

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility13.2 Animal Toxicology and/or Pharmacology

Fluoxetine monotherapy is not indicated for the treatment of treatment resistant depression (Major Depressive Disorder in patients

Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults

who do not respond to 2 antidepressants of adequate dose and duration in the current epi 2.7 Dosing in Specific Populations ment of Pregnant Women — When treating pregnant women with fluoxetine, the physician should carefully consider the potential risks and potential benefits of treatment. Neonates exposed to SSRIs or SNRIs late in the third trimester have develop complications requiring prolonged hospitalization, respiratory support, and tube feeding *Isee Use in Specific Populations (8.1)*.

Generatic — Consider a lower or less frequent dosage for the elderly *[see Use in Specific Populations (8.5)]*. Hepatic Impairment — As with many other medications, use a lower or less frequent dosage in patients with hepatic impairment [see *Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)*]. Concomitant Illness — Patients with concurrent disease or on multiple concomitant medications may require dosage adjustments

Concomitant Illness — Patients with concurrent disease or on multiple concomitant medications may require dosage adjustments [see Clinical Pharmacology (12.4) and Warnings and Precautions (5.12)]. Fluoxetine Capsules and Olanzapine in Combination — Use a starting dose of oral olanzapine 2.5 to 5 mg with fluoxetine 20 mg for patients with a predisposition to hypotensive reactions, patients with hepatic impairment, or patients who exhibit a combination of factors that may slow the metabolism of olanzapine or fluoxetine in combination (female gender, geriatric age, non-smoking status), or those patients who may be pharmacodynamically sensitive to olanzapine. Titrate slowly and adjust dosage as needed in patients who exhibit a combination of factors that may slow metabolism. Fluoxetine and olanzapine in combination have not been systematically studied in patients over 65 years of age or in patients less than 10 years of age [see Warnings and Precautions of 16] and Drue Interactione (7.7). (5.16) and Drug Interactions (7.7)].

2.8 Discontinuation of Treatment ymptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions 5 151]

2.9 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine. Conversely, at least 5 weeks should be allowed after stopping fluoxetine before starting an MAOI intended to treat ders (see Contraindications (4.1)). exetine with Other MAOIs such as Linezolid or Methylene Blue

o not start fluoxetine in a patient who is being treated with linezolid or intravenous methylene blue because there is an increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.1)]

Including nospitalization, should be considered *(see Contraindications (4.1))*. In some cases, a patient afready receiving flucxetine therapy may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, flucxetine should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for five weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever compas first. Therapy with fursysting much be resumed 04 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with fluoxetine may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue [see Warnings and Precautions (5.2)].

The risk of administering methylene blue see warmings and r recaulors (*J*-*J*). The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with fluoxetine is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use [see Warnings and Precautions (5.2)]. 3 DOSAGE FORMS AND STRENGTHS

Fluoxetine capsules, USP 10 mg** are white to off white powder filled in size "4" hard gelatin capsules with opague light blue

colored cap and opaque light orange colored bdy immed "SG" on cap and "113" on body with black ink. Fluoxetine capsules, USP 20 mg** are white to off white powder filled in size "2" hard gelatin capsules with opaque light blue colored cap and opaque light green colored body imprinted "SG" on cap and "114" on body with black ink.

Fluoxetine capsules, USP 40 mg** are white to off white powder filled in size "0" hard gelatin capsules with opaque light blue colored cap and opaque white colored body imprinted "SG" on cap and "115" on body with black ink.

4 CONTRAINDICATIONS

When using fluoxetine capsules and olanzapine in combination, also refer to the Contraindications section of the package insert

nine Oxidase Inhibitors (MAOIs)

The use of MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks of stopping treat is contraindicated because of an increased risk of serotonin syndrome. The use of fluoxetine within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated [see Dosage and Administration (2.9) and Warnings and Precautions (5.2)1

Starting fluoxetine in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue is also contraindicated poor cated because of an increased risk of serotonin syndrome [see Dosage and Administration (2.10) and War

4.2 Other Contraindications

The use of fluoxetine is contraindicated with the following:

Pimozide (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8)] Thioridazine (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8)] Thioridazine rotorighte OT interval. Fluxetine can increase the levels of pimozide and thioridazine through inhibition VP206, Fluxetine can also prolong the QT interval. 5 WARNINGS AND PRECAUTIONS

When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert

5.1 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults

5.1 Suicidal moughts and behaviors in clinicreit, Addrescents, and Young Address Patients with Major Depressive Disorder (MDD), both adult and pediatric, may experience worsening of their depression and/ or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a the suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide strongest predictors of suicide. There has been a suicide strongest predictors of suicide strongest predictor and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. Inter has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18 to 24) with Major Depressive Disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older. The pooled analyses of placebo-controlled trials in children and adolescents with MDD, Obsessive Compulsive Disorder (MCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in our 4400 nations. The pooled

or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled or other psychiatric disorders included a total of 24 short-term triats of 9 anticepressant orugs in over 4400 paterits. The pooled analyses of placebo-controlled triats in adults with MDD or other psychiatric disorders included a total of 295 short-term triats (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differencess (drug versus placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo differences in the number of cases of suicidality per 1000 patients treated) are provided in Table 2. Table 2: Suicidality per 1000 Patients Treated

Age Range Drug-Placebo Difference in Number of Cases of Suicidality per 1000

	Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 additional cases
	Decreases Compared to Placebo
25-64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach

any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the

currence of depr All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for Major Depressive Disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a anticipressants for major bepressive bisorder as were as for other indications, both psychiatric and holpsychiatric. Antiough a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of sucidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging sucidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's preceding emergence.

presenting symptoms If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition

In the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is teasible, out with recognition that abrupt discontinuation can be associated with certain symptoms (*See Warnings and Precautions* (*S.15)*]. Families and caregivers of patients being treated with antidepressants for Major Depressive Disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of agitation, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for fluxetine should be written for the smallest quantity of capsules consistent with good related transcement in arefet to reduce the rick of ourdence. patient management, in order to reduce the risk of overdose.

It should be noted that fluoxetine is approved in the pediatric population for Major Depressive Disorder and Obsessive Compulsive Disorder; and fluoxetine in combination with olanzapine for the acute treatment of depressive episodes associated with Bipolar

5.2 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs, including flucketine, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, flucketine, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, 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 and intravenous methylene blue).

Post-marketing cases of QT interval prolongation and ventricular arrhythmia including Torsades de Pointes have been reported in patients treated with fluoxetine. Fluoxetine should be used with caution in patients with congenital long QT syndrome; a previous history of QT prolongation; a family history of long QT syndrome or sudden cardiac death; and other conditions that dispose to 0 prolongation, and vertricular arrhythmia. Such conditions include command use of drugs that prolong the QT erval; hypokalemia or hypomagnesemia; recent myocardial infarction, uncompensated heart failure, bradyarrhythmias, and rer significant arrhythmias; and conditions that predispose to increased fluxetine exposure (overdose, hepatic impairment, of QVIDOD (bit hum, QVIDOD) executions that predispose to increased fluxetine exposure (overdose, hepatic impairment, use of CYP2D6 inhibitors. CYP2D6 poor metabolizer status, or use of other highly protein-bound drugs). Fluoxetine is primarily metabolized by CYP2D6 [see Contraindications (4.2), Drug Interactions (7.7, 7.8), Overdose (10.1), and Clinical Pharmacology (12.3) herabolized by Cri 20 fee Contrainable (2.5), bug merations (+2.7), bug merations (+2.7)

methadone, halofantrine, mefloquine, dolasetron mesylate, probucol or tacrolimus) (see Drug Interactions (7.7, 7.8) and Clinical Pharmacology (12.3)]. Consider ECG assessment and periodic ECG monitoring if initiating treatment with fluoxetine in patients with risk factors for QT prolongation and ventricular arrhythmia. Consider discontinuing fluoxetine and obtaining a cardiac evaluation if patients develop

signs or symptoms consistent with ventricular arrhythmia. 5.12 Use in Patients with Concomitant Illness

5.12 Ose in Patients with Goncomman inness Clinical experience with fluxetine in patients with concomitant systemic illness is limited. Caution is advisable in using fluxetine in patients with diseases or conditions that could affect metabolism or hemodynamic responses. Cardiovascular - Fluoxetine has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heard idease. Patients with these diagnoses were systematically excluded from clinical studies during the product's premarket testing. However, the electrocardiograms of 312 patients who received fluxetine in double-blind trials were retrospectively evaluated; no conduction abnormalities that resulted in heart block were observed. The mean heart rate was reduced by approximately 3 beats/min

Glycemic Control — In patients with diabetes, fluoxetine may alter glycemic control. Hypoglycemia has occurred during therapy with fluxetine, and hyperglycemia has developed following discontinuation of the drug. As is true with many other types of medication when taken concurrently by patients with diabetes, insulin and/or oral hypoglycemic, dosage may need to be adjusted when therapy with fluxetine is instituted or discontinued.

5.13 Potential for Cognitive and Motor Impairment As with any CNS-active drug, fluggetine has the potential to impair judgment, thinking, or motor skills. Patients should be cautioned ... Just any one acute drug, nuoveline has the potential to impair judgment, thinking, or motor skills. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that the drug treatment does not affect them adversely.

5.14 Long Elimination Half-Life

Because of the long elimination half-lives of the parent drug and its major active metabolite, changes in dose will not be fully because of the long enhinitiation namenees of the patient drug and its major active metadone, changes in ouse with not be drug reflected in plasma for several weeks, affecting both strategies for titration to final dose and withdrawal from treatment. This is of potential consequence when drug discontinuation is required or when drugs are prescribed that might interact with fluoxetine and norfluoxetine following the discontinuation of fluoxetine *[see Clinical Pharmacology (12.3)]*. 5.15 Discontinuation of Adverse Reactions

During marketing of fluxetine, SNRIs, and SSRIs, there have been spontaneous reports of adverse reactions occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, diziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), ankiety, confusion, headanch, lethargy, emotional lability, insomnia, and hypomania. While these reactions are generally self-limiting, there have been reports of serious discontinuation symptoms. Patients should be monitored for these symptoms when discontinuing treatment with fluoxetine. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occu lolowing a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be onsidered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate. Plasma fluoxetine and orfluoxetine concentration decrease gradually at the conclusion of therapy which may minimize the risk of discontinuation

symptoms with this drug. 5.16 Fluoxetine and Olanzapine in Combination

Serotonin Syndrome [see Warnings and Precautions (5.2)]

Altered Appetite and Weight [see Warnings and Precautions (5.6)]
Abnormal Bleeding [see Warnings and Precautions (5.7)]

Disorde

5 15

3

Potential for Cognitive and Motor Impairment [see Warnings and Precautions (5.13)]
 Discontinuation Adverse Reactions [see Warnings and Precautions (5.15)]

Angle-Closure Glaucoma [see Warnings and Precautions (5.8)]

Hyponatremia [see Warnings and Precautions (5.9)]
Anxiety and Insomnia [see Warnings and Precautions (5.10)]

QT Prolongation [see Warnings and Precautions (5.11)]

Seizures [see Warnings and Precautions (5.5)]

6.1 Clinical Trials Experienc

nractice

Body System/

Asthenia Flu Syndrome

System

iarrhea

Vervous Syste

rvousness Somnolence

ibido decreasec

Respiratory

Pharyngitis

Skin and

Appendages

Sweating

Urogenita

potence

¹ Incidence less than 1%

onorma

ejaculation ³

System

omnia

norexia

Body as a Whole

Digestive System

When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert 6 ADVERSE REACTIONS

The following adverse reactions are discussed in more detail in other sections of the labeling:
 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults [see Boxed Warning and Warnings and Precautions (5.1)]

When using fluoxetine and olanzapine in combination, also refer to the Adverse Reactions section of the package insert for

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a

drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect or predict the rates observed

Multiple doses of fluoxetine have been administered to 10,782 patients with various diagnoses in US clinical trials. In addition, there have been 425 patients administered fluoxetine in panic clinical trials. The stated frequencies represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse reaction of the type listed. A reaction was considered

Incidence in Major Depressive Disorder, OCD, bulimia, and Panic Disorder placebo-controlled clinical trials (excluding data from extensions of trials) — Table 3 enumerates the most common treatment-emergent adverse reactions associated with the use of fluxetime (incidence of at least 5% for fluxetime and at least twice that for placebo within at least 1 of the indications) for the textensions of trials are presented by the second second

treatment of Major Depressive Disorder, OCD, and bulimia in US controlled clinical trials and Panic Disorder in US plus non-US controlled trials. Table 5 enumerates treatment-emergent adverse reactions that occurred in 2% or more patients treated with fluoxetine and with incidence greater than placebo who participated in US Maior Depressive Disorder. OCD, and bulimia controlled clinical trials and US plus non-US Panic Disorder controlled clinical trials. Table 4 provides combined data for the pool of studies that are provided separately by indication in Table 3.

Table 3: Most Common Treatment-Emergent Adverse Reactions: Incidence in Major Depressive Disorder, OCD, Bulimia, and Panic Disorder Placebo-Controlled Clinical Trials¹²

Percentage of Patients Reporting Even

Fluoxetine Placebo Fluoxetine Placebo Fluoxetine Placebo

10

28

6

(N=1728) (N=975) (N=266) (N=89) (N=450) (N=267) (N=425) (N=342)

11 21

13

10

22

3

29

10

33

4

13

treatment-emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation

Allergic Reactions and Rash [see Warnings and Precautions (5.3)]
 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania [see Warnings and Precautions (5.4)]

