UOXETINE oral solution, for oral use	<ul> <li>Seizures: Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold (5.5)</li> <li>Altered Appetite and Weight: Significant weight loss has occurred (5.6)</li> <li>Abacread Blanding: May increase the risk of blanding. Use with NSNDs aspirin worfarin or other drugs</li> </ul>	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	5.12 Use in Patients with Concomitant Clinical experience with fluoxetine in pati in using fluoxetine in patients with dis responses.	ients with concomitant systen		
itial U.S. Approval: 1987 WARNING: SUICIDAL THOUGHTS AND BEHAVIORS	<ul> <li>Abnormal 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)</li> <li>Angle-Closure Glaucoma: Angle-closure glaucoma has occurred in patients with untreated anatomically</li> </ul>	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	Cardiovascular — Fluoxetine has not be history of myocardial infarction or unsta	able heart disease. Patients w	with these diagn	noses were systematic
Anniko, solicibal includin is AND BERAVIONS be full prescribing information for complete boxed warning. creased risk of suicidal thinking and behavior in children, adolescents, and young adults taking tidepressants (5.1).	<ul> <li>narrow angles treated with antidepressants. (5.8)</li> <li>Hyponatremia: Has been reported with fluoxetine in association with syndrome of inappropriate antidiuretic hormone (SIADH). Consider discontinuing if symptomatic hyponatremia occurs (5.9)</li> </ul>	The police analyses to prace of the control control and an included in and addressents with which, boassave compliance 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	excluded from clinical studies during t 312 patients who received fluoxetine i abnormalities that resulted in heart bloc	n double-blind trials were re	retrospectively e	evaluated; no conduct
values and solution of the second state of the	Anxiety and Insomnia: May occur (5.10)     OT Prolongation: QT prolongation and ventricular arrhythmia including Torsades de Pointes have	iover 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	3 beats/min. <i>Glycemic Control</i> — In patients with occurred during therapy with fluoxetine	, and hyperglycemia has dev	eveloped followir	ng discontinuation of
rning and Precautions, Serotonin Syndrome (5.2) 07/2023 rning and Precautions, Abnormal Bleeding (5.7) 07/2023	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)	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.	drug. As is true with many other type: insulin and/or oral hypoglycemic, dosag or discontinued.	s of medication when taken le may need to be adjusted w	when therapy w	y patients with diabe ith fluoxetine is institu
ine is a selective serotonin reuptake inhibitor indicated for:	<ul> <li>Potential for Cognitive and Motor Impairment: Has potential to impair judgment, thinking, and motor skills. Use caution when operating machinery (5.13)</li> </ul>	Table 2: Suicidality per 1000 Patients Treated           Age Range         Drug-Placebo Difference in Number of Cases	5.13 Potential for Cognitive and Motor As with any CNS-active drug, fluoxetine about a couting of about aparting by	has the potential to impair jud		
ute and maintenance treatment of Major Depressive Disorder (MDD) in adult and pediatric patients id 8 to 18 years (1.1) ite and maintenance treatment of Obsessive Compulsive Disorder (OCD) in adult and pediatric patients.	Long Half-Life Changes in dose will not be fully reflected in plasma for several weeks (5.14)     Sexual Dysfunction: Fluoxetine may cause symptoms of sexual dysfunction (5.16).     ADVERSE REACTIONS	of Suicidality per 1000 Patients Treated Increases Compared to Placebo	should be cautioned about operating ha certain that the drug treatment does not 5.14 Long Elimination Half-Life		ig automobiles,	until they are reasona
de and maintenance decament of obsessive compulsive bisorier (CCD) in aduit and penance patients de 7 to 17 years (1.2) ute and maintenance treatment of Bulimia Nervosa in adult patients (1.3)	Most common adverse reactions (≥ 5% and at least twice that for placebo) associated with: Major Depressive Disorder, Obsessive Compulsive Disorder, Bulimia, and Panic Disorder: abnormal dreams,	<18 14 additional cases 18-24 5 additional cases	Because of the long elimination half-live will not be fully reflected in plasma for withdrawal from treatment. This is of p	several weeks, affecting both	th strategies for t	titration to final dose
treatment of Panic Disorder, with or without agoraphobia, in adult patients (1.4)DOSAGE AND ADMINISTRATION	abnormal ejaculation, anorexia, anxiety, asthenia, diarrhea, dry mouth, dyspepsia, flu syndrome, impotence, insomnia, ilbido decreased, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilatation, and yawn (6.1)	Decreases Compared to Placebo	drugs are prescribed that might interaction fluoxetine [see Clinical Pharmacology (1	ct with fluoxetine and norfluc (2.3)].		
Adult         Pediatric           (2.1)         20 mg/day in am (initial dose) dose)         10 to 20 mg/day (initial dose) dose)	To report SUSPECTED ADVERSE REACTIONS, contact Nostrum Laboratories, Inc. at quality@nostrumpharma.com or 1-877-770-1288 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch	≥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.	5.15 Discontinuation Adverse Reaction During marketing of fluoxetine, SNRIs, a occurring upon discontinuation of thesi	and SSRIs, there have been s		
(2.2) 20 mg/day in am (initial dose) dose) 10 mg/day (initial dose)	• Monoamine Oxidase Inhibitors (MAOIs): (2.9, 2.10, 4.1, 5.2)     • Drugs Metabolized by CYP2D6: Fluoxetine is a potent inhibitor of CYP2D6 enzyme pathway (7.7)	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	mood, irritability, agitation, dizziness, sensations), anxiety, confusion, headacl reactions are generally self-limiting, the	sensory disturbances (e.g. ne, lethargy, emotional lability	g., paresthesias ty, insomnia, and	such as electric sh d hypomania. While th
Image         60 mg/day in am         -           nic Disorder (2.4)         10 mg/day (initial dose)         -	<ul> <li>Drugs metabolized by CFF2b0, Fluckeline is a potent immutor of CFF2b0 enzyme pathway (7.7)</li> <li>Tricyclic Antidepressants (TCAs): Monitor TCA levels during coadministration with flucxetine or when flucxetine has been recently discontinued (5.2, 7.7)</li> </ul>	of antidepressants can delay the recurrence 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	should be monitored for these sympton in the dose rather than abrupt cessation following a decrease in the dose or upon	ns when discontinuing treatm n is recommended whenever	ment with fluoxe r possible. If into	etine. A gradual reduct olerable symptoms of
lower or less frequent dosage should be used in patients with hepatic impairment, the elderly, and for tients with concurrent disease or on multiple concomitant medications (2.7)	CNS Acting Drugs: Caution should be used when taken in combination with other centrally acting drugs     (7.2)	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, hostifity, aggressiveness, impulsivity, kakthisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and	dose may be considered. Subsequently, rate. Plasma fluoxetine and norfluoxetin may minimize the risk of discontinuation	the physician may continue d e concentration decrease grad	decreasing the de	lose but at a more grad
al solution: 20 mg per 5 mL (3)	<ul> <li>Benzodiazepines: Diazepam – increased t ½, alprazolam - further psychomotor performance decrement due to increased levels (7.7)</li> <li>Antipsychotics: Potential for elevation of haloperidol and clozapine levels (7.7)</li> </ul>	implusively, anathisa (upsychonouor resultsmess); hypomalia; and mane, 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 causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been	5.16 Sexual Dysfunction Use of SSRIs, including fluoxetine, may	cause symptoms of sexual dy	lysfunction [see	Adverse Reactions (6
	<ul> <li>Anticonvulsants: Potential for elevated phenytoin and carbamazepine levels and clinical anticonvulsant toxicity (7.7)</li> </ul>	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	In male patients, SSRI use may result in In female patients, SSRI use may result It is important for prescribers to inquir	in decreased libido and delay	yed or absent or	rgasm.
MAOI intended to treat psychiatric disorders. In addition, do not start fluoxetine in a patient who is ing treated with linezolid or intravenous methylene blue (4.1) mozide: Do not use. Risk of QT prolongation and drug interaction (4.2, 5.11, 7.7, 7.8)	<ul> <li>Serotonergic Drugs: (2.9, 2.10, 4.1, 5.2)</li> <li>Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin): May potentiate the risk of bleeding (7.4)</li> </ul>	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.	specifically about changes in sexual spontaneously reported. When evaluatin timing of symptom onset) is important	function during treatment, ng changes in sexual function	, because sexua on, obtaining a d	al function may noṫ detailed history (incluc
Thioridazine: Do not use. Risk of all photogradion and drug interaction (4.2, 5.11, 7.7, 7.6) Thioridazine: Do not use. Risk of all interval prolongation and elevated thioridazine plasma levels. Do not see thioridazine within 5 weeks of discontinuing fluoxetine (4.2, 5.11, 7.7, 7.8)	<ul> <li>Drugs Tightly Bound to Plasma Proteins: May cause a shift in plasma concentrations (7.6, 7.7)</li> <li>Drugs That Prolong the QT Interval: Do not use fluoxetine with thioridazine or pimozide. Use with caution</li> </ul>	If 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)].	underlying psychiatric disorder. Discus informed decisions about treatment.			
inical Worsening and Suicide Risk: Monitor for clinical worsening and suicidal thinking and behavior	in combination with other drugs that prolong the QT interval (4.2, 5.11, 7.7, 7.8)USE IN SPECIFIC POPULATIONS	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	6 ADVERSE REACTIONS 6.1 Clinical Trials Experience Because clinical trials are conducted un	der widely varving conditions	ac advarca raac	tion rates observed in
.1) erotonin Syndrome: Serotonin syndrome has been reported with SSRIs and SNRIs, including fluoxetine, th when taken alone, but especially when co-administered with other serotonergic agents. If such	<ul> <li>Pregnancy: Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risks to the fetus (8.1)</li> <li>Nursing Mothers: Breast feeding is not recommended (8.3)</li> </ul>	for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for	clinical trials of a drug cannot be directl reflect or predict the rates observed in p	y compared to rates in the cli ractice.	clinical trials of a	another drug and may
mptoms occur, discontinue fluoxetine and serotonergic agents and initiate supportue irreatment. If noomitant use of fluoxetine with other serotonergic drugs is clinically warranted, patients should be de aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation	<ul> <li>Pediatric Use: Safety and effectiveness of fluoxetine in patients &lt; 8 years of age with Major Depressive Disorder and &lt; 7 years of age with OCD have not been established. (8.4)</li> </ul>	fluoxetine oral solution should be written for the smallest quantity of oral solution consistent with good 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	Multiple doses of fluoxetine have been a trials. In addition, there have been 425 pa were recorded by clinical investigators u	tients administered fluoxetine sing descriptive terminology of	ne in panic clinica of their own cho	al trials. Adverse reacti oosing. Consequently,
d dose increases. (5.2) <i>lergic Reactions and Rash:</i> Discontinue upon appearance of rash or allergic phenomena (5.3)	<ul> <li>Hepatic Impairment: Lower or less frequent dosing may be appropriate in patients with cirrhosis (8.6)</li> <li>See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide.</li> </ul>	Obsessive Compulsive Disorder. 5.2 Serotonin Syndrome	not possible to provide a meaningful es without first grouping similar types of re categories.	timate of the proportion of in	ndividuals experi	iencing adverse reacti
ctivation of Mania/Hypomania: Screen for Bipolar Disorder and monitor for mania/hypomania (5.4) PRESCRIBING INFORMATION: CONTENTS*	7.6 Potential for Other Drugs to Affect Fluoxetine	The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs, including fluoxetine, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentany, lithium, tramadol, meperidine, methadone, tryptophan, buspirone.	In the tables and tabulations that follow adverse reactions. The stated frequenci	es represent the proportion	n of individuals v	who experienced, at le
PRESCRIBING INFORMATION: CONTENTS" NING: SUICIDAL THOUGHTS AND BEHAVIORS INDICATIONS AND USAGE	<ul> <li>7.7 Potential for Fluoxetine to Affect Other Drugs</li> <li>7.8 Drugs that Prolong the QT Interval</li> </ul>	amphetamines, and St. John's Wort) and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).	once, a treatment-emergent adverse rea if it occurred for the first time or worsen to emphasize that reactions reported du	ed while receiving therapy follo ring therapy were not necessa	llowing baseline sarily caused by i	evaluation. It is impor it.
1.1 Major Depressive Disorder 1.2 Obsessive Compulsive Disorder	8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.2 Labor and Delivery	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), neuronuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination),	The prescriber should be aware that th incidence of side effects in the course of differ from those that prevailed in the cl	usual medical practice where inical trials. Similarly, the cite	re patient charact ted frequencies c	teristics and other fact cannot be compared v
1.3 Bulimia Nervosa 1.4 Panic Disorder DOSAGE AND ADMINISTRATION	8.3 Nursing Mothers 8.4 Pediatric Use	seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome. The concomitant use of fluoxetine with MAOIs intended to treat psychiatric disorders is contraindicated.	figures obtained from other clinical in The cited figures, however, do provide contribution of drug and nondrug factor	vestigations involving differe the prescribing physician wit	rent treatments, ith some basis fo	uses, and investigat for estimating the rela
2.1 Major Depressive Disorder 2.2 Obsessive Compulsive Disorder	8.5 Geriatric Use 8.6 Hepatic Impairment	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	Incidence in Major Depressive Disorde (excluding data from extensions of tria	r, OCD, bulimia, and Panic D als) — <b>Table 3</b> enumerates	Disorder placebo s the most com	o-controlled clinical ti mon treatment-emerg
2.3 Bulimia Nervosa     2.4 Panic Disorder     Cosing in Specific Populations	9 DRUG ABUSE AND DEPENDENCE 9.3 Dependence 10 OVERDOSAGE	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 lingrolid or intravenous embluent builts in a patient which fluxes Eluxatines blould be discontinued hefore.	adverse reactions associated with the u twice that for placebo within at least 1 OCD, and bulimia in U.S. controlled clin	use of fluoxetine (incidence o of the indications) for the t nical trials and Panic Disorde	of at least 5% for treatment of Ma ler in U.S. plus n	for fluoxetine and at le ajor Depressive Disor non-U.S. controlled tri
<ol> <li>Discontinuation of Treatment</li> <li>Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat</li> </ol>	<ul><li>Human Experience</li><li>Animal Experience</li></ul>	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.	Table 5 enumerates treatment-emerge with fluoxetine and with incidence great OCD, and bulimia controlled clinical tri	nt adverse reactions that oc er than placebo who particip als and U.S. plus non-U.S.	occurred in 2% o ipated in U.S. Ma Panic Disorder	or more patients trea lajor Depressive Disor r controlled clinical tri
Psychiatric Disorders 2.10 Use of Fluoxetine Oral Solution with Other MAOIs such as Linezolid or Methylene Blue DOSAGE FORMS AND STRENGTHS	10.3 Management of Overdose     DESCRIPTION     LECTRICAL PHARMACOLOGY	Ithium, tramadol, buspirone, tryptophan souchars/loca usg/sc. Lohn'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.	Table 4 provides combined data for the Table 3: Most Common Treatment-Eme OCD, Bulimia, and Panic Disorder Plac	pool of studies that are provid ergent Adverse Reactions: In	/ided separately b Incidence in Maj	by indication in Table
CONTRAINDICATIONS 4.1 Monoamine Oxidase Inhibitors (MAOIs)	12.1 Mechanism of Action 12.2 Pharmacodynamics 12.3 Pharmacokinetics	Treatment with fluoxetine and any concomitant serotonergic agents, should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.	Soc, Summa, and Fanic Disorder Plac	Percentage of Patients Re		
4.2 Other Contraindications WARNINGS AND PRECAUTIONS	12.3 Pharmacokinetics 12.4 Specific Populations 13 NONCLINICAL TOXICOLOGY	5.3 Allergic Reactions and Rash In U.S. fluoxetine clinical trials, 7% of 10,782 patients developed various types of rashes and/or urticaria.	Major Depressive Disorder	OCD Buli	limia	Panic Disorder
5.1       Clinical Worsening and Suicide Risk         5.2       Serotonin Syndrome         5.3       Allergic Reactions and Rash	<ul><li>13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility</li><li>13.2 Animal Toxicology and/or Pharmacology</li></ul>	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	Body System/ Fluoxetine Placebo	Fluoxetine Placebo Fluox	xetine Placeb	o Fluoxetine Place
5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania 5.5 Seizures	14 CLINICAL STUDIES 14.1 Major Depressive Disorder 14.2 Obsessive Compulsive Disorder	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.	Adverse (N=1728) (N=975) Reaction	(N=266) (N=89) (N=4	=450) (N=267	7) (N=425) (N=34
5.6 Altered Appetite and Weight 5.7 Abnormal Bleeding 5.8 Angle-Closure Glaucoma	14.2 Bulimia Nervosa 14.4 Panic Disorder	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	Body as a Whole Asthenia 9 5	15 11 2	21 9	7 7
5.9 Hyponatremia 5.10 Anxiety and Insomnia	16 HOW SUPPLIED/STORAGE AND HANDLING 16.1 How Supplied 16.2 Supplied	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 suggestive of serum sickness. Since the introduction of fluoxetine, systemic reactions, possibly related to vasculitis and including lupus-like	Flu syndrome 3 4		8 3	5 5
5.11 0T Prolongation 5.12 Use in Patients with Concomitant Illness 5.13 Potential for Cognitive and Motor Impairment.	16.2 Storage and Handling <b>PATIENT COUNSELING INFORMATION</b> 17.1 General Information	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.	System     Vasodilatation   3	5 - 2	2 1	1 -
5.14 Long Elimination Half-Life 5.15 Discontinuation Adverse Reactions	17.2 Clinical Worsening and Suicide Risk 17.3 Serotonin Syndrome	Anaphylactoid reactions, including bronchospasm, angioedema, laryngospasm, and urticaria alone and in combination, have been reported.	Digestive System			
5.16 Sexual Dysfunction ADVERSE REACTIONS 6.1 Officient Trials Experience	17.4 Allergic Reactions and Rash 17.5 Abnormal Bleeding 17.6 Angle-Closure Glaucoma	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 proteins reactions and raph have occurred with dyspnea as the only preceding symptom.	Nausea219Diarrhea128	18 13 8	29 11 8 6	12 7 9 4
6.1 Clinical Trials Experience     6.2 Other Reactions     6.3 Postmarketing Experience	17.7 Hyponatremia 17.8 QT Prolongation	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 the appearance of rash or of other possibly allergic phenomena for which an atternative actionau constant beindertified. Iterationau to a structure the appearance of the possibly allergic phenomena for which an atternative actionau constant beindertified.	Anorexia112Dry mouth107	17         10         8           12         3         9	8 4 9 6	4 1 4 4
DRUG INTERACTIONS 7.1 Monoamine Oxidase Inhibitors (MAOI)	17.9 Potential for Cognitive and Motor Impairment 17.10 Use of Concomitant Medications 17.11 Discontinuation of Treatment	which an alternative etiology cannot be identified, fluoxetine should be discontinued. 5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania A maior Approaching and the initial presentation of Bipolar Disorder. It is apparely believed (though be	Dyspepsia 7 5 Nervous		10 6	6 2
7.2 CNS Acting Drugs     7.3 Serotonergic Drugs     7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin)	<ul><li>17.12 Use in Specific Populations</li><li>17.13 Sexual Dysfunction</li></ul>	A major depressive episode may be the initial presentation of Bipolar Disorder. It is generally believed (though 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 summore described for clinical worsening and suicide risk represent such a conversion is unknown to the summore described for clinical worsening and suicide risk represent such a conversion is unknown to the summore described for clinical worsening and suicide risk represent such a conversion is unknown the summore described for clinical worsening and suicide risk represent such a conversion is unknown the summore described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such a conversion is unknown the summary described for clinical worsening and suicide risk represent such as the summary of	System Insomnia 16 9		33 13	10 7
7.5 Electroconvulsive Therapy (ECT)	*Sections or subsections omitted from the full prescribing information are not listed.	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 operibidite bitchoru, including a family bitchoru of suicida Bipolar Disorder, and depression It should	Anxiety 12 7 Nervousness 14 9	14 15 1	15         9           11         5           12         5	6 2 8 6
PRESCRIBING INFORMATION WARNING: SUICIDAL THOUGHTS AND BEHAVIORS	how long to continue fluxetine, OCD is a chronic condition and it is reasonable to consider continuation for a responding patient. Although the efficacy of fluxetine after 13 weeks has not been documented in controlled trials, adult patients have been continued in therapy under double-blind conditions for up to an additional	detailed psychiatric history, including a family history of suicide, Bipolar Disorder, and depression. It should be noted that fluoxetine oral solution is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder.	Somnolence         13         6           Tremor         10         3	9 1 1	13 5 13 1	5 2 3 1
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	6 months without loss of benefit. However, dosage adjustments should be made to maintain the patient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for treatment. 2.3 Bulimia Nervosa	of patients 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	Libido 3 - Abnormal 1 1	11 2 5	5 1	1 2
a reduction in risk with antidepressant use in patients aged 65 and older [ <i>see Warnings and Precautions (5.1)</i> ].	Initial Treatment — 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	marketed drugs effective in the treatment of Major Depressive Disorder [see Use in Specific Populations (8.4)]. In U.S. placebo-controlled clinical trials for OCD, mania/hypomania was reported in 0.8% of patients treated	dreams <sup>1</sup> Respiratory	5 2 5	5 3	
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	Clinical Studies (14.3). Only the 60 mg dose was statistically significantly superior to placebo in educing the frequency of binge-eating and vomiting. Consequently, the recommended dose is 60 mg/day, administered in the morning. For some patients it may be advisable to titrate up to this target dose over several days. Fluoxetine	with fluoxetine and no patients treated with placebo. No patients reported mania/hypomania in U.S. placebo- controlled clinical trials for bulimia. In U.S. fluoxetine clinical trials, 0.7% of 10,782 patients reported mania/ hypomania [see Use in Specific Populations (8.4)].	System     Pharyngitis   3		10 5	3 3
Warnings and Precautions (5.1)]. Fluoxetine oral solution is not approved for use in children less than 7 years of age [see	doses above 60 mg/day have not been systematically studied in patients with bulimia. Maintenance/Continuation Treatment — Systematic evaluation of continuing fluoxetine 60 mg/day for periods	5.5 Seizures In U.S. placebo-controlled clinical trials for Major Depressive Disorder, convulsions (or reactions described	Sinusitis 1 4 Yawn		6 4 11 -	2 3 1 -
Warnings and Precautions (5.1) and Use in Specific Populations (8.4)].	of up to 52 weeks in patients with builmia who have responded while taking fluoxetine 60 mg/day during an 8 week acute treatment phase has demonstrated a benefit of such maintenance treatment [see <i>Clinical Studies</i> (14.3)]. Nevertheless, patients should be periodically reassessed to determine the need for maintenance	as possibly having been seizures) were reported in 0.1% of patients treated with flucoxetine and 0.2% of patients treated with placebo. No patients reported convulsions in U.S. placebo-controlled clinical trials for either OCD or bulimia. In U.S. flucoxetine clinical trials, 0.2% of 10,782 patients reported convulsions. The	Skin and Appendages	7	8	0 -
Major Depressive Disorder xetine is indicated for the acute and maintenance treatment of Major Depressive Disorder in adult patients	treatment. 2.4 Panic Disorder	percentage appears to be similar to that associated with other marketed drugs effective in the treatment of Major Depressive Disorder. Fluxetine should be introduced with care in patients with a history of seizures.	Sweating     8     3       Rash     4     3		8 3 4 4	2 2 2 2
n pediatric patients aged 8 to 18 years [see Clinical Studies (14.1)]. isefulness of the drug in adult and pediatric patients receiving fluoxetine for extended periods should dically be re-evaluated [see Dosage and Administration (2.1)].	Initial Treatment — 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 <i>Clinical</i> <i>Studies</i> (14.4)]. Treatment should be initiated with a dose of 10 mg/day. After one week, the dose should	Significant weight loss, especially in underweight depressed or bulimic patients, may be an undesirable result	Urogenital System Impotence <sup>‡</sup> 2 -		7 -	1 -
Olically be re-evaluated [see Dosage and Administration (2.1)]. Obsessive Compulsive Disorder etine is indicated for the acute and maintenance treatment of obsessions and compulsions in adult	be increased to 20 mg/day. The most frequently administered dose in the 2 flexible-dose clinical trials was 20 mg/day. A dose increase may be considered after several weeks if no clinical improvement is observed. Fluoxetine	In U.S. 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	Abnormal ejaculation <sup>‡</sup>	7 -	7 -	2 1
ts and in pediatric patients aged 7 to 17 years with Obsessive Compulsive Disorder (OCD) [see Clinical as (14.2)].	doses above 60 mg/day have not been systematically evaluated in patients with Panic Disorder. Maintenance/Continuation Treatment — While there are no systematic studies that answer the question of how	have patients discontinued treatment with fluoxetine because of anorexia or weight loss [see Use in Specific Populations (8.4)].	<ul> <li>Incidence less than 1%.</li> <li><sup>†</sup> Includes U.S. data for Major Depressiv U.S. data for Panic Disorder clinical trial</li> </ul>	S.		
effectiveness of fluoxetine in long-term use, i.e., for more than 13 weeks, has not been systematically lated in placebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended	long to continue fluoxetine, panic disorder is a chronic condition and it is reasonable to consider continuation for a responding patient. Nevertheless, patients should be periodically reassessed to determine the need for continued treatment.	In U.S. 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)].	<sup>‡</sup> Denominator used was for males only Depressive Disorder; N = 116 fluoxetine Bulimia; N = 162 fluoxetine Panic Disord	N = 690 fluoxetine Major Dep OCD; N = 43 placebo OCD; I	N = 14 fluoxetin	
ods should periodically re-evaluate the long-term usefulness of the drug for the individual patient [see	2.7 Dosing in Specific Populations Treatment of Pregnant Women — When treating pregnant women with fluoxetine, the physician should	In U.S. 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	Table 4: Treatment-Emergent Adverse and Panic Disorder Placebo-Controlled	Reactions: Incidence in Maj	,	Disorder, OCD, Bulir
nds should periodically re-evaluate the long-term usefulness of the drug for the individual patient [ <i>see</i> age and Administration (2.2)]. Bulimia Nervosa	mutually consider the notantial sale and extended bench of the first of the	mg on average lost 0.45 kg compared with a gain of 0.16 kg by patients treated with placebo in the 16 week			f Patients Repor	-
bds should periodically re-evaluate the long-term usefulness of the drug for the individual patient [see gge and Administration (2.2)]. Bulimia Nervosa ketine is indicated for the acute and maintenance treatment of binge-eating and vomiting behaviors in adult nts with moderate to severe Bulimia Nervosa [see Clinical Studies (14.3)]. physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term	carefully consider the potential risks and potential benefits of treatment. Neonates exposed to SSRIs or SNRIs late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)].	double-blind trial. Weight change should be monitored during therapy. 5.7 Abnormal Bleeding		Major Depressive Disorde	er, OCD, Bulimi Combined	-
ods should periodically re-evaluate the long-term uséfulness of the drug for the individual patient [see age and Administration (2.2)]. Bulimia Nervosa xetine is indicated for the acute and maintenance treatment of binge-eating and vomiting behaviors in adult ints with moderate to severe Bulimia Nervosa [see <i>Clinical Studies</i> (14.3)]. physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term unless of the drug for the individual patient [see Dosage and Administration (2.3)]. Panic Disorder	SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)]. Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)]	5.7 Abnormal Bleeding SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, warfarin, and other anti-coagulants may add to this risk. Case				Disseho
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ods should periodically re-evaluate the long-term usefulness of the drug for the individual patient [see age and Administration (2.2)]. Bulimia Nervosa extine is indicated for the acute and maintenance treatment of binge-eating and vomiting behaviors in adult nts with moderate to severe Bulimia Nervosa [see Clinical Studies (14.3)]. physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term unless of the drug for the individual patient [see Dosage and Administration (2.3)]. Panic Disorder vatine is indicated for the acute treatment of Panic Disorder, with or without agoraphobia, in adult patients <i>Clinical Studies (14.4)</i> ]. effectiveness of fluoxetine in long-term use, i.e., for more than 12 weeks, has not been established in ebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended periods should odically re-evaluate the long-term usefulness of the drug for the individual patient [see Dosage and inistration (2.4)]. DSAGE AND ADMINISTRATION	SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)]. Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)] Hepatic Impairment — As with many other medications, a lower or less frequent dosage should be used 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 [see Clinical Pharmacology (12.4) and Warnings and Precautions (5.12)]. <b>2.8 Discontinuation of Treatment</b> Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].	5.7 Abnormal Bleeding SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammatory 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. Based on data from the published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Use in Specific Population (8.1)]. 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 increased 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)].		Fluoxetine		(N = 1673) 19 6
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bds should periodically re-evaluate the long-term usefulness of the drug for the individual patient [see age and Administration (2.2)]. Bullimia Nervosa xetine is indicated for the acute and maintenance treatment of binge-eating and vomiting behaviors in adult ints with moderate to severe Bullimia Nervosa [see <i>Clinical Studies</i> (14.3)]. physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term ulness of the drug for the individual patient [see <i>Dosage and Administration (2.3)</i> ]. <b>Panic Disorder</b> xetine is indicated for the acute treatment of Panic Disorder, with or without agoraphobia, in adult patients <i>Clinical Studies</i> (14.4)]. effectiveness of fluoxetine in long-term use, i.e., for more than 12 weeks, has not been established in ebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended periods should <i>pristration (2.4)</i> ]. <b>DSAGE AND ADMINISTRATION</b> <b>Major Depressive Disorder</b> <i>al Teatment</i> <i>It</i> — In controlled trials used to support the efficacy of fluoxetine, patients were administered morning to radio sufficiency Studies comparing fluoxetine 20, 40, and 60 mg/day to placebo indicates 20 mg/day is sufficient to obtain a satisfactory response in Major Depressive Disorder in most cases.	<ul> <li>SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)].</li> <li>Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)]</li> <li>Hepatic Impairment — As with many other medications, a lower or less frequent dosage should be used in patients with hepatic impairment [see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)].</li> <li>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)].</li> <li>2.8 Discontinuation of Treatment</li> <li>Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].</li> <li>2.9 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders</li> </ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammatory 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 gationitestinal bleeding. Based on data from the published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Use in Specific Population (8.1)]. Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.</li> <li>Patients should be cautioned about the increased 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)].</li> <li>5.8 Angle-Closure Glaucoma</li> </ul>	Body as a Whole Headache Asthenia Flu syndrome Fever	Fluoxetine (N = 2869) 21 11		(N = 1673) 19 6
odd should periodically re-evaluate the long-term usefulness of the drug for the individual patient [see age and Administration (2.2)].         Bullmin Nervosa         xatine is indicated for the acute and maintenance treatment of binge-eating and vomiting behaviors in adult antis with moderate to severe Bulimia Nervosa [see Clinical Studies (14.3)].         physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term unless of the drug for the individual patient [see Dosage and Administration (2.3)].         Panic Disorder         xetine is indicated for the acute treatment of Panic Disorder, with or without agoraphobia, in adult patients [Clinical Studies (14.4)].         effectiveness of fluoxetine in long-term use, i.e., for more than 12 weeks, has not been established in ebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended periods should patient [see Dosage and dirally re-evaluate the long-term usefulness of the drug for the individual patient [see Dosage and instration (2.4)].         DSAGE AND ADMINISTRATION         Major Depressive Disorder         at Treatment         tt — In controlled trials used to support the efficacy of fluoxetine, patients were administered morning us antigring from 20 to 80 mg/day. Studies comparing fluoxetine 20, 40, and 60 mg/day indicados: sequently, a dose of 20 mg/day, administered in the morning, is recommended as the initial dose.         see increase may be considered after several weeks if insufficient clinical improvement is observed. Doses e 20 mg/day may be administered on a once-a-day (morning) or BID schedule (i.e., morning and noon)	<ul> <li>SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)].</li> <li>Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)]</li> <li>Hepatic Impairment — As with many other medications, a lower or less frequent dosage should be used in patients with hepatic impairment [see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)].</li> <li>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)].</li> <li>2.8 Discontinuation of Treatment</li> <li>Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].</li> <li>2.9 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders</li> <li>At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine oral solution. Conversely, at least 5 weeks should be allowed after stopping fluoxetine oral solution before starting an MAOI intended to treat psychiatric disorders (4.1)].</li> <li>2.10 Use of Fluoxetine Oral Solution with Other MAOIs such as Linezolid or Methylene Blue</li> <li>Do not start fluoxetine oral solution in a patient who is being treated with linezolid or intravenous methylene</li> </ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, warfarin, and other anti-ocagulants 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 gationitestinal bleeding. Based on data from the published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Use in Specific Population (8.1)]. Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.</li> <li>Patients should be cautioned about the increased risk of bleeding associated with the concomitant use of fluxoxetine and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation [see Drug Interactions (7.4)].</li> <li>5.8 Angle-Closure Glaucoma</li> <li>The pupillary dilation that occurs following use of many antidepressant drugs including fluxotetine may trigger an angle closure attack in a patient with natomically narrow angles who does not have a patent indectorw.</li> <li>5.9 Hyponatremia</li> <li>Hyponatremia has been reported during treatment with SNRIs and SSRIs, including fluxoteine. In many cases, this hyponatremia has been reported during treatment with SNRIs and SSRIs.</li> </ul>	Body as a Whole Headache Asthenia Flu syndrome	Fluoxetine (N = 2869) 21 11 5		(N = 1673) 19 6
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SISAGE AND ADMINISTRATION Major Depressive Disorder al Treatment <i>It</i> — In controlled trials used to support the efficacy of fluoxetine, patients were administered morning scranging from 20 to 80 mg/day, studies comparing fluoxetine 20, 40, and 60 mg/day to placebo indicate 20 mg/day is sufficient to obtain a satisfactory response in Major Depressive Disorder in most cases. sequently, a dose of 20 mg/day, administered in the morning, is recommended as the initial dose. sequently, a dose of 20 mg/day, administered in the morning, is recommended as the initial dose. ve 20 mg/day may be administered on a once-a-day (morning) or BID schedule (i.e., morning and noon) should not exceed a maximu dose of 80 mg/day.	<ul> <li>SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)].</li> <li>Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)]</li> <li>Hepatic Impairment — As with many other medications, a lower or less frequent dosage should be used in patients with hepatic impairment [see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)].</li> <li>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)].</li> <li>2.8 Discontinuation of Treatment</li> <li>Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].</li> <li>2.9 Witching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders</li> <li>At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine oral solution. Conversely, at least 5 weeks should be allowed after stopping fluoxetine oral solution before starting an MAOI intended to treat psychiatric disorders [see Contraindications (4.1)].</li> <li>2.10 Use of Fluoxetine Oral Solution with Other MAOIs such as Linezolid or Methylene Blue</li> </ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluxetine, may increase the risk of bleeding reactions. Concomitant use of aspirin, nonsteroidal anti-inflammatory 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 garicularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Use in Specific Population (8.1)]. Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.</li> <li>Patients should be cautioned about the increased risk of bleeding associated with the concomitant use of fluxetine and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation [see Drug Interactions (7.4)].</li> <li>5.8 Angle-Closure Glaucoma</li> <li>Angle-Closure Glaucoma</li> <li>The pupillary dilation that occurs following use of many antidepressant drugs including fluxetine may trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy.</li> <li>5.9 Hyponatremia has been reported during treatment with SNRIs and SSRIs, including fluxetine. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antiduretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported and appeared to be reversible who are potent and patient with are who are epited and appeared to be reversible who are patient as potented. Elderly patients may be at greater risk of developing hyponatremia with SNRIs and SSRIs. Also, patients kaing diuretics or who are otherwise volume depleted may be at greater risk of developing hyponatremia with SNRIs and SSRIs. Also, patients kaing diuretics or who are otherwise volume depleted may be at greater risk of developi</li></ul>	Body as a Whole         Headache         Asthenia         Flu syndrome         Fever         Cardiovascular System	Fluoxetine (N = 2869) 21 11 5 2		(N = 1673) 19 6
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A dose increase to 20 mg/day, may be considered after several weeks if insufficient clinical improven	<ul> <li>SNRIs fate in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)].</li> <li>Geriatric — A lower or less frequent dosage should be considered for the elderly [see Use in Specific Populations (8.5)]</li> <li>Hepatic Impairment — As with many other medications, a lower or less frequent dosage should be used in patients with hepatic impairment [see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)].</li> <li>Concomitant Illness — Patients with concurrent disease or on multiple concomitant medications (8.6)].</li> <li>Suscontinuation of Treatment</li> <li>Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].</li> <li>Subicontinuation of Treatment</li> <li>Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported [see Warnings and Precautions (5.15)].</li> <li>Subicontinuation of therapy with fluoxetine oral solution. 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Conversely, at least 5 weeks should be allowed after stopping fluoxetine oral solution before starting an MAOI intended to treat psychiatric disorders (4.1)].</li> <li><b>2.10 Use of Fluoxetine Oral Solution with Other MAOIs such as Linezolid or Methylene Blue</b></li> <li>Du not start fluoxetine oral solution in a patient who is being treated with linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue with fluoxetine oral solution is a paticular patient, fluoxetine oral solution before starting or intra</li></ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluxetine, may increase the risk of bleeding reactions. 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Bleeding reactions related to SNRIs and SSRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.</li> <li>Patients should be cautioned about the increased risk of bleeding associated with the concomitant use of fluoxetine and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation [<i>see Drug Interactions (7.4)</i>].</li> <li><i>5.4 Migle-Closure Glaucoma</i></li> <li>The pupilary 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.</li> <li><i>5.4 Hyponatremia</i></li> <li>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). 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Conversely, at least 5 weeks should be allowed after stopping fluoxetine oral solution before starting an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine oral solution is patient who is being treated with linezolid or intravenous methylene bue because there is an increased risk of serotonin syndrome. In a patient who requires more urgent treatment with teament of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.1)].</li> <li>In some cases, a patient already receiving fluoxetine oral solution intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are not available and the potential benef</li></ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluoxetine, may increase the risk of bleeding reactions. 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In a patient two requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered [<i>see Contraindications (4.1)]</i>.</i></li> <li>In some cases, a patient laready receiving fluoxetine oral solution therapy may require urgent treatment with linezolid or intravenous methylene blue. <i>La captable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue. <i>La captable alternatives to li</i></i></li></ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluxetine, may increase the risk of bleeding reactions. Concomitant use of apprin, nonstroidal anti-inflammatory drugs, warfarin, and other anti-coagulants may add to this risk. 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In a patient with requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.7)].</b></li> <li>In some cases, a patient already receiving fluoxetine oral solution therapy may require urgent treatment with linezolid or intravenous methylene blue treatment with fluozotine or al solution should be stopped promptly, and linezolid or intravenous methylene blue (see daministering methy</li></ul>	<ul> <li>5.7 Abnormal Bleeding</li> <li>SNRIs and SSRIs, including fluxetine, may increase the risk of bleeding reactions. Concomitant use of apprin, nonstroidal anti-inflammatory 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. 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# **MEDICATION GUIDE**

Fluoxetine Oral Solution, USP

(floo ox' e teen)

Read the Medication Guide that comes with fluoxetine oral solution 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 oral solution?

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

1. Suicidal thoughts or actions:

- Fluoxetine oral solution 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 oral solution is started or when the dose is changed.

sweating or fever

muscle rigidity

dizziness

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

• nausea, vomiting, or diarrhea

trouble sleeping

- an increase in activity or talking more than what is normal for you
- other unusual changes in behavior or

Problems getting or keeping an erection

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

- 2. Serotonin Syndrome. This condition can be life-threatening and 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 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 oral solution and other antidepressant medicines may increase your risk of bleeding or bruising, especially if you take the blood thinner warfarin (Coumadin <sup>®</sup>, Jantoven <sup>®</sup>), a non-steroidal anti-inflammatory drug (NSAIDs, like ibuprofen or naprox-
- en), or aspirin.
- 5. Visual Problems
- eye 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

greatly increased energy

severe trouble sleeping

7. Manic episodes:

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 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:
- fast, slow, or irregular heartbeat shortness of breath dizziness or fainting
- 11. Sexual problems (dysfunction). Taking selective serotonin reuptake inhibitors (SSRIs), including fluoxetine, may cause sexual problems. Symptoms in males may include:

Decreased sex drive

- Delayed ejaculation or inability to have an ejaculation
- Symptoms in females may include:
- Decreased sex drive
- Delayed orgasm or inability to have an orgasm

Talk to your healthcare provider if you develop any changes in your sexual function or if you have any questions or concerns about sexual problems during treatment with fluoxetine. There may be treatments your healthcare provider can suggest. Do not stop fluoxetine oral solution without first talking to your healthcare provider. Stopping fluoxetine oral solution too quickly may

cause serious symptoms including:

- anxiety, irritability, high or low mood, feeling restless or changes in sleep habits • headache, sweating, nausea, dizziness
- electric shock-like sensations, shaking, confusion

#### What is fluoxetine oral solution?

Fluoxetine oral solution is 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 choices with your healthcare provider. Fluoxetine oral solution is used to treat:

- Major Depressive Disorder (MDD)
- Bulimia Nervosa \* Obsessive Compulsive Disorder (OCD)
- \* Not approved for use in children
- Panic Disorder \*
- Talk to your healthcare provider if you do not think that your condition is getting better with fluoxetine oral solution treatment.

#### Who should not take fluoxetine oral solution?

Do not take fluoxetine oral solution if you:

high fever

- are allergic to fluoxetine hydrochloride or any of the ingredients in fluoxetine oral solution. See the end of this Medication Guide for a complete list of ingredients in fluoxetine oral solution.
- take a Monoamine Oxidase Inhibitor (MAOI). Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including the antibiotic linezolid.
- Do not take an MAOI within 5 weeks of stopping fluoxetine oral solution unless directed to do so by your physician.
- Do not start fluoxetine oral solution if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your physician. People who take fluoxetine oral solution close in time to an MAOI may have serious or even life-threatening side effects. Get medical

confusion

# help right away if you have any of these symptoms:

- rapid changes in heart rate or blood pressure
- uncontrolled muscle spasms stiff muscles
- loss of consciousness (pass out)
- take Mellaril<sup>®</sup> (thioridazine). Do not take Mellaril<sup>®</sup> within 5 weeks of stopping fluoxetine oral solution because this can cause serious heart rhythm problems or sudden death.
- take the antipsychotic medicine pimozide (Orap®) because this can cause serious heart problems.

mood

- flushing
- seizures

- tremor

What should I tell my healthcare provider before taking fluoxetine oral solution? Ask if you are not sure.

Before starting fluoxetine oral solution, tell your healthcare provider if you:

- Are taking certain drugs or treatments such as: Amphetamines
- Triptans used to treat migraine headache
- Medicines used to treat mood, anxiety, psychotic or thought disorders, including tricyclics, lithium, buspirone, SSRIs, SNRIS, MAOIS or antipsychotics
- tramadol, fentanyl, meperidine, methadone, or other opioids • Over-the-counter supplements such as tryptophan or St.
- John's Wort
- Electroconvulsive therapy (ECT)
- have liver problems
- have kidney problems
- have heart problems

#### Tell your healthcare provider about all the medicines that you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Fluoxetine oral solution and some medicines may interact with each other, may not work as well, or may cause serious side effects.

Your healthcare provider or pharmacist can tell you if it is safe to take fluoxetine oral solution with your other medicines. Do not start or stop any medicine while taking fluoxetine oral solution without talking to your healthcare provider first.

Prozac <sup>®</sup> Weekly<sup>™</sup>

- If you take fluoxetine oral solution, you should not take any other medicines that contain fluoxetine hydrochloride including:
- Symbyax ® Sarafem <sup>®</sup>

### How should I take fluoxetine oral solution?

 Take fluoxetine oral solution exactly as prescribed. Your healthcare provider may need to change the dose of fluoxetine oral solution until it is the right dose for you.

- Fluoxetine oral solution may be taken with or without food.
- If you miss a dose of fluoxetine oral solution, take the missed dose as soon as you remember. If it is almost time for the next dose, skip the missed dose and take your next dose at the regular time. Do not take two doses of fluoxetine oral solution at the same time.
- If you take too much fluoxetine oral solution, call your healthcare provider or poison control center right away, or get emergency treat-

### What should I avoid while taking fluoxetine oral solution?

Fluoxetine oral solution 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 oral solution affects you. Do not drink alcohol while using fluoxetine oral solution.

What are the possible side effects of fluoxetine oral solution?

Fluoxetine oral solution may cause serious side effects, including:

- See "What is the most important information I should know about fluoxetine oral solution?"
- Problems with blood sugar control. People who have diabetes and take fluoxetine oral solution may have problems with low blood sugar while taking fluoxetine oral solution. High blood sugar can happen when fluoxetine oral solution is stopped. Your healthcare provider may need to change the dose of your diabetes medicines when you start or stop taking fluoxetine oral solution.

vawning

sweating

hot flashes

• rash

#### Feeling anxious or trouble sleeping

- Common possible side effects in people who take fluoxetine oral solution include:
- unusual dreams

ment.

- sexual problems
- loss of appetite, diarrhea, indigestion, nausea or vomiting,
- weakness, or dry mouth
- flu symptoms
- feeling tired or fatigued
- change in sleep habits

Other side effects in children and adolescents include:

heavy menstrual periods

sinus infection or sore throat

feeling anxious or nervous

tremor or shaking

- abnormal increase in muscle movement or agitation
- nose bleed urinating more often

increased thirst

height and weight should be monitored during treatment with fluoxetine oral solution.

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

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 oral solution. For more information, ask your healthcare provider or pharmacist.

CALL YOUR DOCTOR FOR MEDICAL ADVICE ABOUT SIDE EFFECTS. YOU MAY REPORT SIDE EFFECTS TO THE FDA AT 1-800-FDA-1088. How should I store fluoxetine oral solution?

Store fluoxetine oral solution at room temperature between 20° to 25°C (68° to 77°F).

Keep fluoxetine oral solution away from light.

Keep fluoxetine oral solution and all medicines out of the reach of children.

## General information about fluoxetine oral solution

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use fluoxetine oral solution for a condition for which it was not prescribed. Do not give fluoxetine oral solution to other people, even if they have the same condition. It may harm them.

This Medication Guide summarizes the most important information about fluoxetine oral solution. If you would like more information, talk with your healthcare provider. You may ask your healthcare provider or pharmacist for information about fluoxetine oral solution that is written for healthcare professionals.

For more information, please contact Nostrum Laboratories, Inc. at guality@nostrumpharma.com or 1-877-770-1288.

#### What are the ingredients in fluoxetine oral solution?

Active ingredient: fluoxetine hydrochloride

Inactive ingredients: glycerin, sucrose, benzoic acid, dehydrated alcohol, natural spearmint flavor and purified water.

Symbyax<sup>®</sup> and Sarafem<sup>®</sup> are registered trademarks of Eli Lilly and Company.

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#### Manufactured by:

Nostrum Laboratories Inc. Bryan, OH 43506

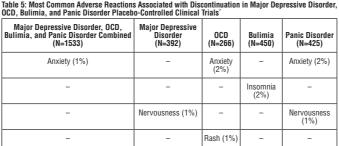
This Medication Guide has been approved by the U.S. Food and Drug Administration 7324T03 lss: 08/23

- have or had seizures or convulsions
- have bipolar disorder or mania have low sodium levels in your blood
- have a history of a stroke
- have high blood pressure have or had bleeding problems
- are pregnant or plan to become pregnant. It is not known if fluoxetine oral solution will harm your unborn baby. Talk to your healthcare provider about the benefits and risks of treating depression during pregnancy.
- are breast-feeding or plan to breast-feed. Some fluoxetine may pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby while taking fluoxetine oral solution

#### Respiratory System Skin and Appendages Sweating Rash 4 3 Pruritus 3 2 Special Senses Abnormal visio

Incidence less than 1% Includes U.S. data for Major Depressive Disorder, OCD, Bulimia, and Panic Disorder clinical trials plus non-U.S. 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 Majo OCD, bulimia, and Panic Disorder clinical trials, plus non-U.S. Panic Disorder clinical trials



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

Other adverse reactions in pediatric patients (children and adolescents) — Treatment-emergent adverse reactions were collected in 322 pediatric patients (180 fluxetine-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 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 incidence of at least 2% for fluxestine and greater than placebo: thirst, hyperkinesia, agitation, personality disorder, epistaxis, urinary frequency, and menorrhagia.

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 with discontinuation was collected.

Male and female sexual dysfunction with SSRIs - Although changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that SSRIs can cause such untoward sexua

eliable estimates of the incidence and severity of untoward experiences involving sexual desire rformance, and satisfaction are difficult to obtain, however, in part because patients and physicians may e reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance, cited in product labeling, are likely to underestimate their actual incidence. In patients enrolled in J.S. Major 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 fluoxetine of orgasmic dysfunction, including anorgasmia. here are no adequate and well-controlled studies examining sexual dysfunction with fluoxetine treatment.

Symptoms of sexual dysfunction occasionally persist after discontinuation of fluoxetine treatment. Prianism has been reported with all SSBIs While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely inquire about such possible side effects.

6.2 Other Reactions

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

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 to 1/1000 patients; rare reactions are those occurring in fewer than 1/1000 patients. Body as a Whole - Frequent: chills; Infrequent: suicide attempt; Rare: acute abdominal syndrome,

Cardiovascular System - Frequent: palpitation; Infrequent: arrhythmia, hypotension Digestive System - Infrequent: dysphagia, gastritis, gastroenteritis, melena, stomach ulcer; Rare: bloody iarrhea, duodenal ulcer, esophageal ulcer, gastrointestinal hemorrhage, hematemesis, hepatitis, peptic ulcei stomach ulcer hemorrhade

Hemic and Lymphatic System - Infrequent: ecchymosis; Rare: petechia, purpura. Nervous System – Frequent: emotional lability; Infrequent: akathisia, ataxia, balance disorder<sup>1</sup>, bruxism<sup>1</sup>, buccoglossal syndrome, depersonalization, euphoria, hypertonia, libido increased, myoclonus, paranoid reaction; *Rare*: delusions.

Resniratory System - Rare: larynx edema.

Skin and Appendages – Infrequent: alopecia; Rare: purpuric rash. Special Senses - Frequent: taste perversion; Infrequent: mydriasis.

Jrogenital System – Frequent: micturition disorder; Infrequent: dysuria, gynecological bleeding

1 MedDRA dictionary term from integrated database of placebo controlled trials of 15,870 patients, of which 9.673 patients received fluoxetine. 2 Group term that includes individual MedDRA terms: cervix hemorrhage uterine, dysfunctional uterine bleeding, genital hemorrhage, menometrorrhagia, menorrhagia, metrorrhagia, postmenopausal hemorrhage, uterine hemorrhage, vaginal hemorrhage. Adjusted for gender. hagia, polymenorrhea,

6.3 Postmarketing Experience The following adverse reactions have been identified during post approval use of fluoxetine. Because these reactions are reported voluntarily from a population of uncertain size, it is difficult to reliably estimate their frequency or evaluate a causal relationship to drug exposure.

Voluntary reports of adverse reactions temporally associated with fluoxetine that have been received since market introduction and that may have no causal relationship with the drug include the following: aplastic anemia, atrial fibrillation<sup>1</sup>, cataract, cerebrovascular accident<sup>1</sup>, cholestatic jaundice, dyskinesia (including, or 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), essingphilic pneumonia', epidermal necrolysis, erythema multiforme, erythema nodosum, exfoliative dermatitis, galactorrhea, gynecomastia, heart arrest', hepatic failure/necrosis, hypeprotoactinemia, 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 torsades de pointes-type arrhythmis); variatel bleeding, and vielent behaviors' drug reactions with osignonbilia and systemic symdromes mias), vaginal bleeding, and violent behaviors<sup>1</sup>, drug reaction with eosinophilia and systemic symptoms

(DRESS), and anosmia, hyposmia. These terms represent serious adverse events, but do not meet the definition for adverse drug reactions. They are included here because of their seriousness. 7 DRUG INTERACTIONS

As with all drugs, the potential for interaction by a variety of mechanisms (e.g., pharmacodynamic, pharmacokinetic drug inhibition or enhancement, etc.) is a possibility. 7.1 Monoamine Oxidase Inhibitors (MAOI)

See Dosage and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)]. 7.2 CNS Acting Drugs

(12.3)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

7.3 Serotoneraic Druas

Pharmacology (12.3)]

alprazolam level

Precautions (5.2)

[See Dosage and Administration (2.9, 2.10), Contraindications (4.1), and Warnings and Precautions (5.2)]. 7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin)

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohord deging 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 NSAID 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 discontinues [see Warnings and Precautions (5.7)]. 7.5 Electroconvulsive Therapy (ECT)

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. 9 DRUG ABUSE AND DEPENDENCE 9.3 Dependence 7.6 Potential for Other Drugs to Affect Fluoxetine

Drugs Tightly 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 Potential for Fluoxetine to Affect Other Drugs

(7.0). Thioridazine — Thioridazine should not be administered with fluoxetine or within a minimum of 5 weeks after fluoxetine has been discontinued, because of the risk of QT Prolongation [see Contraindications (4.2),

In a study of 19 healthy mela 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 Cmax 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 CVP2D6 isozyme activity. Thus, this study suggests that drugs which inhibit CVP2D6, such as certain SSRIs, including fluoxetine, will produce elevated plasma levels of thioridazine.

expected to increase with fluoxetine-induced inhibition of thioridazine metabolism. Drugs Metabolized by CVP2D6 — Fluoxetine inhibits the activity of CVP2D6, and may make individuals with normal CVP2D6 metabolic activity resemble a poor metabolizer. Coadministration of fluoxetine with other drugs that are metabolized by CVP2D6, including certain antidepressants (e.g., TCAs), antipsychotics (e.g., phenothiazines and most atypicals), and antiarrhythmics (e.g., propafenone, flecainide, and others) should be approached with caution. Therapy with medications that are predominantly metabolized by the CVP2D6 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 dosign 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 [see Contraindications (4.2)]. *Tricyclic Antidepressants (TCAs)* — In 2 studies, previously stable plasma levels of imipramine and

Tricyclic Articlepressants (TCAs) — In 2 studies, previously stable plasma levels of impranine and desipramine have 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 enduced 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 Department (13.2).

Benzodiazepines — 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

Lithium — There have been reports of both increased and decreased lithium levels when lithium was used

Warnings and Precautions (5.11), and Drug Interactions (7.8)

Drugs Metabolized by CYP3A4 — In an in vivo interaction study involving coadministration of fluoxetine with 11 DESCRIPTION single doses of terfenadine (a CYP3A4 substrate), no increase in plasma terfenadine concentrations occurred mitant fluoxetine additionally, in vitro studies have shown ketoconazole, a potent inhibitor of CYP3A4 activity, to be at least 100

times more potent than fluoxetine or norfluoxetine as an inhibitor of the metabolism of several substrates for this enzyme, including astemizole, cisapride, and midazolam. These data indicate that fluoxetine's extent of inhibition of CYP3A4 activity is not likely to be of clinical significance. 7.8 Drugs that Prolong the QT Interval

Do not use fluoxetine in combination with thioridazine or pimozide. Use fluoxetine with caution in combination Do not use fluoxetine in combination with thioridazine or pimozide. Use fluoxetine with caution in combination with other drugs that cause QT prolongation. These include: specific antibisychotics (e.g., ziprasidone, iloperidone, chlorpromazine, mesoridazine, droperidol); specific antibiotics (e.g., erythromycin, gatifloxacin, moxifloxacin, sparfloxacin); Class 1A antiarrhythmic medications (e.g., guinidine, procainamide); Class III antiarrhythmics (e.g., amiodarone, sotalol); 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. random and the second s

**8 USE IN SPECIFIC POPULATIONS** 

8.1 Pregnancy

8.3 Nursing Mothers

8.4 Pediatric Use

Precautions (5.6)

10.2 Animal Experience

with conco

Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus All pregnancies have a background risk of birth defects, loss, or other adverse outcome regardless of drug Treatment of Pregnant Women during the First Trimester - 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 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 the European Network of Teratology Information Services reported an increased risk of cardiovascular malformations in interact ber to worse? 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

rdiovascular malformations. Overall, however, a causal relationship has not been established. cardiovascular malformations. Overall, however, a causal relationship has not been established. Non-teratogenic Effects — Based on data from published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorthage [see Warnings and Precautions (5.7)]. 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, hypoglycemia, hypotonia, hypertonia, 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)]. Infante synosed to SSRIs in prennancy may have an increased risk for persistent nulmonary thereflexion of 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 morbality. Several recent epidemiological studies suggest a positive statistical association between SSRI use (including fluoxetine) in pregnancy and PPHN. Other studies do not chow a cimoticant cathetical association. how a significant statistical association

Physicians should also note the results of a prospective longitudinal study of 201 pregnant women with a

decision can only be made on a case by case basis (see *Uosage 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 recommended human dose (MRHD) of 80 mg on a mg/m<sup>2</sup> basis) throughout organogenesis. However, in rat reproduction studies, an increase in stillborn pups, a decrease in pup weight, and an increase in pup deaths during the first 7 days postpartum occurred following maternal exposure to 12 mg/kg/day (1.5 times the MRHD on a mg/m<sup>2</sup> basis) during gestation or 7.5 mg/kg/day (0.9 times the MRHD on a mg/m<sup>3</sup> basis) during gestation and lactation. There was no evidence of developmental neurotoxicity in the 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/m<sup>2</sup> basis).

Maternal Adverse Reactions — Use of fluoxetine in the month before delivery may be associated with an increased risk of postpartum hemorrhage [see Warnings and Precautions (5.7)]. 8.2 Labor and Deliverv

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

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.

Use of fluoxetine in children - The efficacy of fluoxetine 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  $\leq$  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)]. of age in OCD have not been established uoxetine pharmacokinetics were evaluated in 21 pediatric patients (ages 6 to  $\leq$  18) with Major Depressive isorder 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) were generally similar to that observed in adult studies with fluoxetine. The longer-term adverse reaction profile observed in the 19 week Major Depressive Disorder study (N = 219 randomized; 109 10 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%) uoxetine-treated patients and in 0 out of 190 (0%) placebo-treated patients. Mania ania led`to thé ntinuation of 4 (1.8%) fluox ketine-treated patients from the acute phases of the 3 studies combined. sequently, regular monitoring for the occurrence of mania/hypomania is recomm

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 fety of fluoxetine treatment for pediatric patients has not been systematically assessed for chronic treatment nger than several months in duration. In particular, there are no studies that directly evaluate the longer-term etine on the growth, development and maturation of children and adolescent patients. T height and weight should be monitored periodically in pediatric patients receiving fluoxetine [see Warnings

Fluxetine 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 fluxetine 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 coresponding 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). The high dose of 30 mg/kg/day corespectively [approximately 5 and normalities (decreased reactivity at AUC as low as of dosing), fluoxetine was associated with neurobehavioral abnormalities (decreased reactivity at AUC as low as or dosing), fluoxetine was associated with neurobehavioral abnormalities (decreased reactivity at AUC as low as and mercrosis. decreased this numals were evaluated after a drug-free period (up to 11 weeks after cessation of dosing), fluoxetine was associated with neurobehavioral abnormalities (decreased reactivity at AUC as low as many more patient of 15 times the MBHD on an omore hasis). Animal Data - Significant toxicity on muscle tissue, neurobehavior, reproductive organs, and bone development

 und in high dose group were also observed, indicating that the drug effects on reproductive organs are reversible. The reversibility of fluoxetine-induced muscle damage was not assessed.
 **13.2 Animal Toxicology and/or Pharmacology** These fluoxetine toxicities in juvenile rats have not been observed in adult animals. Plasma exposures (AUC) to Intest inducting in previous the previous and the set of the provided in additional international set of the provided in the provided in the provided in the provided in the provided international set of the pro

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 gramma decrease in bone mineralization and density at both doses, but the overall growth (body weight gain or femur length) was not affected. 14.1 Major Depressive Disorder Daily Dosing 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

9.3 Dependence
Flucxetine has not been systematically studied, in animals or humans, for its potential for abuse, tolerance, or physical dependence. While the premarketing clinical experience with flucxetine did not reveal any tendency for a withfarwal 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 carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abused once marketed. Conseq diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of fluoxetine (e.g., development of tolerance, incrementation of dose, drug-seeking behavior).

*Classified* and follow su development use in patients taking pimozide is contraindicated. Pimozide can prolong the CT interval. Fluoxetine can increase the level of pimozide through inhibition of CYP2D6. Fluoxetine can also prolong the CT interval. Clinical studies of pimozide with other antidepressants demonstrate an increase in drug interaction or CT 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 of Vertice there were the second se

depend on the level of CTP\_2Do Iso2/me adving. They, which is associated with such as certain SSRIs, including fluxosetine, will produce elevated plasma levels of thioridazine. 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 fluxosetine-induced inhibition of thioridazine metabolism. *Drugs Metabolized by CYP2D6* — Fluxosetine inhibits the activity of CYP2D6, and may make individuals with other are metabolice activity resemble a poor metabolizer. Coadministration of fluxosetine with other an intervent of COC. Tourette's syndrome with ics, attention deficit disorder, and fluxosetine with other the are entry fluxosetine with medicatines that are predominantly metabolized by CYP2D6, including certain antificer, e.g., TrOA), antipsychotics (e.g., phenothiazines and most atypicals), and antarrhythmics (e.g., propafenone, flecanide, and others) should be promethazine. Mixed-drug ingestion or other methods of suicide complicated all 6 overdoses in children that resultion flatilities. Thereavy with medications that are predominantly metabolized by CYP2D6 system. Other important adverse reactions reported with fluoxetine 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.

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

liately upon the bolus intravenous administration of a standard veterinary dose of diazepam. In this Exploratory analyses for age and gender effects on outcome did not suggest any differential responsiveness short-term study, the lowest plasma concentration at which a seizure occurred was only twice the maximum on the basis of age or sex 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)].

Antipsychotics — Some clinical data suggests a possible pharmacodynamic and/or pharmacokineti interaction between SSRIs and antipsychotics. Elevation of blood levels of haloperidol and clozapine has been observed in patients receiving concomitant fluoxetine.
 10.3 Management of Overdosage (10.3)].
 10.3 Management of fluoxetine overdose, contact a certified poison control center (1-800-272-1272) or www poison orn). Treatment should consist of these agerest processing in the management of fluoxetine overdose.

observed in patients receiving concomitant fluoxetine. (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. **14.3 Bulima Nervosa** Aniconviduant concentrations and clinical anticonvulsant toxicity following initiation of concontiant fluoxetine treatment.

Lithium — There have been reports of both increased and decreased lithium levels when lithium was used concomitantly with fluoxetine. Cases of lithium toxicity and increased serotonergic effects have been reported. Lithium levels should be monitored when these drugs are administered concomitantly [see Warnings and Precaritions (5.2)]. 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. Precautions (5.2). Drugs Tightly Bound to Plasma Proteins — Because fluoxetine is tightly bound to plasma proteins, the digitoxin) may cause a shift in plasma concentrations potentially resulting in an adverse effect [see Clinical Pharmacology (12.3).

oxetine hydrochloride is a psychotropic drug for oral administration. It is designated (±)-N-m 3-[( $\alpha,\alpha,\alpha$ -trifluoro-*p*-toly])oxy]propylamine hydrochoride and has the empirical formula of C<sub>17</sub>H<sub>18</sub>F<sub>3</sub>N0-HCl. Its molecular weight is 345.79. The structural formula is:

 $F_3C \longrightarrow 0 - CH CH_2CH_2NH CH_3 \cdot HCI$ 

luoxetine hydrochloride is a white to off-white crystalline solid with a solubility of 14 mg/mL in water The oral solution contains fluoxetine hydrochloride equivalent to 20 mg/5 mL (64.7 mcmol) of fluoxetine. It also contains glycerin, sucrose, benzoic acid, dehydrated alcohol, natural spearmint flavor and purified water. 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 euronal uptake of serotoni 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 associate various anticholinergic, sedative, and cardiovascular effects of classical tricyclic antidep vitro than do the tricyclic drugs. 12.3 Pharmacokinetics

 $\it Systemic Bioavailability$  — 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.

The capsule, tablet, and oral solution dosage forms of fluoxetine are bioequivalent. 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. otein Binding — Over the concentration range from 200 to 1000 ng/mL, approximately 94.5% of fluc bound *in vitro* to human serum proteins, including albumin and  $\alpha$ 1-glycoprotein. The interaction between Joxetine and other highly protein-bound drugs has not been fully evaluated, but may be important.

Enantiomers — Fluoxetine is a racemic mixture (50/50) 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

Metadoilsm — Flucketine is extensively metadoilzed in the liver to nortiuoxetine 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 metab 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 edication during pregnancy showed a significant increase in relapse of their major depression compared to these 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 rabits, 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, Because fluoxetine'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 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 fluoxetine (elimination half-life of 1 to 3 days after acute administration and 4 to 6 days after acute and chronic administration) and its active metabolite, norfluoxetine (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 does 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 linear pharmacokinetics. Its mean terminal half-life after a single dose was 8.6 days and ter multiple dosing was 9.3 days. Steady-state levels after prolonged dosing are similar to levels seen at 4 to 5 weeks. nulation and Slow Elimination — The relatively slow elimination of fluoxetine (elimination half-life of 1

The long elimination half-lives of fluoxetine and norfluoxetine assure that even when dosing is stopped, active The ong climitation has meet on thockarting and the model and a solution of the order of the ord

12.4 Specific Populations Liver Disase — 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 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 administration (2.7), Use in Specific Populations (8.6). Deerd Directors land demond and the an of black (M) - 100. History the disease must be approached and the angle height (M) - 100. The safety and effectiveness in pediatric patients < 8 years of age in Major Depressive Disorder and < 7 years Renal Disease — In depressed natients on dialysis (N = 12), fluoxetine administered as 20 mg once daily for 2 months produced steady-state fluoxetine and norfluoxetine plasma concentrations comparable seen in patients with normal renal function. While the possibility exists that renally excreted m rable with those Seen in patients with normal reliar influence, while the possibility exists that reliany excited interactions 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

version and the intervention of the disposition of single doses of notoenine in hearing electry subjects (> 66 years of ago) 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 upon 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 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 elderly patients. of 6 Weeks. No unusual age-associated pattern of adverse reactions was observed in those electry patients. Pediatric Pharmacokinetics (children and adolescents) — Fluoxetine pharmacokinetics were evaluated in 21 pediatric patients (10 children ages 6 to < 13, 11 adolescents ages 13 to < 18) diagnosed with Major Depressive Disorder or Obsessive 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 fluoxetine pharmacokinetics was observed. Similar ranges of fluoxetine and norfluoxetine plasma concentrations were observed in another study in 94 pediatric patients (ages 8 to < 18) diagnosed with Major Depressive Disorder. Histors areage teady-tasta fluoxetine and norfluoxetine 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, fluoxetine and norfluoxetine accumulated extensively following multiple oral dosing; steady-state concentrations were achieved within 3 to 4 weeks of daily dosing.

## 13 NONCLINICAL TOXICOLOGY

Carcinogenicity — The dietary administration of fluoxetine to rats and mice for 2 years at doses of up to 10 and 12 mg/kg/day, respectively [approximately 1.2 and 0.7 times, respectively, the maximum recommended human dose (MRHD) of 80 mg on a mg/m<sup>2</sup> basis], produced no evidence of carcinogenicity. Mutagenicity — Fluoxetine and norfluoxetine have been shown to have no genotoxic effects based on the following assays: bacterial mutation assay, DNA repair assay in cultured rat hepatocytes, mouse lymphoma assay, and *in vivo* sister chromatid exchange assay in Chinese hamster bone marrow cells.

dosing), fluoxetine was associated with neurobehavioral abnormalities (decreased reactivity at AUC as low as poproximately 0.1 to 0.2 times the average AUC in pediatric patients at the MRHD and learning deficit at the igh dose). In addition, the testicular and epididymal microscopic lesions and decreased sperm concentrations und in high dose arou were also network in the treated with fluoxetine [see upd dose specific Populations (8.4)].

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

Addit — The encacy of notice the was solution of and of week placebool on the unit appressed addit and geniatic 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 Depression Rating Scale (HAM-D). Fluoxetine was also significantly more effective than placebo on the HAM-D subscores for depressed mood, sleep disturbance, and the anxiet

in geriatric patients, [see *Clinical Pharmacology* (12-4)]. No overall differences in stately or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identify submater. 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 ( $\geq$  60 years of age) with dior Depressive Disorder. In these subjects, fluoxetine produced a significant HMAD- score and total endpoint HAM-D score and total endpoint HAM-D score reactions (5-9)]. The set of th onse and 7323T03 Iss 08/23 differ between fluoxetine (12%) and placebo (9%).

8.6 Hepatic Impairment
 In subjects with cirrhosis of the liver, the clearances of fluoxetine and its active metabolite, norfluoxetine, involving depressed utpatients 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-time should be used in patients with cirrhosis. Caution is advised when using fluoxetine in patients with cirrhosis that could affect its metabolism [see Dosage and Administration (2.7) and Clinical Pharmacology (12.4)].
 9 DRUG ABUSE AND DEPENDENCE
 9 DRUG ABUSE AND DEPENDENCE</li

Subgroup analyses on the CDRS-R total score did not suggest any differential responsiveness on the basis of age or gender 14.2 Obsessive Compulsive Disorder

10.1 Human Experience
 Worldwide exposure of lioxetine 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 the population, there were 195 deaths.
 A mong 633 adult patients who overdosed on fluoxetine hydrochloride alone, 34 resulted in a fatal outcome, accommodation, abnormal gait, confusion, unresponsiveness, nervousness, pulmonary dysfunction, vertiga, te tremor, elevated blood pressure, impotence, movement disorder, and hypomania. The remaining 206 patients n bad an unknown outcome. The most common signs and symptoms associated with non-fatal overdosage were setzures, 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, an ingestion as low as 520 mg has ben associated with lethal outcome, but causality has not been established.
 A mong pediatric patients (ages 3 months to 17 years), there were 156 cases of overdose involving fluoxetine in even to 15 cases of overdose involving fluoxetine along the intervention of the comment.

Fluovetine

			THUCKCHING					
Outcome Classification	Placebo	20 mg	40 mg	60 mg				
Worse	8%	0%	0%	0%				
No change	64%	41%	33%	29%				
Minimally improved	17%	23%	28%	24%				
Much improved	8%	28%	27%	28%				
Very much improved	3%	8%	12%	19%				
valoratory analyzes for any and gender effects on outcome did not suggest any differential responsiveness								

Pediatric (children and adolescents) — In one 13 week clinical trial in pediatric patients (N = 103 randomized; 75 children ages 7 to < 13, 28 adolescents ages 13 to < 18) with OCD (DSM-IV), patients received fluoxetine 10 mg/day for 2 weeks, followed by 20 mg/day for 2 weeks. The dose was then adjusted in the range of 20 to 60 mg/day on the basis of clinical response and tolerability. Fluoxetine produced a statistically significantly greater mean change from baseline to endpoint than did placebo as measured by the Children's Yale-Brown Obsessive Compulsive Scale (CY-BOCS).

Subgroup analyses on outcome did not suggest any differential responsiveness on the basis of age or gender.

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 study received a fixed fluoxetine of fluoxetine or placebo in the morning. Patients in the 16 week study received a fixed fluoxetine dose of 60 mg/day (once a day) or placebo. Patients in these 3 studies had moderate to severe bulimia with median binge-eating and vomiting frequencies ranging from 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 view and 5 to 9 per week, respectively. In these 5 studies induced to Hig, but not 20 million was statistically significantly superior to placebo in reducing the number of binge-teating 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 eductions seen in patients with higher baseline frequencies. Although some patients achieved fr bioge-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 Bullimia 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 worting frequency or provision subment that the orbitent fad elapsed. Patients receiving continued fluoxetine during the subment that the orbitent fad elapsed. omiting frequency or physician judgment that the patient had relapsed. Patients receiving continued fluoxetine 0 mg/day experienced a significantly longer time to relapse over the subsequent 52 weeks compared with se 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 isorder (DSM-IV), with or without agoraphobia Study 1 (N = 180 randomized) was a 12 week flexible-dose study. Fluoxetine was initiated at 10 mg/day for the

first week, after which patients were dosed in the range of 20 to 60 mg/day on the basis of clinical 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. Fluxetine was initiated at 10 mg/day for the first week, 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 fluxetine-treated patients were free from panic attacks at endpoint than placebo-treated patients, 62% versus 44%, respectively. 16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied Fluoxetine Oral Solution, USP (20 mg/5 mL) is available as a clear, colorless solution with a distinctive spearmint - like aroma. Supplied in 120 mL bottles (NDC 29033-503-31).

16.2 Storage and Handling Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. Protect from light.

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide)

Patients should be advised of the following issues and asked to alert their prescriber if these occur while 17.1 General Information

Healthcare providers should instruct their patients to read the Medication Guide before starting therapy with fluoxetine oral solution 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 oral solution 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

17.2 Clinical Worsening and Suicide Risk

11.2 cumca worsening and Suicide Risk 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 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 Sentonin Swnforme 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, opioids, lithium, tryptophan, buspirone, amphetamines, 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, delinium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular changes (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be cautioned to seek medical care immediately if they nce these symp 17.4 Allergic Reactions and Ras

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 experience these symptoms. 17.5 Abnormal Bleeding

Patients should be cautioned about the concomitant use of fluoxetine and NSAIDs, aspirin, warfarin, or other duces that affect coaguidation 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 iusual bruising or bleeding while taking fluoxetine 17.6 Angle-Closure Glaucoma

Patients should be advised that taking fluoxetine oral solution can cause mild pupillary dilation, which in Patients should be advised that taking fluoxetine oral solution can cause mild pupillary dilation, whi susceptible individuals, can lead to an episode of angle- closure glaucoma. Pre-existing glaucoma is a always open-angle glaucoma because angle- closure glaucoma, when diagnosed, can be treated defini with iridectomy. Open-angle glaucoma is not a risk factor for angle- closure glaucoma. Patients may w be examined to determine whether they are susceptible to angle- closure, and have a prophylactic proc (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 fluoxetine. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, comfusion, weakness, and unsteadiness, which may lead to falls. Movevere and/or acute cases have been associated with hallucination, syncope, seizure, coma, respiratory arrest, and death see Warnings and Precautions (5.9)]. 17.8 QT Prolongation

Patients should be advised that QT interval prolongation and ventricular arrhythmia including Torsades de Pointes have been reported in patients treated with fluoxetine. Signs and symptoms of ventricular arrhythm nclude 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

luoxetine 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® (olanzapine and fluoxetine hydrochloride capsules), Sarafem®(fluoxetine hydrochloride), or over-the-counter drugs, including herbal supplements or alcohol. Patients should also be advised to inform their physicians if they plan to disconfinue any medications they are taking while on 7.11 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 alter their dosing regimen, or stop taking fluoxetine 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)].

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 (5.6) and Use in Specific Populations (8.4)]. 17.13 Sexual Dysfunction

Advise patients that use of fluoxetine may cause symptoms of sexual dysfunction in both male and female patients. Inform patients that they should discuss any changes in sexual function and potential management strategies with their healthcare provider [see Warnings and Precautions (5.16)].

Manufactured by Nostrum Laboratories, Inc.