

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

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

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS
• **Do not use fluoxetine for the treatment of suicidal thoughts and behavior in children, adolescents, and young adults**
• **Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antidepressants (5.1).**
• **Monitor for worsening and emergence of suicidal thoughts and behaviors (5.1).**
• **When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert for Symbyax.**

INDICATIONS AND USAGE
Fluoxetine capsules are a selective serotonin reuptake inhibitor indicated for:
• Acute and maintenance treatment of Major Depressive Disorder (MDD) (1)
• Acute and maintenance treatment of Obsessive Compulsive Disorder (OCD) (1)
• Acute treatment of Panic Disorder, with or without agoraphobia (1)
Fluoxetine capsules and olanzapine in combination for treatment of:
• Acute Depressive Episodes Associated with Bipolar I Disorder (1)
• Treatment Resistant Depression (2.6)

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

• A lower or less frequent dosage should be used in patients with hepatic impairment, the elderly, and for patients with concurrent disease or on multiple concomitant medications (2.7)
Fluoxetine capsules and olanzapine in combination:
• Dosage adjustments should be made with the individual components according to efficacy and tolerability (2.5, 2.6)
• Fluoxetine monotherapy is not indicated for the treatment of Depressive Episodes associated with Bipolar I disorder or Treatment Resistant Depression (2.5, 2.6)
• Safety of the coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in adults (2.5, 2.6)
• Safety of the coadministration of doses above 12 mg olanzapine with 50 mg fluoxetine has not been evaluated in children and adolescents ages 10 to 17 (2.5)

DOSEAGE FORMS AND STRENGTHS
• Capsules: 10 mg, 20 mg, and 40 mg (3)
CONTRAINDICATIONS
• Serotonin Syndrome and MAOI: Do not use MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks of stopping treatment with fluoxetine. Do not use fluoxetine within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start fluoxetine in a patient who is being treated with linezolid or intravenous methylene blue (4.1)
• Pimozide: Do not use. Risk of QT prolongation and drug interaction (4.2, 5.11, 7.7, 7.8)
• Thioridazine: Do not use. Risk of QT interval prolongation and elevated thioridazine plasma levels. Do not use thioridazine within 5 weeks of discontinuing fluoxetine. Do not use thioridazine within 5 weeks of discontinuing fluoxetine (4.2, 5.11, 7.7, 7.8)
• When using fluoxetine and olanzapine in combination, also refer to the Contraindications section of the package insert for Symbyax (4)

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WARNING: SUICIDAL THOUGHTS AND BEHAVIORS
• Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term studies. These studies did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in patients over age 24; there was a reduction in risk with antidepressant use in patients aged 65 and older. See Warnings and Precautions (5.1).
• In patients of all ages who started on antidepressant therapy, monitor closely for worsening and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber. See Warnings and Precautions (5.1).
• Fluoxetine is not approved for use in children less than 7 years of age. See Warnings and Precautions (5.1) and Use in Specific Populations (8.4).
• When using fluoxetine and olanzapine in combination, also refer to Boxed Warning section of the package insert for Symbyax.

1 INDICATIONS AND USAGE
Fluoxetine is indicated for the treatment of:
• Acute and maintenance treatment of Major Depressive Disorder (MDD) (see Clinical Studies (14.1))
• Acute and maintenance treatment of obsessions and compulsions in patients with Obsessive Compulsive Disorder (OCD) (see Clinical Studies (14.2))
• Acute and maintenance treatment of binge-eating and vomiting behaviors in patients with moderate to severe Bulimia Nervosa (see Clinical Studies (14.3))
• Acute treatment of Panic Disorder, with or without agoraphobia (see Clinical Studies (14.4))
Fluoxetine and Olanzapine in Combination is indicated for the treatment of:
• Acute Depressive Episodes Associated with Bipolar I Disorder (see Clinical Studies (14.5))
• Treatment resistant depression (Major Depressive Disorder in patients, who do not respond to 2 separate trials of different antidepressants of adequate dose and duration in the current episode).
Fluoxetine monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder or the treatment of treatment resistant depression.
When using fluoxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax.

2 DOSEAGE AND ADMINISTRATION
2.1 Major Depressive Disorder
Initial Treatment
Adult — Initiate fluoxetine 20 mg/day orally in the morning. Consider a dose increase after several weeks if insufficient clinical improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon).
Pediatric (children and adolescents) — Initiate treatment with 10 mg/day. Consider additional dose increases after several weeks if insufficient clinical improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon).
In controlled trials to support the efficacy of fluoxetine, patients were administered morning doses ranging from 20 to 80 mg/day. Studies comparing fluoxetine 20, 40, and 60 mg/day to placebo indicate that 20 mg/day is sufficient to obtain a satisfactory response in Major Depressive Disorder in most cases. (see Clinical Studies (14.1)).
Pediatric (children and adolescents) — Initiate treatment with 10 mg/day. Consider additional dose increases after several weeks if insufficient clinical improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon).
Consider a dose increase to 20 mg/day after several weeks if insufficient clinical improvement is observed. In the short-term (8 to 12 weeks) controlled clinical trial of fluoxetine supporting its effectiveness in the treatment of Major Depressive Disorder, patients were administered fluoxetine doses of 10 to 20 mg/day (see Clinical Studies (14.1)).
All patients — As with other drugs effective in the treatment of Major Depressive Disorder, the full effect may be delayed until 4 weeks of treatment or longer.
Periodically reassess to determine the need for maintenance treatment.
Switching Patients to a Tricyclic Antidepressant (TCA) — Dosage of a TCA may need to be reduced, and plasma TCA concentrations may need to be monitored to maintain when fluoxetine is discontinued or has been recently discontinued (see Warnings and Precautions (5.2) and Drug Interactions (7.7)).
2.2 Obsessive Compulsive Disorder
Initial Treatment
Adult — Initiate fluoxetine 20 mg/day, orally in the morning. Consider a dose increase after several weeks if insufficient clinical improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon).
Pediatric (children and adolescents) — Initiate treatment with 10 mg/day. Consider additional dose increases after several weeks if insufficient clinical improvement is observed. Administer doses above 20 mg/day once daily in the morning or twice daily (i.e., morning and noon).
In the controlled clinical trial of fluoxetine supporting its effectiveness in the treatment of OCD, patients were administered fluoxetine doses in the range of 10 to 60 mg/day (see Clinical Studies (14.2)).
Periodically reassess to determine the need for treatment.

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

2.4 Panic Disorder
Initial Treatment — Initiate treatment with fluoxetine 10 mg/day. After one week, increase the dose to 20 mg/day. Consider a dose increase after several weeks if no clinical improvement is observed. Fluoxetine doses above 60 mg/day have not been systematically evaluated in patients with Panic Disorder. In the controlled clinical trial of fluoxetine supporting its effectiveness in the treatment of Panic Disorder, patients were administered fixed daily fluoxetine doses of 10 to 20 mg/day (see Clinical Studies (14.4)). The most frequently administered dose in the 2 fluoxetine dose clinical trials was 20 mg/day.
Periodically reassess to determine the need for continued treatment.
2.5 Fluoxetine and Olanzapine in Combination: Depressive Episodes Associated with Bipolar I Disorder
When using fluoxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax.
Adult — Administer fluoxetine in combination with oral olanzapine once daily in the evening, without regard to meals, generally beginning with 5 mg of oral olanzapine and 20 mg of fluoxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability. The recommended dosage ranges of 5 mg of oral olanzapine and 20 mg of fluoxetine were demonstrated with olanzapine and fluoxetine in combination with a dose range of olanzapine 6 to 12 mg and fluoxetine 25 to 50 mg. Safety of co-administration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies. Periodically re-examine the need for continued pharmacotherapy.
Children and adolescents (10-17 years of age) — Administer olanzapine and fluoxetine combination once daily in the evening, generally beginning with 2.5 mg of olanzapine and 20 mg of fluoxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability. Safety of co-administration of doses above 12 mg olanzapine with 50 mg fluoxetine has not been evaluated in pediatric clinical studies. Periodically re-examine the need for continued pharmacotherapy.
Safety and efficacy of fluoxetine in combination with olanzapine was determined in clinical trials supporting approval of Symbyax (fixed dose combination of olanzapine and fluoxetine, Symbyax). Symbyax is dosed between 3 mg/25 mg (olanzapine/fluoxetine) per day and 12 mg/50 mg (olanzapine/fluoxetine) per day. Table 1 demonstrates the appropriate individual component doses of fluoxetine and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy and tolerability. Periodically re-examine the need for continued pharmacotherapy.
Safety of coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies.

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

*Symbyax (olanzapine/fluoxetine HCl) is a fixed-dose combination of fluoxetine and olanzapine.
Fluoxetine capsules monotherapy is not indicated for the treatment of depressive episodes associated with Bipolar I Disorder.
2.6 Fluoxetine and Olanzapine in Combination: Treatment Resistant Depression
When using fluoxetine and olanzapine in combination, also refer to the Clinical Studies section of the package insert for Symbyax.
Adult — Administer fluoxetine in combination with oral olanzapine once daily in the evening, without regard to meals, generally beginning with 5 mg of oral olanzapine and 20 mg of fluoxetine. Make dosage adjustments, if indicated, according to efficacy and tolerability. The recommended dosage ranges of 5 mg of oral olanzapine and 20 mg of fluoxetine were demonstrated with olanzapine and fluoxetine in combination with a dose range of olanzapine 6 to 12 mg and fluoxetine 25 to 50 mg. Safety of co-administration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies. Periodically re-examine the need for continued pharmacotherapy.
Safety and efficacy of fluoxetine in combination with olanzapine was determined in clinical trials supporting approval of Symbyax (fixed dose combination of olanzapine and fluoxetine, Symbyax). Symbyax is dosed between 3 mg/25 mg (olanzapine/fluoxetine) per day and 12 mg/50 mg (olanzapine/fluoxetine) per day. Table 1 demonstrates the appropriate individual component doses of fluoxetine and olanzapine versus Symbyax. Adjust dosage, if indicated, with the individual components according to efficacy and tolerability. Periodically re-examine the need for continued pharmacotherapy.
Safety of coadministration of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies.

WARNINGS AND PRECAUTIONS
• **Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults:** Monitor for clinical worsening and suicidal thinking and behavior (5.1).
• **Serotonin Syndrome:** Serotonin syndrome has been reported with SSRIs and SNRIs, including fluoxetine, both when taken alone, but especially when co-administered with other serotonergic agents including triptans, tryptophan, antidepressants, fenfluramine, tramadol, typhlophane, buspirone, and John's Wort. If such symptoms occur, discontinue fluoxetine and initiate supportive treatment. If concomitant use of fluoxetine with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose escalation (5.3).
• **Allergic Reactions and Rash:** Discontinue upon appearance of rash or allergic phenomena (5.3).
• **Activation of Mania/Hypomania:** Screen for Bipolar Disorder and monitor for mania/hypomania (5.4).
• **Seizures:** Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold (5.5).
• **Altered Appetite and Weight:** Significant weight loss has occurred (5.6).
• **Abnormal Bleeding:** May increase the risk of bleeding. Use with NSAIDs, aspirin, warfarin, or other drugs that affect coagulation may potentiate the risk of gastrointestinal or other bleeding (5.7).
• **Angle-Closure Glaucoma:** Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants (5.8).
• **Hypomania:** Has been reported with fluoxetine in association with syndrome of inappropriate antidiuretic hormone (SIADH). Consider discontinuation if symptomatic hyponatremia occurs (5.9).
• **Anxiety and Insomnia:** May occur (5.10).
• **QT Prolongation:** QT prolongation and ventricular arrhythmia including Torsades de Pointes have been reported with fluoxetine use. Use with caution in conditions that predispose to arrhythmias or increased fluoxetine exposure. Use cautiously in patients with risk factors for QT prolongation (4.2, 5.11, 7.7, 7.8, 10.1).
• **Potential for Cognitive and Motor Impairment:** Has potential to impair judgment, thinking, and motor skills. Use caution when operating machinery (5.13).

Long half-life: Changes in dose will not be fully reflected in plasma for several weeks (5.14).
Fluoxetine and Olanzapine Combination: When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax (5.16).
ADVERSE REACTIONS
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, abnormal ejaculation, anorexia, anxiety, asthenia, diarrhea, dry mouth, dyspepsia, flu syndrome, impotence, insomnia, libido decreased, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilation, and yawn (6.1).
Fluoxetine and olanzapine in combination — Also refer to the Adverse Reactions section of the package insert for Symbyax (6.1).
To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS
• **Monomelic Olanzapine 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).
• **Tricyclic Antidepressants (TCAs):** Monitor TCA levels during coadministration with fluoxetine or when fluoxetine has been recently discontinued (5.2, 7.7).
• **CNS Acting Drugs:** Caution should be used when taken in combination with other centrally acting drugs (7.2).
• **Benzodiazepines:** Diazepam — increased T_{1/2}, alprazolam — further psychomotor performance decrement due to increased levels (7.7).
• **Antipsychotics:** Potential for elevation of haloperidol and clozapine levels (7.7).
• **Anticonvulsants:** Potential for elevated phenytoin and carbamazepine levels and clinical anticonvulsant toxicity (7.7).
• **Serotonergic Drugs:** (2.9, 2.10, 4.1, 5.2).
• **Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin):** May potentiate the risk of bleeding (7.4).
• **Drugs Tightly Bound to Plasma Proteins:** May cause a shift in plasma protein binding (6.7, 7.7).
• **Olanzapine:** When used in combination with fluoxetine, also refer to the Drug Interactions section of the package insert for Symbyax (7.7).
• **Drugs that Prolong the QT Interval:** Do not use fluoxetine with thioridazine or pimozide. Use with caution in combination with other drugs that prolong the QT interval (4.2, 5.11, 7.7, 7.8).

USE IN SPECIFIC POPULATIONS
• **Pregnancy:** Fluoxetine should be used during pregnancy only if the potential benefit justifies the potential risks to the fetus (8.1).
• **Lactation:** Monitor Breast Feeding (8.3).
• **Pediatric Use:** Safety and effectiveness of fluoxetine in <8 years of age with Major Depressive Disorder and <7 years of age with OCD have not been established. Safety and effectiveness of fluoxetine and olanzapine in combination in patients with OCD have not been established with Bipolar I Disorder have not been established (8.4).
• **Geriatric Impairment:** Lower or less frequent dosing may be appropriate in patients with cirrhosis (8.6).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide

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*Sections or subsections omitted from the full prescribing information are not listed.
Fluoxetine monotherapy is not indicated for the treatment of treatment resistant depression (Major Depressive Disorder in patients who do not respond to 2 separate trials of different antidepressants of adequate dose and duration in the current episode).
2.7 Dosing in Specific Populations
Treatment of Pregnant Women — When treating pregnant women with fluoxetine, the physician should carefully consider the risks and benefits of use. Fluoxetine is contraindicated for use in pregnant women because of the potential for complications requiring prolonged hospitalization, respiratory support, and tube feeding (see Use in Specific Populations (8.1)).
Geriatric — Consider a lower or less frequent dosage for the elderly (see Use in Specific Populations (8.5)).
Use in Patients with Hepatic Impairment — As with most antidepressants, use a lower or less frequent dosage in patients with hepatic impairment (see Clinical Pharmacology (12.4) and Use in Specific Populations (8.6)).
Concomitant Illness — Patients with concomitant disease or on multiple concomitant medications may require dosage adjustments (see Clinical Pharmacology (12.4) and Warnings and Precautions (5.12)).
Fluoxetine capsules and olanzapine in combination — Use a starting dose of oral olanzapine 2.5 to 5 mg with fluoxetine 20 mg for patients with a predisposition to hypotensive reactions, patients with hepatic impairment, or patients who take a combination of factors that may slow the metabolism of olanzapine or fluoxetine in combination (female gender, geriatric age, non-smoking status, or those patients who may be pharmacodynamically sensitive to olanzapine. Titrate slowly and adjust dosage as needed in patients who exhibit a combination of factors that may slow metabolism. Fluoxetine and olanzapine in combination have not been systematically studied in patients over 65 years of age or in patients less than 10 years of age (see Warnings and Precautions (5.16) and Drug Interactions (7.7)).
2.8 Discontinuation of Treatment
Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported (see Warnings and Precautions (5.2)).
2.9 Switching a Patient to or From a Monomelic Olanzapine Inhibitor (MAOI) Intended to Treat Psychiatric Disorders
At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine. Conversely, at least 5 weeks should elapse after stopping fluoxetine before starting an MAOI intended to treat psychiatric disorders (see Contraindications (4.1)).

2.10 Use of Fluoxetine with Other MAOIs such as Linezolid or Methylene Blue
Fluoxetine and methylene blue in a patient being treated with fluoxetine or intravenous methylene blue because there is an increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered (see Contraindications (4.1)).
In some cases, a patient already receiving fluoxetine therapy may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, fluoxetine should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for the weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with fluoxetine may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue (see Warnings and Precautions (5.2)).
The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses other than 1 mg/kg with fluoxetine is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use (see Warnings and Precautions (5.2)).

3 DOSEAGE FORMS AND STRENGTHS
• Fluoxetine capsules, USP 10 mg are white to off white powder filled in size "4" hard gelatin capsules with opaque light blue colored cap and opaque light green colored body imprinted "56" on cap and "113" on body with black ink.
• Fluoxetine capsules, USP 20 mg are white to off white powder filled in size "2" hard gelatin capsules with opaque light blue colored cap and opaque light green colored body imprinted "56" on cap and "114" on body with black ink.
• Fluoxetine capsules, USP 40 mg are white to off white powder filled in size "0" hard gelatin capsules with opaque light blue colored cap and opaque white colored body imprinted "56" on cap and "115" on body with black ink.
• Fluoxetine base equivalent.
4 CONTRAINDICATIONS
When using fluoxetine capsules and olanzapine in combination, also refer to the Contraindications section of the package insert for Symbyax (4).
4.1 Monomelic Olanzapine Inhibitors (MAOIs)
The use of MAOIs intended to treat psychiatric disorders with fluoxetine or within 5 weeks of stopping treatment with fluoxetine is contraindicated because of the risk of serotonin syndrome (see Warnings and Precautions (5.1) and Use in Specific Populations (8.4)).
Fluoxetine and olanzapine in combination — Also refer to the Adverse Reactions section of the package insert for Symbyax (5.16).
4.2 Other Contraindications
The use of fluoxetine is contraindicated with the following:
• Pimozide (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8))
• Thioridazine (see Warnings and Precautions (5.11) and Drug Interactions (7.7, 7.8))
Pimozide and thioridazine are contraindicated with fluoxetine because fluoxetine can increase the levels of pimozide and thioridazine through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval.

5 WARNINGS AND PRECAUTIONS
When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax (5.16).
5.1 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults
Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term studies. These studies did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in patients over age 24; there was a reduction in risk with antidepressant use in patients aged 65 and older. See Warnings and Precautions (5.1).
• In patients of all ages who started on antidepressant therapy, monitor closely for worsening and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber. See Warnings and Precautions (5.1).
• Fluoxetine is not approved for use in children less than 7 years of age. See Warnings and Precautions (5.1) and Use in Specific Populations (8.4).
• When using fluoxetine and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax.

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

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide.
It is unknown whether the suicidality risk extends to longer-term use. In the longer-term studies, however, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use 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 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, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for Major Depressive Disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt, or were not part of the patient's presenting symptoms.
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)).
Families and caregivers of patients being treated with antidepressants for Major Depressive Disorder or other indications should be alerted about the need to monitor for the emergence of suicidality, 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 fluoxetine should be written for the smallest quantity of capsules 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 Obsessive Compulsive Disorder, and fluoxetine in combination with olanzapine for the acute treatment of depressive episodes associated with Bipolar I Disorder.
5.2 Serotonin Syndrome
Serotonin syndrome has been reported with SSRIs and SNRIs, including fluoxetine, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tryptophan, antidepressants, fenfluramine, lithium, tramadol, typhlophane, buspirone, and St. John's Wort) and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (tachycardia, labile blood pressure, diaphoresis, dysphoria), flushing, hyperthermia, neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome.
Concomitant use of fluoxetine with other serotonergic agents is contraindicated. Fluoxetine should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 1 mg/kg. No reports involved the administration of methylene blue other routes such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking fluoxetine. Fluoxetine should be discontinued before initiating treatment with the MAOI and should not be restarted until the patient has recovered from the effects of fluoxetine.
If concomitant use of fluoxetine with other serotonergic drugs, i.e., triptans, tryptic antidepressants, fenfluramine, lithium, tramadol, buspirone, typhlophane and St. John's Wort is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome and should be adequately monitored to determine if they are at risk for Bipolar Disorder, such screening should be performed.
Treatment with fluoxetine and any concomitant serotonergic agents should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.
5.3 Allergic Reactions and Rash
With acute clinical trials, 7% of 10,782 patients developed various types of rashes and/or urticaria. Among the cases of rash and 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, conjunctival injection, 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.
Since the introduction of fluoxetine, systemic reactions, possibly related to vasculitis and including lupus-like syndrome, have been reported in patients with rash. Although these reactions are rare, they may be serious, involving the lung, kidney, or liver. Death has been reported in association with these systemic reactions.
Aseptic meningitis reactions, including bronchospasm, angioedema, lymphadenopathy, and urticaria alone and in combination, have been reported.

Pulmonary reactions, including inflammatory processes of varying histopathology and/or fibrosis, have been reported rarely. These reactions have been reported in association with the use of fluoxetine in combination with other serotonergic agents.
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 alternative etiology cannot be identified, fluoxetine should be discontinued.
5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania
A major depressive episode may be the initial presentation of Bipolar Disorder. It is generally believed (though not established in controlled trials) that antidepressant use in combination with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for Bipolar Disorder. Whether any of the symptoms described for clinical worsening and suicide risk represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for Bipolar Disorder, such screening should include a detailed psychiatric history, including a family history of suicide, Bipolar Disorder, and depression. It should be noted that fluoxetine and olanzapine in combination is approved for the acute treatment of depressive episodes associated with Bipolar I disorder. In patients with Bipolar I disorder, patients affected by Bipolar I Disorder should be monitored for manic/hypomanic episodes associated with Bipolar I Disorder.
Fluoxetine



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