

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use FLUOXETINE ORAL SOLUTION safely and effectively. See full prescribing information for FLUOXETINE ORAL SOLUTION.

### FLUOXETINE oral solution, for oral use

Initial U.S. Approval: 1987

#### WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

See full prescribing information for complete boxed warning. Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antidepressants (5.1). Monitor for worsening and emergence of suicidal thoughts and behaviors (5.1).

#### RECENT MAJOR CHANGES

- Warnings and Precautions, Serotonin Syndrome (5.2) 07/2023
- Use in Pediatric Patients (4.1) 07/2023

#### INDICATIONS AND USAGE

Fluoxetine is a selective serotonin reuptake inhibitor indicated for:

- Acute and maintenance treatment of Major Depressive Disorder (MDD) in adult and pediatric patients aged 18 to 18 years (1.1)
- Acute and maintenance treatment of Obsessive Compulsive Disorder (OCD) in adult and pediatric patients aged 7 to 17 years (1.2)
- Acute and maintenance treatment of Bulimia Nervosa in adult patients (1.3)
- Acute treatment of Panic Disorder, with or without agoraphobia, in adult patients (1.4)

#### DOSE AND ADMINISTRATION

Indication	Adult	Pediatric
MDD (2.1)	20 mg/day in am (initial dose)	10 to 20 mg/day (initial dose)
OCD (2.2)	20 mg/day in am (initial dose)	10 mg/day (initial dose)
Bulimia Nervosa (2.3)	60 mg/day in am	-
Panic Disorder (2.4)	10 mg/day (initial dose)	-

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

#### DOSE FORMS AND STRENGTHS

- Oral solution: 20 mg per 5 mL (3)

#### CONTRAINDICATIONS

- Serotonin Syndrome and MAOIs: Do not use MAOIs intended to treat psychiatric disorders with fluoxetine or MAOIs intended to treat psychiatric disorders. In addition, do not start fluoxetine in a patient who is being treated with linzolid or intravenous methylene blue (4.1).
- Pimozide: Do not use. Risk of QT interval prolongation and elevated thioridazine plasma levels. Do not use thioridazine within 5 weeks of discontinuing fluoxetine (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 (4.2, 5.11, 7.7, 7.8).

#### WARNINGS AND PRECAUTIONS

- Clinical Worsening and Suicide Risk: 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 and when administered with other serotonergic agents. If such symptoms occur, discontinue fluoxetine and serotonergic agents and initiate supportive treatment. If concomitant use of fluoxetine with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases (5.2)
- Allergic Reactions and Rash: Discontinue upon appearance of rash or allergic phenomena (5.3)
- Activation of *Mania/Hypomania*: Screen for Bipolar Disorder and monitor for mania/hypomania (5.4)

#### FULL PRESCRIBING INFORMATION: CONTENTS

##### WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

##### 1. INDICATIONS AND USAGE

- 1.1 Major Depressive Disorder
- 1.2 Obsessive Compulsive Disorder
- 1.3 Bulimia Nervosa
- 1.4 Panic Disorder

##### 2. DOSE AND ADMINISTRATION

- 2.1 Major Depressive Disorder
- 2.2 Obsessive Compulsive Disorder
- 2.3 Bulimia Nervosa
- 2.4 Panic Disorder
- 2.5 Use in Specific Populations
- 2.6 Discontinuation of Treatment
- 2.9 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

##### 3. DOSE FORMS AND STRENGTHS

- 3.1 Monoamine Oxidase Inhibitors (MAOIs) such as Linzolid or Methylene Blue
- 3.2 Other Contraindications

##### 4. CONTRAINDICATIONS

- 4.1 Monoamine Oxidase Inhibitors (MAOIs)
- 4.2 Other Contraindications

##### 5. WARNINGS AND PRECAUTIONS

- 5.1 Clinical Worsening and Suicide Risk
- 5.2 Serotonin Syndrome
- 5.3 Allergic Reactions and Rash
- 5.4 Screening Patients for Bipolar Disorder and Monitoring for Mania/Hypomania
- 5.5 Seizures
- 5.6 Altered Appetite and Weight
- 5.7 Abnormal Bleeding
- 5.8 Angle-Closure Glaucoma
- 5.9 Hypotension
- 5.10 Anxiety and Insomnia
- 5.11 QT Prolongation
- 5.12 Use in Patients with Concomitant Illness
- 5.13 Potential for Cognitive and Motor Impairment
- 5.14 Long Elimination Half-Life
- 5.15 Discontinuation Adverse Reactions
- 5.16 Sexual Dysfunction

##### 6. ADVERSE REACTIONS

- 6.1 Clinical Trial Experience
- 6.2 Other Reactions
- 6.3 Postmarketing Experience

##### 7. DRUG INTERACTIONS

- 7.1 Monoamine Oxidase Inhibitors (MAOI)
- 7.2 CNS Acting Drugs
- 7.3 Serotonergic Drugs
- 7.4 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, Warfarin)
- 7.5 Electroconvulsive Therapy (ECT)

##### FULL PRESCRIBING INFORMATION

###### WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

Antidepressants increased the risk of suicidal thoughts and behaviors 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 are started on antidepressant therapy, monitor closely for worsening and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber (see Warnings and Precautions (5.1)).

Fluoxetine oral solution is not approved for use in children less than 7 years of age (see Warnings and Precautions (5.1) and Use in Specific Populations (8.4)).

###### 1. INDICATIONS AND USAGE

###### 1.1 Major Depressive Disorder

Fluoxetine is indicated for the acute and maintenance treatment of Major Depressive Disorder in adult patients and in pediatric patients aged 8 to 18 years (see Clinical Studies (14.1)). The usefulness of the drug in adult and pediatric patients receiving fluoxetine for extended periods should periodically be re-evaluated (see Dosage and Administration (2.1)).

###### 1.2 Obsessive Compulsive Disorder

Fluoxetine is indicated for the acute and maintenance treatment of obsessions and compulsions in adult patients and in pediatric patients aged 7 to 17 years with Obsessive Compulsive Disorder (OCD) (see Clinical Studies (14.2)).

The effectiveness of fluoxetine in long-term use, i.e., for more than 13 weeks, has not been systematically evaluated in placebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see Dosage and Administration (2.2)).

###### 1.3 Bulimia Nervosa

Fluoxetine is indicated for the acute treatment of binge-eating and vomiting behaviors in adult patients with moderate to severe Bulimia Nervosa (see Clinical Studies (14.3)). The physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see Dosage and Administration (2.4)).

###### 1.4 Panic Disorder

Fluoxetine is indicated for the acute treatment of Panic Disorder, with or without agoraphobia, in adult patients (see Clinical Studies (14.4)).

The effectiveness of fluoxetine in long-term use, i.e., for more than 12 weeks, has not been established in placebo-controlled trials. Therefore, the physician who elects to use fluoxetine for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see Dosage and Administration (2.4)).

###### 2. DOSE AND ADMINISTRATION

###### 2.1 Major Depressive Disorder

###### Initial Treatment

**Adult**— In controlled trials used 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 indicated that 20 mg/day is sufficient to obtain a satisfactory response in Major Depressive Disorder in most cases. Consequently, a dose of 20 mg/day, administered in the morning, is recommended as the initial dose.

A dose increase may be considered after several weeks if insufficient clinical improvement is observed. Doses above 20 mg/day may be administered on a once-a-day (morning) or BID schedule (i.e., morning and noon) and should not exceed a maximum dose of 80 mg/day.

**Pediatric (children and adolescents)**— In the short-term (8 to 9 week) controlled clinical trials of fluoxetine and placebo, patients were administered fixed daily doses of 10 to 20 mg/day (see Clinical Studies (14.1)). Treatment should be initiated with a dose of 10 to 20 mg/day. After 1 week to 10 days, the dose should be increased to 20 mg/day.

However, due to higher plasma levels in lower weight children, the starting and target doses in this group may be 10 mg/day. A dose increase to 20 mg/day may be considered after several weeks if insufficient clinical improvement is observed.

**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.

**Maintenance/Continuation/Extended Treatment**— It is generally agreed that acute episodes of Major Depressive Disorder require several months or longer of sustained pharmacologic therapy. Whether the dose needed to induce remission is identical to the dose needed to maintain and/or sustain euthymia is unknown.

**Daily Dosing**— Systematic evaluation of fluoxetine in adult patients has shown that its efficacy in Major Depressive Disorder is maintained for periods of up to 38 weeks following 12 weeks of open-label acute treatment (50 weeks total) at a dose of 20 mg/day (see Clinical Studies (14.1)).

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

###### 2.2 Obsessive Compulsive Disorder

###### Initial Treatment

**Adult**— In the controlled clinical trials of fluoxetine supporting its effectiveness in the treatment of OCD, patients were administered fixed daily doses of 20, 40, or 60 mg of fluoxetine or placebo (see Clinical Studies (14.2)). In one of these studies, no dose-response relationship for effectiveness was demonstrated. Consequently, a dose of 20 mg/day, administered in the morning, is recommended as the initial dose. Since there was a suggestion of a possible dose-response relationship for effectiveness in the second study, a dose increase may be considered after several weeks if insufficient clinical improvement is observed. The full therapeutic effect may be delayed until 5 weeks of treatment or longer.

Doses above 20 mg/day may be administered on a once daily (i.e., morning) or BID schedule (i.e., morning and noon). A dose range of 60 mg/day may be administered on a once-a-day (morning) or BID schedule if well tolerated in open studies of OCD. The maximum fluoxetine dose should not exceed 80 mg/day.

**Pediatric (children and adolescents)**— 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 80 mg/day (see Clinical Studies (14.2)).

In adolescents and higher weight children, treatment should be initiated with a dose of 10 mg/day. After 2 weeks, the dose should be raised to 20 mg/day. In lower weight children, the dose should be increased to 20 mg/day. In lower weight girls if insufficient clinical improvement is observed. A dose range of 20 to 80 mg/day is recommended.

In most weight children, treatment should be initiated with a dose of 10 mg/day. Additional dose increases may be considered after several weeks if insufficient clinical improvement is observed. A dose range of 20 to 30 mg/day is recommended. Experience with daily doses greater than 20 mg is very limited, and there is no experience with doses greater than 60 mg.

**Maintenance/Continuation Treatment**— While there are no systematic studies that answer the question of

- 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 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 discontinuing if symptomatic hyponatremia occurs (5.9)
- Anxiety and Insomnia:** May occur (5.10)
- QT Prolongation:** QT prolongation and ventricular arrhythmia including Torsades de Pointes have been reported with fluoxetine use. Use with caution in conditions that predispose to arrhythmias or increased fluoxetine exposure. Use cautiously in patients at risk factors for QT prolongation (4.2, 5.11)
- 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)
- Sexual Dysfunction:** Fluoxetine may cause symptoms of sexual dysfunction (5.16).

###### ADVERSE REACTIONS

Most common adverse reactions (≥ 5% and at least twice that of 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, increased sweating, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilatation, and yawn (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Nestlé Laboratories, Inc. at 1-877-778-1288 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch or www.fda.gov/oc/ohrt

###### DRUG INTERACTIONS

- 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)
- Tricyclic Antidepressants:** 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 1,5 μg, alprazolam— further psychomotor performance decrement due to increased levels (7.7)
- Antipsychotics:** Potential for elevation of haloperidol and clozapine levels (7.7)
- Anticoagulants:** Potential for elevated phenytoin and carbamazepine levels and clinical anticoagulant 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 concentrations (7.6, 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:** Breast feeding is not recommended (8.3)
- Nursing Mothers:** Breast feeding is not recommended (8.3)
- Use in Pediatric Patients:** Fluoxetine in patients 8 years of age with Major Depressive Disorder and < 7 years of age with OCD have not been established (8.4)
- Hepatic 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.

Revised: 08/2023

7.6	Potential for Other Drugs to Affect Fluoxetine
7.7	Potential for Fluoxetine to Affect Other Drugs
7.8	Drugs that Prolong the QT Interval
<b>8 USE IN SPECIFIC POPULATIONS</b>	
8.1	Pregnancy
8.2	Labor and Delivery
8.3	Nursing Mothers
8.4	Pediatric Use
8.5	Geriatric Use
8.6	Hepatic Impairment
<b>9 DRUG INTERACTIONS</b>	
9.1	Concomitant Use
9.2	Concomitant Use of Anticoagulants
9.3	Concomitant Use of Serotonergic Agents
9.4	Concomitant Use of CNS Acting Drugs
9.5	Concomitant Use of Benzodiazepines
9.6	Concomitant Use of Antipsychotics
9.7	Concomitant Use of Anticoagulants
9.8	Concomitant Use of Serotonergic Agents
9.9	Concomitant Use of CNS Acting Drugs
9.10	Concomitant Use of Benzodiazepines
9.11	Concomitant Use of Antipsychotics
<b>10 OVERDOSAGE</b>	
10.1	Human Experience
10.2	Animal Experience
10.3	Management of Overdose
<b>11 DESCRIPTION</b>	
<b>11.1 CLINICAL PHARMACOLOGY</b>	
11.1.1	Mechanism of Action
11.1.2	Pharmacodynamics
11.1.3	Pharmacokinetics
11.2	Use in Specific Populations
<b>11.3 NONCLINICAL TOXICOLOGY</b>	
11.3.1	Carcinogenesis, Mutagenesis, Impairment of Fertility
11.3.2	Animal Toxicology and/or Pharmacology
<b>11.4 CLINICAL STUDIES</b>	
11.4.1	Major Depressive Disorder
11.4.2	Obsessive Compulsive Disorder
11.4.3	Bulimia Nervosa
11.4.4	Panic Disorder
<b>16 HOW SUPPLIED/STORAGE AND HANDLING</b>	
16.1	How Supplied
16.2	Storage and Handling
<b>17 PATIENT COUNSELING INFORMATION</b>	
17.1	General Information
17.2	Clinical Worsening and Suicide Risk
17.3	Serotonin Syndrome
17.4	Allergic Reactions and Rash
17.5	Abnormal Bleeding
17.6	Angle-Closure Glaucoma
17.7	Hypotension
17.8	QT Prolongation
17.9	Potential for Cognitive and Motor Impairment
17.10	Use of Concomitant Medications
17.11	Discontinuation of Treatment
17.12	Use in Specific Populations
17.13	Sexual Dysfunction

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

how long to continue fluoxetine. OCD is a chronic condition and it is reasonable to consider continuation for a responding patient. Although the efficacy of fluoxetine 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 25 weeks. However, the recommendation is to discontinue fluoxetine after 13 weeks if the patient on the lowest effective dose, and patients should be periodically reassessed to determine the need for treatment.

###### 2.3 Bulimia Nervosa

**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 Clinical Studies (14.3)). Only the 60 mg dose was statistically significantly superior to placebo in reducing the frequency of binge-eating and vomiting behaviors. However, the recommendation is to administer 20 mg 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.

**Maintenance/Continuation Treatment**— Systematic evaluation of fluoxetine 60 mg/day for periods of up to 52 weeks in patients with bulimia 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 Clinical Studies (14.3)). Nevertheless, patients should be periodically reassessed to determine the need for maintenance treatment.

###### 2.4 Panic Disorder

**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 10 mg/day (see Clinical Studies (14.4)). Treatment should be initiated with a dose of 10 mg/day. After one week, the dose should be increased to 20 mg/day. The most frequently administered dose in the 2 fluoxetine-dose clinical trials was 20 mg/day.

A dose increase may be considered after several weeks if no clinical improvement is observed. Fluoxetine doses above 20 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 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.

###### 2.7 Dosing in Specific Populations

**Pregnancy:** While treating pregnant women with fluoxetine, the physician should carefully consider the potential risks and potential benefits of treatment. Neonates exposed to SSRIs or SNRIs late in the third trimester have developed complications requiring prolonged hospitalization, respiratory distress, and seizures (see Warnings and Precautions (5.2)).

**Lactation:** Breast feeding is not recommended (8.3). The physician should periodically reassess the need for continued treatment.

**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)).

###### 2.8 Discontinuation of Treatment

Symptoms associated with discontinuation of fluoxetine, SNRIs, and SSRIs, have been reported (see Warnings and Precautions (5.15)).

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

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with fluoxetine 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)).

**2.10 Use of Fluoxetine Oral Solution with Other MAOIs such as Linzolid or Methylene Blue**

Use of MAOIs with fluoxetine may increase the risk of serotonin syndrome (see Warnings and Precautions (5.1)) 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 oral solution may require urgent treatment with linzolid or intravenous methylene blue. If acceptable alternatives to linzolid or intravenous methylene blue are not available and the potential benefits of linzolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, fluoxetine oral solution should be discontinued immediately. However, patients should be periodically reassessed to determine the need for continued treatment.

The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with fluoxetine oral solution 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. DOSE FORMS AND STRENGTHS

- Fluoxetine oral solution, USP (contains fluoxetine hydrochloride, equivalent to 20 mg/mL of fluoxetine), is a clear, colorless solution with a distinctive spearmint-like aroma.

###### 4. CONTRAINDICATIONS

###### 4.1 Monoamine Oxidase Inhibitors (MAOIs)

Fluoxetine is contraindicated in patients with fluoxetine oral solution or within 5 weeks of stopping treatment with fluoxetine oral solution is contraindicated because of an increased risk of serotonin syndrome. The use of fluoxetine oral solution within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated (see Contraindications (4.1) and Dosage and Administration (2.9) and Warnings and Precautions (5.2)).

Starting fluoxetine oral solution in a patient who is being treated with MAOIs such as linzolid or intravenous methylene blue is also contraindicated because of an increased risk of serotonin syndrome (see Dosage and Administration (2.9) and Warnings and Precautions (5.2)).

###### 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** prolong the QT interval. Fluoxetine can increase the levels of pimozide and thioridazine through inhibition of CYP2D6. Fluoxetine can also prolong the QT interval.

###### 5. WARNINGS AND PRECAUTIONS

###### 5.1 Clinical Worsening and Suicide Risk

Patients with Major Depressive Disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicidal is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in

certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18 to 24) with Major Depressive Disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, Obsessive Compulsive Disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 2 antidepressant drugs in children and adolescents. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs. The risk of suicidality did not differ by gender. The risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug minus placebo) were relatively stable over time, across 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.

###### 5.13 Potential for Cognitive and Motor Impairment

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

###### 5.14 Long Elimination Half-Life

Because of the long elimination half-lives of the parent drug and its major active metabolite, changes in dose should not be fully reflected in plasma for several weeks. Therefore, both strategies for fluoxetine treatment—discontinuation and withdrawal from treatment. This is of potential consequence when drug discontinuation is required or when drugs are prescribed that might interact with fluoxetine and norfluoxetine following the discontinuation of fluoxetine (see Clinical Pharmacology (12.7)).

###### 5.15 Discontinuation Adverse Reactions

