ZOLOFT - sertraline hydrochloride tablet, film coated
ZOLOFT - sertraline hydrochloride solution, concentrate
Roerig

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

ZOLOFT (sertraline hydrochloride) tablets, for oral use
ZOLOFT (sertraline hydrochloride) oral solution

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS
See full prescribing information for complete boxed warning.
- Antidepressants increased the risk of suicidal thoughts and behaviors in pediatric and young adult patients (5.1)
- Closely monitor for clinical worsening and emergence of suicidal thoughts and behaviors (5.1)

INDICATIONS AND USAGE
ZOLOFT is a selective serotonin reuptake inhibitor (SSRI) indicated for the treatment of (1):
- Major depressive disorder (MDD)
- Obsessive-compulsive disorder (OCD)
- Panic disorder (PD)
- Post-traumatic stress disorder (PTSD)
- Social anxiety disorder (SAD)
- Premenstrual dysphoric disorder (PMDD)

DOSAGE AND ADMINISTRATION

<table>
<thead>
<tr>
<th>Indication</th>
<th>Starting Dosage</th>
<th>Maximum Dosage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDD (2.1)</td>
<td>50 mg per day</td>
<td>200 mg per day</td>
</tr>
<tr>
<td>OCD (2.1)</td>
<td>25 mg per day (ages 6–12)</td>
<td>200 mg per day</td>
</tr>
<tr>
<td></td>
<td>50 mg per day (ages ≥ 13)</td>
<td></td>
</tr>
<tr>
<td>PD, PTSD, SAD (2.1)</td>
<td>25 mg per day</td>
<td>200 mg per day</td>
</tr>
<tr>
<td>PMDD (2.2) continuous dosing</td>
<td>50 mg per day</td>
<td>150 mg per day</td>
</tr>
<tr>
<td>PMDD (2.2) intermittent dosing</td>
<td>50 mg per day during luteal phase only</td>
<td>100 mg per day during luteal phase only</td>
</tr>
</tbody>
</table>

- If inadequate response to starting dosage, titrate in 25–50 mg per day increments once weekly in MDD, OCD, PD, PTSD, and SAD (2.1)
- See Full Prescribing Information for titration in PMDD (2.2)
- Hepatic impairment:
  - Mild: Recommended starting and maximum dosage is half recommended dosage (2.4)
  - Moderate or severe: Not recommended (2.4)
- When discontinuing ZOLOFT, reduce dose gradually (2.6, 5.4)
- Oral solution: Must be diluted before administration (2.7)

DOSAGE FORMS AND STRENGTHS
- Tablets: 25 mg, 50 mg and 100 mg (3)
- Oral solution: 20 mg/mL (3)

CONTRAINDICATIONS
- Concomitant use of monoamine oxidase inhibitors (MAOIs), or use within 14 days of stopping MAOIs (4, 7.1)
- Concomitant use of pimozide (4, 7.1)
- Known hypersensitivity to sertraline or excipients (4, 5.4)
- ZOLOFT oral solution only: Concomitant use of disulfiram (4)
WARNINGS AND PRECAUTIONS

- Serotonin Syndrome: Increased risk when co-administered with other serotonergic agents (e.g., SSRI, SNRI, triptans), but also when taken alone. If it occurs, discontinue ZOLOFT and initiate supportive treatment. (5.2)
- Increased Risk of Bleeding: Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs (NSAIDs), other antiplatelet drugs, warfarin, and other anticoagulants may increase this risk. (5.3)
- Activation of Mania/Hypomania: Screen patients for bipolar disorder. (5.4)
- Seizures: Use with caution in patients with seizure disorders. (5.6)
- Angle Closure Glaucoma: Avoid use of antidepressants, including ZOLOFT, in patients with untreated anatomically narrow angles. (5.7)
- QTc Prolongation: ZOLOFT should be used with caution in patients with risk factors for QTc prolongation. (5.10)

ADVERSE REACTIONS

Most common adverse reactions (≥5% and twice placebo) in pooled placebo-controlled MDD, OCD, PD, PTSD, SAD and PMDD clinical trials were nausea, diarrhea/loose stool, tremor, dyspepsia, decreased appetite, hyperhidrosis, ejaculation failure, and decreased libido (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Pfizer, Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Protein-bound drugs: Monitor for adverse reactions and reduce dosage of ZOLOFT or other protein-bound drugs (e.g., warfarin) as warranted. (7.1, 12.3)
- CYP2D6 substrates: Reduce dosage of drugs metabolized by CYP2D6 (7.1, 12.3)

USE IN SPECIFIC POPULATIONS

- Pregnancy: Third trimester use may increase risk for persistent pulmonary hypertension and withdrawal in the neonate (8.1)
- Pediatric use: Safety and effectiveness of ZOLOFT in pediatric patients other than those with OCD have not been established (8.4)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide. Revised: 4/2019

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2.1 Dosage in Patients with MDD, OCD, PD, PTSD, and SAD
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2.3 Screen for Bipolar Disorder Prior to Starting ZOLOFT
2.4 Dosage Modifications in Patients with Hepatic Impairment
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FULL PRESCRIBING INFORMATION

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS
Antidepressants increased the risk of suicidal thoughts and behavior in pediatric and young adult patients in short-term studies. Closely monitor all antidepressant-treated patients for clinical worsening, and for emergence of suicidal thoughts and behaviors [See Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE
ZOLOFT is indicated for the treatment of the following [See Clinical Studies (14)]:

- Major depressive disorder (MDD)
- Obsessive-compulsive disorder (OCD)
- Panic disorder (PD)
- Posttraumatic stress disorder (PTSD)
- Social anxiety disorder (SAD)
- Premenstrual dysphoric disorder (PMDD)

2 DOSAGE AND ADMINISTRATION

2.1 Dosage in Patients with MDD, OCD, PD, PTSD, and SAD

The recommended initial dosage and maximum ZOLOFT dosage in patients with MDD, OCD, PD, PTSD, and SAD are displayed in Table 1 below. A dosage of 25 mg or 50 mg per day is the initial therapeutic dosage.

For adults and pediatric patients, subsequent dosages may be increased in case of an inadequate response in 25 to 50 mg per day increments once a week, depending on tolerability, up to a maximum of 200 mg per day. Given the 24-hour elimination half-life of ZOLOFT, the recommended interval between dose changes is one week.

Table 1: Recommended Daily Dosage of ZOLOFT in Patients with MDD, OCD, PD, PTSD, and SAD

<table>
<thead>
<tr>
<th>Indication</th>
<th>Starting Dose</th>
<th>Therapeutic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDD</td>
<td>50 mg</td>
<td>50–200 mg</td>
</tr>
<tr>
<td>OCD</td>
<td>50 mg</td>
<td></td>
</tr>
<tr>
<td>PD, PTSD, SAD</td>
<td>25 mg</td>
<td></td>
</tr>
<tr>
<td>Pediatric Patients</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OCD (ages 6–12 years old)</td>
<td>25 mg</td>
<td>50–200 mg</td>
</tr>
<tr>
<td>OCD (ages 13–17 years old)</td>
<td>50 mg</td>
<td></td>
</tr>
</tbody>
</table>

2.2 Dosage in Patients with PMDD

The recommended starting ZOLOFT dosage in adult women with PMDD is 50 mg per day. ZOLOFT may be administered either continuously (every day throughout the menstrual cycle) or intermittently (only during the luteal phase of the menstrual cycle, i.e., starting the daily dosage 14 days prior to the anticipated onset of menstruation and continuing through the onset of menses). Intermittent dosing would be repeated with each new cycle.

- When dosing continuously, patients not responding to a 50 mg dosage may benefit from dosage increases at 50 mg increments per menstrual cycle up to 150 mg per day.
- When dosing intermittently, patients not responding to a 50 mg dosage may benefit from increasing the dosage up to a maximum of 100 mg per day during the next menstrual cycle (and subsequent cycles) as follows: 50 mg per day during the first 3 days of dosing followed by 100 mg per day during the remaining days in the dosing cycle.

2.3 Screen for Bipolar Disorder Prior to Starting ZOLOFT

Prior to initiating treatment with ZOLOFT or another antidepressant, screen patients for a personal or family history of bipolar disorder, mania, or hypomania [See Warnings and Precautions (5.4)].
2.4 Dosage Modifications in Patients with Hepatic Impairment

Both the recommended starting dosage and therapeutic range in patients with mild hepatic impairment (Child Pugh scores 5 or 6) are half the recommended daily dosage [See Dosage and Administration (2.1, 2.2)]. The use of ZOLOFT in patients with moderate (Child Pugh scores 7 to 9) or severe hepatic impairment (Child Pugh scores 10–15) is not recommended [See Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

2.5 Switching Patients to or from a Monoamine Oxidase Inhibitor Antidepressant

At least 14 days must elapse between discontinuation of a monoamine oxidase inhibitor (MAOI) antidepressant and initiation of ZOLOFT. In addition, at least 14 days must elapse after stopping ZOLOFT before starting an MAOI antidepressant [See Contraindications (4), Warnings and Precautions (5.2)].

2.6 Discontinuation of Treatment with ZOLOFT

Adverse reactions may occur upon discontinuation of ZOLOFT [See Warnings and Precautions (5.5)]. Gradually reduce the dosage rather than stopping ZOLOFT abruptly whenever possible.

2.7 Preparation of ZOLOFT Oral Solution

ZOLOFT oral solution must be diluted before use.
- Use the supplied calibrated dropper to measure the amount of ZOLOFT oral solution needed
- Note: The supplied calibrated dropper has 25 mg and 50 mg graduation marks only
- Mix with 4 ounces (1/2 cup) of water, ginger ale, lemon/lime soda, lemonade or orange juice ONLY. After mixing, a slight haze may appear, which is normal.

Instruct patients or caregivers to immediately take the dose after mixing.

3 DOSAGE FORMS AND STRENGTHS

25 mg tablets: light green film-coated, engraved on one side with "ZOLOFT" and on the other side scored and engraved with "25 mg"

50 mg tablets: light blue film-coated, engraved on one side with "ZOLOFT" and on the other side scored and engraved with "50 mg"

100 mg tablets: light yellow film-coated, engraved on one side with "ZOLOFT" and on the other side scored and engraved with "100 mg"

Oral solution: a clear, colorless solution with a menthol scent containing sertraline hydrochloride equivalent to 20 mg of sertraline per mL and 12% alcohol. It is supplied as a 60 mL bottle with an accompanying calibrated dropper that has 25 mg and 50 mg graduation marks.

4 CONTRAINDICATIONS

ZOLOFT is contraindicated in patients:
- Taking, or within 14 days of stopping, MAOIs, (including the MAOIs linezolid and intravenous methylene blue) because of an increased risk of serotonin syndrome [See Warnings and Precautions (5.2), Drug Interactions (7.1)].
- Taking pimozide [See Drug Interactions (7.1)].
- With known hypersensitivity to sertraline (e.g., anaphylaxis, angioedema) [See Adverse Reactions (6.1, 6.2)].

In addition to the contraindications for all ZOLOFT formulations listed above, ZOLOFT oral solution is contraindicated in patients:
• Taking disulfiram. ZOLOFT oral solution contains alcohol, and concomitant use of ZOLOFT and disulfiram may result in a disulfiram-alcohol reaction.

5 WARNINGS AND PRECAUTIONS

5.1 Suicidal Thoughts and Behaviors in Pediatric and Young Adult Patients

In pooled analyses of placebo-controlled trials of antidepressant drugs (SSRIs and other antidepressant classes) that included approximately 77,000 adult patients and over 4,400 pediatric patients, the incidence of suicidal thoughts and behaviors in pediatric and young adult patients was greater in antidepressant-treated patients than in placebo-treated patients. The drug-placebo differences in the number of cases of suicidal thoughts and behaviors per 1000 patients treated are provided in Table 2.

No suicides occurred in any of the pediatric studies. There were suicides in the adult studies, but the number was not sufficient to reach any conclusion about antidepressant drug effect on suicide.

Table 2: Risk Differences of the Number of Cases of Suicidal Thoughts or Behaviors in the Pooled Placebo-Controlled Trials of Antidepressants in Pediatric and Adult Patients

<table>
<thead>
<tr>
<th>Age Range (years)</th>
<th>Drug-Placebo Difference in Number of Patients of Suicidal Thoughts or Behaviors per 1000 Patients Treated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Increases Compared to Placebo</td>
</tr>
<tr>
<td>&lt;18</td>
<td>14 additional patients</td>
</tr>
<tr>
<td>18–24</td>
<td>5 additional patients</td>
</tr>
<tr>
<td></td>
<td>Decreases Compared to Placebo</td>
</tr>
<tr>
<td>25–64</td>
<td>1 fewer patient</td>
</tr>
<tr>
<td>≥65</td>
<td>6 fewer patients</td>
</tr>
</tbody>
</table>

It is unknown whether the risk of suicidal thoughts and behaviors in pediatric and young adult patients extends to longer-term use, i.e., beyond four months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with MDD that antidepressants delay the recurrence of depression.

Monitor all antidepressant-treated patients for clinical worsening and emergence of suicidal thoughts and behaviors, especially during the initial few months of drug therapy and at times of dosage changes. Counsel family members or caregivers of patients to monitor for changes in behavior and to alert the healthcare provider. Consider changing the therapeutic regimen, including possibly discontinuing ZOLOFT, in patients whose depression is persistently worse, or who are experiencing emergent suicidal thoughts or behaviors.

5.2 Serotonin Syndrome

Serotonin-norepinephrine reuptake inhibitors (SNRIs) and SSRIs, including ZOLOFT, can precipitate serotonin syndrome, a potentially life-threatening condition. The risk is increased with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort) and with drugs that impair metabolism of serotonin, i.e., MAOIs [See Contraindications (4), Drug Interactions (7.1)]. Serotonin syndrome can also occur when these drugs are used alone.

Serotonin syndrome signs and symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and gastrointestinal symptoms (e.g., nausea,
vomiting, diarrhea).

The concomitant use of ZOLOFT with MAOIs is contraindicated. In addition, do not initiate ZOLOFT in a patient being treated with MAOIs such as linezolid or intravenous methylene blue. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection). If it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking ZOLOFT, discontinue ZOLOFT before initiating treatment with the MAOI [See Contraindications (4), Drug Interactions (7.1)].

Monitor all patients taking ZOLOFT for the emergence of serotonin syndrome. Discontinue treatment with ZOLOFT and any concomitant serotonergic agents immediately if the above symptoms occur, and initiate supportive symptomatic treatment. If concomitant use of ZOLOFT with other serotonergic drugs is clinically warranted, inform patients of the increased risk for serotonin syndrome and monitor for symptoms.

5.3 Increased Risk of Bleeding

Drugs that interfere with serotonin reuptake inhibition, including ZOLOFT, increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs (NSAIDs), other antiplatelet drugs, warfarin, and other anticoagulants may add to this risk. Case reports and epidemiological studies (case-control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to drugs that interfere with serotonin reuptake have ranged from ecchymosis, hematoma, epistaxis, and petechiae to life-threatening hemorrhages.

Inform patients of the increased risk of bleeding associated with the concomitant use of ZOLOFT and antiplatelet agents or anticoagulants. For patients taking warfarin, carefully monitor the international normalized ratio.

5.4 Activation of Mania or Hypomania

In patients with bipolar disorder, treating a depressive episode with ZOLOFT or another antidepressant may precipitate a mixed/manic episode. In controlled clinical trials, patients with bipolar disorder were generally excluded; however, symptoms of mania or hypomania were reported in 0.4% of patients treated with ZOLOFT. Prior to initiating treatment with ZOLOFT, screen patients for any personal or family history of bipolar disorder, mania, or hypomania.

5.5 Discontinuation Syndrome

Adverse reactions after discontinuation of serotonergic antidepressants, particularly after abrupt discontinuation, include: nausea, sweating, dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesia, such as electric shock sensations), tremor, anxiety, confusion, headache, lethargy, emotional lability, insomnia, hypomania, tinnitus, and seizures. A gradual reduction in dosage rather than abrupt cessation is recommended whenever possible [See Dosage and Administration (2.6)].

5.6 Seizures

ZOLOFT has not been systematically evaluated in patients with seizure disorders. Patients with a history of seizures were excluded from clinical studies. ZOLOFT should be prescribed with caution in patients with a seizure disorder.

5.7 Angle-Closure Glaucoma

The pupillary dilation that occurs following use of many antidepressant drugs including ZOLOFT may trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy. Avoid use of antidepressants, including ZOLOFT, in patients with untreated anatomically narrow angles.
5.8 Hyponatremia

Hyponatremia may occur as a result of treatment with SNRIs and SSRIs, including ZOLOFT. Cases with serum sodium lower than 110 mmol/L have been reported. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which may lead to falls. Signs and symptoms associated with more severe or acute cases have included hallucination, syncope, seizure, coma, respiratory arrest, and death. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH).

In patients with symptomatic hyponatremia, discontinue ZOLOFT and institute appropriate medical intervention. Elderly patients, patients taking diuretics, and those who are volume-depleted may be at greater risk of developing hyponatremia with SSRIs and SNRIs [See Use in Specific Populations (8.5)].

5.9 False-Positive Effects on Screening Tests for Benzodiazepines

False-positive urine immunoassay screening tests for benzodiazepines have been reported in patients taking ZOLOFT. This finding is due to lack of specificity of the screening tests. False-positive test results may be expected for several days following discontinuation of ZOLOFT. Confirmatory tests, such as gas chromatography/mass spectrometry, will help distinguish ZOLOFT from benzodiazepines [See Drug Interactions (7.3)].

5.10 QTc Prolongation

During post-marketing use of sertraline, cases of QTc prolongation and Torsade de Pointes (TdP) have been reported. Most reports were confounded by other risk factors. In a randomized, double-blind, placebo- and positive-controlled three-period crossover thorough QTc study in 54 healthy adult subjects, there was a positive relationship between the length of the rate-adjusted QTc interval and serum sertraline concentration. Therefore, ZOLOFT should be used with caution in patients with risk factors for QTc prolongation [See Drug Interactions (7.1), Clinical Pharmacology (12.2)].

6 ADVERSE REACTIONS

The following adverse reactions are described in more detail in other sections of the prescribing information:

- Hypersensitivity reactions to sertraline [See Contraindications (4)]
- Disulfiram-alcohol reaction when ZOLOFT oral solution is taken with disulfiram [See Contraindications (4)]
- QTc prolongation and ventricular arrhythmias when taken with pimozide [See Contraindications (4), Clinical Pharmacology (12.2)]
- Suicidal thoughts and behaviors [See Warnings and Precautions (5.1)]
- Serotonin syndrome [See Contraindications (4), Warnings and Precautions (5.2), Drug Interactions (7.1)]
- Increased risk of bleeding [See Warnings and Precautions (5.3)]
- Activation of mania/hypomania [See Warnings and Precautions (5.4)]
- Discontinuation syndrome [See Warnings and Precautions (5.5)]
- Seizures [See Warnings and Precautions (5.6)]
- Angle-closure glaucoma [See Warnings and Precautions (5.7)]
- Hyponatremia [See Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data described below are from randomized, double-blind, placebo-controlled trials of ZOLOFT
(mostly 50 mg to 200 mg per day) in 3066 adults diagnosed with MDD, OCD, PD, PTSD, SAD, and PMDD. These 3066 patients exposed to ZOLOFT for 8 to 12 weeks represent 568 patient-years of exposure. The mean age was 40 years; 57% were females and 43% were males.

The most common adverse reactions (≥5% and twice placebo) in all pooled placebo-controlled clinical trials of all ZOLOFT-treated patients with MDD, OCD, PD, PTSD, SAD and PMDD were nausea, diarrhea/loose stool, tremor, dyspepsia, decreased appetite, hyperhidrosis, ejaculation failure, and decreased libido (see Table 3). The following are the most common adverse reactions in trials of ZOLOFT (≥5% and twice placebo) by indication that were not mentioned previously.

- MDD: somnolence;
- OCD: insomnia, agitation;
- PD: constipation, agitation;
- PTSD: fatigue;
- PMDD: somnolence, dry mouth, dizziness, fatigue, and abdominal pain;
- SAD: insomnia, dizziness, fatigue, dry mouth, malaise.

| Table 3: Common Adverse Reactions in Pooled Placebo-Controlled Trials in Adults with MDD, OCD, PD, PTSD, SAD, and PMDD* |
|--------------------------------------------------|-----------------|-----------------|
| **Cardiac disorders**                            | ZOLOFT (N=3066) | Placebo (N=2293) |
| Palpitations                                     | 4%              | 2%              |
| **Eye disorders**                                |                 |                 |
| Visual impairment                                | 4%              | 2%              |
| **Gastrointestinal Disorders**                   |                 |                 |
| Nausea                                           | 26%             | 12%             |
| Diarrhea/Loose Stools                            | 20%             | 10%             |
| Dry mouth                                        | 14%             | 9%              |
| Dyspepsia                                        | 8%              | 4%              |
| Constipation                                     | 6%              | 4%              |
| Vomiting                                         | 4%              | 1%              |
| **General disorders and administration site conditions** |             |                 |
| Fatigue                                          | 12%             | 8%              |
| **Metabolism and nutrition disorders**           |                 |                 |
| Decreased appetite                               | 7%              | 2%              |
| **Nervous system disorders**                     |                 |                 |
| Dizziness                                        | 12%             | 8%              |
| Somnolence                                       | 11%             | 6%              |
| Tremor                                           | 9%              | 2%              |
| **Psychiatric Disorders**                        |                 |                 |
| Insomnia                                         | 20%             | 13%             |
| Agitation                                        | 8%              | 5%              |
| Libido Decreased                                 | 6%              | 2%              |
| **Reproductive system and breast disorders**     |                 |                 |
| Ejaculation failure                              | 8%              | 1%              |
| Erectile dysfunction†                             | 4%              | 1%              |
| Ejaculation disorder†                             | 3%              | 0%              |
| Male sexual dysfunction†                          | 2%              | 0%              |
Skin and subcutaneous tissue disorders

<table>
<thead>
<tr>
<th>Disorder</th>
<th>ZOLOFT</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyperhidrosis</td>
<td>7%</td>
<td>3%</td>
</tr>
</tbody>
</table>

* Adverse reactions that occurred greater than 2% in ZOLOFT-treated patients and at least 2% greater in ZOLOFT-treated patients than placebo-treated patients.
† Denominator used was for male patients only (n=1316 ZOLOFT; n=973 placebo).

Adverse Reactions Leading to Discontinuation in Placebo-Controlled Clinical Trials

In all placebo-controlled studies in patients with MDD, OCD, PD, PTSD, SAD and PMDD, 368 (12%) of the 3066 patients who received ZOLOFT discontinued treatment due to an adverse reaction, compared with 93 (4%) of the 2293 placebo-treated patients. In placebo-controlled studies, the following were the common adverse reactions leading to discontinuation in ZOLOFT-treated patients:
- MDD, OCD, PD, PTSD, SAD and PMDD: nausea (3%), diarrhea (2%), agitation (2%), and insomnia (2%).
- MDD (>2% and twice placebo): decreased appetite, dizziness, fatigue, headache, somnolence, tremor, and vomiting.
- OCD: somnolence.
- PD: nervousness and somnolence.

Male and Female Sexual Dysfunction

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 SSRI treatment. However, reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance and satisfaction are difficult to obtain, in part because patients and healthcare providers may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in labeling may underestimate their actual incidence.

Table 4 below displays the incidence of sexual adverse reactions reported by at least 2% of ZOLOFT-treated patients and twice placebo from pooled placebo-controlled trials. For men and all indications, the most common adverse reactions (>2% and twice placebo) included: ejaculation failure, decreased libido, erectile dysfunction, ejaculation disorder, and male sexual dysfunction. For women, the most common adverse reaction (>2% and twice placebo) was decreased libido.

**Table 4: Most Common Sexual Adverse Reactions (≥2% and twice placebo) in Men or Women from ZOLOFT Pooled Controlled Trials in Adults with MDD, OCD, PD, PTSD, SAD, and PMDD**

<table>
<thead>
<tr>
<th></th>
<th>ZOLOFT (N=1316)</th>
<th>Placebo (N=973)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ejaculation failure</td>
<td>8%</td>
<td>1%</td>
</tr>
<tr>
<td>Libido decreased</td>
<td>7%</td>
<td>2%</td>
</tr>
<tr>
<td>Erectile dysfunction</td>
<td>4%</td>
<td>1%</td>
</tr>
<tr>
<td>Ejaculation disorder</td>
<td>3%</td>
<td>0%</td>
</tr>
<tr>
<td>Male sexual dysfunction</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td>Women only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(N=1750)</td>
<td></td>
<td>(N=1320)</td>
</tr>
<tr>
<td>Libido decreased</td>
<td>4%</td>
<td>2%</td>
</tr>
</tbody>
</table>

Adverse Reactions in Pediatric Patients

In 281 pediatric patients treated with ZOLOFT in placebo-controlled studies, the overall profile of adverse reactions was generally similar to that seen in adult studies. Adverse reactions that do not appear in Table 3 (most common adverse reactions in adults) yet were reported in at least 2% of pediatric patients and at a rate of at least twice the placebo rate include fever, hyperkinesia, urinary
incontinence, aggression, epistaxis, purpura, arthralgia, decreased weight, muscle twitching, and anxiety.

**Other Adverse Reactions Observed During the Premarketing Evaluation of ZOLOFT**

Other infrequent adverse reactions, not described elsewhere in the prescribing information, occurring at an incidence of < 2% in patients treated with ZOLOFT were:

- **Cardiac disorders** – tachycardia
- **Ear and labyrinth disorders** – tinnitus
- **Endocrine disorders** - hypothyroidism
- **Eye disorders** - mydriasis, blurred vision
- **Gastrointestinal disorders** - hematochezia, melena, rectal hemorrhage
- **General disorders and administration site conditions** - edema, gait disturbance, irritability, pyrexia
- **Hepatobiliary disorders** - elevated liver enzymes
- **Immune system disorders** - anaphylaxis
- **Metabolism and nutrition disorders** - diabetes mellitus, hypercholesterolemia, hypoglycemia, increased appetite
- **Musculoskeletal and connective tissue disorders** - arthralgia, muscle spasms, tightness, or twitching
- **Nervous system disorders** - ataxia, coma, convulsion, decreased alertness, hypoesthesia, lethargy, psychomotor hyperactivity, syncope
- **Psychiatric disorders** - aggression, bruxism, confusional state, euphoric mood, hallucination
- **Renal and urinary disorders** - hematuria
- **Reproductive system and breast disorders** - galactorrhea, priapism, vaginal hemorrhage
- **Respiratory, thoracic and mediastinal disorders** - bronchospasm, epistaxis, yawning
- **Skin and subcutaneous tissue disorders** - alopecia; cold sweat; dermatitis; dermatitis bullous; pruritus; purpura; erythematous, follicular, or maculopapular rash; urticaria
- **Vascular disorders** - hemorrhage, hypertension, vasodilation

**6.2 Post-marketing Experience**

The following adverse reactions have been identified during postapproval use of ZOLOFT. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- **Bleeding or clotting disorders** - increased coagulation times (altered platelet function)
- **Cardiac disorders** - AV block, bradycardia, atrial arrhythmias, QTc-interval prolongation, ventricular tachycardia (including Torsade de Pointes) [See Clinical Pharmacology (12.2)]
- **Endocrine disorders** - gynecomastia, hyperprolactinemia, menstrual irregularities, SIADH
- **Eye disorders** - blindness, optic neuritis, cataract
- **Hepatobiliary disorders** - severe liver events (including hepatitis, jaundice, liver failure with some fatal outcomes), pancreatitis
- **Hemic and lymphatic disorders** - agranulocytosis, aplastic anemia and pancytopenia, leukopenia, thrombocytopenia, lupus-like syndrome, serum sickness
- **Immune system disorders** - angioedema
- **Metabolism and nutrition disorders** - hyponatremia, hyperglycemia
- **Musculoskeletal and connective tissue disorders** - rhabdomyolysis, trismus
- **Nervous system disorders** - serotonin syndrome, extrapyramidal symptoms (including akathisia and dystonia), oculogyric crisis
- **Psychiatric disorders** - psychosis, enuresis, paroniria
**Renal and urinary disorders** - acute renal failure

**Respiratory, thoracic and mediastinal disorders** - pulmonary hypertension

**Skin and subcutaneous tissue disorders** - photosensitivity skin reaction and other severe cutaneous reactions, which potentially can be fatal, such as Stevens-Johnson Syndrome (SJS) and toxic epidermal necrolysis (TEN)

**Vascular disorders** - cerebrovascular spasm (including reversible cerebral vasoconstriction syndrome and Call-Fleming syndrome), vasculitis

### 7 DRUG INTERACTIONS

#### 7.1 Clinically Significant Drug Interactions

Table 5 includes clinically significant drug interactions with ZOLOFT [See Clinical Pharmacology (12.3)].

**Table 5. Clinically-Significant Drug Interactions with ZOLOFT**

<table>
<thead>
<tr>
<th>Monoamine Oxidase Inhibitors (MAOIs)</th>
<th>Clinical Impact:</th>
<th>The concomitant use of SSRIs including ZOLOFT and MAOIs increases the risk of serotonin syndrome.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intervention:</td>
<td>ZOLOFT is contraindicated in patients taking MAOIs, including MAOIs such as linezolid or intravenous methylene blue [See Dosage and Administration (2.5), Contraindications (4), Warnings and Precautions (5.2)].</td>
</tr>
<tr>
<td></td>
<td>Examples:</td>
<td>selegiline, tranylcypromine, isocarboxazid, phenelzine, linezolid, methylene blue</td>
</tr>
</tbody>
</table>

**Pimozide**

<table>
<thead>
<tr>
<th>Clinical Impact:</th>
<th>Increased plasma concentrations of pimozide, a drug with a narrow therapeutic index, may increase the risk of QTc prolongation and ventricular arrhythmias.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention:</td>
<td>Concomitant use of pimozide and ZOLOFT is contraindicated [See Contraindications (4)].</td>
</tr>
</tbody>
</table>

**Other Serotonergic Drugs**

<table>
<thead>
<tr>
<th>Clinical Impact:</th>
<th>The concomitant use of serotonergic drugs with ZOLOFT increases the risk of serotonin syndrome.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention:</td>
<td>Monitor patients for signs and symptoms of serotonin syndrome, particularly during treatment initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of ZOLOFT and/or concomitant serotonergic drugs [See Warnings and Precautions (5.2)].</td>
</tr>
<tr>
<td>Examples:</td>
<td>other SSRIs, SNRIs, triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, St. John's Wort</td>
</tr>
</tbody>
</table>

**Drugs that Interfere with Hemostasis (antiplatelet agents and anticoagulants)**

<table>
<thead>
<tr>
<th>Clinical Impact:</th>
<th>The concurrent use of an antiplatelet agent or anticoagulant with ZOLOFT may potentiate the risk of bleeding.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention:</td>
<td>Inform patients of the increased risk of bleeding associated with the concomitant use of ZOLOFT and antiplatelet agents and anticoagulants. For patients taking warfarin, carefully monitor the international normalized ratio [See Warnings and Precautions (5.3)].</td>
</tr>
<tr>
<td>Examples:</td>
<td>aspirin, clopidogrel, heparin, warfarin</td>
</tr>
</tbody>
</table>

**Drugs Highly Bound to Plasma Protein**

<table>
<thead>
<tr>
<th>Clinical Impact:</th>
<th>ZOLOFT is highly bound to plasma protein. The concomitant use of ZOLOFT with another drug that is highly bound to plasma protein may increase free concentrations of ZOLOFT or other tightly-bound drugs in plasma [See Clinical Pharmacology (12.3)].</th>
</tr>
</thead>
</table>
Intervention: Monitor for adverse reactions and reduce dosage of ZOLOFT or other protein-bound drugs as warranted.

Examples: warfarin

**Drugs Metabolized by CYP2D6**

**Clinical Impact:** ZOLOFT is a CYP2D6 inhibitor [See Clinical Pharmacology (12.3)]. The concomitant use of ZOLOFT with a CYP2D6 substrate may increase the exposure of the CYP2D6 substrate.

**Intervention:** Decrease the dosage of a CYP2D6 substrate if needed with concomitant ZOLOFT use. Conversely, an increase in dosage of a CYP2D6 substrate may be needed if ZOLOFT is discontinued.

**Examples:** propafenone, flecainide, atomoxetine, desipramine, dextromethorphan, metoprolol, nebivolol, perphenazine, thoridazine, tolterodine, venlafaxine

**Phenytoin**

**Clinical Impact:** Phenytoin is a narrow therapeutic index drug. ZOLOFT may increase phenytoin concentrations.

**Intervention:** Monitor phenytoin levels when initiating or titrating ZOLOFT. Reduce phenytoin dosage if needed.

**Examples:** phenytoin, fosphenytoin

**Drugs that Prolong the QTc Interval**

**Clinical Impact:** The risk of QTc prolongation and/or ventricular arrhythmias (e.g., TdP) is increased with concomitant use of other drugs which prolong the QTc interval [See Warnings and Precautions (5.10), Clinical Pharmacology (12.2)].

**Intervention:** Pimozide is contraindicated for use with sertraline. Avoid the concomitant use of drugs known to prolong the QTc interval.

**Examples:** Specific antipsychotics (e.g., ziprasidone, iloperidone, chlorpromazine, mesoridazine, droperidol); specific antibiotics (e.g., erythromycin, gatifloxacin, moxifloxacin, sparfloxacin); Class 1A antiarrhythmic medications (e.g., quinidine, procainamide); Class III antiarrhythmics (e.g., amiodarone, sotalol); and others (e.g., pentamidine, levomethadyl acetate, methadone, halofantrine, mefloquine, dolasetron mesylate, probucol or tacrolimus).

7.2 Drugs Having No Clinically Important Interactions with ZOLOFT

Based on pharmacokinetic studies, no dosage adjustment of ZOLOFT is necessary when used in combination with cimetidine. Additionally, no dosage adjustment is required for diazepam, lithium, atenolol, tolbutamide, digoxin, and drugs metabolized by CYP3A4, when ZOLOFT is administered concomitantly [See Clinical Pharmacology (12.3)].

7.3 False-Positive Screening Tests for Benzodiazepines

False-positive urine immunoassay screening tests for benzodiazepines have been reported in patients taking ZOLOFT. This finding is due to lack of specificity of the screening tests. False-positive test results may be expected for several days following discontinuation of ZOLOFT. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish sertraline from benzodiazepines.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

**Risk Summary**

Overall, available published epidemiologic studies of pregnant women exposed to sertraline in the first trimester suggest no difference in major birth defect risk compared to the background rate for major
birth defects in comparator populations. Some studies have reported increases for specific major birth defects; however, these study results are inconclusive [See Data]. There are clinical considerations regarding neonates exposed to SSRIs and SNRIs, including ZOLOFT, during the third trimester of pregnancy [See Clinical Considerations].

Although no teratogenicity was observed in animal reproduction studies, delayed fetal ossification was observed when sertraline was administered during the period of organogenesis at doses less than the maximum recommended human dose (MRHD) in rats and doses 3.1 times the MRHD in rabbits on a mg/m² basis in adolescents. When sertraline was administered to female rats during the last third of gestation, there was an increase in the number of stillborn pups and pup deaths during the first four days after birth at the MRHD [See Data].

The background risk of major birth defects and miscarriage for the indicated population are unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2–4% and 15–20%, respectively. Advise a pregnant woman of possible risks to the fetus when prescribing ZOLOFT.

ZOLOFT oral solution contains 12% alcohol and is not recommended during pregnancy because there is no known safe level of alcohol exposure during pregnancy.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

A prospective longitudinal study followed 201 pregnant women with a history of major depression who were euthymic taking antidepressants at the beginning of pregnancy. The women who discontinued antidepressants during pregnancy were more likely to experience a relapse of major depression than women who continued antidepressants. Consider the risks of untreated depression when discontinuing or changing treatment with antidepressant medication during pregnancy and postpartum.

Fetal/Neonatal adverse reactions

Exposure to SSRIs and SNRIs, including ZOLOFT in late pregnancy may lead to an increased risk for neonatal complications requiring prolonged hospitalization, respiratory support, and tube feeding, and/or persistent pulmonary hypertension of the newborn (PPHN).

When treating a pregnant woman with ZOLOFT during the third trimester, carefully consider both the potential risks and benefits of treatment. Monitor neonates who were exposed to ZOLOFT in the third trimester of pregnancy for PPHN and drug discontinuation syndrome [See Data].

Data

Human Data

Third Trimester Exposure

Neonates exposed to ZOLOFT and other SSRIs or SNRIs late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. These findings are based on post-marketing reports. 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. In some cases, the clinical picture was consistent with serotonin syndrome [See Warnings and Precautions (5.2)].

Exposure during late pregnancy to SSRIs may have an increased risk for persistent pulmonary hypertension of the newborn (PPHN). PPHN occurs in 1–2 per 1,000 live births in the general population and is associated with substantial neonatal morbidity and mortality. In a retrospective case-control study of 377 women whose infants were born with PPHN and 836 women whose infants were born healthy, the risk for developing PPHN was approximately six-fold higher for infants exposed to SSRIs after the 20th week of gestation compared to infants who had not been exposed to antidepressants.
during pregnancy. A study of 831,324 infants born in Sweden in 1997–2005 found a PPHN risk ratio of 2.4 (95% CI 1.2–4.3) associated with patient-reported maternal use of SSRIs "in early pregnancy" and a PPHN risk ratio of 3.6 (95% CI 1.2–8.3) associated with a combination of patient-reported maternal use of SSRIs "in early pregnancy" and an antenatal SSRI prescription “in later pregnancy”.

First Trimester Exposure

The weight of evidence from epidemiologic studies of pregnant women exposed to sertraline in the first trimester suggest no difference in major birth defect risk compared to the background rate for major birth defects in pregnant women who were not exposed to sertraline. A meta-analysis of studies suggest no increase in the risk of total malformations (summary odds ratio=1.01, 95% CI=0.88–1.17) or cardiac malformations (summary odds ratio=0.93, 95% CI=0.70–1.23) among offspring of women with first trimester exposure to sertraline. An increased risk of congenital cardiac defects, specifically septal defects, the most common type of congenital heart defect, was observed in some published epidemiologic studies with first trimester sertraline exposure; however, most of these studies were limited by the use of comparison populations that did not allow for the control of confounders such as the underlying depression and associated conditions and behaviors, which may be factors associated with increased risk of these malformations.

Animal Data

Reproduction studies have been performed in rats and rabbits at doses up to 80 mg/kg/day and 40 mg/kg/day, respectively. These doses correspond to approximately 3.1 times the maximum recommended human dose (MRHD) of 200 mg/day on a mg/m² basis in adolescents. There was no evidence of teratogenicity at any dose level. When pregnant rats and rabbits were given sertraline during the period of organogenesis, delayed ossification was observed in fetuses at doses of 10 mg/kg (0.4 times the MRHD on a mg/m² basis) in rats and 40 mg/kg (3.1 times the MRHD on a mg/m² basis) in rabbits. When female rats received sertraline during the last third of gestation and throughout lactation, there was an increase in stillborn pups and pup deaths during the first 4 days after birth. Pup body weights were also decreased during the first four days after birth. These effects occurred at a dose of 20 mg/kg (0.8 times the MRHD on a mg/m² basis). The no effect dose for rat pup mortality was 10 mg/kg (0.4 times the MRHD on a mg/m² basis). The decrease in pup survival was shown to be due to in utero exposure to sertraline. The clinical significance of these effects is unknown.

8.2 Lactation

Risk Summary

Available data from published literature demonstrate low levels of sertraline and its metabolites in human milk [See Data]. There are no data on the effects of sertraline on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for ZOLOFT and any potential adverse effects on the breastfed infant from the drug or from the underlying maternal condition.

Data

In a published pooled analysis of 53 mother-infant pairs, exclusively human milk-fed infants had an average of 2% (range 0% to 15%) of the sertraline serum levels measured in their mothers. No adverse reactions were observed in these infants.

8.4 Pediatric Use

The safety and efficacy of ZOLOFT have been established in the treatment of OCD in pediatric patients aged 6 to 17 [See Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.2)]. Safety and effectiveness in pediatric patients in patients with OCD below the age of 6 have not been established. Safety and effectiveness have not been established in pediatric patients for indications other than OCD. Two placebo-controlled trials were conducted in pediatric patients with MDD, but the data were not sufficient to support an indication for use in pediatric patients.
Monitoring Pediatric Patients Treated with ZOLOFT

Monitor all patients being treated with antidepressants for clinical worsening, suicidal thoughts, and unusual changes in behavior, especially during the initial few months of treatment, or at times of dose increases or decreases [See Boxed Warning, Warnings and Precautions (5.1)]. Decreased appetite and weight loss have been observed with the use of SSRIs. Monitor weight and growth in pediatric patients treated with an SSRI such as ZOLOFT.

Weight Loss in Studies in Pediatric Patients with MDD

In a pooled analysis of two 10-week, double-blind, placebo-controlled, flexible dose (50–200 mg) outpatient trials for MDD (n=373), there was a difference in weight change between ZOLOFT and placebo of roughly 1 kg, for both children (ages 6–11) and adolescents (ages 12–17), in both age groups representing a slight weight loss for the ZOLOFT group compared to a slight gain for the placebo group. For children, about 7% of the ZOLOFT-treated patients had a weight loss greater than 7% of body weight compared to 0% of the placebo-treated patients; for adolescents, about 2% of ZOLOFT-treated patients had a weight loss > 7% of body weight compared to about 1% of placebo-treated patients.

A subset of patients who completed the randomized controlled trials in patients with MDD (ZOLOFT n=99, placebo n=122) were continued into a 24-week, flexible-dose, open-label, extension study. Those subjects who completed 34 weeks of ZOLOFT treatment (10 weeks in a placebo-controlled trial + 24 weeks open-label, n=68) had weight gain that was similar to that expected using data from age-adjusted peers. However, there are no studies that directly evaluate the long-term effects of ZOLOFT on the growth, development, and maturation in pediatric patients.

Alcohol Content in ZOLOFT Oral Solution

ZOLOFT oral solution contains 12% alcohol.

Juvenile Animal Data

A study conducted in juvenile rats at clinically relevant doses showed delay in sexual maturation, but there was no effect on fertility in either males or females.

In this study in which juvenile rats were treated with oral doses of sertraline at 0, 10, 40 or 80 mg/kg/day from postnatal day 21 to 56, a delay in sexual maturation was observed in males treated with 80 mg/kg/day and females treated with doses ≥10 mg/kg/day. There was no effect on male and female reproductive endpoints or neurobehavioral development up to the highest dose tested (80 mg/kg/day), except a decrease in auditory startle response in females at 40 and 80 mg/kg/day at the end of treatment but not at the end of the drug-free period. The highest dose of 80 mg/kg/day produced plasma levels (AUC) of sertraline 5 times those seen in pediatric patients (6–17 years of age) receiving the maximum recommended dose of sertraline (200 mg/day).

8.5 Geriatric Use

Of the total number of patients in clinical studies of ZOLOFT in patients with MDD, OCD, PD, PTSD, SAD and PMDD, 797 (17%) were ≥ 65 years old, while 197 (4%) were ≥ 75 years old.

No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be conservative, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

In 354 geriatric subjects treated with ZOLOFT in MDD placebo-controlled trials, the overall profile of adverse reactions was generally similar to that shown in Table 3[See Adverse Reactions (6.1)], except for tinnitus, arthralgia with an incidence of at least 2% and at a rate greater than placebo in geriatric patients.
SNRIs and SSRIs, including ZOLOFT, have been associated with cases of clinically significant hyponatremia in elderly patients, who may be at greater risk for this adverse reaction [See Warnings and Precautions (5.8)].

8.6 Hepatic Impairment
The recommended dosage in patients with mild hepatic impairment (Child-Pugh score 5 or 6) is half the recommended dosage due to increased exposure in this patient population. The use of ZOLOFT in patients with moderate (Child-Pugh score 7 to 10) or severe hepatic impairment (Child-Pugh score 10–15) is not recommended, because ZOLOFT is extensively metabolized, and the effects of ZOLOFT in patients with moderate and severe hepatic impairment have not been studied [See Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

8.7 Renal Impairment
No dose adjustment is needed in patients with mild to severe renal impairment. Sertraline exposure does not appear to be affected by renal impairment [See Clinical Pharmacology (12.3)].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance
ZOLOFT contains sertraline, which is not a controlled substance.

9.2 Abuse
In a placebo-controlled, double-blind, randomized study of the comparative abuse liability of ZOLOFT, alprazolam, and d-amphetamine in humans, ZOLOFT did not produce the positive subjective effects indicative of abuse potential, such as euphoria or drug liking, that were observed with the other two drugs.

10 OVERDOSAGE

Human Experience
The most common signs and symptoms associated with non-fatal ZOLOFT overdosage were somnolence, vomiting, tachycardia, nausea, dizziness, agitation and tremor. No cases of fatal overdosage with only sertraline have been reported.

Other important adverse events reported with ZOLOFT overdose (single or multiple drugs) include bradycardia, bundle branch block, coma, convulsions, delirium, hallucinations, hypertension, hypotension, manic reaction, pancreatitis, QTc-interval prolongation, Torsade de Pointes, serotonin syndrome, stupor, and syncope [See Clinical Pharmacology (12.2)].

Overdose Management
No specific antidotes for ZOLOFT are known. Contact Poison Control (1-800-222-1222) for latest recommendations.

11 DESCRIPTION
ZOLOFT contains sertraline hydrochloride, an SSRI. Sertraline hydrochloride has a molecular weight of 342.7 and has the following chemical name: (1S-cis)-4-(3,4-dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl-1-naphthalenamine hydrochloride. The empirical formula C₁₇H₁₇NCl₂·HCl is represented by the following structural formula:
Sertraline hydrochloride is a white crystalline powder that is slightly soluble in water and isopropyl alcohol, and sparingly soluble in ethanol.

ZOLOFT tablets for oral administration contain 28.0 mg, 56.0 mg and 111.9 mg sertraline hydrochloride equivalent to 25, 50 and 100 mg of sertraline and the following inactive ingredients: dibasic calcium phosphate dihydrate, D & C Yellow #10 aluminum lake (in 25 mg tablet), FD & C Blue #1 aluminum lake (in 25 mg tablet), FD & C Red #40 aluminum lake (in 25 mg tablet), FD & C Blue #2 aluminum lake (in 50 mg tablet), hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, synthetic yellow iron oxide (in 100 mg tablet), and titanium dioxide.

ZOLOFT oral solution is available in a multidose 60 mL bottle. Each mL of solution contains 22.4 mg sertraline hydrochloride equivalent to 20 mg of sertraline. The solution contains the following inactive ingredients: glycerin, alcohol (12%), menthol, butylated hydroxytoluene (BHT). The oral solution must be diluted prior to administration [See Dosage and Administration (2.7)]. The dispenser contains dry natural rubber.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Sertraline potentiates serotonergic activity in the central nervous system through inhibition of neuronal reuptake of serotonin (5-HT).

12.2 Pharmacodynamics
Studies at clinically relevant doses have demonstrated that sertraline blocks the uptake of serotonin into human platelets. In vitro studies in animals also suggest that sertraline is a potent and selective inhibitor of neuronal serotonin reuptake and has only very weak effects on norepinephrine and dopamine neuronal reuptake. In vitro studies have shown that sertraline has no significant affinity for adrenergic (alpha1, alpha2, beta), cholinergic, GABA, dopaminergic, histaminergic, serotonergic (5HT1A, 5HT1B, 5HT2), or benzodiazepine receptors. The chronic administration of sertraline was found in animals to down regulate brain norepinephrine receptors. Sertraline does not inhibit monoamine oxidase.

Alcohol
In healthy subjects, the acute cognitive and psychomotor effects of alcohol were not potentiated by ZOLOFT.
The effect of sertraline on the QTc interval was evaluated in a randomized, double-blind, placebo- and positive-controlled three-period crossover thorough QTc study in 54 healthy adult subjects. At 2-fold the maximum recommended daily dose (~3-fold the steady-state exposure for sertraline and N-desmethylsertraline), the largest mean ΔΔQTc was 10 ms with upper bound of two-sided 90% confidence interval of 12 ms. The length of the QTc interval was also positively correlated with serum concentrations of sertraline and N-desmethylsertraline concentrations. These concentration-based analyses, however, indicated a lesser effect on QTc at maximally observed concentration than in the primary analysis [See Warnings and Precautions (5), Adverse Reactions (6), Drug Interactions (7), Overdosage (10)].

12.3 Pharmacokinetics

Absorption

Following oral once-daily ZOLOFT dosing over the range of 50 to 200 mg for 14 days, mean peak plasma concentrations (C\text{max}) of sertraline occurred between 4.5 to 8.4 hours post-dosing. The average terminal elimination half-life of plasma sertraline is about 26 hours. Consistent with the terminal elimination half-life, there is an approximately two-fold accumulation up to steady-state concentrations, which are achieved after one week of once-daily dosing. Linear dose-proportional pharmacokinetics were demonstrated in a single dose study in which the C\text{max} and area under the plasma concentration time curve (AUC) of sertraline were proportional to dose over a range of 50 to 200 mg. The single dose bioavailability of ZOLOFT tablets is approximately equal to an equivalent dose of ZOLOFT oral solution. Administration with food causes a small increase in C\text{max} and AUC.

Metabolism

Sertraline undergoes extensive first pass metabolism. The principal initial pathway of metabolism for sertraline is N-demethylation. N-desmethylsertraline has a plasma terminal elimination half-life of 62 to 104 hours. Both in vitro biochemical and in vivo pharmacological testing have shown N-desmethylsertraline to be substantially less active than sertraline. Both sertraline and N-desmethylsertraline undergo oxidative deamination and subsequent reduction, hydroxylation, and glucuronide conjugation. In a study of radiolabeled sertraline involving two healthy male subjects, sertraline accounted for less than 5% of the plasma radioactivity. About 40–45% of the administered radioactivity was recovered in urine in 9 days. Unchanged sertraline was not detectable in the urine. For the same period, about 40–45% of the administered radioactivity was accounted for in feces, including 12–14% unchanged sertraline.

Desmethylsertraline exhibits time-related, dose dependent increases in AUC (0–24-hour), C\text{max} and C\text{min}, with about a 5- to 9-fold increase in these pharmacokinetic parameters between day 1 and day 14.

Protein Binding

In vitro protein binding studies performed with radiolabeled 3H-sertraline showed that sertraline is highly bound to serum proteins (98%) in the range of 20 to 500 ng/mL. However, at up to 300 and 200 ng/mL concentrations, respectively, sertraline and N-desmethylsertraline did not alter the plasma protein binding of two other highly protein bound drugs, warfarin and propranolol.

Studies in Specific Populations

Pediatric Patients

Sertraline pharmacokinetics were evaluated in a group of 61 pediatric patients (29 aged 6–12 years, 32 aged 13–17 years) including both males (N=28) and females (N=33). Relative to the adults, pediatric patients aged 6–12 years and 13–17 years showed about 22% lower AUC (0–24 hr) and C\text{max} values when plasma concentration was adjusted for weight. The half-life was similar to that in adults, and no gender-associated differences were observed [See Dosage and Administration (2.1), Use in Specific Populations (8.4)].
Geriatric Patients

Sertraline plasma clearance in a group of 16 (8 male, 8 female) elderly patients treated with 100 mg/day of ZOLOFT for 14 days was approximately 40% lower than in a similarly studied group of younger (25 to 32 year old) individuals. Steady-state, therefore, was achieved after 2 to 3 weeks in older patients. The same study showed a decreased clearance of desmethylsertraline in older males, but not in older females [See Use in Specific Populations (8.5)].

Hepatic Impairment

In patients with chronic mild liver impairment (N=10: 8 patients with Child-Pugh scores of 5–6; and 2 patients with Child-Pugh scores of 7–8) who received 50 mg of ZOLOFT per day for 21 days, sertraline clearance was reduced, resulting in approximately 3-fold greater exposure compared to age-matched volunteers with normal hepatic function (N=10). The exposure to desmethylsertraline was approximately 2-fold greater in patients with mild hepatic impairment compared to age-matched volunteers with normal hepatic function. There were no significant differences in plasma protein binding observed between the two groups. The effects of ZOLOFT in patients with moderate and severe hepatic impairment have not been studied [See Dosage and Administration (2.4), Use in Specific Populations (8.6)].

Renal Impairment

Sertraline is extensively metabolized and excretion of unchanged drug in urine is a minor route of elimination. In volunteers with mild to moderate (CLcr=30–60 mL/min), moderate to severe (CLcr=10–29 mL/min) or severe (receiving hemodialysis) renal impairment (N=10 each group), the pharmacokinetics and protein binding of 200 mg sertraline per day maintained for 21 days were not altered compared to age-matched volunteers (N=12) with no renal impairment. Thus sertraline multiple dose pharmacokinetics appear to be unaffected by renal impairment [See Use in Specific Populations (8.7)].

Drug Interaction Studies

Pimozide

In a controlled study of a single dose (2 mg) of pimozide, 200 mg ZOLOFT (once daily) co-administration to steady state was associated with a mean increase in pimozide AUC and C\text{max} of about 40%, but was not associated with any changes in ECG. The highest recommended pimozide dose (10 mg) has not been evaluated in combination with ZOLOFT. The effect on QTc interval and PK parameters at doses higher than 2 mg of pimozide are not known [See Drug Interactions (7.1)].

Drugs Metabolized by CYP2D6

Many antidepressant drugs (e.g., SSRIs, including ZOLOFT, and most tricyclic antidepressant drugs) inhibit the biochemical activity of the drug metabolizing isozyme CYP2D6 (debrisoquin hydroxylase), and, thus, may increase the plasma concentrations of co-administered drugs that are metabolized by CYP2D6. The drugs for which this potential interaction is of greatest concern are those metabolized primarily by CYP2D6 and that have a narrow therapeutic index (e.g., tricyclic antidepressant drugs and the Type 1C antiarrhythmics propafenone and flecainide). The extent to which this interaction is an important clinical problem depends on the extent of the inhibition of CYP2D6 by the antidepressant and the therapeutic index of the co-administered drug. There is variability among the drugs effective in the treatment of MDD in the extent of clinically important 2D6 inhibition, and in fact ZOLOFT at lower doses has a less prominent inhibitory effect on 2D6 than some others in the class. Nevertheless, even ZOLOFT has the potential for clinically important 2D6 inhibition [See Drug Interactions (7.1)].

Phenytoin

Clinical trial data suggested that ZOLOFT may increase phenytoin concentrations [See Drug Interactions (7.1)].

Cimetidine
In a study assessing disposition of ZOLOFT (100 mg) on the second of 8 days of cimetidine administration (800 mg daily), there were increases in ZOLOFT mean AUC (50%), C_{max} (24%) and half-life (26%) compared to the placebo group [See Drug Interactions (7.2)].

**Diazepam**

In a study comparing the disposition of intravenously administered diazepam before and after 21 days of dosing with either ZOLOFT (50 to 200 mg/day escalating dose) or placebo, there was a 32% decrease relative to baseline in diazepam clearance for the ZOLOFT group compared to a 19% decrease relative to baseline for the placebo group (p<0.03). There was a 23% increase in T_{max} for desmethyldiazepam in the ZOLOFT group compared to a 20% decrease in the placebo group (p<0.03) [See Drug Interactions (7.2)].

**Lithium**

In a placebo-controlled trial in normal volunteers, the administration of two doses of ZOLOFT did not significantly alter steady-state lithium levels or the renal clearance of lithium [See Drug Interactions (7.2)].

**Tolbutamide**

In a placebo-controlled trial in normal volunteers, administration of ZOLOFT for 22 days (including 200 mg/day for the final 13 days) caused a statistically significant 16% decrease from baseline in the clearance of tolbutamide following an intravenous 1000 mg dose. ZOLOFT administration did not noticeably change either the plasma protein binding or the apparent volume of distribution of tolbutamide, suggesting that the decreased clearance was due to a change in the metabolism of the drug [See Drug Interactions (7.2)].

**Atenolol**

ZOLOFT (100 mg) when administered to 10 healthy male subjects had no effect on the beta-adrenergic blocking ability of atenolol [See Drug Interactions (7.2)].

**Digoxin**

In a placebo-controlled trial in normal volunteers, administration of ZOLOFT for 17 days (including 200 mg/day for the last 10 days) did not change serum digoxin levels or digoxin renal clearance [See Drug Interactions (7.2)].

**Drugs Metabolized by CYP3A4**

In three separate in vivo interaction studies, ZOLOFT was co-administered with CYP3A4 substrates, terfenadine, carbamazepine, or cisapride under steady-state conditions. The results of these studies indicated that ZOLOFT did not increase plasma concentrations of terfenadine, carbamazepine, or cisapride. These data indicate that ZOLOFT's extent of inhibition of CYP3A4 activity is not likely to be of clinical significance. Results of the interaction study with cisapride indicate that ZOLOFT 200 mg (once daily) induces the metabolism of cisapride (cisapride AUC and C_{max} were reduced by about 35%) [See Drug Interactions (7.2)].

**Microsomal Enzyme Induction**

Preclinical studies have shown ZOLOFT to induce hepatic microsomal enzymes. In clinical studies, ZOLOFT was shown to induce hepatic enzymes minimally as determined by a small (5%) but statistically significant decrease in antipyrine half-life following administration of 200 mg of ZOLOFT per day for 21 days. This small change in antipyrine half-life reflects a clinically insignificant change in hepatic metabolism.

### 13 NONCLINICAL TOXICOLOGY

**13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**
Carcinogenesis

Lifetime carcinogenicity studies were carried out in CD-1 mice and Long-Evans rats at doses up to 40 mg/kg/day. These doses correspond to 1 times (mice) and 2 times (rats) the maximum recommended human dose (MRHD) of 200 mg/day on a mg/m² basis. There was a dose-related increase of liver adenomas in male mice receiving sertraline at 10–40 mg/kg (0.25–1.0 times the MRHD on a mg/m² basis). No increase was seen in female mice or in rats of either sex receiving the same treatments, nor was there an increase in hepatocellular carcinomas. Liver adenomas have a variable rate of spontaneous occurrence in the CD-1 mouse and are of unknown significance to humans. There was an increase in follicular adenomas of the thyroid in female rats receiving sertraline at 40 mg/kg (2 times the MRHD on a mg/m² basis); this was not accompanied by thyroid hyperplasia. While there was an increase in uterine adenocarcinomas in rats receiving sertraline at 10–40 mg/kg (0.5–2.0 times the MRHD on a mg/m² basis) compared to placebo controls, this effect was not clearly drug related.

Mutagenesis

Sertraline had no genotoxic effects, with or without metabolic activation, based on the following assays: bacterial mutation assay; mouse lymphoma mutation assay; and tests for cytogenetic aberrations in vivo in mouse bone marrow and in vitro in human lymphocytes.

Impairment of Fertility

A decrease in fertility was seen in one of two rat studies at a dose of 80 mg/kg (3.1 times the maximum recommended human dose on a mg/m² basis in adolescents).

14 CLINICAL STUDIES

Efficacy of ZOLOFT was established in the following trials:
- MDD: two short-term trials and one maintenance trials in adults [See Clinical Studies (14.1)].
- OCD: three short-term trials in adults and one short-term trial in pediatric patients [See Clinical Studies (14.2)].
- PD: three short-term trials and one maintenance trial in adults [See Clinical Studies (14.3)].
- PTSD: two short-term trials and one maintenance trial in adults [See Clinical Studies (14.4)].
- SAD: two short-term trials and one maintenance trial in adults [See Clinical Studies (14.5)].
- PMDD: two short-term trials in adult female patients [See Clinical Studies (14.6)].

14.1 Major Depressive Disorder

The efficacy of ZOLOFT as a treatment for MDD was established in two randomized, double-blind, placebo-controlled studies and one double-blind, randomized-withdrawal study following an open label study in adult (ages 18 to 65) outpatients who met the Diagnostic and Statistical Manual of Mental Disorders (DSM-III) criteria for MDD (studies MDD-1 and MDD-2).
- Study MDD-1 was an 8-week, 3-arm study with flexible dosing of ZOLOFT, amitriptyline, and placebo. Adult patients received ZOLOFT (N=126, in a daily dose titrated weekly to 50 mg, 100 mg, or 200 mg), amitriptyline (N=123, in a daily dose titrated weekly to 50 mg, 100 mg, or 150 mg), or placebo (N= 130).
- Study MDD-2 was a 6-week, multicenter parallel study of three fixed doses of ZOLOFT administered once daily at 50 mg (N=82), 100 mg (N=75), and 200 mg (N=56) doses and placebo (N=76) in the treatment of adult outpatients with MDD.

Overall, these studies demonstrated ZOLOFT to be superior to placebo on the Hamilton Rating Scale for Depression (HAMD-17) and the Clinical Global Impression Severity (CGI-S) of Illness and Global Improvement (CGI-I) scores. Study MDD-2 was not readily interpretable regarding a dose response relationship for effectiveness.

A third study (Study MDD-3) involved adult outpatients meeting the DSM-III criteria for MDD who had
responded by the end of an initial 8-week open treatment phase on ZOLOFT 50–200 mg/day. These patients (n=295) were randomized to continuation on double-blind ZOLOFT 50–200 mg/day or placebo for 44 weeks. A statistically significantly lower relapse rate was observed for patients taking ZOLOFT compared to those on placebo: ZOLOFT [n=11 (8%)] and placebo [n=31 (39%)]. The mean ZOLOFT dose for completers was 70 mg/day.

Analyses for gender effects on outcome did not suggest any differential responsiveness on the basis of sex.

14.2 Obsessive-Compulsive Disorder

Adults with OCD

The effectiveness of ZOLOFT in the treatment of OCD was demonstrated in three multicenter placebo-controlled studies of adult (age 18–65) non-depressed outpatients (Studies OCD-1, OCD-2, and OCD-3). Patients in all three studies had moderate to severe OCD (DSM-III or DSM-III-R) with mean baseline ratings on the Yale-Brown Obsessive-Compulsive Scale (Y-BOCS) total score ranging from 23 to 25.

- Study OCD-1 was an 8-week randomized, placebo-controlled study with flexible dosing of ZOLOFT in a range of 50 to 200 mg/day, titrated in 50 mg increments every 4 days to a maximally tolerated dose; the mean dose for completers was 186 mg/day. Patients receiving ZOLOFT (N=43) experienced a mean reduction of approximately 4 points on the Y-BOCS total score which was statistically significantly greater than the mean reduction of 2 points in placebo-treated patients (N=44). The mean change in Y-BOCS from baseline to last visit (the primary efficacy endpoint) was -3.79 (ZOLOFT) and -1.48 (placebo).

- Study OCD-2 was a 12-week randomized, placebo-controlled fixed-dose study, including ZOLOFT doses of 50, 100, and 200 mg/day. ZOLOFT (N=240) was titrated to the assigned dose over two weeks in 50 mg increments every 4 days. Patients receiving ZOLOFT doses of 50 and 200 mg/day experienced mean reductions of approximately 6 points on the Y-BOCS total score, which were statistically significantly greater than the approximately 3 point reduction in placebo-treated patients (N=84). The mean change in Y-BOCS from baseline to last visit (the primary efficacy endpoint) was -5.7 (pooled results from ZOLOFT 50 mg, 100 mg, and 150 mg) and -2.85 (placebo).

- Study OCD-3 was a 12-week randomized, placebo controlled study with flexible dosing of ZOLOFT in a range of 50 to 200 mg/day; the mean dose for completers was 185 mg/day. ZOLOFT (N=241) was titrated to the assigned dose over two weeks in 50 mg increments every 4 days. Patients receiving ZOLOFT experienced a mean reduction of approximately 7 points on the Y-BOCS total score which was statistically significantly greater than the mean reduction of approximately 4 points in placebo-treated patients (N=84). The mean change in Y-BOCS from baseline to last visit (the primary efficacy endpoint) was -6.5 (ZOLOFT) and -3.6 (placebo).

Analyses for age and gender effects on outcome did not suggest any differential responsiveness on the basis of age or sex.

The effectiveness of ZOLOFT was studied in the risk reduction of OCD relapse. In Study OCD-4, patients ranging in age from 18–79 meeting DSM-III-R criteria for OCD who had responded during a 52-week single-blind trial on ZOLOFT 50–200 mg/day (n=224) were randomized to continuation of ZOLOFT or to substitution of placebo for up to 28 weeks of observation for analysis of discontinuation due to relapse or insufficient clinical response. Response during the single-blind phase was defined as a decrease in the Y-BOCS score of ≥ 25% compared to baseline and a CGI-I of 1 (very much improved), 2 (much improved) or 3 (minimally improved). Insufficient clinical response during the double-blind phase indicated a worsening of the patient's condition that resulted in study discontinuation, as assessed by the investigator. Relapse during the double-blind phase was defined as the following conditions being met (on three consecutive visits for 1 and 2, and condition 3 being met at visit 3):

- Condition 1: Y-BOCS score increased by ≥ 5 points, to a minimum of 20, relative to baseline;
- Condition 2: CGI-I increased by ≥ one point; and
- Condition 3: Worsening of the patient's condition in the investigator's judgment, to justify alternative
Patients receiving continued ZOLOFT treatment experienced a statistically significantly lower rate of discontinuation due to relapse or insufficient clinical response over the subsequent 28 weeks compared to those receiving placebo. This pattern was demonstrated in male and female subjects.

Pediatric Patients with OCD

The effectiveness of ZOLOFT for the treatment of OCD was demonstrated in a 12-week, multicenter, placebo-controlled, parallel group study in a pediatric outpatient population (ages 6–17) (Study OCD-5). ZOLOFT (N=92) was initiated at doses of either 25 mg/day (pediatric patients ages 6–12) or 50 mg/day (adolescents, ages 13–17), and then titrated at 3 and 4 day intervals (25 mg incremental dose for pediatric patients ages 6–12) or 1 week intervals (50 mg incremental dose adolescents ages 13–17) over the next four weeks to a maximum dose of 200 mg/day, as tolerated. The mean dose for completers was 178 mg/day. Dosing was once a day in the morning or evening. Patients in this study had moderate to severe OCD (DSM-III-R) with mean baseline ratings on the Children's Yale-Brown Obsessive-Compulsive Scale (CY-BOCS) total score of 22. Patients receiving ZOLOFT experienced a mean reduction of approximately 7 units on the CY-BOCS total score which was statistically significantly greater than the 3 unit reduction for placebo patients (n=95). Analyses for age and gender effects on outcome did not suggest any differential responsiveness on the basis of age or sex.

14.3 Panic Disorder

The effectiveness of ZOLOFT in the treatment of PD was demonstrated in three double-blind, placebo-controlled studies (Studies PD-1, PD-2, and PD-3) of adult outpatients who had a primary diagnosis of PD (DSM-III-R), with or without agoraphobia.

- Studies PD-1 and PD-2 were 10-week flexible dose studies of ZOLOFT (N=80 study PD-1 and N=88 study PD-2) compared to placebo (N=176 study PD-1 and PD-2). In both studies, ZOLOFT was initiated at 25 mg/day for the first week, then titrated in weekly increments of 50 mg per day to a maximum dose of 200 mg/day on the basis of clinical response and toleration. The mean ZOLOFT doses for completers to 10 weeks were 131 mg/day and 144 mg/day, respectively, for Studies PD-1 and PD-2. In these studies, ZOLOFT was shown to be statistically significantly more effective than placebo on change from baseline in panic attack frequency and on the Clinical Global Impression Severity (CGI-S) of Illness and Global Improvement (CGI-I) scores. The difference between ZOLOFT and placebo in reduction from baseline in the number of full panic attacks was approximately 2 panic attacks per week in both studies.

- Study PD-3 was a 12-week randomized, double-blind fixed-dose study, including ZOLOFT doses of 50, 100, and 200 mg/day. Patients receiving ZOLOFT (50 mg N=43, 100 mg N=44, 200 mg N=45) experienced a statistically significantly greater reduction in panic attack frequency than patients receiving placebo (N=45). Study PD-3 was not readily interpretable regarding a dose response relationship for effectiveness.

Subgroup analyses did not indicate that there were any differences in treatment outcomes as a function of age, race, or gender.

In Study PD-4, patients meeting DSM-III-R criteria for PD who had responded during a 52-week open trial on ZOLOFT 50–200 mg/day (n=183) were randomized to continuation of ZOLOFT or to substitution of placebo for up to 28 weeks of observation for discontinuation due to relapse or insufficient clinical response. Response during the open phase was defined as a CGI-I score of 1 (very much improved) or 2 (much improved). Insufficient clinical response in the double-blind phase indicated a worsening of the patient's condition that resulted in study discontinuation, as assessed by the investigator. Relapse during the double-blind phase was defined as the following conditions being met on three consecutive visits:

1. $\text{CGI-I} \geq 3$;
Patients receiving continued ZOLOFT treatment experienced a statistically significantly lower rate of discontinuation due to relapse or insufficient clinical response over the subsequent 28 weeks compared to those receiving placebo. This pattern was demonstrated in male and female subjects.

14.4 Posttraumatic Stress Disorder

The effectiveness of ZOLOFT in the treatment of PTSD was established in two multicenter placebo-controlled studies (Studies PSTD-1 and PSTD-2) of adult outpatients who met DSM-III-R criteria for PTSD. The mean duration of PTSD for these patients was 12 years (Studies PSTD-1 and PSTD-2 combined) and 44% of patients (169 of the 385 patients treated) had secondary depressive disorder.

Studies PSTD-1 and PSTD-2 were 12-week flexible dose studies. ZOLOFT was initiated at 25 mg/day for the first week, and titrated in weekly increments of 50 mg per day to a maximum dose of 200 mg/day on the basis of clinical response and tolerability. The mean ZOLOFT dose for completers was 146 mg/day and 151 mg/day, respectively, for Studies PSTD-1 and PSTD-2. Study outcome was assessed by the Clinician-Administered PTSD Scale Part 2 (CAPS), which is a multi-item instrument that measures the three PTSD diagnostic symptom clusters of reexperiencing/intrusion, avoidance/numbing, and hyperarousal as well as the patient-rated Impact of Event Scale (IES), which measures intrusion and avoidance symptoms. Patients receiving ZOLOFT (N=99 and N=94, respectively) showed statistically significant improvement compared to placebo (N=83 and N=92) on change from baseline to endpoint on the CAPS, IES, and on the Clinical Global Impressions (CGI-S) Severity of Illness and Global Improvement (CGI-I) scores.

In two additional placebo-controlled PTSD trials (Studies PSTD-3 and PSTD-4), the difference in response to treatment between patients receiving ZOLOFT and patients receiving placebo was not statistically significant. One of these additional studies was conducted in patients similar to those recruited for Studies PSTD-1 and PSTD-2, while the second additional study was conducted in predominantly male veterans.

As PTSD is a more common disorder in women than men, the majority (76%) of patients in Studies PSTD-1 and PSTD-2 described above were women. Post hoc exploratory analyses revealed a statistically significant difference between ZOLOFT and placebo on the CAPS, IES and CGI in women, regardless of baseline diagnosis of comorbid major depressive disorder, but essentially no effect in the relatively smaller number of men in these studies. The clinical significance of this apparent gender effect is unknown at this time. There was insufficient information to determine the effect of race or age on outcome.

In Study PSTD-5, patients meeting DSM-III-R criteria for PTSD who had responded during a 24-week open trial on ZOLOFT 50–200 mg/day (n=96) were randomized to continuation of ZOLOFT or to substitution of placebo for up to 28 weeks of observation for relapse. Response during the open phase was defined as a CGI-I of 1 (very much improved) or 2 (much improved), and a decrease in the CAPS-2 score of > 30% compared to baseline. Relapse during the double-blind phase was defined as the following conditions being met on two consecutive visits:

1. CGI-I ≥ 3;
2. CAPS-2 score increased by ≥ 30% and by ≥ 15 points relative to baseline; and
3. worsening of the patient's condition in the investigator's judgment.

Patients receiving continued ZOLOFT treatment experienced statistically significantly lower relapse rates over the subsequent 28 weeks compared to those receiving placebo. This pattern was demonstrated in male and female subjects.
14.5 Social Anxiety Disorder

The effectiveness of ZOLOFT in the treatment of SAD (also known as social phobia) was established in two multicenter, randomized, placebo-controlled studies (Study SAD-1 and SAD-2) of adult outpatients who met DSM-IV criteria for SAD.

Study SAD-1 was a 12-week, flexible dose study comparing ZOLOFT (50–200 mg/day), n=211, to placebo, n=204, in which ZOLOFT was initiated at 25 mg/day for the first week, then titrated to the maximum tolerated dose in 50 mg increments biweekly. Study outcomes were assessed by the:

1. Liebowitz Social Anxiety Scale (LSAS), a 24-item clinician administered instrument that measures fear, anxiety, and avoidance of social and performance situations, and
2. Proportion of responders as defined by the Clinical Global Impression of Improvement (CGI-I) criterion of CGI-I ≤ 2 (very much or much improved).

ZOLOFT was statistically significantly more effective than placebo as measured by the LSAS and the percentage of responders.

Study SAD-2 was a 20-week, flexible dose study that compared ZOLOFT (50–200 mg/day), n=135, to placebo, n=69. ZOLOFT was titrated to the maximum tolerated dose in 50 mg increments every 3 weeks. Study outcome was assessed by the:

1. Duke Brief Social Phobia Scale (BSPS), a multi-item clinician-rated instrument that measures fear, avoidance and physiologic response to social or performance situations,
2. Marks Fear Questionnaire Social Phobia Subscale (FQ-SPS), a 5-item patient-rated instrument that measures change in the severity of phobic avoidance and distress, and
3. CGI-I responder criterion of ≤ 2.

ZOLOFT was shown to be statistically significantly more effective than placebo as measured by the BSPS total score and fear, avoidance and physiologic factor scores, as well as the FQ-SPS total score, and to have statistically significantly more responders than placebo as defined by the CGI-I. Subgroup analyses did not suggest differences in treatment outcome on the basis of gender. There was insufficient information to determine the effect of race or age on outcome.

In Study SAD-3, patients meeting DSM-IV criteria for SAD who had responded while assigned to ZOLOFT (CGI-I of 1 or 2) during a 20-week placebo-controlled trial on ZOLOFT 50–200 mg/day were randomized to continuation of ZOLOFT or to substitution of placebo for up to 24 weeks of observation for relapse. Relapse was defined as ≥ 2 point increase in the Clinical Global Impression Severity of Illness (CGI-S) score compared to baseline or study discontinuation due to lack of efficacy. Patients receiving ZOLOFT continuation treatment experienced a statistically significantly lower relapse rate during this 24-week period than patients randomized to placebo substitution.

14.6 Premenstrual Dysphoric Disorder

The effectiveness of ZOLOFT for the treatment of PMDD was established in two double-blind, parallel group, placebo-controlled flexible dose trials (Studies PMDD-1 and PMDD-2) conducted over 3 menstrual cycles in adult female patients. The effectiveness of ZOLOFT for PMDD for more than 3 menstrual cycles has not been systematically evaluated in controlled trials.

Patients in Study PMDD-1 met DSM-III-R criteria for Late Luteal Phase Dysphoric Disorder (LLPDD), the clinical entity referred to as PMDD in DSM-IV. Patients in Study PMDD-2 met DSM-IV criteria for PMDD. Study PMDD-1 utilized continuous daily dosing throughout the study, while Study PMDD-2 utilized luteal phase dosing (intermittent dosing) for the 2 weeks prior to the onset of menses. The mean duration of PMDD symptoms was approximately 10.5 years in both studies. Patients taking oral contraceptives were excluded from these trials; therefore, the efficacy of ZOLOFT in combination with oral contraceptives for the treatment of PMDD is unknown.
Efficacy was assessed with the Daily Record of Severity of Problems (DRSP), a patient-rated instrument that mirrors the diagnostic criteria for PMDD as identified in the DSM-IV, and includes assessments for mood, physical symptoms, and other symptoms. Other efficacy assessments included the Hamilton Rating Scale for Depression (HAMD-17), and the Clinical Global Impression Severity of Illness (CGI-S) and Improvement (CGI-I) scores.

- In Study PMDD-1, involving 251 randomized patients, (n=125 on ZOLOFT and n=126 on placebo), ZOLOFT treatment was initiated at 50 mg/day and administered daily throughout the menstrual cycle. In subsequent cycles, ZOLOFT was titrated in 50 mg increments at the beginning of each menstrual cycle up to a maximum of 150 mg/day on the basis of clinical response and tolerability. The mean dose for completers was 102 mg/day. ZOLOFT administered daily throughout the menstrual cycle was statistically significantly more effective than placebo on change from baseline to endpoint on the DRSP total score, the HAMD-17 total score, and the CGI-S score, as well as the CGI-I score at endpoint.

- In Study PMDD-2, involving 281 randomized patients, (n=142 on ZOLOFT and n=139 on placebo), ZOLOFT treatment was initiated at 50 mg/day in the late luteal phase (last 2 weeks) of each menstrual cycle and then discontinued at the onset of menses (intermittent dosing). In subsequent cycles, patients were dosed in the range of 50–100 mg/day in the luteal phase of each cycle, on the basis of clinical response and tolerability. Patients who received 100 mg/day started with 50 mg/day for the first 3 days of the cycle, then 100 mg/day for the remainder of the cycle. The mean ZOLOFT dose for completers was 74 mg/day. ZOLOFT administered in the late luteal phase of the menstrual cycle was statistically significantly more effective than placebo on change from baseline to endpoint on the DRSP total score and the CGI-S score, as well as the CGI-I score at endpoint (Week 12).

There was insufficient information to determine the effect of race or age on outcome in these studies.

16 HOW SUPPLIED/STORAGE AND HANDLING

ZOLOFT 25 mg tablets: light green, film-coated, capsular-shaped tablets engraved on one side with "ZOLOFT" and on the other side scored and engraved with "25 mg"

NDC 0049-4960-30  Bottles of 30
NDC 0049-4960-50  Bottles of 50

ZOLOFT 50 mg tablets: light blue, film-coated, capsular-shaped tablets engraved on one side with "ZOLOFT" and on the other side scored and engraved with "50 mg"

NDC 0049-4900-30  Bottles of 30
NDC 0049-4900-66  Bottles of 100
NDC 0049-4900-73  Bottles of 500
NDC 0049-4900-94  Bottles of 5000
NDC 0049-4900-41  Unit Dose Packages of 100

ZOLOFT 100 mg tablets: light yellow, film-coated, capsular-shaped, tablets engraved on one side with "ZOLOFT" and on the other side scored and engraved with "100 mg"

NDC 0049-4910-30  Bottles of 30
NDC 0049-4910-66  Bottles of 100
NDC 0049-4910-73  Bottles of 500
NDC 0049-4910-94  Bottles of 5000
NDC 0049-4910-41  Unit Dose Packages of 100
ZOLOFT oral solution: clear, colorless solution with a menthol scent containing sertraline hydrochloride equivalent to 20 mg of sertraline per mL and 12% alcohol

NDC 0049-0050-01 Bottles containing 60 mL, each with an accompanying calibrated dropper that has 25 mg and 50 mg graduation marks.

Store ZOLOFT at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Suicidal Thoughts and Behaviors

Advise patients and caregivers to look for the emergence of suicidality, especially early during treatment and when the dosage is adjusted up or down, and instruct them to report such symptoms to the healthcare provider [See Boxed Warning and Warnings and Precautions (5.1)].

Important Administration Instructions for Oral Solution

For patients prescribed ZOLOFT oral solution, inform them that:

- ZOLOFT oral solution must be diluted before use. Do not mix in advance.
- Use the dropper provided to remove the required amount of ZOLOFT oral solution and mix with 4 ounces (1/2 cup) of water, ginger ale, lemon/lime soda, lemonade or orange juice ONLY. Do not mix ZOLOFT oral solution with anything other than the liquids listed.
- Take the dose immediately after mixing. At times, a slight haze may appear after mixing; this is normal.
- The dropper dispenser contains dry natural rubber, a consideration for patients with latex sensitivity.

Disulfiram Contraindication for ZOLOFT Oral Solution

Inform patients not to take disulfiram when taking ZOLOFT oral solution. Concomitant use is contraindicated due the alcohol content of the oral solution [See Contraindication (4)].

Serotonin Syndrome

Caution patients about the risk of serotonin syndrome, particularly with the concomitant use of ZOLOFT with other serotonergic drugs including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, amphetamines, 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). Patients should contact their health care provider or report to the emergency room if they experience signs or symptoms of serotonin syndrome [See Warnings and Precautions (5.2), Drug Interactions (7.1)].

Increased Risk of Bleeding

Inform patients about the concomitant use of ZOLOFT with aspirin, NSAIDs, other antiplatelet drugs, warfarin, or other anticoagulants because the combined use has been associated with an increased risk of bleeding. Advise patients to inform their health care providers if they are taking or planning to take any prescription or over-the-counter medications that increase the risk of bleeding [See Warnings and Precautions (5.3)].

Activation of Mania/Hypomania

Advise patients and their caregivers to observe for signs of activation of mania/hypomania and instruct them to report such symptoms to the healthcare provider [See Warnings and Precautions (5.4)].
Discontinuation Syndrome

Advise patients not to abruptly discontinue ZOLOFT and to discuss any tapering regimen with their healthcare provider. Adverse reactions can occur when ZOLOFT is discontinued [See Warnings and Precautions (5.5)].

Allergic Reactions

Advise patients to notify their healthcare provider if they develop an allergic reaction such as rash, hives, swelling, or difficulty breathing [See Adverse Reactions (6.2)].

Pregnancy

Inform pregnant women that ZOLOFT may cause withdrawal symptoms in the newborn or persistent pulmonary hypertension of the newborn (PPHN) [See Use in Specific Populations (8.1)].

This product's label may have been updated. For current full prescribing information, please visit www.pfizer.com.

Distributed by

Pfizer Roerig
Division of Pfizer Inc, NY, NY 10017

LAB-0218-41.0

Medication Guide
ZOLOFT (ZOH-loft)
(sertaline hydrochloride)
Tablets and Oral Solution

What is the most important information I should know about ZOLOFT?
ZOLOFT and other antidepressant medicines may cause serious side effects. Call your healthcare provider right away if you have any of the following symptoms, or call 911 if there is an emergency.

1. Suicidal thoughts or actions:
   - ZOLOFT and other antidepressant medicines may increase suicidal thoughts or actions in some people 24 years of age and younger, especially 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 ZOLOFT is started or when the dose is changed.
     - Keep all follow-up visits with your healthcare provider and call between visits if you are worried about symptoms.

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

   - attempts to commit suicide
   - acting aggressive or violent
   - acting on dangerous impulses
   - thoughts about suicide or dying
new or worse depression
feeling agitated, restless, angry or irritable
an increase in activity or talking more than what is normal for you

- new or worse anxiety or panic attacks
- trouble sleeping
- other unusual changes in behavior or mood

2. **Serotonin Syndrome.** This condition can be life-threatening and symptoms may include:

- agitation, hallucinations, coma, or other changes in mental status
- racing heartbeat, high or low blood pressure
- coordination problems or muscle twitching (overactive reflexes)

- nausea, vomiting, or diarrhea
- sweating or fever
- muscle rigidity

3. **Increased chance of bleeding:** ZOLOFT and other antidepressant medicines may increase your risk of bleeding or bruising, especially if you take the blood thinner warfarin (Coumadin®, Jantoven®), a non-steroidal anti-inflammatory drug (NSAIDs, like ibuprofen or naproxen), or aspirin.

4. **Manic episodes.** Symptoms may include:

- greatly increased energy
- racing thoughts
- unusually grand ideas

- severe trouble sleeping
- reckless behavior

- excessive happiness or irritability
- talking more or faster than usual

5. **Seizures or convulsions.**

6. **Glaucoma (angle-closure glaucoma).** Many antidepressant medicines including ZOLOFT may cause a certain type of eye problem called angle-closure glaucoma. Call your healthcare provider if you have eye pain, changes in your vision, or 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.

7. **Changes in appetite or weight.** Children and adolescents should have height and weight monitored during treatment.

8. **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

**Do not stop ZOLOFT without first talking to your healthcare provider.** Stopping ZOLOFT 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 ZOLOFT?
ZOLOFT is a prescription medicine used to treat:

- Major Depressive Disorder (MDD)
- Panic Disorder
- Social Anxiety Disorder
- Obsessive Compulsive Disorder (OCD)
- Posttraumatic Stress Disorder (PTSD)
- Premenstrual Dysphoric Disorder (PMDD)

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. ZOLOFT is safe and effective in treating children with OCD age 6 to 17 years. It is not known if ZOLOFT is safe and effective for use in children under 6 years of age with OCD or children with other behavior health conditions. Talk to your healthcare provider if you do not think that your condition is getting better with ZOLOFT treatment.

Who should not take ZOLOFT?
Do not take ZOLOFT if you:

- 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.
- have taken an MAOI within 2 weeks of stopping ZOLOFT unless directed to do so by your healthcare provider.
- have stopped taking an MAOI in the last 2 weeks unless directed to do so by your healthcare provider.
- take any other medicines that contain sertraline (such as sertraline HCl or sertraline hydrochloride).
- take the antipsychotic medicine pimozide (Orap®) because this can cause serious heart problems.
- are allergic to sertraline or any of the ingredients in ZOLOFT. See the end of this Medication Guide for a complete list of ingredients in ZOLOFT.
- take Antabuse® (disulfiram) (if you are taking the liquid form of ZOLOFT) due to the alcohol content.

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

- high fever
- rapid changes in heart rate or blood pressure
- uncontrolled muscle spasms
- confusion
- stiff muscles
- loss of consciousness (pass out)

What should I tell my healthcare provider before taking ZOLOFT?
Before starting ZOLOFT, tell your healthcare provider:

- if you have:
  - liver problems
  - heart problems
  - bipolar disorder or mania
  - kidney problems.
  - or have had seizures or convulsions
  - low sodium levels in your blood
  - a history of a stroke
  - high blood pressure
  - or have had bleeding problems

- are pregnant or plan to become pregnant. Your baby may have withdrawal symptoms after birth or may be at increased risk for a serious lung problem at birth. Talk to your healthcare provider...
about the benefits and risks of taking ZOLOFT during pregnancy.

- **are breastfeeding or plan to breastfeed.** A small amount of ZOLOFT may pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby while taking ZOLOFT.

Tell your healthcare provider about all the medicines that you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. ZOLOFT 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 ZOLOFT with your other medicines. **Do not** start or stop any medicine while taking ZOLOFT without talking to your healthcare provider first.

**How should I take ZOLOFT?**

- Take ZOLOFT exactly as prescribed. Your healthcare provider may need to change the dose of ZOLOFT until it is the right dose for you.
- ZOLOFT Tablets may be taken with or without food.
- ZOLOFT Oral Solution may look cloudy or hazy after mixing, this is normal.
- ZOLOFT Oral Solution must be diluted before use:
  - Do not mix ZOLOFT until you are ready to take it.
  - When diluting ZOLOFT Oral Solution, use **only** water, ginger ale, lemon/lime soda, lemonade, or orange juice.
  - The oral dropper contains latex. If you are sensitive or allergic to latex, ask your healthcare provider or pharmacist about the best way to measure your medicine.
- If you miss a dose of ZOLOFT, 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 ZOLOFT at the same time.

If you take too much ZOLOFT, call your healthcare provider or poison control center right away, or go to the nearest hospital emergency room right away.

**What should I avoid while taking ZOLOFT?**

ZOLOFT 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 ZOLOFT affects you. **Do not** drink alcohol while you take ZOLOFT.

**What are the possible side effects of ZOLOFT?**

ZOLOFT may cause serious side effects, including:

- See "**What is the most important information I should know about ZOLOFT?**"

**The most common side effects in adults who take ZOLOFT include:**

- nausea, loss of appetite, diarrhea, or indigestion
- increased sweating
- tremor or shaking
- agitation
- change in sleep habits including increased sleepiness or insomnia
- sexual problems including decreased libido and ejaculation failure
- feeling tired or fatigued
- anxiety

**The most common side effects in children and adolescents who take ZOLOFT include** abnormal increase in muscle movement or agitation, nose bleeds, urinary incontinence, aggressive reaction, possible slowed growth rate, and weight change. Your child's height and weight should be monitored during treatment with ZOLOFT.

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 ZOLOFT. 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-
How should I store ZOLOFT?
- Store ZOLOFT at room temperature, 68°F to 77°F (20°C to 25°C).
- Keep ZOLOFT bottle closed tightly.

Keep ZOLOFT and all medicines out of the reach of children.

General information about the safe and effective use of ZOLOFT
Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use ZOLOFT for a condition for which it was not prescribed. Do not give ZOLOFT to other people, even if they have the same condition. It may harm them.

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

For more information about ZOLOFT call 1-800-438-1985 or go to www.pfizer.com

What are the ingredients in ZOLOFT?
Active ingredient: sertraline hydrochloride
Inactive ingredients:
- Tablets: dibasic calcium phosphate dihydrate, D&C Yellow #10 aluminum lake (in 25 mg tablet), FD&C Blue #1 aluminum lake (in 25 mg tablet), FD&C Red #40 aluminum lake (in 25 mg tablet), FD&C Blue #2 aluminum lake (in 50 mg tablet), hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium starch glycolate, synthetic yellow iron oxide (in 100 mg tablet), and titanium dioxide.
- Oral solution: glycerin, alcohol (12%), menthol, butylated hydroxytoluene (BHT)

This Medication Guide has been approved by the U.S. Food and Drug Administration.
PRINCIPAL DISPLAY PANEL - 50 mg Tablet Bottle Label

ALWAYS DISPENSE WITH MEDICATION GUIDE

NDC 0049-4900-30

**Pfizer**

**Zoloft®**
(sertraline hydrochloride)

**tablets**

50 mg*

30 Tablets

Rx only
PRINCIPAL DISPLAY PANEL - 50 mg Tablet Blister Pack

Zoloft®
(sertraline HCl) Tablet

50 mg

DISTRIBUTED BY ROERIG
DIV OF PFIZER INC, NY, NY 10017

PAA044551

EXP &
LOT AREA
UNIT DOSE

ALWAYS DISPENSE WITH MEDICATION GUIDE

NDC 0049-4900-41

Pfizer

Zoloft ®
(sertraline hydrochloride)
tablets

50 mg *
For in-institution use only

100 Tablets
Rx only
Zoloft®
(sertraline hydrochloride) tablets

50 mg *

For in-institution use only
100 Tablets

UNIT DOSE
ALWAYS DISPENSE WITH MEDICATION GUIDE

Zoloft®
(sertraline hydrochloride) tablets

50 mg *

For in-institution use only
100 Tablets

Rx only
Zoloft® (sertraline hydrochloride) tablets

50 mg *

For in-institution use only

100 Tablets

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].

DOSAGE AND USE
See accompanying prescribing information.

*Each tablet contains 56.0 mg sertraline hydrochloride equivalent to 50 mg sertraline.

See back panel for lot number and expiration data.

Distributed by Roerig Division of Pfizer Inc, NY, NY 10017

PRINCIPAL DISPLAY PANEL - 100 mg Tablet Bottle Label
ALWAYS DISPENSE WITH MEDICATION GUIDE
NDC 0049-4910-30

*Pfizer*

Zoloft®
(sertraline hydrochloride)
tablets

100 mg*

30 Tablets
Rx only

PRINCIPAL DISPLAY PANEL - 100 mg Tablet Blister Pack

Zoloft®
(sertraline HCl) Tablet

100 mg

DISTRIBUTED BY ROERIG
DIV OF PFIZER INC, NY, NY 10017

PAA044548

EXP &
LOT AREA
UNIT DOSE

 ALWAYS DISPENSE WITH MEDICATION GUIDE

NDC 0049-4910-41

 Pfizer

 Zoloft ®
 (sertraline hydrochloride)
 tablets

 100 mg *

For in-institution use only

100 Tablets

Rx only
Zoloft®
(sertraline hydrochloride) tablets

100 mg *

For in-institution use only
100 Tablets

UNIT DOSE
ALWAYS DISPENSE WITH MEDICATION GUIDE

Zoloft®
(sertraline hydrochloride) tablets

100 mg *

For in-institution use only
100 Tablets
Rx only
Pfizer

Zoloft®
(sertraline hydrochloride)
oral solution
equivalent to
20 mg/mL*
of sertraline

Must Be Diluted
Before Use
(see side panel for instructions)

60 mL
Rx only

PRINCIPAL DISPLAY PANEL - 60 mL Bottle Carton

ALWAYS DISPENSE WITH MEDICATION GUIDE
Zoloft®
(sertraline hydrochloride)
oral solution
equivalent to
20 mg/mL*
of sertraline

Must Be Diluted Before Use
(see side panel for instructions)
CALIBRATED DROPPER ENCLOSED

60 mL  Rx only

Pfizer

NDC 0049-0050-01

New Label, Same Product.

ALWAYS DISPENSE WITH MEDICATION GUIDE
Zoloft® (sertraline hydrochloride)

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].

STORE UPRIGHT.
### Oral Solution

Equivalent to **20 mg/mL**

**Must Be Diluted Before Use**

(see side panel for instructions)

**CALIBRATED DROPPER ENCLOSED**

60 mL

---

**ZOLOFT**

Sertraline hydrochloride tablet, film coated

---

**Product Information**

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<th>HUMAN PRESCRIPTION DRUG</th>
<th>Item Code (Source)</th>
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**Active Ingredient/Active Moiety**

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<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
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<tr>
<td>SERTRALINE HYDROCHLORIDE (UNII: UT1B907Y6X) (SERTRALINE - UNII: QC7NX6WMB)</td>
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**Inactive Ingredients**
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<td>Magnesium Stearate (UNII: 70097M6I30)</td>
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<td>MICROCRYSTALLINE CELLULOSE (UNII: OPIR32D61U)</td>
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<td>POLYSORBATE 80 (UNII: 6OZP39ZG8H)</td>
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### Product Characteristics

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### Packaging

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### Marketing Information

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### ZOLOFT

sertraline hydrochloride tablet, film coated

### Product Information

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<th>Product Information</th>
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### Active Ingredient/Active Moiety

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### Inactive Ingredients
### Ingredient Name

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<tr>
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### Product Characteristics

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### ZOLOFT

sertraline hydrochloride tablet, film coated

### Product Information

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| Route of Administration |  |
|-------------------------|  |
| ORAL                    |  |

### Active Ingredient/Active Moiety

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<tr>
<td>SERTRALINE HYDROCHLORIDE (UNII: UT8907Y6 X) (SERTRALINE - UNIEQUC7NX6WMB)</td>
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<tbody>
<tr>
<td>DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)</td>
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<td>HYDROXYPROPYL CELLULOSE (16000 WAMW) (UNII: RFW2ET671P)</td>
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<td>HYPRO MELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)</td>
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<td>MAGNESIUM STEARATE (UNII: 70097M630)</td>
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### Product Characteristics

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<th>Shape</th>
<th>Size</th>
<th>Imprint Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>YELLOW (light yellow)</td>
<td>2 pieces</td>
<td>OVAL (CAPSULE-SHAPED)</td>
<td>13mm</td>
<td>ZOLOFT;100;mg</td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0049-4910-30</td>
<td>30 in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>02/11/1992</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>NDC:0049-4910-66</td>
<td>100 in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>02/11/1992</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>NDC:0049-4910-73</td>
<td>500 in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>02/11/1992</td>
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<tr>
<td>4</td>
<td>NDC:0049-4910-94</td>
<td>5000 in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>02/11/1992</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>NDC:0049-4910-41</td>
<td>100 in 1 CARTON</td>
<td>02/11/1992</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDA</td>
<td>NDA019839</td>
<td>02/11/1992</td>
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</tr>
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</table>

### ZOLOFT

sertraline hydrochloride solution, concentrate

### Product Information

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Item Code (Source)</th>
<th>NDC:0049-0050</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMAN PRESCRIPTION DRUG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORAL</td>
<td></td>
<td></td>
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</tbody>
</table>

### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
</table>
### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCERIN (UNII: PDC6A3C0OX)</td>
<td></td>
</tr>
<tr>
<td>ALCOHOL (UNII: 3K9958V90M)</td>
<td></td>
</tr>
<tr>
<td>MENTHOL, UNSPECIFIED FORM (UNII: L7T10EIP3A)</td>
<td></td>
</tr>
<tr>
<td>BUTYLATED HYDROXYTOLENE (UNII: 1P9D0Z171K)</td>
<td></td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
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<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0049-0050-01</td>
<td>1 in 1 CARTON</td>
<td>01/06/2017</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>60 mL in 1 BOTTLE, DROPPER; Type 1: Convenience Kit of Co-Package</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

<table>
<thead>
<tr>
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<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDA</td>
<td>NDA020990</td>
<td>01/06/2017</td>
<td></td>
</tr>
</tbody>
</table>

### Labeler - Roerig (829076996)

### Establishment

#### Pfizer Pharmaceuticals LLC
- **Address**: 829084545
- **ID/FEI**: 829084545
- **Business Operations**: ANALYSIS(0049-0050, 0049-4900, 0049-4910, 0049-4960), API MANUFACTURE(0049-0050, 0049-4900, 0049-4910, 0049-4960), MANUFACTURE(0049-4900, 0049-4910, 0049-4960), PACK(0049-4900, 0049-4910, 0049-4960)

#### Pharmacia and Upjohn Company LLC
- **Address**: 618054084
- **ID/FEI**: 618054084
- **Business Operations**: ANALYSIS(0049-0050)

#### Pfizer Pharmaceuticals LLC
- **Address**: 829084552
- **ID/FEI**: 829084552
- **Business Operations**: PACK(0049-4900, 0049-4910, 0049-4960)

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Revised: 5/2019