

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ESCITALOPRAM TABLETS safely and effectively. See full prescribing information for ESCITALOPRAM TABLETS.

ESCITALOPRAM tablets, for oral use
Initial U.S. Approval: 2002**WARNING: SUICIDAL THOUGHTS AND BEHAVIORS**

See full prescribing information for complete boxed warning.

Increased risk of suicidal thoughts and behavior in pediatric and young adult patients taking antidepressants. Closely monitor all antidepressant-treated patients for clinical worsening and emergence of suicidal thoughts and behaviors (5.1). Escitalopram tablets are not approved for use in pediatric patients less than 12 years of age (8.4).

—RECENT MAJOR CHANGES—

Boxed Warning	8/2020
Dosage and Administration (2.1, 2.3)	8/2020
Warnings and Precautions (5.1, 5.5)	8/2020

—INDICATIONS AND USAGE—

- Escitalopram tablets are selective serotonin reuptake inhibitor (SSRI) indicated for:
- Acute and Maintenance Treatment of Major Depressive Disorder (MDD) in adults and adolescents aged 12-17 years (1.1)
 - Acute Treatment of Generalized Anxiety Disorder (GAD) in adults (1.2)

—DOSAGE AND ADMINISTRATION—

Escitalopram tablets should generally be administered once daily, morning or evening with or without food (2.1, 2.2).

Indication	Recommended Dose
MDD in Adolescents (2.1)	Initial: 10 mg once daily Recommended: 10 mg once daily Maximum: 20 mg once daily
MDD in Adults (2.1)	Initial: 10 mg once daily Recommended: 10 mg once daily Maximum: 20 mg once daily
GAD in Adults (2.2)	Initial: 10 mg once daily Recommended: 10 mg once daily

- No additional benefits seen at 20 mg/day dose (2.1).
- 10 mg/day is the recommended dose for most elderly patients and patients with hepatic impairment (2.3).
- No dosage adjustment for patients with mild or moderate renal impairment. Use caution in patients with severe renal impairment (2.3).
- Discontinuation of Escitalopram Tablets: A gradual dose reduction is recommended (2.4).

—DOSAGE FORMS AND STRENGTHS—

- Tablets: 5 mg, 10 mg (scored) and 20 mg (scored) (2.1)

—CONTRAINDICATIONS—

- Serotonin Syndrome and MAOIs: Do not use MAOIs intended to treat psychiatric disorders with escitalopram or

within 14 days of stopping treatment with escitalopram. Do not start escitalopram within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start escitalopram in a patient who is being treated with linezolid or intravenous methylene blue (4.1).

- Pimozide: Do not use concomitantly (4.2).
- Known hypersensitivity to escitalopram or citalopram or any of the inactive ingredients (4.3).

—WARNINGS AND PRECAUTIONS—

- Serotonin Syndrome: Serotonin syndrome has been reported with SSRIs and SNRIs, including escitalopram, both when taken alone, but especially when co-administered with other serotonergic agents (including triptans, tricyclic antidepressants, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort). If such symptoms occur, discontinue escitalopram and initiate supportive treatment. If concomitant use of escitalopram with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome (serotonergic response (5.4)).
- Discontinuation of Treatment with Escitalopram: A gradual reduction in dose rather than abrupt cessation is recommended whenever possible (5.3).
- Seizures: Pimozide with care in patients with a history of seizure (5.4).
- Activation of Mania/Hypomania: Screen patients for bipolar disorder. (5.5).
- Hypomania: Can occur in association with SSRI (5.6).
- Abnormal Bleeding: Use caution in patients with NSAIDs, aspirin, warfarin or other drugs that affect coagulation (5.7).
- Interference with Cognitive and Motor Performance: Use caution when operating machinery (5.8).
- Angle Closure Glaucoma: Angle closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.9)
- Use in Patients with Concomitant Illness: Use caution in patients with diseases or conditions that produce altered metabolism or hemodynamic responses (5.10).

—ADVERSE REACTIONS—

Most commonly observed adverse reactions (incidence ≥ 2% and at least twice the incidence of placebo patients) are: insomnia, ejaculation disorder (primarily ejaculatory delay), nausea, sweating increased, fatigue and somnolence, decreased libido, and anorgasmia (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact JUBILANT Cadista Pharmaceuticals Inc. at 1-800-313-4623, or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

—DRUG INTERACTIONS—

Concomitant use with SSRIs, SNRIs or Tryptophan is not recommended (7.2). Use caution when concomitant use with drugs that affect Hemostasis (NSAIDs, Aspirin, Warfarin) (7.6).

—USE IN SPECIFIC POPULATIONS—

Pregnancy: SSRI use, particularly later in pregnancy, may increase the risk for persistent pulmonary hypertension and symptoms of poor adaptation (respiratory distress, temperature instability, feeding difficulties, hypotonia, tremor, irritability) in the neonate. (8.1).

See full PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2020

7.7	Cimetidine
7.8	Dipiron
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7.10	Pimozide and Ceftriaxone
7.11	Sumatriptan
7.12	Theophylline
7.13	Warfarin
7.14	Carbamazepine
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7.16	Ketconazole
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7.18	CYP3A4 and -C219 inhibitors
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7.20	Metoprolol
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2.6 Switching a Patient to or from a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders
At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with escitalopram tablets. Conversely, at least 14 days should be allowed after stopping escitalopram tablets before starting an MAOI intended to treat psychiatric disorders (See *Contraindications (4.1)*).

2.7 Use of Escitalopram Tablets with Other MAOIs such as Linezolid or Methylene Blue
Do not start escitalopram tablets in a patient who is being treated with linezolid or intravenous methylene blue because there is an increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered (See *Contraindications (4.1)*).

In some cases, a patient already receiving escitalopram tablets therapy may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, escitalopram tablets should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for 2 weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with escitalopram tablets may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue (See *Warnings and Precautions (5.2)*).

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

3. DOSAGE FORMS AND STRENGTHS

- Escitalopram tablets USP 5 mg are white, round, biconvex, film-coated tablets, debossed with "8" on one side and "C" on the other side.
- Escitalopram tablets USP 10 mg are white, oval shaped, biconvex, film-coated tablets, with scoring on one side, debossed with "10" on left side of scoreline and "C" on right side of scoreline and with "C" on the other side.
- Escitalopram tablets USP 20 mg are white, oval shaped, biconvex, film-coated tablets, with scoreline on one side, debossed with "20" on left side of scoreline and "C" on right side of scoreline and plain on the other side.

4. CONTRAINDICATIONS

4.1 Monoamine Oxidase Inhibitors (MAOIs)
The use of MAOIs intended to treat psychiatric disorders with escitalopram or within 14 days of stopping treatment with escitalopram is contraindicated because of an unacceptable risk of serotonin syndrome. The use of escitalopram within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated (See *Dosage and Administration (2.5)*, and *Warnings and Precautions (5.2)*).

4.2 Pimozide
Concomitant use in patients taking pimozide is contraindicated (See *Drug Interactions (7.10)*).

4.3 Hypersensitivity to escitalopram or citalopram
Escitalopram is contraindicated in patients with a hypersensitivity to escitalopram or citalopram or any of the inactive ingredients in escitalopram tablets.

5. WARNINGS AND PRECAUTIONS

5.1 Suicidal Thoughts and Behaviors in Adolescents and Young Adults
In pooled analyses of placebo-controlled trials of antidepressant drugs (SSRIs and other antidepressant classes) that included approximately 17,000 adult patients and 4,500 pediatric patients, the incidence of suicidal thoughts and behaviors in adolescents treated with antidepressants was increased. The risk of serotonin syndrome was also increased in patients with MDD. The drug-placebo differences in the number of cases of suicidal thoughts and behaviors per 1000 patients treated are provided in Table 1.

Table 1: Risk Differences of the Number of Patients of Suicidal Thoughts and Behaviors in the Pooled Placebo-Controlled Trials of Antidepressants in Pediatric and Adult Patients

Age Range	Drug-Placebo Difference in Number of Patients of Suicidal Thoughts and Behaviors per 1000 Patients Treated
<18 years old	Increases Compared to Placebo 14 additional patients
18 to 24 years old	5 additional patients
25 to 64 years old	Decreases Compared to Placebo 1 fewer patient
≥65 years old	6 fewer patients

It is unknown whether the risk of suicidal thoughts and behaviors in children, adolescents, and young adult patients extends to longer after the last dose of antidepressant therapy than 24 years and younger was greater than in placebo-treated patients. There was considerable variation in risk of suicidal thoughts and behaviors among drugs, but there was an increased risk identified in young patients for most drugs studied. There were differences in absolute risk of suicidal thoughts and behaviors across the different indications, with the highest incidence in patients with MDD. The drug-placebo differences in the number of cases of suicidal thoughts and behaviors per 1000 patients treated are provided in Table 1.

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Monitor all antidepressant-treated patients for any indication 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 escitalopram, in patients whose depression is persistently worse, or who are experiencing emergent suicidal thoughts or behaviors.

5.2 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs, including escitalopram, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, lenthyl, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort) and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue). Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination) seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome.

The concomitant use of escitalopram with MAOIs intended to treat psychiatric disorders is contraindicated. Escitalopram should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports involving escitalopram that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking escitalopram. Escitalopram should be discontinued before initiating treatment with the MAOI (See *Contraindications (4.1)* and *Dosage and Administration (2.5 and 2.6)*).

If concomitant use of escitalopram with other serotonergic drugs including, triptans, tricyclic antidepressants, lenthyl, lithium, tramadol, buspirone, tryptophan, amphetamine and St. John's Wort is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases.

Treatment with escitalopram and any concomitant serotonergic agents, should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.

5.3 Discontinuation of Treatment with Escitalopram

During marketing of escitalopram and other SSRIs and SNRIs (serotonin and norepinephrine reuptake inhibitors), there have been spontaneous reports of adverse events occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, and hypomania. While these events are generally self-limiting, there have been reports of serious discontinuation symptoms.

Patients should be monitored for these symptoms when discontinuing treatment with escitalopram. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate (See *Dosage and Administration (2.4)*).

5.4 Seizures

Although anticonvulsant effects of racemic citalopram have been observed in animal studies, escitalopram has not been systematically evaluated in patients with a seizure disorder. These patients were excluded from clinical studies during the product's premarketing testing. In clinical trials of escitalopram, cases of convulsion have been reported in association with escitalopram treatment. Like other drugs effective in the treatment of major depressive disorder, escitalopram should be introduced with care in patients with a history of seizure disorder.

5.5 Activation of Mania or Hypomania

In patients with bipolar disorder, treating a depressive episode with escitalopram or another antidepressant may precipitate a mixed/manic episode. In placebo-controlled trials of escitalopram in major depressive disorder, activation of mania/hypomania was reported in one (0.1%) of 715 patients treated with escitalopram and in none of the 592 patients treated with placebo. One additional case of hypomania has been reported in association with escitalopram treatment. Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorders treated with racemic citalopram and other marketed drugs effective in the treatment of major depressive disorder. Prior to initiating treatment with escitalopram, screen patients for any personal or family history of bipolar disorder, mania, or hypomania (See *Dosage and Administration (2.3)*).

5.6 Hypomania

Hypomania may occur as a result of treatment with SSRIs and SNRIs, including escitalopram. In many cases, this hypomania is reported in patients as a result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH), and was reversible when escitalopram was discontinued. Cases with serum sodium lower than 110 mmol/L have been reported. Elderly patients may be at greater risk of developing hypomania with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk (See *Geriatric Use (8.5)*). Discontinuation of escitalopram should be considered in patients with symptomatic hypomania and appropriate medical intervention should be instituted.

Signs and symptoms of hypomania include headache, difficulty concentrating, memory impairment, confusion, weakness, and unattractiveness, which may lead to falls. Signs and symptoms associated with more severe and/or acute cases include hallucination, synaptic, seizure, coma, respiratory arrest, and death.

5.7 Abnormal Bleeding

SSRIs and SNRIs, including escitalopram, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, warfarin, and other anticoagulants may add to the 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 SSRIs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages. Patients should be cautioned about the risk of bleeding associated with the concomitant use of escitalopram and NSAIDs, aspirin, or other drugs that affect coagulation.

5.8 Interference with Cognitive and Motor Performance

In a study in normal volunteers, escitalopram 10 mg/day did not produce impairment of intellectual function or psychomotor performance. Because any psychotropic drug may impair judgment, thinking, or motor skills, however, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that escitalopram therapy does not affect their ability to engage in such activities.

5.9 Angle Closure Glaucoma

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

5.10 Use in Patients with Concomitant Illness

Clinical experience with escitalopram in patients with certain concomitant systemic illnesses is limited. Caution is advisable in using escitalopram in patients with diseases or conditions that produce altered metabolism or hemodynamic responses. Escitalopram has not been systematically evaluated in patients with a recent history of myocardial infarction or unstable heart disease.

Patients with these diagnoses were generally excluded from clinical studies during the product's premarketing testing. In subjects with hepatic impairment, clearance of racemic citalopram was decreased and plasma concentrations were increased. The recommended dose of escitalopram in hepatically impaired patients is 10 mg/day (See *Dosage and Administration (2.3)*).

Because escitalopram is extensively metabolized, excretion of unchanged drug in urine is a minor route of elimination. Until adequate numbers of patients with severe renal impairment have been evaluated during chronic treatment with escitalopram, however, it should be used with caution in such patients (See *Dosage and Administration (2.3)*).

6. ADVERSE REACTIONS

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

Clinical Trial Data Sources
The safety and efficacy of 576 pediatric patients (288 escitalopram, 290 placebo) with major depressive disorder in double-blind placebo-controlled studies. Safety and effectiveness of escitalopram in pediatric patients less than 12 years of age has not been established.

Adults
Adverse events information for escitalopram was collected from 715 patients with major depressive disorder who were exposed to escitalopram and from 592 patients who were exposed to placebo in double-blind, placebo-controlled trials. An additional 284 patients with major depressive disorder were newly exposed to escitalopram in open-label trials. The adverse events information for escitalopram in patients with GAD was collected from 429 patients exposed to escitalopram and from 427 patients exposed to placebo in double-blind, placebo-controlled trials.

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tables and tabulations that follow, standard World Health Organization (WHO) terminology has been used to classify reported adverse events.

The stated frequencies of adverse reactions represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment-emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation.

Adverse Events Associated with Discontinuation of Treatment

Major Depressive Disorder
Pediatrics (6 - 17 years)
Adverse events were associated with discontinuation of 3.5% of 286 patients receiving escitalopram and 1% of 290 patients receiving placebo. The most common adverse event (incidence at least 1% for escitalopram and greater than placebo) associated with discontinuation was insomnia (1% escitalopram, 0% placebo).

Adults
Among the 715 depressed patients who received escitalopram in placebo-controlled trials, 6% discontinued treatment due to an adverse event, as compared to 2% of 592 patients receiving placebo. In two fixed-dose studies, the rate of discontinuation for adverse events in patients receiving 10 mg/day escitalopram was not significantly different from the rate of discontinuation for adverse events in patients receiving placebo. The rate of discontinuation for adverse events in patients assigned to a fixed dose of 20 mg/day escitalopram was 10%, which was significantly different from the rate of discontinuation for adverse events in patients receiving 10 mg/day escitalopram (4%) and placebo (2%). Adverse events that were associated with the discontinuation of at least 1% of patients treated with escitalopram, and for which the rate was at least twice that of placebo, were nausea (2%) and ejaculation disorder (2% of male patients).

Generalized Anxiety Disorder
Adults
Among the 429 GAD patients who received escitalopram 10-20 mg/day in placebo-controlled trials, 8% discontinued treatment due to an adverse event, as compared to 4% of 427 patients receiving placebo. Adverse events that were associated with the discontinuation of at least 1% of patients treated with escitalopram, and for which the rate was at least twice the placebo rate, were nausea (2%), insomnia (1%), and fatigue (1%).

Incidence of Adverse Reactions in Placebo-Controlled Clinical Trials

Major Depressive Disorder
Pediatrics (6 - 17 years)
The overall profile of adverse reactions in pediatric patients was generally similar to that seen in adult studies, as shown in Table 2. However, the following adverse reactions (excluding those which appear in Table 2 and those for which the coded terms were inappropriate or misleading) were reported at an incidence of at least 2% in escitalopram and greater than placebo: back pain, urinary tract infection, vomiting, and nasal congestion.

Adults
The most commonly observed adverse reactions in escitalopram patients (incidence of approximately 5% or greater and approximately twice the incidence in placebo patients) were insomnia, ejaculation disorder (primarily ejaculatory delay), nausea, sweating increased, fatigue, and somnolence.

Table 2 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse events that occurred among 715 depressed patients who received escitalopram at doses ranging from 10 to 20 mg/day in placebo-controlled trials. Events included are those occurring in 2% or more of patients treated with escitalopram and for which the incidence in patients treated with escitalopram was greater than the incidence in placebo-treated patients.

TABLE 2		
Treatment-Emergent Adverse Reactions observed with a frequency of ≥ 2% and greater than placebo for Major Depressive Disorder		
Adverse Reaction	Escitalopram (N=715) %	Placebo (N=592) %
Autonomic Nervous System Disorders		
Dry Mouth	6%	5%
Sweating Increased	5%	2%
Central & Peripheral Nervous System Disorders		
Dizziness	5%	3%
Gastrointestinal Disorders		
Nausea	15%	7%
Diarrhea	6%	5%
Constipation	3%	1%
Indigestion	3%	1%
Abdominal Pain	2%	1%
General		
Influenza-like Symptoms	5%	4%
Fatigue	5%	2%
Psychiatric Disorders		
Insomnia	9%	4%
Somnolence	6%	2%
Appetite Decreased	3%	1%
Libido Decreased	3%	1%
Respiratory System Disorders		
Rhinitis	5%	4%
Sinusitis	3%	2%
Urogenital		
Ejaculation Disorder ¹	9%	<1%
Impotence ²	3%	<1%
Anorgasmia ³	2%	<1%

¹Primarily ejaculatory delay.
²Denominator used was for males only (N=225 Escitalopram; N=188 placebo).
³Denominator used was for females only (N=490 Escitalopram; N=404 placebo).

TABLE 3		
Treatment-Emergent Adverse Reactions observed with a frequency of ≥ 2% and greater than placebo for Generalized Anxiety Disorder		
Adverse Reactions	Escitalopram (N=429) %	Placebo (N=427) %
Autonomic Nervous System Disorders		
Dry Mouth	9%	5%
Sweating Increased	4%	1%
Central & Peripheral Nervous System Disorders		
Headache	24%	17%
Fatigue	2%	1%
Gastrointestinal Disorders		
Nausea	18%	8%
Diarrhea	8%	6%
Constipation	5%	4%
Indigestion	3%	2%
Vomiting	3%	1%
Abdominal Pain	2%	1%
Fatulence	2%	1%
Toothache	2%	0%
General		
Fatigue	8%	2%
Influenza-like Symptoms	8%	4%
Musculoskeletal System Disorder		
Neck/Shoulder Pain	3%	1%
Psychiatric Disorders		
Somnolence	13%	6%
Insomnia	12%	6%
Libido Decreased	7%	2%
Dreaming/Abnormal	3%	2%
Appetite Decreased	3%	1%
anxiety	3%	1%
Respiratory System Disorders		
Yawning	2%	1%
Urogenital		
Ejaculation Disorder ¹	14%	2%
Anorgasmia ²	2%	<1%
Menstrual Disorder	2%	1%

¹Primarily ejaculatory delay.
^{2</}

- Medicines used to treat mood, anxiety, psychotic or thought disorders, including tricyclics, lithium, SSRIs, SNRIs, amphetamines, or antipsychotics
- Tramadol
- Over-the-counter supplements such as tryptophan or St. John's Wort
- have liver problems
- have kidney problems
- have heart problems
- have or had seizures or convulsions
- have bipolar disorder or mania
- have low sodium levels in your blood
- have a history of a stroke
- have high blood pressure
- have or had bleeding problems
- are pregnant or plan to become pregnant. Taking escitalopram tablets late in pregnancy may lead to an increased risk of certain problems in your newborn. Talk to your healthcare provider about the benefits and risks of treating depression during pregnancy
 - If you become pregnant while taking escitalopram tablets, talk to your healthcare provider about registering with the National Pregnancy Registry for Antidepressants. You can register by calling 1-844-405-6185 or go to https://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/antidepressants/.
- are breast-feeding or plan to breast-feed. Escitalopram may pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby if taking escitalopram tablets.

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

If you take escitalopram tablets, you should not take any other medicines that contain escitalopram or citalopram including: Celexa.

How should I take escitalopram tablets?

- Take escitalopram tablets exactly as prescribed. Your healthcare provider may need to change the dose of escitalopram tablets until it is the right dose for you.
- Escitalopram tablets may be taken with or without food.
- If you miss a dose of escitalopram tablets, 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 escitalopram tablets at the same time.
- If you take too much escitalopram tablets, call your healthcare provider or poison control center right away, or get emergency treatment.

What should I avoid while taking escitalopram tablets?

Escitalopram tablets 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 escitalopram tablets affects you. Do not drink alcohol while using escitalopram tablets.

What are the possible side effects of escitalopram tablets?

Escitalopram tablets may cause serious side effects, including all of those described in the section entitled “What is the most important information I should know about escitalopram tablets?”

Common possible side effects in people who take escitalopram tablets include:

- Nausea
- Sleepiness
- Weakness
- Dizziness
- Feeling anxious
- Trouble sleeping
- Sexual problems
- Shaking
- Swelling
- Not feeling hungry
- Dry mouth
- Constipation
- Infection
- Yawning

Other side effects in children and adolescents include:

- increased thirst
- abnormal increase in muscle movement or agitation
- nose bleed
- difficult urination
- heavy menstrual periods
- possible slowed growth rate and weight change. Your child’s height and weight should be monitored during treatment with escitalopram tablets.

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 escitalopram tablets. For more information, ask your healthcare provider or pharmacist.

CALL YOUR DOCTOR FOR MEDICAL ADVICE ABOUT SIDE EFFECTS. YOU MAY REPORT SIDE EFFECTS TO THE FDA AT 1-800-FDA-1088.

How should I store escitalopram 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].
- Escitalopram tablets comes in a child-resistant pack.
- Keep escitalopram tablets bottle closed tightly.

Keep escitalopram tablets and all medicines out of the reach of children.

General information about escitalopram tablets

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

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

For more information, call toll-free 1-800-313-4623.

What are the ingredients in escitalopram tablets?

Active ingredient: escitalopram oxalate USP

Inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, magnesium stearate, microcrystalline cellulose, and talc. The film coating contains polyethylene glycol, hypromellose, and titanium dioxide.

The following are registered trademarks of their respective manufacturers and are not trademarks of Jubilant Generics Limited:

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

Rx Only

Manufactured by:

Jubilant Generics Limited

Roorkee - 247661, India

Marketed by:

Jubilant Cadista Pharmaceuticals Inc.

Salisbury, MD 21801, USA

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EGG Changes

Electrocardiograms from escitalopram (N=625) and placebo (N=527) groups were compared with respect to outliers defined as subjects with QTc changes over 60 msec from baseline or absolute values over 500 msec post-dose, and subjects with start rate increases exceeding 100 msec or decreases to less than 50 msec with a 25% change from baseline (tachycardic or bradycardic outliers, respectively). None of the patients in the escitalopram group had a QTc interval >500 msec or a prolongation >60 msec compared to 0.2% of patients in the placebo group. The incidence of tachycardic outlier was 0.2% in the escitalopram and placebo group. The incidence of bradycardic outliers was 0.5% in the escitalopram group and 0.2% in the placebo group.

QTc interval was evaluated in a randomized, placebo and active (moxifloxacin 400 mg) controlled cross-over, escalating multiple-dose study in 113 healthy subjects. The maximum mean (95% upper confidence bound) difference from placebo was 4.5 (6.4) and 10.7 (12.7) msec for 10 mg and supratherapeutic 30 mg escitalopram given once daily, respectively. Based on the established exposure-response relationship, the predicted QTc change from placebo arm (95% confidence interval) under the *C_{max}* for the dose of 20 mg is 6.6 (7.9) msec. Escitalopram 30 mg given once daily resulted in mean *C_{max}* of 1.7-fold higher than the mean *C_{max}* for the maximum recommended therapeutic dose at steady state (20 mg). The exposure under supratherapeutic 30 mg dose is similar to the steady state concentrations expected in CYP2C19 poor metabolizers following a therapeutic dose of 20 mg.

Other Reactions Observed During the Premarketing Evaluation of Escitalopram

Following is a list of treatment-emergent adverse events, as defined in the introduction to the **ADVERSE REACTIONS** section, reported by the 1428 patients treated with escitalopram for periods of up to one year in double-blind or open-label clinical trials during its premarketing evaluation. The listing does not include those events already listed in Tables 2 & 3, those events for which a drug cause was remote and at a rate less than 1% or lower than placebo, those events which were so general as to be uninformative, and those events reported only once which do not have a substantial probability of being acutely life threatening. Events are categorized by body system. Events of major clinical importance are described in the Warnings and Precautions section (5).

Cardiovascular - hypertension, palpitation.

Central and Peripheral Nervous System Disorders - light-headed feeling, migraine.

Gastrointestinal Disorders - abdominal cramp, heartburn, gastroenteritis.

General - allergy, chest pain, fever, hot flashes, pain in limb.

Infectious and Infestational Disorders - decreased weight, electrocardiogram (ECG) abnormalities.

Musculoskeletal System Disorders - arthralgia, myalgia, low back stiffness.

Psychiatric Disorders - appetite increased, concentration impaired, irritability.

Reproductive Disorders/Female - menstrual cramps, menstrual disorder.

Respiratory System Disorders - bronchitis, coughing, nasal congestion, sinus congestion, sinus headache.

Skin and Appendage Disorders - rash, grand mal seizures (or convulsions), hypoaesthesia, myoclonus, rhytism.

Special Senses - vision blurred, tinnitus.

Urinary System Disorders - urinary frequency, urinary tract infection.

2.6 Post-Marketing Experience

Adverse Reactions Reported Subsequent to the Marketing of Escitalopram
The following adverse reactions have been identified during post-approval use of escitalopram. 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.

Blood and Lymphatic System Disorders: anemia, agranulocytosis, aplastic anemia, hemolytic anemia, idiopathic thrombocytopenia purpura, leukopenia, thrombocytopenia.

Cardiac Disorders: atrial fibrillation, bradycardia, cardiac failure, myocardial infarction, tachycardia, torsade de pointes, ventricular arrhythmia, ventricular tachycardia.

Ear and labyrinth disorders: vertigo

Endocrine Disorders: diabetes mellitus, hyperlipidemia, SIADH.

Eye Disorders: angle closure glaucoma, diplopia, mydriasis, visual disturbance.

Gastrointestinal Disorder: dysphagia, gastroesophageal reflux, gastroesophageal reflux, pancreatitis, rectal hemorrhage.

Genitourinary System System Conditions: abnormal gait, asthenia, edema, fall, feeling abnormal, malaise.

Hepatobiliary Disorders: fulminant hepatitis, hepatic failure, hepatic necrosis, hepatitis.

Immune System Disorders: allergic reaction, anaphylaxis.

Infectious and infestations: increased, decreased weight, electrocardiogram (ECG) prolongation, hepatic enzymes increased, hypercholesterolemia, increased, prothrombin decreased.

Metabolism and Nutrition Disorders: hypoglycemia, hypoglycemia, hypokalemia, hypomagnesia, hypomagnesia.

Musculoskeletal and Connective Tissue Disorders: muscle cramp, muscle stiffness, muscle weakness, rhabdomyolysis.

Nervous System Disorders: akathisia, amnesia, ataxia, choreoathetosis, cerebrovascular accident, dysarthria, dyskinesia, dizziness, headache, hyperkinesia, hyperreflexia, hyperreflexia, tremor, jitteriness, irritability, and constant crying.

Other Nervous System Disorders: acute renal failure, dysuria, urinary retention.

Reproductive System and Breast Disorders: menorrhagia, priapism.

Respiratory, Thoracic and Mediastinal Disorders: dyspnea, epistaxis, pulmonary embolism, pulmonary hypertension of the newborn.

Skin and Subcutaneous Tissue Disorders: alopecia, angioma, dermatitis, ecchymosis, erythema multiforme, photosensitivity reaction.

Stevens Johnson Syndrome: toxic epidermal necrolysis, urticaria.

Vascular Disorders: deep vein thrombosis, flushing, hypertensive crisis, hypotension, orthostatic hypotension, phlebitis, thrombosis.

7 DRUG INTERACTIONS

7.1 Monoamine Oxidase Inhibitors (MAOIs)

(See Dosage and Administration (2.5 & 2.6), Contraindications (4.1) and Warnings and Precautions (5.2).

7.2 Serotonergic Drugs

(See Dosage and Administration (2.5 & 2.6), Contraindications (4.1) and Warnings and Precautions (5.2).

7.3 Triptans

There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If concomitant treatment of escitalopram with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases (See Warnings and Precautions (5.2)).

7.4 CNS Drugs

Given the primary CNS effects of escitalopram, caution should be used when it is taken in combination with other centrally acting drugs.

7.5 Alcohol

Escitalopram did not potentiate the cognitive and motor effects of alcohol in a clinical trial, as with other psychotropic medications, the use of alcohol by patients taking escitalopram is not recommended.

7.6 Drugs That Interfere With Hemostasis (NSAIDs, Aspirin, Warfarin, etc.)

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs and SNRIs are administered with warfarin. Patients receiving warfarin therapy should be carefully monitored when escitalopram is started or discontinued.

7.7 Cimetidine

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of 400 mg twice a day cimetidine for 8 days resulted in an increase in citalopram AUC and *C_{max}* of 43% and 39%, respectively. The clinical significance of these findings is unknown.

7.8 Digoxin

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of citalopram and digoxin (single dose of 1 mg) did not significantly affect the pharmacokinetics of citalopram or digoxin.

7.9 Lithium

Combined administration of racemic citalopram (40 mg/day for 10 days) and lithium (300 mmol/day for 5 days) had no significant effect on the pharmacokinetics of citalopram or lithium. Nevertheless, plasma lithium levels should be monitored with appropriate adjustment to the lithium dose in accordance with standard clinical practice. Because lithium may enhance the serotonergic effects of escitalopram, caution should be exercised when escitalopram and lithium are administered.

7.10 Flumazenil and Cefazolin

In a controlled study, a single dose of pimizole 2 mg co-administered with racemic citalopram 40 mg given once daily for 11 days was associated with a mean increase in QTc values of approximately 10 msec compared to pimizole given alone. Racemic citalopram did not alter the mean AUC or *C_{max}* of pimizole. The mechanism of this pharmacodynamic interaction is not known.

7.11 Sumatriptan

There have been rare postmarketing reports describing patients with weakness, hyperreflexia, and incoordination following the use of an SSRI and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluvoxamine, paroxetine, sertraline, citalopram, escitalopram) is clinically warranted, appropriate observation of the patient is advised.

7.12 Theophylline

Combined administration of racemic citalopram (40 mg/day for 21 days) and the CYP1A2 substrate theophylline (single dose of 300 mg) did not affect the pharmacokinetics of theophylline. The effect of escitalopram on the pharmacokinetics of citalopram was not evaluated.

7.13 Warfarin

Administration of 40 mg/day racemic citalopram for 21 days did not affect the pharmacokinetics of warfarin, a CYP3A4 substrate. Prothrombin time was increased by 5%, the clinical significance of which is unknown.

7.14 Carbamazepine

Combined administration of racemic citalopram (40 mg/day for 14 days) and carbamazepine (titrated to 400 mg/day for 35 days) did not significantly affect the pharmacokinetics of carbamazepine, a CYP3A4 substrate. Although trough citalopram plasma levels were unaffected, given the enzyme-inducing properties of carbamazepine, the possibility that carbamazepine might enhance the clearance of escitalopram should be considered if the two drugs are coadministered.

7.15 Triazolam

Combined administration of racemic citalopram (titrated to 40 mg/day for 28 days) and the CYP3A4 substrate triazolam (single dose of 0.25 mg) did not significantly affect the pharmacokinetics of either citalopram or triazolam.

7.16 Ketoneconazole

Combined administration of racemic citalopram (40 mg) and ketoneconazole (200 mg), a potent CYP3A4 inhibitor, decreased the *C_{max}* and AUC of ketoneconazole by 21% and 10%, respectively, and did not significantly affect the pharmacokinetics of citalopram.

7.17 Rilovirav

Combined administration of a single dose of rilovirav (600 mg), both a CYP3A4 substrate and a potent inhibitor of CYP3A4, and escitalopram (20 mg) did not affect the pharmacokinetics of either rilovirav or escitalopram.

7.18 CYP3A4 and -2C19 Inhibition

In vitro studies indicated that CYP3A4 and -2C19 are the primary enzymes involved in the metabolism of escitalopram. However, coadministration of escitalopram (20 mg) and rilovirav (600 mg), a potent inhibitor of CYP3A4, did not significantly affect the pharmacokinetics of escitalopram. Because escitalopram is metabolized by multiple enzyme systems, inhibition of a single enzyme may not appreciably decrease escitalopram clearance.

7.19 Drugs Metabolized by Cytochrome P4502D6

In vitro studies did not reveal an inhibitory effect of escitalopram on CYP2D6. In addition, steady state levels of racemic citalopram were not significantly different in poor metabolizers and extensive CYP2D6 metabolizers after multiple-dose

administration of citalopram, suggesting that coadministration, with escitalopram, of a drug that inhibits CYP2D6, is unlikely to have clinically significant effects on escitalopram metabolism. However, there are limited *in vivo* data suggesting a modest CYP2D6 inhibitory effect for escitalopram, i.e., coadministration of escitalopram (20 mg/day for 21 days) with the tricyclic antidepressant desipramine (single dose of 50 mg), a substrate for CYP2D6, resulted in a 40% increase in *C_{max}* and a 100% increase in AUC of desipramine. The clinical significance of this finding is unknown. Nevertheless, caution is indicated in the coadministration of escitalopram and drugs metabolized by CYP2D6.

7.20 Metoprolol

Administration of 20 mg/day escitalopram for 21 days in healthy volunteers resulted in a 50% increase in *C_{max}* and 82% increase in AUC of the beta-adrenergic blocker metoprolol (given in a single dose of 100 mg). Increased metoprolol plasma levels have been associated with decreased cardioselectivity. Coadministration of escitalopram and metoprolol had no clinically significant effects on blood pressure or heart rate.

7.21 Electroconvulsive Therapy (ECT)

There are no clinical studies of the combined use of ECT and escitalopram.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry.

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to antidepressants during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for Antidepressants at 1-844-405-6185 or visiting online at <http://www.womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/antidepressants/>.

Risk Summary.

Available data from published epidemiologic studies and postmarketing reports have not established an increased risk of major birth defects or miscarriage. There are risks of preterm pulmonary hypertension of the newborn (PPHN) (see *Dose and Post neonatal adaptation*) (see *Clinical Considerations*) with exposure to selective serotonin reuptake inhibitors (SSRIs), including escitalopram, during pregnancy. There are risks associated with untreated depression in pregnancy (see *Clinical Considerations*).

In animal reproduction studies, both escitalopram and racemic citalopram have been shown to have adverse effects on embryofetal and postnatal development, including fetal structural abnormalities, when administered at doses greater than human therapeutic doses (see *Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in the clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations.

Disease-associated maternal risk and/or embryofetal risk. Women who discontinue antidepressants are more likely to experience a relapse of major depression than women who continue antidepressants. This finding is similar to other antidepressants with a similar half-life of about 27-32 hours. With careful dosing, steady state plasma concentrations are achieved within approximately one week. At steady state, the extent of accumulation of escitalopram in plasma in young healthy subjects was 2.2-2.5 times the plasma concentrations observed after a single dose. The tablet and the oral solution dosage forms of escitalopram oxalate are bioequivalent.

Fetal/Neonatal adverse reactions

Neonatal adaptation syndrome (NAS) including escitalopram, late in third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hyperreflexia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (see *Warnings and Precautions (5.2)*).

Data.

Human Data

Exposure to SSRIs, particularly later in pregnancy, may increase the risk for PPHN. PPHN occurs in 1-2 per 1000 live births in the general population and is associated with substantial neonatal morbidity and mortality.

In utero and *in vivo* fetal development study, oral administration of escitalopram (56, 112, or 150 mg/kg/day) to pregnant animals during the period of organogenesis resulted in decreased fetal body weight and associated delays in ossification at the two higher doses (approximately 5-55 times the maximum recommended human dose (MRHD)) or 20 mg/day on a mg/m² basis). Maternal toxicity (clinical signs and decreased body weight gain and food consumption) was seen at this dose. Slightly increased offspring mortality was also seen at 24 mg/kg/day. The no-effect dose was 12 mg/kg/day which is approximately 6 times the MRHD of 20 mg on a mg/m² basis. When female rats were treated with escitalopram (6, 12, 24, or 48 mg/kg/day) during pregnancy and through weaning, slightly increased offspring mortality and growth retardation were noted at 48 mg/kg/day which is approximately 23 times the MRHD of 20 mg on a mg/m² basis. Slight maternal toxicity (clinical signs and decreased body weight gain and food consumption) was seen at this dose. Slightly increased offspring mortality was also seen at 24 mg/kg/day. The no-effect dose was 12 mg/kg/day which is approximately 6 times the MRHD of 20 mg on a mg/m² basis. The developmental and/or maternal toxicity (clinical signs and decreased body weight gain and food consumption) was also seen at 24 mg/kg/day. The no-effect dose was 12 mg/kg/day which is approximately 6 times the MRHD of 20 mg on a mg/m² basis. In a rabbit study, no adverse effects on embryofetal development were observed at doses of racemic citalopram of up to 16 mg/kg/day, or approximately 5 times the MRHD on a mg/m² basis. Thus, developmental and/or maternal toxicity (clinical signs and decreased body weight gain and food consumption) was not observed in the rabbit.

When female rats were treated with racemic citalopram (4.8, 12.8, or 32 mg/kg/day) from late gestation through weaning, increased offspring mortality during the first 4 days after birth and persistent offspring growth retardation were observed at the highest dose, which is approximately 5 times the MRHD of 60 mg on a mg/m² basis. The no-effect dose was 12.8 mg/kg/day or approximately 2 times the MRHD on a mg/m² basis. Similar effects on offspring mortality and growth were seen when dams were treated throughout gestation and early lactation at doses ≥ 24 mg/kg/day, approximately 4 times the MRHD on a mg/m² basis. A no-effect dose was not determined at this study.

8.2 Lactation

Risk Summary

Data from the published literature report the presence of escitalopram and desmethylescitalopram in human milk (see *Data*). There are reports of excessive sedation, restlessness, agitation, poor feeding and poor weight gain in infants exposed to escitalopram through breast milk. Clinical Considerations: There are no data on the effects of escitalopram or its metabolites on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for escitalopram and any potential adverse effects to the breastfed child from escitalopram or from the underlying maternal condition.

Clinical Considerations

Infants exposed to escitalopram should be monitored for excess sedation, restlessness, agitation, poor feeding and poor weight gain.

Data

A study of 8 nursing mothers who were treated with daily doses of 10-20 mg/day showed that exclusively breast-fed infants receive approximately 3.9% of the maternal weight-adjusted dose of escitalopram and 1.7% of the maternal weight-adjusted dose of desmethylcitalopram.

8.4 Pediatric Use

The safety and effectiveness of escitalopram have been established in adolescents (12 to 17 years of age) for the treatment of major depressive disorder (see *Clinical Studies (14.1)*). Although maintenance efficacy in adolescent patients with major depressive disorder has not been systematically evaluated, maintenance efficacy can be extrapolated from adult data along with comparisons of escitalopram pharmacokinetic parameters in adults and adolescent patients.

The safety and effectiveness of escitalopram have not been established in pediatric (younger than 11 years of age) patients with major depressive disorder. In a 24-week, open-label safety study in 118 children (aged 7 to 12 years) who had major depressive disorder, the safety findings were consistent with the known safety and tolerability profile for escitalopram. Safety and effectiveness of escitalopram has not been established in pediatric patients less than 18 years of age with Generalized Anxiety Disorder.

Decreased appetite and weight loss have been observed in association with the use of SSRIs. Consequently, regular monitoring of weight and growth should be performed in children and adolescents treated with an SSRI such as escitalopram.

8.5 Geriatric Use

Approximately 6% of the 1144 patients receiving esc