

# CITALOPRAM - citalopram hydrobromide tablet, film coated

## QUALLENT PHARMACEUTICALS HEALTH LLC

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

CITALOPRAM tablets, for oral use

Initial U.S. Approval: 1998

#### 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).
- Citalopram is not approved for use in pediatric patients (8.4).

#### RECENT MAJOR CHANGES

Warnings and Precautions (5.3, 5.4)

08/2023

#### INDICATIONS AND USAGE

Citalopram tablets are a selective serotonin reuptake inhibitor (SSRI) indicated for the treatment of major depressive disorder (MDD) in adults (1).

#### DOSAGE AND ADMINISTRATION

- Administer once daily with or without food (2).
- Initial dosage is 20 mg once daily; after one week may increase to maximum dosage of 40 mg once daily (2.1).
- Patients greater than 60 years of age, patients with hepatic impairment, and CYP2C19 poor metabolizers: maximum recommended dosage is 20 mg once daily (2.2).
- When discontinuing citalopram tablets, reduce dosage gradually (2.4, 5.6).

#### DOSAGE FORMS AND STRENGTHS

Tablets: 10 mg; 20 mg, scored; and 40 mg, scored (3)

#### CONTRAINDICATIONS

- Concomitant use of monoamine oxidase inhibitors (MAOIs) or use within 14 days of discontinuing a MAOI (4).
- Concomitant use of pimozone (4).
- Known hypersensitivity to citalopram or any of the inactive ingredients of citalopram (4).

#### WARNINGS AND PRECAUTIONS

- *QT-Prolongation and Torsade de Pointes*: Dose-dependent QTc prolongation, Torsade de pointes, ventricular tachycardia, and sudden death have occurred. Avoid use of citalopram in patients with congenital long QT syndrome, bradycardia, hypokalemia or hypomagnesemia, recent acute myocardial infarction, or uncompensated heart failure and patients taking other drugs that prolong the QTc interval. Monitor electrolytes in patients at high risk for hypokalemia or hypomagnesemia. Discontinue citalopram in patients with persistent QTc measurements > 500 ms (5.2, 7).
- *Serotonin Syndrome*: Increased risk when co-administered with other serotonergic agents, but also when taken alone. If occurs, discontinue citalopram and serotonergic agents and initiate supportive measures (5.3).
- *Increased Risk of Bleeding*: Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, other antiplatelet drugs, warfarin and other anticoagulants may increase this risk (5.4).
- *Activation of Mania/Hypomania*: Screen patients for bipolar disorder (5.5).
- *Seizures*: Use with caution in patients with seizure disorder (5.7).
- *Angle-Closure Glaucoma*: Avoid use of citalopram in patients with untreated anatomically narrow angles (5.8).
- *Hyponatremia*: Can occur in association with syndrome of inappropriate antidiuretic hormone secretion (5.9).

- *Sexual Dysfunction*: Citalopram may cause symptoms of sexual dysfunction. (5.10).

#### ADVERSE REACTIONS

Most common adverse reaction (incidence  $\geq$  5% and twice placebo) is ejaculation disorder (primarily ejaculation delay) (6.1).

**To report SUSPECTED ADVERSE REACTIONS, contact Qualient Pharmaceuticals Health LLC at 1-877-605-7243 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

#### DRUG INTERACTIONS

*CYP2C19 Inhibitors*: Citalopram 20 mg daily is the maximum recommended dosage for patients taking concomitant CYP2C19 inhibitors (5.2, 7).

#### USE IN SPECIFIC POPULATIONS

- *Pregnancy*: SSRI use, particularly late 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 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**Revised: 6/2024**

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## **FULL PRESCRIBING INFORMATION**

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

**Antidepressants increased the risk of suicidal thoughts and behaviors 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)]. Citalopram is not approved for use in pediatric patients [see Use in Specific Populations (8.4)].**

## **1 INDICATIONS AND USAGE**

Citalopram tablets are indicated for the treatment of major depressive disorder (MDD) in adults [see Clinical Studies (14)].

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Recommended Dosage**

Administer citalopram tablets once daily, with or without food, at an initial dosage of 20 mg once daily, with an increase to a maximum dosage of 40 mg once daily at an interval of no less than one week.

Dosages above 40 mg once daily are not recommended due to the risk of QT prolongation [see *Warnings and Precautions (5.2)*].

## **2.2 Screen for Bipolar Disorder Prior to Starting Citalopram Tablets**

Prior to initiating treatment with citalopram tablets or another antidepressant, screen patients for a personal or family history of bipolar disorder, mania, or hypomania [See *Warnings and Precautions (5.5)*].

## **2.3 Recommended Dosage for Specific Populations**

The maximum recommended dosage of citalopram tablets for patients who are greater than 60 years of age, patients with hepatic impairment, and for CYP2C19 poor metabolizers is 20 mg once daily [see *Warnings and Precautions (5.2)*, *Clinical Pharmacology (12.3)*].

## **2.4 Dosage Modifications with Concomitant Use of CYP2C19 Inhibitors**

The maximum recommended dosage of citalopram tablets when used concomitantly with a CYP2C19 inhibitor is 20 mg once daily [see *Warnings and Precautions (5.2)*, *Drug Interactions (7)*].

## **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 therapy with citalopram tablets. Conversely, at least 14 days must elapse after stopping citalopram tablets before starting an MAOI antidepressant [see *Contraindications (4)* and *Warnings and Precautions (5.3)*].

## **2.6 Discontinuing Treatment with Citalopram Tablets**

Adverse reactions may occur upon discontinuation of citalopram tablets [see *Warnings and Precautions (5.6)*]. Gradually reduce the dosage rather than stopping citalopram tablets abruptly whenever possible.

# **3 DOSAGE FORMS AND STRENGTHS**

Citalopram tablets, USP are available as:

- 10 mg: Peach colored, biconvex, round shaped film coated tablets debossed with 'A' on one side and '05' on the other side
- 20 mg: Light pink colored, biconvex, capsule shaped film coated tablets debossed with 'A' on one side and with a score line in between '0' and '6' on other side
- 40 mg: White colored, biconvex, capsule shaped film coated tablets debossed with 'A' on one side and with a score line in between '0' and '7' on other side

# **4 CONTRAINDICATIONS**

Citalopram tablets are contraindicated in patients:

- taking, or within 14 days of stopping, MAOIs (including MAOIs such as linezolid or intravenous methylene blue) because of an increased risk of serotonin syndrome [see *Warnings and Precautions (5.3)*, *Drug Interactions (7)*].
- taking pimozide because of risk of QT prolongation [see *Drug Interactions (7)*].
- with known hypersensitivity to citalopram or any of the inactive ingredients in citalopram tablets. Reactions have included angioedema and anaphylaxis [see *Adverse Reactions (6.2)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Suicidal Thoughts and Behavior in Adolescents and Young Adults

In pooled analyses of placebo-controlled trials of antidepressant drugs (SSRIs and other antidepressant classes) that included approximately 77,000 adult patients, and 4,500 pediatric patients, the incidence of suicidal thoughts and behaviors in antidepressant-treated patients age 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*.

**Table 1: Risk Differences of the Number of Patients with 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 with Suicidal Thoughts or Behaviors per 1000 Patients Treated
	<b>Increases Compared to Placebo</b>
<18 years old	14 additional patients
18 to 24 years old	5 additional patients
	<b>Decreases Compared to Placebo</b>
25 to 64 years old	1 fewer patient
≥65 years old	6 fewer patients

\*Citalopram is not approved for use in pediatric patients.

It is unknown whether the risk of suicidal thoughts and behaviors in children, adolescents, and young adults 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 and that depression itself is a risk factor for suicidal thoughts and behaviors.

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 citalopram, in patients whose depression is persistently worse, or who are experiencing emergent suicidal thoughts or

behaviors.

## 5.2 QT-Prolongation and Torsade de Pointes

Citalopram causes dose-dependent QTc prolongation an ECG abnormality that has been associated with Torsade de Pointes (TdP), ventricular tachycardia, and sudden death, all of which have been observed in postmarketing reports for citalopram [see *Adverse Reactions* 6.2)].

Because of the risk of QTc prolongation at higher citalopram doses, it is recommended that citalopram not be given at doses above 40 mg once daily [see *Dosage and Administration* (2.1), *Clinical Pharmacology* (12.2)].

Citalopram should be avoided in patients with congenital long QT syndrome, bradycardia, hypokalemia or hypomagnesemia, recent acute myocardial infarction, or uncompensated heart failure unless the benefits outweigh the risks for a particular patient. Citalopram should also be avoided in patients who are taking other drugs that prolong the QTc interval [see *Drug Interactions* (7)]. Such drugs include Class 1A (e.g., quinidine, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmic medications, antipsychotic medications (e.g., chlorpromazine, thioridazine), antibiotics (e.g., gatifloxacin, moxifloxacin), or any other class of medications known to prolong the QTc interval (e.g., pentamidine, levomethadyl acetate, methadone).

The citalopram dose should be limited in certain populations. The maximum dose should be limited to 20 mg once daily in patients who are CYP2C19 poor metabolizers or those patients receiving concomitant cimetidine or another CYP2C19 inhibitor, since higher citalopram exposures would be expected. The maximum dose should also be limited to 20 mg once daily in patients with hepatic impairment and in patients who are greater than 60 years of age because of expected higher exposures [see *Dosage and Administration* (2.3, 2.4), *Drug Interactions* (7), *Use in Specific Populations* (8.5), *Clinical Pharmacology* (12.3)].

Electrolyte and/or ECG monitoring is recommended in certain circumstances. Patients being considered for treatment with citalopram who are at risk for significant electrolyte disturbances should have baseline serum potassium and magnesium measurements with periodic monitoring. Hypokalemia (and/or hypomagnesemia) may increase the risk of QTc prolongation and arrhythmia, and should be corrected prior to initiation of treatment and periodically monitored. ECG monitoring is recommended in patients for whom citalopram use is not recommended unless the benefits clearly outweigh the risks for a particular patient (see above). These include those patients with the cardiac conditions noted above, and those taking other drugs that may prolong the QTc interval.

Discontinue citalopram in patients who are found to have persistent QTc measurements >500 ms. If patients taking citalopram experience symptoms that could indicate the occurrence of cardiac arrhythmias, e.g., dizziness, palpitations, or syncope, the prescriber should initiate further evaluation, including cardiac monitoring.

### 5.3 Serotonin Syndrome

SSRIs, including citalopram, 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, meperidine, methadone, 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)*]. Serotonin syndrome can also occur when these drugs are used alone. Symptoms of serotonin syndrome were noted in 0.1% of MDD patients treated with citalopram in premarketing clinical trials.

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 citalopram with MAOIs is contraindicated. In addition, do not initiate citalopram 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 citalopram, discontinue citalopram before initiating treatment with the MAOI [see *Contraindications (4)*, *Drug Interactions (7)*].

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

### 5.4 Increased Risk of Bleeding

Drugs that interfere with serotonin reuptake inhibition, including citalopram, 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. Based on data from the published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see *Use in Specific Populations (8.1)*]. Bleeding events related to drugs that interfere with serotonin reuptake have ranged from ecchymosis, hematoma, epistaxis, and petechiae to life-threatening hemorrhages.

Inform patients about the increased risk of bleeding associated with the concomitant use of citalopram and antiplatelet agents or anticoagulants. For patients taking warfarin,

carefully monitor the international normalized ratio [see *Drug Interactions* (7)].

## **5.5 Activation of Mania or Hypomania**

In patients with bipolar disorder, treating a depressive episode with citalopram or another antidepressant may precipitate a mixed/manic episode. In controlled clinical trials, patients with bipolar disorder were excluded; however, symptoms of mania or hypomania were reported in 0.1% of undiagnosed patients treated with citalopram. Prior to initiating treatment with citalopram, screen patients for any personal or family history of bipolar disorder, mania, or hypomania [see *Dosage and Administration* (2.2)].

## **5.6 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)].

## **5.7 Seizures**

Citalopram has not been systematically evaluated in patients with seizure disorders. Patients with a history of seizures were excluded from clinical studies. In clinical trials of citalopram, seizures occurred in 0.3% of patients treated with citalopram (a rate of one patient per 98 years of exposure) and 0.5% of patients treated with placebo (a rate of one patient per 50 years of exposure). Citalopram should be prescribed with caution in patients with a seizure disorder.

## **5.8 Angle-closure Glaucoma**

The pupillary dilation that occurs following use of many antidepressant drugs, including citalopram, 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 citalopram, in patients with untreated anatomically narrow angles.

## **5.9 Hyponatremia**

Hyponatremia may occur as a result of treatment with SSRIs, including citalopram. Cases of 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 and/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 citalopram 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 [see *Use in Specific Populations* (8.5)].



## 5.10 Sexual Dysfunction

Use of SSRIs, including citalopram, may cause symptoms of sexual dysfunction [see *Adverse Reactions (6.1)*]. In male patients, SSRI use may result in ejaculatory delay or failure, decreased libido, and erectile dysfunction. In female patients, SSRI use may result in decreased libido and delayed or absent orgasm.

It is important for prescribers to inquire about sexual function prior to initiation of citalopram and to inquire specifically about changes in sexual function during treatment, because sexual function may not be spontaneously reported. When evaluating changes in sexual function, obtaining a detailed history (including timing of symptom onset) is important because sexual symptoms may have other causes, including the underlying psychiatric disorder. Discuss potential management strategies to support patients in making informed decisions about treatment.

## 6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Hypersensitivity reactions [see *Contraindications (4)*]
- Suicidal thoughts and behaviors in adolescents and young adults [see *Warnings and Precautions (5.1)*]
- QT-prolongation and torsade de pointes [see *Warnings and Precautions (5.2)*]
- Serotonin syndrome [see *Warnings and Precautions (5.3)*]
- Increased risk of bleeding [see *Warnings and Precautions (5.4)*]
- Activation of mania or hypomania [see *Warnings and Precautions (5.5)*]
- Discontinuation syndrome [see *Warnings and Precautions (5.6)*]
- Seizures [see *Warnings and Precautions (5.7)*]
- Angle-closure glaucoma [see *Warnings and Precautions (5.8)*]
- Hyponatremia [see *Warnings and Precautions (5.9)*]
- Sexual Dysfunction [see *Warnings and Precautions (5.10)*]

### 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 studies of another drug and may not reflect the rates observed in clinical practice.

The safety for citalopram included citalopram exposures in patients and/or healthy subjects from 3 different groups of studies: 429 healthy subjects in clinical pharmacology/pharmacokinetic studies; 4,422 exposures from patients in controlled and uncontrolled clinical trials, corresponding to approximately 1,370 patient-exposure years. There were, in addition, over 19,000 exposures from mostly open-label, European postmarketing studies. The conditions and duration of treatment with citalopram varied greatly and included (in overlapping categories) open-label and double-blind studies, inpatient and outpatient studies, fixed-dose and dose-titration studies, and short-term and long-term exposure.

## Adverse Reactions Associated with Discontinuation of Treatment

Among 1,063 patients with MDD who received citalopram at doses ranging from 10 mg to 80 mg once daily in placebo-controlled trials of up to 6 weeks duration, 16% discontinued treatment due to an adverse reaction, as compared to 8% of 446 patients receiving placebo. The adverse reactions associated with discontinuation (i.e., associated with discontinuation in at least 1% of citalopram-treated patients at a rate at least twice that of placebo) are shown in *Table 2*.

**Table 2: Adverse Reactions Associated with Discontinuation of Citalopram Treatment in Short-Term, Placebo-Controlled MDD Trials**

<b>Body System/Adverse Reaction</b>	<b>Citalopram (N=1,063) %</b>	<b>Placebo (N=446) %</b>
<b>General</b>		
Asthenia	1	<1
<b>Gastrointestinal Disorders</b>		
Nausea	4	0
Dry Mouth	1	<1
Vomiting	1	0
<b>Central and Peripheral Nervous System Disorders</b>		
Dizziness	2	<1
<b>Psychiatric Disorders</b>		
Insomnia	3	1
Somnolence	2	1
Agitation	1	<1

\* A patient can report more than one reason for discontinuation and be counted more than once in this table.

*Table 3* enumerates the incidence of adverse reactions that occurred among 1,063 patients with MDD who received citalopram at doses ranging from 10 mg to 80 mg once daily in placebo-controlled trials of up to 6 weeks duration.

The most common adverse reaction that occurred in citalopram-treated patients with an incidence of 5% or greater and at least twice the incidence in placebo patients was ejaculation disorder (primarily ejaculatory delay) in male patients (see *Table 3*).

**Table 3: Adverse Reactions (≥2% and Greater than Placebo) Among Citalopram-Treated Patients\***

<b>Body System/Adverse Reaction</b>	<b>Citalopram (N=1,063) %</b>	<b>Placebo (N=446) %</b>
<b>Gastrointestinal Disorders</b>		
Nausea	21	14

Diarrhea	8	5
Dyspepsia	5	4
Vomiting	4	3
Abdominal Pain	3	2
<b>Autonomic Nervous System Disorders</b>		
Dry Mouth	20	14
Sweating Increased	11	9
<b>Psychiatric Disorders</b>		
Somnolence	18	10
Insomnia	15	14
Anxiety	4	3
Anorexia	4	2
Agitation	3	1
Dysmenorrhea <sup>1</sup>	3	2
Libido Decreased	2	<1
Yawning	2	<1
<b>Central &amp; Peripheral Nervous System Disorders</b>		
Tremor	8	6
<b>Urogenital</b>		
Ejaculation Disorder <sup>2,3</sup>	6	1
Impotence <sup>3</sup>	3	<1
<b>Respiratory System Disorders</b>		
Upper Respiratory Tract Infection	5	4
Rhinitis	5	3
Sinusitis	3	<1
<b>General</b>		
Fatigue	5	3
Fever	2	<1
<b>Musculoskeletal System Disorders</b>		
Arthralgia	2	1
Myalgia	2	1

\*Adverse reactions reported by at least 2% of patients treated with citalopram are reported, except for the following adverse reactions which had an incidence on placebo  $\geq$  citalopram: headache, asthenia, dizziness, constipation, palpitation, vision abnormal, sleep disorder, nervousness, pharyngitis, micturition disorder, back pain.

<sup>1</sup>Denominator used was for females only (N=638 citalopram; N=252 placebo).

<sup>2</sup>Primarily ejaculatory delay.

<sup>3</sup>Denominator used was for males only (N=425 citalopram; N=194 placebo).

### Dose Dependent Adverse Reactions

The potential relationship between the dosage of citalopram and the incidence of adverse reactions was examined in a fixed-dose study in patients with MDD receiving placebo or citalopram 10 mg, 20 mg 40 mg, or 60 mg (1.5 times the maximum recommended dosage). A positive dose response ( $p < 0.05$ ) was revealed for the following adverse reactions: fatigue, impotence, insomnia, increased sweating, somnolence, and yawning.

### Male and Female Sexual Dysfunction with SSRIs

Although changes in sexual desire, sexual performance, and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of 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 displays the incidence of sexual adverse reactions reported by at least 2% of male patients taking citalopram in a pool of placebo-controlled clinical trials in patients with depression.

**Table 4: Adverse Reactions ( $\geq 2\%$ ) Related to Sexual Dysfunction in Citalopram-Treated Male Patients in Pooled Placebo-Controlled Clinical Trials of MDD**

	<b>Citalopram</b>	<b>Placebo</b>
<b>n (males)</b>	<b>425 (%)</b>	<b>194 (%)</b>
Abnormal ejaculation (mostly ejaculatory delay)	6.1	1
Decreased libido	3.8	<1
Impotence	2.8	<1

In female depressed patients receiving citalopram, the reported incidence of decreased libido and anorgasmia was 1.3% (n=638 females) and 1.1% (n=252 females), respectively.

#### Weight Changes

Patients treated with citalopram in controlled trials experienced a weight loss of about 0.5 kg compared to no change for placebo patients.

#### ECG Changes

In a thorough QT study, citalopram was found to be associated with a dose-dependent increase in the QTc interval.

Electrocardiograms from citalopram (N=802) and placebo (N=241) 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 heart rate increases to over 100 bpm or decreases to less than 50 bpm with a 25% change from

baseline (tachycardic or bradycardic outliers, respectively). In the citalopram group 1.9% of the patients had a change from baseline in QTcF >60 msec compared to 1.2% of the patients in the placebo group. None of the patients in the placebo group had a post-dose QTcF >500 msec compared to 0.5% of the patients in the citalopram group. The incidence of tachycardic outliers was 0.5% in the citalopram group and 0.4% in the placebo group. The incidence of bradycardic outliers was 0.9% in the citalopram group and 0.4% in the placebo group.

#### Other Adverse Reactions Observed During the Premarketing Evaluation of Citalopram

The following list of adverse reactions does not include reactions that are: 1) included in Table 3 or elsewhere in labeling, 2) for which a drug cause was remote, 3) which were so general as to be uninformative, and those occurring in only one patient.

Adverse reactions are categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse reactions are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse reactions are those occurring in less than 1/100 patients to 1/1000 patients; rare adverse reactions are those occurring in fewer than 1/1000 patients.

*Cardiovascular - Frequent:* tachycardia, postural hypotension, hypotension. *Infrequent:* hypertension, bradycardia, edema (extremities), angina pectoris, extrasystoles, cardiac failure, flushing, myocardial infarction, cerebrovascular accident, myocardial ischemia. *Rare:* transient ischemic attack, phlebitis, atrial fibrillation, cardiac arrest, bundle branch block.

*Central and Peripheral Nervous System Disorders - Frequent:* paresthesia, migraine. *Infrequent:* hyperkinesia, vertigo, hypertonia, extrapyramidal disorder, leg cramps, involuntary muscle contractions, hypokinesia, neuralgia, dystonia, abnormal gait, hypoesthesia, ataxia. *Rare:* abnormal coordination, hyperesthesia, ptosis, stupor.

*Endocrine Disorders - Rare:* hypothyroidism, goiter, gynecomastia.

*Gastrointestinal Disorders - Frequent:* saliva increased, flatulence. *Infrequent:* gastritis, gastroenteritis, stomatitis, eructation, hemorrhoids, dysphagia, teeth grinding, gingivitis, esophagitis. *Rare:* colitis, gastric ulcer, cholecystitis, cholelithiasis, duodenal ulcer, gastroesophageal reflux, glossitis, jaundice, diverticulitis, rectal hemorrhage, hiccups.

*General - Infrequent:* hot flushes, rigors, alcohol intolerance, syncope, influenza-like symptoms. *Rare:* hay fever.

*Hemic and Lymphatic Disorders - Infrequent:* purpura, anemia, epistaxis, leukocytosis, leucopenia, lymphadenopathy. *Rare:* pulmonary embolism, granulocytopenia, lymphocytosis, lymphopenia, hypochromic anemia, coagulation disorder, gingival bleeding.

*Metabolic and Nutritional Disorders - Frequent:* decreased weight, increased weight. *Infrequent:* increased hepatic enzymes, thirst, dry eyes, increased alkaline phosphatase, abnormal glucose tolerance. *Rare:* bilirubinemia, hypokalemia, obesity, hypoglycemia, hepatitis, dehydration.

*Musculoskeletal System Disorders - Infrequent:* arthritis, muscle weakness, skeletal pain. *Rare:* bursitis, osteoporosis.

*Psychiatric Disorders - Frequent:* impaired concentration, amnesia, apathy, depression, increased appetite, aggravated depression, suicide attempt, confusion. *Infrequent:* increased libido, aggressive reaction, paroniria, drug dependence, depersonalization, hallucination, euphoria, psychotic depression, delusion, paranoid reaction, emotional lability, panic reaction, psychosis. *Rare:* catatonic reaction, melancholia.

*Reproductive Disorders/Female\* - Frequent:* amenorrhea. *Infrequent:* galactorrhea, breast pain, breast enlargement, vaginal hemorrhage. (\*% based on female subjects only: 2955)

*Respiratory System Disorders - Frequent:* coughing. *Infrequent:* bronchitis, dyspnea, pneumonia. *Rare:* asthma, laryngitis, bronchospasm, pneumonitis, sputum increased.

*Skin and Appendages Disorders - Frequent:* rash, pruritus. *Infrequent:* photosensitivity reaction, urticaria, acne, skin discoloration, eczema, alopecia, dermatitis, skin dry, psoriasis. *Rare:* hypertrichosis, decreased sweating, melanosis, keratitis, cellulitis, pruritus ani.

*Special Senses - Frequent:* abnormal accommodation, taste perversion. *Infrequent:* tinnitus, conjunctivitis, eye pain. *Rare:* mydriasis, photophobia, diplopia, abnormal lacrimation, cataract, taste loss.

*Urinary System Disorders - Frequent:* polyuria. *Infrequent:* micturition frequency, urinary incontinence, urinary retention, dysuria. *Rare:* facial edema, hematuria, oliguria, pyelonephritis, renal calculus, renal pain.

## **6.2 Postmarketing Experience**

The following adverse reactions have been identified during postapproval use of citalopram, the racemate, or escitalopram, the S-enantiomer of citalopram. 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:* hemolytic anemia, thrombocytopenia, prothrombin decreased

*Cardiac Disorders:* torsade de pointes, ventricular arrhythmia, QT prolonged

*Endocrine Disorders:* hyperprolactinemia

*Eye Disorders:* angle-closure glaucoma

*Gastrointestinal Disorders:* gastrointestinal hemorrhage, pancreatitis

*General Disorders and Administrative Site Conditions:* withdrawal syndrome

*Hepatobiliary Disorders:* hepatic necrosis

*Immune System Disorders:* anaphylaxis, allergic reaction

*Musculoskeletal and Connective Tissue Disorders:* rhabdomyolysis

*Nervous System Disorders:* grand mal convulsion(s), myoclonus, choreoathetosis, dyskinesia, akathisia, nystagmus

*Pregnancy, Puerperium and Perinatal Conditions:* spontaneous abortion

*Psychiatric Disorders:* delirium

*Renal and Urinary Disorders:* acute renal failure

*Reproductive System and Breast Disorders:* priapism

*Respiratory, Thoracic and Mediastinal Disorders:* anosmia, hyposmia

*Skin and Subcutaneous Tissue Disorders:* Stevens Johnson Syndrome, epidermal necrolysis, angioedema, erythema multiforme, ecchymosis

*Vascular Disorders:* thrombosis

## **7 DRUG INTERACTIONS**

Table 5 presents clinically important drug interactions with citalopram.

**Table 5: Clinically Important Drug Interactions with Citalopram**

<b>Monoamine Oxidase Inhibitors (MAOIs)</b>	
<i>Clinical Impact</i>	Concomitant use of SSRIs, including citalopram, and MAOIs increases the risk of serotonin syndrome.
	Citalopram is contraindicated in patients taking MAOIs, including MAOIs

<i>Intervention</i>	such as linezolid or intravenous methylene blue [see <i>Dosage and Administration</i> (2.5), <i>Contraindications</i> (4), <i>Warnings and Precautions</i> (5.3)].
<b>Pimozide</b>	
<i>Clinical Impact:</i>	Concomitant use of citalopram with pimozide increases plasma concentrations of pimozide, a drug with a narrow therapeutic index, and may increase the risk of QT prolongation and/or ventricular arrhythmias compared to use of citalopram alone [see <i>Clinical Pharmacology</i> (12.2)].
<i>Intervention:</i>	Citalopram is contraindicated in patients taking pimozide [see <i>Contraindications</i> (4), <i>Warnings and Precautions</i> (5.2)].
<b>Drugs that Prolong the QTc Interval</b>	
<i>Clinical Impact:</i>	Concomitant use of citalopram with drugs that prolong QT can cause additional QT prolongation compared to the use of citalopram alone [see <i>Clinical Pharmacology</i> (12.2)].
<i>Intervention:</i>	Avoid concomitant use of citalopram with drugs that prolong the QT interval (citalopram is contraindicated in patients taking pimozide)[see <i>Contraindications</i> (4), <i>Warnings and Precautions</i> (5.2)].
<b>CYP2C19 Inhibitors</b>	
<i>Clinical Impact:</i>	Concomitant use of citalopram with CYP2C19 inhibitors increases the risk of QT prolongation and/or ventricular arrhythmias compared to the use of citalopram alone [see <i>Clinical Pharmacology</i> (12.2)].
<i>Intervention:</i>	The maximum recommended dosage of citalopram is 20 mg daily when used concomitantly with a CYP2C19 inhibitor [see <i>Dosage and Administration</i> (2.4), <i>Warnings and Precautions</i> (5.2)].
<b>Other Serotonergic Drugs</b>	
<i>Clinical Impact:</i>	Concomitant use of citalopram and other serotonergic drugs (including other SSRIs, SNRIs, triptans, tricyclic antidepressants, opioids, lithium, buspirone, amphetamines, tryptophan, and St. John's Wort) increases the risk of serotonin syndrome.
<i>Intervention:</i>	Monitor patients for signs and symptoms of serotonin syndrome, particularly during citalopram initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of citalopram and/or concomitant serotonergic drugs [see <i>Warning and Precautions</i> (5.3)].
<b>Drugs That Interfere With Hemostasis (antiplatelet agents and anticoagulants)</b>	
<i>Clinical Impact:</i>	Concomitant use of citalopram and an antiplatelet or anticoagulant may potentiate the risk of bleeding.
<i>Intervention:</i>	Inform patients of the increased risk of bleeding associated with the concomitant use of citalopram and antiplatelet agents and anticoagulants. For patients taking warfarin, carefully monitor the international normalized ratio [see <i>Warning and Precautions</i> (5.4)].

## 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 advise patients to register by calling the National Pregnancy Registry for Antidepressants at 1-844-405-6185 or visiting online at <https://womensmentalhealth.org/research/pregnancyregistry/antidepressants>.

### Risk Summary

Based on data from published observational studies, exposure to SSRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see *Warnings and Precautions (5.4)* and *Clinical Considerations*].

Available data from published epidemiologic studies and postmarketing reports with citalopram use in pregnancy have not established an increased risk of major birth defects or miscarriage. Published studies demonstrated that citalopram levels in both cord blood and amniotic fluid are similar to those observed in maternal serum. There are risks of persistent pulmonary hypertension of the newborn (PPHN) (see *Data*) and/or poor neonatal adaptation with exposure to selective serotonin reuptake inhibitors (SSRIs), including citalopram, during pregnancy. There also are risks associated with untreated depression in pregnancy (see *Clinical Considerations*).

In animal reproduction studies, citalopram caused adverse embryo/fetal effects at doses that caused maternal toxicity (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 and/or Embryo/Fetal Risk*

Women who discontinue antidepressants during pregnancy are more likely to experience a relapse of major depression than women who continue antidepressants. This finding is from a prospective longitudinal study of 201 pregnant women with a history of major depressive disorder who were euthymic and taking antidepressants at the beginning of pregnancy. Consider the risk of untreated depression when discontinuing or changing treatment with antidepressant medication during pregnancy and postpartum.

#### *Maternal Adverse Reactions*

Use of citalopram in the month before delivery may be associated with an increased risk

of postpartum hemorrhage [see *Warnings and Precautions* (5.4)].

### *Fetal/Neonatal Adverse Reactions*

Neonates exposed to citalopram and other SSRIs 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, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These findings are consistent with either a direct toxic effect of SSRIs 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* (5.3)].

### Data

#### *Human Data*

Exposure during late pregnancy to SSRIs may have an increased risk for persistent pulmonary hypertension of the newborn (PPHN). PPHN occurs in 1 to 2 per 1,000 live births in the general population and is associated with substantial neonatal morbidity and mortality.

#### *Animal Data*

Citalopram was administered orally to pregnant rats during the period of organogenesis at doses of 32, 56, and 112 mg/kg/day, which are approximately 8, 14, and 27 times the Maximum Recommended Human Dose (MRHD) of 40 mg, based on mg/m<sup>2</sup> body surface area. Citalopram caused maternal toxicity of CNS clinical signs and decreased weight gain at 112 mg/kg/day, which is 27 times the MRHD. At this maternally toxic dose, citalopram decreased embryo/fetal growth and survival and increased fetal abnormalities (including cardiovascular and skeletal defects). The no observed adverse effect level (NOAEL) for maternal and embryofetal toxicity is 56 mg/kg/day, which is approximately 14 times the MRHD.

Citalopram was administered orally to pregnant rabbits during the period of organogenesis at doses up to 16 mg/kg/day, which is approximately 8 times the MRHD of 40 mg, based on mg/m<sup>2</sup> body surface area. No maternal or embryofetal toxicity was observed. The NOAEL for maternal and embryofetal toxicity is 16 mg/kg/day, which is approximately 8 times the MRHD.

Citalopram was administered orally to pregnant rats during late gestation and lactation periods at doses of 4.8, 12.8, and 32 mg/kg/day, which are approximately 1, 3, and 8 times the MRHD of 40 mg, based on mg/m<sup>2</sup> body surface area. Citalopram increased offspring mortality during the first 4 days of birth and decreased offspring growth at 32 mg/kg/day, which is approximately 8 times the MRHD. The NOAEL for developmental

toxicity is 12.8 mg/kg/day, which is approximately 3 times the MRHD. In a separate study, similar effects on offspring mortality and growth were seen when dams were treated throughout gestation and early lactation at doses  $\geq 24$  mg/kg/day, which is approximately 6 times the MRHD. A NOAEL was not determined in that study.

## **8.2 Lactation**

### Risk Summary

Data from the published literature report the presence of citalopram in human milk at relative infant doses ranging between 0.7 to 9.4% of the maternal weight-adjusted dosage and a milk/plasma ratio ranging between 0.78 to 4.3. There are reports of breastfed infants exposed to citalopram experiencing irritability, restlessness, excessive somnolence, decreased feeding, and weight loss (*see Clinical Considerations*). There is no information about effects of citalopram on milk production.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for citalopram and any potential adverse effects on the breastfed child from citalopram or from the underlying maternal condition.

### Clinical Considerations

Monitor breastfeeding infants for adverse reactions, such as irritability, restlessness, excessive somnolence, decreased feeding, and weight loss.

## **8.4 Pediatric Use**

The safety and effectiveness of citalopram have not been established in pediatric patients. Two placebo-controlled trials in 407 pediatric patients with MDD have been conducted with citalopram, and the data were not sufficient to support use in pediatric patients.

Antidepressants increase the risk of suicidal thoughts and behaviors in pediatric patients [*see Boxed Warning, Warnings and Precautions (5.1)*]. Decreased appetite and weight loss have been observed in association with the use of SSRIs in pediatric patients.

## **8.5 Geriatric Use**

Of 4422 patients in clinical studies of citalopram, 1357 were 60 and over, 1034 were 65 and over, and 457 were 75 and over. In two pharmacokinetic studies, citalopram AUC was increased by 23% and 30%, respectively, in subjects  $\geq 60$  years of age as compared to younger subjects, and its half-life was increased by 30% and 50%, respectively [*see Clinical Pharmacology (12.3)*]. Therefore, the maximum recommended dosage in patients 60 years of age and older is lower than younger patients [*see Dosage and Administration (2.3), Warnings and Precautions (5.2)*].

SSRIs, including citalopram, 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 (5.9)].*

## **8.6 Hepatic Impairment**

Increased citalopram exposure occurs in patients with hepatic impairment. The maximum recommended dosage of citalopram is lower in patients with hepatic impairment *[see Dosage and Administration (2.3), Clinical Pharmacology (12.3)]*.

## **9 DRUG ABUSE AND DEPENDENCE**

### **9.1 Controlled Substance**

Citalopram hydrobromide is not a controlled substance.

### **9.2 Abuse**

Animal studies suggest that the abuse liability of citalopram is low. Citalopram has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. The premarketing clinical experience with citalopram did not reveal any drug-seeking behavior. However, these observations were not systematic and it is not possible to predict, on the basis of this limited experience, the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, health care providers should carefully evaluate citalopram patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse (e.g., development of tolerance, incrementations of dose, drug-seeking behavior).

## **10 OVERDOSAGE**

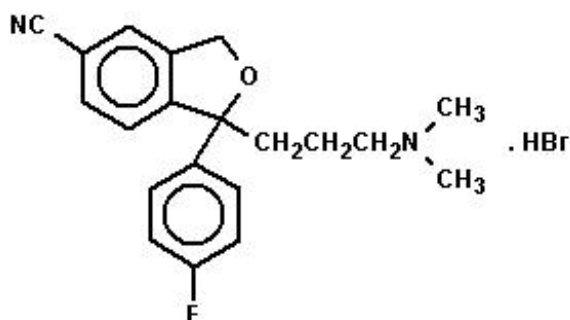
The following have been reported with citalopram tablet overdose:

- Seizures, which may be delayed, and altered mental status including coma.
- Cardiovascular toxicity, which may be delayed, including QRS and QTc interval prolongation, wide complex tachyarrhythmias, and torsade de pointes. Hypertension most commonly seen, but rarely can see hypotension alone or with co-ingestants including alcohol.
- Serotonin syndrome (patients with a multiple drug overdose with other proserotonergic drugs may have a higher risk).

Prolonged cardiac monitoring is recommended in citalopram overdose ingestions due to the arrhythmia risk. Gastrointestinal decontamination with activated charcoal should be considered in patients who present early after a citalopram overdose. Consider contacting a Poison Center (1-800-221-2222) or a medical toxicologist for additional overdose management recommendations.

## **11 DESCRIPTION**

Citalopram tablets, USP contains citalopram, a selective serotonin reuptake inhibitor (SSRI). Citalopram hydrobromide is a racemic bicyclic phthalane structure and is designated ( $\pm$ )-1-(3-dimethylaminopropyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile hydrobromide with the following structural formula:



The molecular formula is  $C_{20}H_{22}BrFN_2O$  and its molecular weight is 405.35.

Citalopram hydrobromide USP occurs as a fine, white to off-white powder. Citalopram hydrobromide is sparingly soluble in water and soluble in ethanol.

Citalopram tablets, USP are for oral administration and are available as film-coated round and capsule shaped tablets. The strengths reflect citalopram base equivalent content. The 10 mg, 20 mg, and 40 mg strength tablets contain 12.49 mg, 24.98 mg, and 49.96 mg of citalopram hydrobromide, respectively. The 20 mg and 40 mg tablets are scored.

*Inactive ingredients:* copovidone, corn starch, croscarmellose sodium, lactose monohydrate, magnesium stearate, hypromellose, microcrystalline cellulose, polyethylene glycol, and titanium dioxide. Iron oxides are used as coloring agents in the peach (10 mg) and light pink (20 mg) tablets.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

The mechanism of action of citalopram is unclear, but is presumed to be related to potentiation of serotonergic activity in the central nervous system (CNS) resulting from its inhibition of CNS neuronal reuptake of serotonin (5-HT).

### 12.2 Pharmacodynamics

*In vitro* and *in vivo* studies in animals suggest that citalopram is a selective serotonin reuptake inhibitor (SSRI) with minimal effects on norepinephrine (NE) and dopamine (DA) neuronal reuptake.

Citalopram has no or very low affinity for 5-HT<sub>1A</sub>, 5-HT<sub>2A</sub>, dopamine D<sub>1</sub> and D<sub>2</sub>,  $\alpha_1$ -,  $\alpha_2$ -, and  $\beta$ -adrenergic, histamine H<sub>1</sub>, gamma aminobutyric acid (GABA), muscarinic

cholinergic, and benzodiazepine receptors.

### Cardiac Electrophysiology

Individually corrected QTc (QTcNi) interval was evaluated in a randomized, placebo and active (moxifloxacin 400 mg) controlled cross-over, escalating multiple-dose study in 119 healthy subjects. The maximum mean (upper bound of the 95% one-sided confidence interval) difference from placebo were 8.5 (10.8) and 18.5 (21.0) msec for 20 mg and 60 mg (1.5 times the maximum recommended dosage) citalopram, respectively. Based on the established exposure-response relationship, the predicted QTcNi change from placebo (upper bound of the 95% one-sided confidence interval) under the  $C_{max}$  for the dose of 40 mg is 12.6 (14.3) msec [*see Warnings and Precautions (5.2)*].

### **12.3 Pharmacokinetics**

The single- and multiple-dose pharmacokinetics of citalopram are linear and dose-proportional in a dose range of 10 to 40 mg/day. Biotransformation of citalopram is mainly hepatic, with a mean terminal half-life of about 35 hours. With once daily dosing, steady state plasma concentrations are achieved within approximately one week. At steady state, the extent of accumulation of citalopram in plasma, based on the half-life, is expected to be 2.5 times the plasma concentrations observed after a single dose.

#### Absorption

Following a single oral dose (40 mg tablet) of citalopram, peak blood levels occur at about 4 hours. The absolute bioavailability of citalopram was about 80% relative to an intravenous dose, and absorption is not affected by food.

#### Distribution

The volume of distribution of citalopram is about 12 L/kg and the binding of citalopram (CT), demethylcitalopram (DCT) and didemethylcitalopram (DDCT) to human plasma proteins is about 80%.

#### Elimination

#### *Metabolism*

Citalopram is metabolized to demethylcitalopram (DCT), didemethylcitalopram (DDCT), citalopram-N-oxide, and a deaminated propionic acid derivative. In humans, unchanged citalopram is the predominant compound in plasma. At steady state, the concentrations of citalopram's metabolites, DCT and DDCT, in plasma are approximately one-half and one-tenth, respectively, that of the parent drug. *In vitro* studies show that citalopram is at least 8 times more potent than its metabolites in the inhibition of serotonin reuptake, suggesting that the metabolites evaluated do not likely contribute significantly to the

antidepressant actions of citalopram.

*In vitro* studies using human liver microsomes indicated that CYP3A4 and CYP2C19 are the primary isozymes involved in the N-demethylation of citalopram.

### *Excretion*

Following intravenous administrations of citalopram, the fraction of drug recovered in the urine as citalopram and DCT was about 10% and 5%, respectively. The systemic clearance of citalopram was 330 mL/min, with approximately 20% of that due to renal clearance.

### Specific Populations

#### *Geriatric Patients*

Citalopram pharmacokinetics in subjects  $\geq 60$  years of age were compared to younger subjects in two normal volunteer studies. In a single-dose study, citalopram AUC and half-life were increased in the subjects  $\geq 60$  years old by 30% and 50%, respectively, whereas in a multiple-dose study they were increased by 23% and 30%, respectively [see *Dosage and Administration* (2.3), *Warnings and Precautions* (5.2), *Use in Specific Populations* (8.5)].

#### *Male and Female Patients*

In three pharmacokinetic studies (total N=32), citalopram AUC in women was one and a half to two times that in men. This difference was not observed in five other pharmacokinetic studies (total N=114). In clinical studies, no differences in steady state serum citalopram levels were seen between men (N=237) and women (N=388). There were no gender differences in the pharmacokinetics of DCT and DDCT.

#### *Patients with Hepatic Impairment*

Citalopram oral clearance was reduced by 37% and half-life was doubled in patients with reduced hepatic function compared to normal subjects [see *Dosage and Administration* (2.3), *Warnings and Precautions* (5.2), *Use in Specific Populations* (8.6)].

#### *Patients with Renal Impairment*

In patients with mild to moderate renal impairment, oral clearance of citalopram was reduced by 17% compared to normal subjects. No adjustment of dosage for such patients is recommended. No information is available about the pharmacokinetics of citalopram in patients with severe renal impairment (creatinine clearance  $< 20$  mL/min).

### *CYP2C19 poor metabolizers*

In CYP2C19 poor metabolizers, citalopram steady state  $C_{\max}$  and AUC was increased by 68% and 107%, respectively [see *Dosage and Administration (2.3)*, *Warnings and Precautions (5.2)*].

### *CYP2D6 poor metabolizers*

Citalopram steady state levels were not significantly different in poor metabolizers and extensive metabolizers of CYP2D6.

### Drug Interaction Studies

*In vitro* enzyme inhibition data did not reveal an inhibitory effect of citalopram on CYP3A4, -2C9, or -2E1, but did suggest that it is a weak inhibitor of CYP1A2, -2D6, and -2C19. Citalopram would be expected to have little inhibitory effect on *in vivo* metabolism mediated by these enzymes. However, *in vivo* data to address this question are limited.

### *CYP3A4 and CYP2C19 Inhibitors*

Since CYP3A4 and CYP2C19 are the primary enzymes involved in the metabolism of citalopram, it is expected that potent inhibitors of CYP3A4 (e.g., ketoconazole, itraconazole, and macrolide antibiotics) and inhibitors of CYP2C19 (e.g., omeprazole, cimetidine) might decrease the clearance of citalopram. However, coadministration of citalopram and the potent CYP3A4 inhibitor ketoconazole did not significantly affect the pharmacokinetics of citalopram. 20 mg/day is the maximum recommended citalopram dose in patients taking concomitant cimetidine or another CYP2C19 inhibitor, because of the risk of QT prolongation [see *Dosage and Administration (2.2)*, *Warnings and Precautions (5.2)*].

### *Cimetidine*

In subjects who had received 21 days of 40 mg/day 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 [see *Dosage and Administration (2)*, *Warnings and Precautions (5.2)*, *Drug Interactions (7)*].

### *CYP2D6 Inhibitors*

Coadministration of a drug that inhibits CYP2D6 with citalopram is unlikely to have clinically significant effects on citalopram metabolism, based on the study results in CYP2D6 poor metabolizers.

### *Digoxin*



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

### *Lithium*

Coadministration of citalopram (40 mg/day for 10 days) and lithium (30 mmol/day for 5 days) had no significant effect on the pharmacokinetics of citalopram or lithium.

### *Pimozide*

In a controlled study, a single dose of pimozide 2 mg co-administered with citalopram 40 mg given once daily for 11 days was associated with a mean increase in QTc values of approximately 10 msec compared to pimozide given alone. Citalopram did not alter the mean AUC or C<sub>max</sub> of pimozide. The mechanism of this pharmacodynamic interaction is not known [see *Contraindications (4), Warnings and Precautions (5.2)*].

### *Theophylline*

Combined administration of 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 theophylline on the pharmacokinetics of citalopram was not evaluated.

### *Warfarin*

Administration of 40 mg/day 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.

### *Carbamazepine*

Combined administration of 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 increase the clearance of citalopram should be considered if the two drugs are coadministered.

### *Triazolam*

Combined administration of 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.

### *Ketoconazole*

Combined administration of citalopram (40 mg) and ketoconazole (200 mg) decreased the  $C_{max}$  and AUC of ketoconazole by 21% and 10%, respectively, and did not significantly affect the pharmacokinetics of citalopram.

### *Metoprolol*

Administration of 40 mg/day citalopram for 22 days resulted in a two-fold increase in the plasma levels of the beta-adrenergic blocker metoprolol. Increased metoprolol plasma levels have been associated with decreased cardioselectivity. Coadministration of citalopram and metoprolol had no clinically significant effects on blood pressure or heart rate.

### *Imipramine and Other Tricyclic Antidepressants (TCAs)*

*In vitro* studies suggest that citalopram is a relatively weak inhibitor of CYP2D6. Coadministration of citalopram (40 mg/day for 10 days) with the TCA imipramine (single dose of 100 mg), a substrate for CYP2D6, did not significantly affect the plasma concentrations of imipramine or citalopram. However, the concentration of the imipramine metabolite desipramine was increased by approximately 50%. The clinical significance of the desipramine change is unknown.

## **13 NONCLINICAL TOXICOLOGY**

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

#### Carcinogenesis

Citalopram increased the incidence of small intestine carcinoma in rats treated for 24 months at doses of 8 and 24 mg/kg/day in the diet, which are approximately 2 and 6 times the Maximum Recommended Human Dose (MRHD) of 40 mg, respectively, based on  $\text{mg}/\text{m}^2$  body surface area. A no-effect level (NOEL) for this finding was not established.

Citalopram did not increase the incidence of tumors in mice treated for 18 months at doses up to 240 mg/kg/day in the diet, which is approximately 30 times the MRDH of 40 mg based on  $\text{mg}/\text{m}^2$  body surface area.

#### Mutagenesis

Citalopram was mutagenic in the *in vitro* bacterial reverse mutation assay (Ames test) in 2 of 5 bacterial strains (Salmonella TA98 and TA1537) in the absence of metabolic activation. It was clastogenic in the *in vitro* Chinese hamster lung cell assay for chromosomal aberrations in the presence and absence of metabolic activation. Citalopram was not mutagenic in the *in vitro* mammalian forward gene mutation assay (HPRT) in mouse lymphoma cells or in *in vitro/in vivo* unscheduled DNA synthesis (UDS) assay in rat liver. It was not clastogenic in the *in vitro* chromosomal aberration assay in human lymphocytes or in two *in vivo* mouse micronucleus assays.

### Impairment of Fertility

Citalopram was administered orally to female and male rats at doses of 32, 48, and 72 mg/kg/day prior to and throughout mating and continuing to gestation. These doses are approximately 8, 12, and 17 times the MRHD of 40 mg based on mg/m<sup>2</sup> body surface area. Mating and fertility were decreased at doses  $\geq$  32 mg/kg/day, which is approximately 8 times the MRHD. Gestation duration was increased at 48 mg/kg/day, which is approximately 12 times the MRHD.

## **13.2 Animal Toxicology and/or Pharmacology**

### Retinal Changes in Rats

Pathologic changes (degeneration/atrophy) were observed in the retinas of albino rats in the 2-year carcinogenicity study with citalopram. There was an increase in both incidence and severity of retinal pathology in both male and female rats receiving 80 mg/kg/day, which is approximately 19 times the MRHD of 40 mg based on mg/m<sup>2</sup> body surface area. Similar findings were not present in rats treated for two years at the dose of 24 mg/kg/day, in mice treated for 18 months at doses up to 240 mg/kg/day, or in dogs treated for one year at doses up to 20 mg/kg/day, which are approximately 6, 29, and 17 times the MRHD, respectively, based on mg/m<sup>2</sup> body surface area.

Additional studies to investigate the mechanism for this pathology have not been performed, and the potential significance of this effect in humans has not been established.

## **14 CLINICAL STUDIES**

The efficacy of citalopram as a treatment for major depressive disorder was established in two placebo-controlled studies (of 4 to 6 weeks duration) in adult outpatients (ages 18 to 66) meeting DSM-III or DSM-III-R criteria for major depressive disorder (MDD) (Studies 1 and 2).

Study 1, a 6-week trial in which patients received fixed citalopram doses of 10 mg, 20 mg, 40 mg, and 60 mg daily, showed that citalopram 40 daily and 60 mg daily (1.5 times the maximum recommended daily dosage) was effective as measured by the Hamilton Depression Rating Scale (HAMD) total score, the primary efficacy endpoint. The HAMD-

17 is a 17-item, clinician-rated scale used to assess severity of depressive symptoms. Scores on the HAMD-17 range from 0 to 52, with higher scores indicating more severe depression. This study showed no clear effect of the 10 mg and 20 mg daily doses, and the 60 mg daily dose was not more effective than the 40 mg daily dose. Due to the risk of QTc prolongation and ventricular arrhythmias, the maximum recommended dosage of citalopram is 40 mg once daily.

In study 2, a 4-week, placebo-controlled trial in patients with MDD, the initial dose was 20 mg daily, followed by titration to the maximum tolerated dose or a maximum dose of 80 mg daily (2 times the maximum recommended daily dosage). Patients treated with citalopram showed statistically significantly greater improvement than placebo patients on the HAMD total score, the primary efficacy endpoint. In three additional placebo-controlled trials in patients with MDD, the difference in response to treatment between patients receiving citalopram and patients receiving placebo was not statistically significant.

In two long-term studies, patients with MDD who had responded to citalopram during an initial 6 or 8 weeks of acute treatment were randomized to continuation of citalopram or placebo. In one study, patients received fixed doses of citalopram 20 mg or 40 mg daily and in the second study, patients received flexible doses of citalopram 20 mg daily to 60 mg daily (1.5 times the maximum recommended daily dosage). In both studies, patients receiving continued citalopram treatment experienced statistically significantly lower relapse rates over the subsequent 6 months compared to those receiving placebo. In the fixed-dose study, the decreased rate of depression relapse was similar in patients receiving 20 mg or 40 mg daily of citalopram. Due to the risk of QTc prolongation and ventricular arrhythmias, the maximum recommended dosage of citalopram is 40 mg once daily.

Analyses of the relationship between treatment outcome and age, gender, and race did not suggest any differential responsiveness on the basis of these patient characteristics.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Citalopram tablets, USP are supplied as follows:

**10 mg Tablets** - Peach colored, biconvex, round shaped film coated tablets debossed with 'A' on one side and '05' on the other side.

Bottles of 500

NDC 82009-106-05

**20 mg Tablets** - Light pink colored, biconvex, capsule shaped film coated tablets debossed with 'A' on one side and with a score line in between '0' and '6' on other side.

Bottles of 500

NDC 82009-107-05

**40 mg Tablets** - White colored, biconvex, capsule shaped film coated tablets debossed with 'A' on one side and with a score line in between '0' and '7' on other side.

### Storage and Handling

**Store at** 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° 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, Warnings and Precautions (5.1)*].

### QT Prolongation and Torsade de Pointes

Advise patients to consult their health care provider immediately if they feel faint, lose consciousness, or have heart palpitations. Instruct patients to inform their health care provider that they are taking citalopram before taking any new medications [see *Warnings and Precautions (5.2), Drug Interactions (7)*].

### Serotonin Syndrome

Caution patients about the risk of serotonin syndrome, particularly with the concomitant use of citalopram with other serotonergic drugs including triptans, tricyclic antidepressants, opioids, lithium, 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). Instruct patients to contact their health care provider or report to the emergency room if they experience signs or symptoms of serotonin syndrome [see *Warnings and Precautions (5.3), Drug Interactions (7)*].

### Increased Risk of Bleeding

Inform patients about the concomitant use of citalopram 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 (5.4)*].

## Activation of Mania or 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 (5.5)*].

## Discontinuation Syndrome

Advise patients not to abruptly discontinue citalopram and to discuss any tapering regimen with their healthcare provider. Inform patients that adverse reactions can occur when citalopram is discontinued [See *Warnings and Precautions (5.6)*].

## Sexual Dysfunction

Advise patients that use of citalopram may cause symptoms of sexual dysfunction in both male and female patients. Inform patients that they should discuss any changes in sexual function and potential management strategies with their healthcare provider [see *Warnings and Precautions (5.10)*].

## Pregnancy

- Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during treatment with citalopram [see *Use in Specific Populations (8.1)*].
- Advise patients that citalopram use late in pregnancy may lead to an increased risk for neonatal complications requiring prolonged hospitalization, respiratory support, tube feeding, and/or persistent pulmonary hypertension of the newborn (PPHN) [see *Use in Specific Populations (8.1)*].
- Advise women that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to citalopram during pregnancy [see *Use in Specific Populations (8.1)*].

## Lactation

Advise breastfeeding women to monitor infants for excess sedation, restlessness, agitation, poor feeding and poor weight gain and to seek medical care if they notice these signs [see *Use in Specific Populations (8.2)*].

**Dispense with Medication Guide available at:  
[www.quallentpharmaceuticals.com](http://www.quallentpharmaceuticals.com)**

Manufactured by:  
Aurobindo Pharma Limited  
Hyderabad-500 090, India

Manufactured for:  
Quallent Pharmaceuticals Health LLC

Grand Cayman, Cayman Islands

M.L.No.: 19/HD/AP/95/F/R

Revised: 06/2024

**Dispense with Medication Guide available at:  
[www.quallentpharmaceuticals.com](http://www.quallentpharmaceuticals.com)**

**MEDICATION GUIDE**  
**Citalopram (syé tal' oh pram)**  
**Tablets USP, for oral use**

**What is the most important information I should know about citalopram tablets?**

**Citalopram tablets may cause serious side effects, including:**

- **Increased risk of suicidal thoughts and actions.** Citalopram tablets and other antidepressant medicines may increase suicidal thoughts and actions in some children, adolescents, and young adults **especially within the first few months of treatment or when the dose is changed. Citalopram tablets are not for use in children.**
  - Depression and other mental illnesses are the most important causes of suicidal thoughts and actions.

**How can I watch for and try to prevent suicidal thoughts and actions in myself or a family member?**

- Pay close attention to any changes, especially sudden changes in mood, behavior, thoughts, or feelings, or if you develop suicidal thoughts or actions. This is very important when an antidepressant medicine is started or when the dose is changed.
- Call your healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.
- Keep all follow-up visits with your healthcare provider as scheduled. Call your healthcare provider between visits as needed, especially if you have concerns about symptoms.

**Call your healthcare provider or get emergency medical help right away if you or your family member have any of the following symptoms, especially if they are new, worse, or worry you:**

- thoughts about suicide or dying
- new or worse depression
- feeling very agitated or restless
- trouble sleeping (insomnia)
- acting aggressive, being angry, or violent
- an extreme increase in activity or talking (mania)
- attempts to commit suicide
- new or worse anxiety

- acting on dangerous impulses
- panic attacks
- new or worse irritability
- other unusual changes in behavior or mood

### **What are citalopram tablets?**

Citalopram tablets are a prescription medicine used to treat a certain type of depression called Major Depressive Disorder (MDD) in adults.

It is not known if citalopram tablets are safe and effective for use in children.

### **Who should not take citalopram tablets?**

#### **Do not take citalopram tablets if you:**

- take a Monoamine Oxidase Inhibitor (MAOI)
- have stopped taking an MAOI in the last 14 days
- are being treated with the antibiotic linezolid or intravenous methylene blue
- take pimozide
- are allergic to citalopram or any of the ingredients in citalopram tablets. See the end of this Medication Guide for a complete list of ingredients in citalopram tablets.

Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including MAOIs such as linezolid or intravenous methylene blue.

### **Do not start taking an MAOI for at least 14 days after you stop treatment with citalopram tablets.**

### **Before taking citalopram tablets, tell your healthcare provider about all your medical conditions, including if you:**

- have or have a family history of suicide, depression, bipolar disorder, mania or hypomania
- have an abnormal heart rhythm called QT prolongation
- have or had heart problems, including a heart attack, heart failure, abnormal heart rhythm, or long QT syndrome
- have low potassium, magnesium, or sodium levels in your blood
- have or had bleeding problems
- have or had seizures (convulsions)
- have high pressure in the eye (glaucoma)
- have or had kidney or liver problems
- are pregnant or plan to become pregnant. Citalopram tablets may harm your unborn baby. Taking citalopram tablets late in pregnancy may lead to an increased risk of certain problems in your newborn. Talk to your healthcare provider about the risks and benefits of treating depression during pregnancy.
  - Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with citalopram tablets.
  - There is a pregnancy registry for females who are exposed to citalopram tablets during pregnancy. The purpose of the registry is to collect information about the health of females exposed to citalopram tablets and their baby. If you become pregnant during treatment with citalopram 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 visiting online at

<https://womensmentalhealth.org/research/pregnancyregistry/antidepressants>.

- are breastfeeding or plan to breastfeed. It is not known if citalopram passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby during treatment with citalopram tablets.
  - If you breastfeed during treatment with citalopram tablets, call your healthcare provider right away if your baby develops sleepiness or fussiness, or is not feeding or gaining weight well.

**Tell your healthcare provider about all the medicines you take,** including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Citalopram tablets and other medicines may affect each other causing possible serious side effects. Citalopram tablets may affect the way other medicines work and other medicines may affect the way citalopram tablets works.

**Especially tell your healthcare provider if you take:**

- medicines used to treat migraine headaches known as triptans
- tricyclic antidepressants
- lithium
- tramadol, fentanyl, meperidine, methadone, or other opioids
- tryptophan
- buspirone
- amphetamines
- St. John's Wort
- medicines that can affect blood clotting such as aspirin, nonsteroidal anti-inflammatory drugs (NSAIDs) and warfarin
- diuretics
- methadone
- gatifloxacin or moxifloxacin
- medicines used to control your heart rate or rhythm (antiarrhythmics)
- medicines used to treat mood, anxiety, psychotic or thought disorders, including selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs)

Ask your healthcare provider if you are not sure if you are taking any of these medicines. Your healthcare provider can tell you if it is safe to take citalopram tablets with your other medicines.

Do not start or stop any other medicines during treatment with citalopram tablets without talking to your healthcare provider first. Stopping citalopram tablets suddenly may cause you to have serious side effects. See, **“What are the possible side effects of citalopram tablets?”**

Know the medicines you take. Keep a list of them to show to your healthcare provider and pharmacist when you get a new medicine.

**How should I take citalopram tablets?**

- Take citalopram tablets exactly as your healthcare provider tells you to take it. Do not

change your dose or stop taking citalopram tablets without first talking to your healthcare provider.

- Your healthcare provider may need to change the dose of citalopram tablets until it is the right dose for you.
- Take citalopram tablets 1 time each day with or without food.
- If you take too much citalopram tablets, call your healthcare provider or poison control center at 1-800-222-1222, or go to the nearest hospital emergency room right away.

## **What are the possible side effects of citalopram tablets?**

### **Citalopram tablets may cause serious side effects, including:**

- See, **“What is the most important information I should know about citalopram tablets?”**
- **Heart rhythm problems.** Citalopram tablets may cause a serious change in your heartbeat (a fast or irregular heartbeat) that may cause death. Tell your healthcare provider right away if you feel faint or pass out, or if you have a change in your heart beat.
- **Serotonin syndrome.** Taking citalopram tablets can cause a potentially life-threatening problem called serotonin syndrome. The risk of developing serotonin syndrome is increased when citalopram tablets is taken with certain other medicines. See, **“Who should not take citalopram tablets?”** **Call your healthcare provider or go to the nearest hospital emergency room right away** if you have any of the following signs and symptoms of serotonin syndrome:
  - agitation
  - confusion
  - fast heart beat
  - dizziness
  - flushing
  - tremors, stiff muscles, or muscle twitching
  - seizures
  - seeing or hearing things that are not real (hallucinations)
  - coma
  - blood pressure changes
  - sweating
  - high body temperature (hyperthermia)
  - loss of coordination
  - nausea, vomiting, diarrhea
- **Increased risk of bleeding.** Taking citalopram tablets with aspirin, non-steroidal anti-inflammatory drugs (NSAIDs), warfarin or blood thinners may add to this risk. Tell your healthcare provider right away about any unusual bleeding or bruising.
- **Manic episodes.** Manic episodes may happen in people with bipolar disorder who take citalopram tablets. Symptoms may include:
  - greatly increased energy
  - racing thoughts
  - unusually grand ideas
  - talking more or faster than usual
  - severe trouble sleeping

- reckless behavior
- excessive happiness or irritability
- **Discontinuation syndrome.** Suddenly stopping citalopram tablets may cause you to have serious side effects. Your healthcare provider may want to decrease your dose slowly. Symptoms may include:
  - nausea
  - changes in your mood
  - irritability and agitation
  - dizziness
  - electric shock sensation (paresthesia)
  - anxiety
  - confusion
  - sweating
  - headache
  - tiredness
  - problems sleeping
  - hypomania
  - ringing in your ears (tinnitus)
  - seizures
- **Seizures (convulsions).**
- **Eye problems (angle-closure glaucoma).** Many antidepressant medicines, including citalopram tablets, may cause a certain type of eye problem called angle-closure glaucoma. Call your healthcare provider if you have changes in your vision or eye pain.
- **Low sodium levels in your blood (hyponatremia).** Low sodium levels in your blood may be serious and may cause death. Elderly people may be at greater risk for this. Tell your healthcare provider right away if you develop any signs or symptoms of low sodium levels in your blood during treatment with citalopram tablets. Signs and symptoms of low sodium levels in your blood may include:
  - headache
  - memory changes
  - weakness and unsteadiness on your feet which can lead to falls
  - difficulty concentrating
  - confusion

**In severe or more sudden cases, signs and symptoms include:**

- hallucinations (seeing or hearing things that are not real)
- seizures
- stopping breathing
- fainting
- coma
- death
- **Sexual problems (dysfunction).** Taking selective serotonin reuptake inhibitors (SSRIs), including citalopram tablets, may cause sexual problems.

**Symptoms in males may include:**

- Delayed ejaculation or inability to have an ejaculation

- Decreased sex drive
- Problems getting or keeping an erection

**Symptoms in females may include:**

- Decreased sex drive
- Delayed orgasm or inability to have an orgasm

Talk to your healthcare provider if you develop any changes in your sexual function or if you have any questions or concerns about sexual problems during treatment with citalopram tablets. There may be treatments your healthcare provider can suggest.

**The most common side effect of citalopram tablets is delayed ejaculation.**

These are not all the possible side effects of citalopram tablets.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**How should I store citalopram tablets?**

- Store citalopram tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- **Keep citalopram tablets and all medicines out of the reach of children.**

**General information about the safe and effective use of citalopram tablets**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use citalopram tablets for a condition for which it was not prescribed. Do not give citalopram tablets to other people, even if they have the same symptoms that you have. It may harm them. You may ask your healthcare provider or pharmacist for information about citalopram tablets that is written for healthcare professionals.

**What are the ingredients in citalopram tablets?**

**Active ingredient:** citalopram hydrobromide

**Inactive ingredients:** copovidone, corn starch, croscarmellose sodium, lactose monohydrate, magnesium stearate, hypromellose, microcrystalline cellulose, polyethylene glycol, and titanium dioxide. Iron oxides are used as coloring agents in the peach (10 mg) and light pink (20 mg) tablets.

The brands listed are trademarks of their respective owners and are not trademarks of the Aurobindo Pharma Limited.

Manufactured by:  
Aurobindo Pharma Limited  
Hyderabad-500 090, India

Manufactured for:  
Quallent Pharmaceuticals Health LLC  
Grand Cayman, Cayman Islands

M.L.No.: 19/HD/AP/95/F/R

For more information about citalopram tablets call 1-877-605-7243.

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

Revised: 06/2024

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 10 mg (500 Tablets Bottle)**  
**500 Tablets** NDC 82009-106-05

**Citalopram Tablets, USP**  
**Rx only** **10 mg**

**PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY**

**Quallent**  
Pharmaceuticals<sup>SM</sup>

**Each tablet contains:**  
Citalopram hydrobromide USP equivalent to  
10 mg citalopram base.

Keep this and all drugs out of the reach of  
children.

See package insert for full prescribing  
information.

**Dispense** in tight container as described in  
the USP.

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

Issued: 03/2023

**500 Tablets** NDC 82009-106-05

**Citalopram Tablets, USP**

**Rx only**

**10 mg**

**PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY**

**Quallent**  
Pharmaceuticals<sup>SM</sup>

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Grand Cayman, Cayman Islands

M.L.No.: 19/HD/AP/95/F/R



P1432519

\*

\*GTIN, Serial Number, Expiry Date  
and LOT in human readable along with  
2D will be printed during packing as below.



GTIN XXXXXXXXXXXXX  
S N XXXXXXXXXXXXX  
EXP YYYY-MMM  
LOT XXXXXXXXXXXX

**Coding Area**  
(45 x 15 mm)

Dotted line not to be printed

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 20 mg (500 Tablets Bottle)**  
**500 Tablets** NDC 82009-107-05

**Citalopram Tablets, USP**  
**Rx only** **20 mg**

**PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY**

**Quallent**  
Pharmaceuticals<sup>SM</sup>

**Each tablet contains:**

Citalopram hydrobromide USP  
equivalent to 20 mg citalopram base.

Keep this and all drugs out of the reach  
of children.

See package insert for full prescribing  
information.

**Dispense** in tight container as described  
in the USP.

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

Issued: 03/2023

500 Tablets    NDC 82009-107-05

**Citalopram Tablets, USP**

**Rx only**

**20 mg**

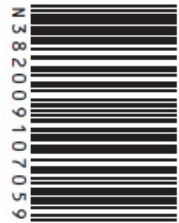
**PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY**

**Quallent**  
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Manufactured for:  
Quallent Pharmaceuticals Health LLC  
Grand Cayman, Cayman Islands

M.L.No.: 19/HD/AP/95/F/R



P1432520



**\*GTIN, Serial Number, Expiry Date  
and LOT in human readable along with  
2D will be printed during packing as below.**

**Coding Area**  
(45 x 15 mm)  
Dotted line not to be printed



GTIN XXXXXXXXXXXXXXXX  
S N XXXXXXXXXXXXXXXX  
EXP YYYY-MMM  
LOT XXXXXXXXXXXXXXXX

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 40 mg (500 Tablets Bottle)**

**500 Tablets**

NDC 82009-108-05

**Citalopram Tablets, USP**

**Rx only**

**40 mg**

**PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY**

**Quallent**  
Pharmaceuticals<sup>SM</sup>

Each tablet contains:  
Citalopram hydrobromide USP  
equivalent to 40 mg citalopram base.

Keep this and all drugs out of the  
reach of children.

See package insert for full  
prescribing information.

Dispense in tight container as  
described in the USP.

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

Issued: 03/2023

500 Tablets NDC 82009-108-05

Citalopram Tablets, USP

Rx only

40 mg

PHARMACIST: PLEASE DISPENSE WITH  
MEDICATION GUIDE PROVIDED SEPARATELY

Quallent  
Pharmaceuticals<sup>SM</sup>

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Aurobindo Pharma Limited  
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Quallent Pharmaceuticals Health LLC  
Grand Cayman, Cayman Islands

M.L.No.: 19/HD/AP/95/F/R



P1432521



\*GTIN, Serial Number, Expiry Date  
and LOT in human readable along with  
2D will be printed during packing as below.

Coding Area  
(45 x 20 mm)

Dotted line not to be printed



GTIN XXXXXXXXXXXXX  
S N XXXXXXXXXXXXX  
EXP YYYY-MMM  
LOT XXXXXXXXX

## CITALOPRAM

citalopram hydrobromide tablet, film coated

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:82009-106
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
CITALOPRAM HYDROBROMIDE (UNII: I1E9D14F36) (CITALOPRAM - UNII:0DHU5B8D6V)	CITALOPRAM	10 mg

### Inactive Ingredients

Ingredient Name	Strength
COPOVIDONE K25-31 (UNII: D9C330MD8B)	
STARCH, CORN (UNII: O8232NY3S)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	

<b>POLYETHYLENE GLYCOL 400</b> (UNII: B697894SGQ)	
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)	
<b>FERRIC OXIDE RED</b> (UNII: 1K09F3G675)	
<b>FERRIC OXIDE YELLOW</b> (UNII: EX438O2MRT)	

### Product Characteristics

<b>Color</b>	ORANGE (Peach)	<b>Score</b>	no score
<b>Shape</b>	ROUND (Biconvex)	<b>Size</b>	5mm
<b>Flavor</b>		<b>Imprint Code</b>	A;05
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:82009-106-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	08/01/2023	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA077031	08/01/2023	

## CITALOPRAM

citalopram hydrobromide tablet, film coated

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:82009-107
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>CITALOPRAM HYDROBROMIDE</b> (UNII: I1E9D14F36) (CITALOPRAM - UNII:0DHU5B8D6V)	CITALOPRAM	20 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>COPOVIDONE K25-31</b> (UNII: D9C330MD8B)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>LACTOSE MONOHYDRATE</b> (UNII: EWQ57Q8I5X)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	



<b>HYPROMELLOSE 2910 (6 MPA.S)</b> (UNII: 0WZ8WG20P6)				
<b>MICROCRYSTALLINE CELLULOSE</b> (UNII: OP1R32D61U)				
<b>POLYETHYLENE GLYCOL 400</b> (UNII: B697894SGQ)				
<b>TITANIUM DIOXIDE</b> (UNII: 15FIX9V2JP)				
<b>FERRIC OXIDE RED</b> (UNII: 1K09F3G675)				
<b>FERRIC OXIDE YELLOW</b> (UNII: EX438O2MRT)				
<b>Product Characteristics</b>				
<b>Color</b>	PINK (Light Pink)		<b>Score</b>	2 pieces
<b>Shape</b>	CAPSULE (Biconvex)		<b>Size</b>	9mm
<b>Flavor</b>			<b>Imprint Code</b>	A;0;6
<b>Contains</b>				
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:82009-107-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	08/01/2023	
<b>Marketing Information</b>				
<b>Marketing Category</b>		<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
ANDA		ANDA077031	08/01/2023	

<b>CITALOPRAM</b>			
citalopram hydrobromide tablet, film coated			
<b>Product Information</b>			
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:82009-108
<b>Route of Administration</b>	ORAL		
<b>Active Ingredient/Active Moiety</b>			
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>
<b>CITALOPRAM HYDROBROMIDE</b> (UNII: I1E9D14F36) (CITALOPRAM - UNII:0DHU5B8D6V)		CITALOPRAM	40 mg
<b>Inactive Ingredients</b>			
<b>Ingredient Name</b>			<b>Strength</b>
<b>COPOVIDONE K25-31</b> (UNII: D9C330MD8B)			
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)			
<b>CROSCARMELLOSE SODIUM</b> (UNII: M28OL1HH48)			

LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70097M6I3O)				
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ 8WG20P6)				
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)				
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
Product Characteristics				
Color	WHITE		Score	2 pieces
Shape	CAPSULE (Biconvex)		Size	12mm
Flavor			Imprint Code	A;0;7
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:82009-108-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	08/01/2023	
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA077031	08/01/2023	

**Labeler** - QUALLENT PHARMACEUTICALS HEALTH LLC (815564528)

**Registrant** - Aurobindo Pharma Limited (650082092)

## Establishment

Name	Address	ID/FEI	Business Operations
Aurobindo Pharma Limited		918917642	ANALYSIS(82009-106, 82009-107, 82009-108) , MANUFACTURE(82009-106, 82009-107, 82009-108)

Revised: 7/2024

QUALLENT PHARMACEUTICALS HEALTH LLC