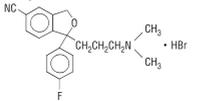


**Cilexax® (citalopram hydrobromide) Tablets/Oral Solution Rx Only**

**Suicidality in Children and Adolescents**  
Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Cilexax or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Cilexax is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use)

**Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with major depressive disorder (MDD), obsessive compulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials.**

**DESCRIPTION**  
Cilexax® (citalopram HBr) is an orally administered selective serotonin reuptake inhibitor (SSRI) with a chemical structure unrelated to that of other SSRIs or of tricyclic, tetracyclic, or other available antidepressant agents. Citalopram HBr is a racemic mixture of the enantiomers of the piperidine derivative designated (+)-1-(3-dimethylampropoxy)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile, HBr with the following structural formula:





### 3. You Should Watch for Certain Signs If Your Child is Taking an Antidepressant

Contact your child's healthcare provider **right away** if your child exhibits any of the following signs for the first time, or if they seem worse, or worry you, your child, or your child's teacher:

- Thoughts about suicide or dying
- Attempts to commit suicide
- New or worse depression
- New or worse anxiety
- Feeling very agitated or restless
- Panic attacks
- Difficulty sleeping (insomnia)
- New or worse irritability
- Acting aggressive, being angry, or violent
- Acting on dangerous impulses
- An extreme increase in activity and talking
- Other unusual changes in behavior or mood

Never let your child stop taking an antidepressant without first talking to his or her healthcare provider.

Stopping an antidepressant suddenly can cause other symptoms.

### 4. There are Benefits and Risks When Using Antidepressants

Antidepressants are used to treat depression and other illnesses. Depression and other illnesses can lead to suicide. In some children and teenagers, treatment with an antidepressant increases suicidal thinking or actions. It is important to discuss all the risks of treating depression and also the risks of not treating it. You and your child should discuss all treatment choices with your healthcare provider, not just the use of antidepressants.

Other side effects can occur with antidepressants (see section below).

Of all the antidepressants, only fluoxetine (Prozac™) has been FDA approved to treat pediatric depression.

For obsessive compulsive disorder in children and teenagers, FDA has approved only fluoxetine (Prozac™), sertraline (Zoloft™), fluvoxamine, and clomipramine (Anafranil™).

Your healthcare provider may suggest other antidepressants based on the past experience of your child or other family members.

### Is this all I need to know if my child is being prescribed an antidepressant?

No. This is a warning about the risk for suicidality. Other side effects can occur with antidepressants. Be sure to ask your healthcare provider to explain all the side effects of the particular drug he or she is prescribing. Also ask about drugs to avoid when taking an antidepressant. Ask your healthcare provider or pharmacist where to find more information.

\* Prozac® is a registered trademark of Eli Lilly and Company

\* Zoloft® is a registered trademark of Pfizer Pharmaceuticals

\* Anafranil® is a registered trademark of Mallinckrodt Inc.

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

and COBS WII strain rats for 18 and 24 months, respectively. There was no evidence for carcinogenicity of citalopram in mice receiving up to 240 mg/kg/day, which is equivalent to 20 times the maximum recommended human daily dose (MRHD) of 60 mg on a surface area (mg/m<sup>2</sup>) basis. There was an increased incidence of small intestine carcinoma in rats receiving 8 or 24 mg/kg/day doses which are approximately 1/3 and 4 times the MRHD, respectively, on a mg/m<sup>2</sup> basis. A no-effect dose for this finding was not established. The relevance of these findings to humans is unknown.

**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 a coupled *in vitro* 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**  
When citalopram was administered orally to 16 male and 24 female rats prior to and throughout mating and gestation at doses of 32, 48, and 72 mg/kg/day, mating was decreased at all doses, and fertility was decreased at doses  $\geq$  32 mg/kg/day, approximately 5 times the MRHD of 60 mg/day on a body surface area (mg/m<sup>2</sup>) basis. Gestation duration was increased at 48 mg/kg/day, approximately 8 times the MRHD.

**Pregnancy**  
**Pregnancy Category C**  
In animal reproduction studies, citalopram has been shown to have adverse effects on embryofetal and postnatal development, including teratogenic effects, when administered at doses greater than human therapeutic doses.

In two rat embryo/fetal development studies, oral administration of citalopram (32, 56, or 112 mg/kg/day) to pregnant animals during the period of organogenesis resulted in decreased embryofetal growth and survival and an increased incidence of fetal abnormalities (including cardiovascular and skeletal defects) at the high dose, which is approximately 18 times the MRHD of 60 mg/day on a body surface area (mg/m<sup>2</sup>) basis. This dose was also associated with maternal toxicity (clinical signs, decreased body weight gain). The developmental, no-effect dose of 56 mg/kg/day is approximately 9 times the MRHD on a mg/m<sup>2</sup> basis. In a rabbit study, no adverse effects on embryofetal development were observed at doses of up to 16 mg/kg/day, or approximately 5 times the MRHD on a mg/m<sup>2</sup> basis. Thus, teratogenic effects were observed at a maternally toxic dose in the rat and were not observed in the rabbit.

In female rats treated with citalopram (4.8, 12.8, or 32 mg/kg/day) from 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 on a mg/m<sup>2</sup> basis. The no-effect dose of 12.8 mg/kg/day is approximately 2 times the MRHD on a mg/m<sup>2</sup> basis. 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, approximately 4 times the MRHD on a mg/m<sup>2</sup> basis. A no-effect dose was not determined in that study.

There are no adequate and well-controlled studies in pregnant women. Therefore, citalopram should be used only if the potential benefit justifies the potential risk to the fetus.

**Pregnancy-Nonteratogenic Effects**  
Neonates exposed to Celexa and other SSRIs or SNRIs, late in the third trimester, have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. These complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (see **WARNINGS**).

When treating a pregnant woman with Celexa during the third trimester, the physician should carefully consider the potential risks and benefits of treatment (see **DOSEAGE AND ADMINISTRATION**).

#### Labor and Delivery

The effect of Celexa on labor and delivery in humans is unknown.

**Nursing Mothers**  
As has been found to occur with many other drugs, citalopram is present in human breast milk. Caution should be exercised when infants experiencing excessive somnolence, decreased feeding, and weight loss in association with breastfeeding from a citalopram-treated mother; in one case, the infant was reported to recover completely upon discontinuation of citalopram by its mother and in the second case, no follow-up information was available. The decision whether to continue or discontinue either nursing or Celexa therapy should take into account the risks of citalopram exposure for the infant and the benefits of Celexa treatment for the mother.

**Pediatric Use**  
Antidepressant effectiveness in the pediatric population has not been established (see **BOX WARNING** and **WARNINGS—Clinical Worsening and Suicide Risk**). Two placebo-controlled trials in 407 pediatric patients with MDD have been conducted with Celexa, and the data were not sufficient to support a claim for use in pediatric patients. Anyone considering the use of Celexa in a child or adolescent must balance the potential risks with the clinical need.

**Geriatric Use**  
Of 4422 patients in clinical studies of Celexa, 1357 were 60 and over, 1034 were 65 and over, and 457 were 75 and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Most elderly patients treated with Celexa in clinical trials received daily doses between 20 and 40 mg (see **DOSEAGE AND ADMINISTRATION**).

**ADVERSE REACTIONS**  
The premarketing development program for Celexa included citalopram exposures in patients and/or normal subjects from 3 different groups of studies: 423 normal subjects in clinical pharmacology/pharmacokinetic studies; 4422 exposures from patients

in controlled and uncontrolled clinical trials, corresponding to approximately 1370 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 Celexa 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 were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, ECGs, and results of ophthalmologic examinations.

Adverse events during exposure were obtained primarily by general inquiry and recording 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 events 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.

**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 pharmacologic treatment. In particular, some evidence suggests that SSRIs can cause such treatment-related sexual dysfunction.

Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, however, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance from baseline in these variables are likely to underestimate their actual incidence. The table below displays the incidence of sexual side effects reported by at least 2% of patients taking Celexa in a pool of placebo-controlled clinical trials in patients with depression.

Treatment	Celexa (425 males)	Placebo (194 males)
Abnormal Ejaculation (mostly ejaculatory delay)	6.1% (males only)	1.9% (males only)
Libido Decreased	3.8% (males only)	<1% (males only)
Impotence	2.8% (males only)	<1% (males only)

In female depressed patients receiving Celexa, the reported incidence of decreased libido and anorgasmia was 1.3% (n=638 females) and 1.1% (n=232 females), respectively.

There are no adequately designed studies examining sexual dysfunction with citalopram treatment. Priapism has been reported with all SSRIs.

While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely inquire about such possible side effects.

**Vital Sign Changes**  
Celexa and placebo groups were compared with respect to (1) mean change from baseline in vital signs (pulse, systolic blood pressure, and diastolic blood pressure) and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses did not reveal any clinically important changes in vital signs associated with Celexa treatment. In addition, a comparison of supine and standing vital sign measures for Celexa and placebo treatments indicated that Celexa treatment is not associated with orthostatic changes.

**Weight Changes**  
CELEXA. Change from baseline in various serum chemistry, hematology, and urinalysis variables in (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses revealed no clinically important changes in laboratory test parameters associated with Celexa treatment.

**ECG Changes from Celexa**  
Electrocardiograms from Celexa (N=802) and placebo (N=241) groups were compared with respect to (1) mean change from baseline in various ECG parameters, and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. The only statistically significant drug-placebo difference observed was a decrease in heart rate for Celexa of 1.7 bpm compared to no change in heart rate for placebo. There were no observed differences in QT or other ECG intervals.

**Other Events Observed During the Premarketing Evaluation of Celexa (citalopram HBr)**  
Following is a list of WHO terms that reflect treatment-emergent adverse events, as defined in the introduction to the **ADVERSE REACTIONS** section, reported by patients treated with Celexa at multiple doses in a range of 10 to 80 mg/day during any phase of a trial within the premarketing database of 4422 patients. All reported events from included events those already listed in Table 2 or elsewhere in labeling. Those events for which a drug cause was remote, those event terms which were so general as to be uninformative, and those occurring in only one patient. It is important to emphasize that, although the events reported occurred during treatment with Celexa, they were not necessarily caused by it. Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in less than 1/100 patients but at least 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients.

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

**Central and Peripheral Nervous System Disorders** - Frequent: paresthesia, migraine, infrequent: hyperkinesia, vertigo, hypotonia, extrapyramidal disorder, leg cramps, involuntary muscle contractions, hypokinesia, neuralgia, ataxia, abnormal gait, hyperreflexia, ataxia. Rare: abnormal coordination, hyperreflexia, spasm, stupor.

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

**Gastrointestinal Disorders** - Frequent: saliva increased, flatulence, infrequent: gastritis, gastroenteritis, stomatitis, eructation, hemoemesis, dysphagia, teeth grinding, gingivitis, esophagitis. Rare: colitis, gastric ulcer, cholelithiasis, cholelithiasis, acute fibrillation, gastroesophageal reflux, glossitis, jaundice, diverticulitis, rectal hemorrhage, hiccup.

'Events reported by at least 2% of patients treated with Celexa are reported, except for the following events which had an incidence of placebo: Celexa headache, asthenia, dizziness, constipation, palpitation, vision abnormal, sleep disorder, nervousness, pharyngitis, micturition disorder, back pain.

1 Denominator used was for females only (N=638 Celexa; N=252 placebo).  
2 Primarily ejaculatory delay.  
3 Denominator used was for males only (N=425 Celexa; N=194 placebo).

**Dose Dependence of Adverse Events**  
The potential relationship between the dose of Celexa administered and the incidence of adverse events was examined in a fixed-dose study in depressed patients receiving placebo or Celexa 10, 20, 40, and 60 mg. Joncheere's trend test revealed a positive dose response (p<0.05) for the following adverse events: fatigue, impotence, insomnia, sweating increased, 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 pharmacologic treatment. In particular, some evidence suggests that SSRIs can cause such treatment-related sexual dysfunction.

Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, however, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance from baseline in these variables are likely to underestimate their actual incidence. The table below displays the incidence of sexual side effects reported by at least 2% of patients taking Celexa in a pool of placebo-controlled clinical trials in patients with depression.

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**Central and Peripheral Nervous System Disorders** - Frequent: paresthesia, migraine, infrequent: hyperkinesia, vertigo, hypotonia, extrapyramidal disorder, leg cramps, involuntary muscle contractions, hypokinesia, neuralgia, ataxia, abnormal gait, hyperreflexia, ataxia. Rare: abnormal coordination, hyperreflexia, spasm, stupor.

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**Gastrointestinal Disorders** - Frequent: saliva increased, flatulence, infrequent: gastritis, gastroenteritis, stomatitis, eructation, hemoemesis, dysphagia, teeth grinding, gingivitis, esophagitis. Rare: colitis, gastric ulcer, cholelithiasis, cholelithiasis, acute fibrillation, gastroesophageal reflux, glossitis, jaundice, diverticulitis, rectal hemorrhage, hiccup.

**General** - Infrequent: hot flashes, 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: arthralgia, muscle weakness, skeletal pain. Rare: bursitis, osteoporosis.

**Psychiatric Disorders** - Frequent: increased concentration, amnesia, apathy, depression, increased appetite, aggravated depression, suicide attempt, confusion. Infrequent: increased libido, aggressive reaction, paranoia, 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, increased bronchitis, dyspnea, pneumonia. Rare: asthma, laryngitis, bronchospasm, pneumonitis, sputum increased.

**Skin and Appendages Disorders** - Frequent: rash, pruritus. Infrequent: photosensitivity reaction, urticaria, acne, skin discoloration, alopecia, alopecia areata, dry skin, dry eyes, hyperhidrosis, decreased sweating, melanosis, keratitis, cellulitis, pruritus ani.

**Special Senses** - Frequent: accommodation abnormal, 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.

**Other Events Observed During the Postmarketing Evaluation of Celexa (citalopram HBr)**  
It is estimated that over 30 million patients have been treated with Celexa since market introduction. Although no causal relationship to Celexa treatment has been found, the following adverse events have been reported to be temporally associated with Celexa treatment, but have not been described elsewhere in labeling: acute renal failure, akathisia, allergic reaction, anaphylaxis, angioedema, choreoathetosis, chest pain, delirium, dyskinesia, ecchymosis, epidermal necrolysis, erythema multiforme, gastrointestinal hemorrhage, grand mal convulsions, hemolytic anemia, hepatic necrosis, myocarditis, neuroleptic malignant syndrome, myasthenia, pancreatitis, priapism, prolatiduria, prothrombotic decreased, QT prolonged, rhabdomyolysis, serotonin syndrome, spontaneous abortion, thrombocytopenia, thrombosis, ventricular arrhythmia, torsades de pointes, and withdrawal syndrome.

**DRUG ABUSE AND DEPENDENCE**  
**Controlled Substance Class**  
Celexa (citalopram HBr) is not a controlled substance. **Physical and Psychological Dependence**  
Animal studies suggest that the abuse liability of Celexa is low. Celexa has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. The presence of tolerance and physical dependence was not observed in patients receiving Celexa. 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, physicians should carefully evaluate Celexa patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse (e.g., development of tolerance, increments of dose, drug-seeking behavior).

**OVERDOSSAGE**  
**Human Experience**  
In clinical trials of citalopram, there were reports of citalopram overdose, including overdoses of up to 2000 mg, with no associated fatalities. During the postmarketing evaluation of citalopram, Celexa overdoses, including overdoses of up to 6000 mg, have been reported. As with other SSRIs, a fatal outcome in a patient who has taken an overdose of citalopram has been rarely reported. Symptoms most often accompanying citalopram overdose are alone or in combination with other drugs and/or alcohol, included: dizziness, sweating, nausea, vomiting, tremor, somnolence, and sinus tachycardia. In more rare cases, observed symptoms included amnesia, confusion, coma, convulsions, hyperventilation, myoclonus, mydriasis, and ECG changes (including QTc prolongation, nodal rhythm, ventricular arrhythmia, and one possible case of torsades de pointes).

**Management of Overdose**  
Establish and maintain an airway to ensure adequate ventilation and oxygenation. Gastro evacuation by lavage and use of activated charcoal should be considered. Close observation and cardiac and vital sign monitoring are recommended, along with general symptomatic and supportive care. Due to the large volume of distribution of citalopram, forced diuresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. There are no specific antidotes for Celexa.

In managing overdose, consider the possibility of multiple-drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose and **ADMINISTRATION**

**Doseage**  
Celexa (citalopram HBr) should be administered at an initial dose of 20 mg once daily, generally with an increase to a dose of 40 mg/day. Dose increases should usually occur in increments of 20 mg at intervals of no less than one week. Although certain patients may require a dose of 60 mg/day, the only study performed in patients with depression who received doses up to 60 mg/day for the 60 mg/day dose over the 40 mg/day dose; doses above 40 mg are therefore not ordinarily recommended. Celexa should be administered once daily, in the morning or evening, with or without food.

**Populations**  
20 mg/day is the recommended dose for most elderly patients and patients with hepatic impairment, with titration to 40 mg/day only for nonresponding patients.

**PRECAUTIONS**  
When treating pregnant women with Celexa during the third trimester, the physician should carefully consider the potential risks and benefits of treatment. The physician may consider tapering Celexa in the third trimester.

**Maintenance Treatment**  
It is generally agreed that acute episodes of depression require several months or longer of sustained pharmacologic therapy. Systematic evaluation of Celexa in two studies has shown that its antidepressant efficacy is maintained for periods of up to 24 weeks following 6 or 8 weeks of initial treatment (32 weeks total). In one study, patients were assigned randomly to placebo or to the same dose of Celexa (20-60 mg/day) during maintenance treatment as they had received during the acute stabilization phase, while in the other study, patients were assigned randomly to continuation of Celexa 20 or 40 mg/day, or placebo, for maintenance treatment. In the latter study, the rates of relapse to depression were similar for the two dose groups (see **Clinical Trials under CLINICAL PHARMACOLOGY**). Based on these limited data, it is not known whether the dose of citalopram needed to maintain euthymia is identical to the dose needed to induce remission. If adverse reactions are bothersome, a decrease in dose to 20 mg/day can be considered.

**Discontinuation of Treatment with Celexa**  
Symptoms associated with discontinuation of Celexa and other SSRIs and SNRIs have been reported (see **PRECAUTIONS**). Patients should be monitored for these symptoms when discontinuing treatment. 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.

**Switching Patients To or From a Monoamine Oxidase Inhibitor**  
At least 14 days should elapse between discontinuation of an MAOI and initiation of Celexa therapy. Similarly, at least 14 days should be allowed after stopping Celexa before starting an MAOI (see **CONTRAINDICATIONS** and **WARNINGS**).

**HOW SUPPLIED**  
Tablets:  
10 mg Bottle of 100 NDC # 0456-4010-01  
Beige, oval, film-coated.  
Impriant on one side with "FP". Impriant on the other side with "10 mg".  
20 mg Bottle of 100 NDC # 0456-4020-01  
10 x 10 Unit Dose NDC # 0456-4020-03  
Pink, oval, scored, film-coated.  
Impriant on scored side with "FP" on the left side and "P" on the right side.  
Impriant on the non-scored side with "20 mg".  
40 mg Bottle of 100 NDC # 0456-4040-01  
10 x 10 Unit Dose NDC # 0456-4040-03  
White, oval, scored, film-coated.  
Impriant on scored side with "F" on the left side and "P" on the right side.  
Impriant on the non-scored side with "40 mg".

**Oral Solution:**  
100 mL Bottle of 100 mL NDC 0456-4130-08  
Store at 25°C (77°F); excursions permitted to 15°-30°C (59-86°F).

**ANIMAL TOXICOLOGY**  
**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 (13 times the maximum recommended daily human dose of 60 mg on a mg/m<sup>2</sup> basis). Similar findings were not present in rats receiving 24 mg/kg/day for two years, 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 (4, 20, and 10 times, respectively, the maximum recommended daily human dose on a mg/m<sup>2</sup> basis).

Additional studies to investigate the mechanism for this pathology have not been performed, and the potential significance of this central nervous system toxicity has not been established.

**Cardiovascular Changes in Dogs**  
In a one-year toxicology study, 5 of 10 beagle dogs receiving oral doses of 8 mg/kg/day (4 times the maximum recommended daily human dose of 60 mg on a mg/m<sup>2</sup> basis) died suddenly between weeks 17 and 31 following initiation of treatment. Although appropriate data from that study are not available to directly compare plasma levels of DCT, DCT, and DCTI similar to those observed in dogs at doses of 8 mg/kg/day. A subsequent intravenous dosing study demonstrated that in beagle dogs, DCT caused QT prolongation, a known risk factor for the observed outcome in dogs. This effect occurred in dogs at doses producing peak DCT plasma levels of 810 to 3250 nM (30-155 times the mean steady state DCT plasma level measured at the maximum recommended human daily dose of 60 mg). In dogs, peak DCT plasma concentrations are approximately equal to peak CT plasma concentrations, whereas in humans, steady state DCT plasma concentrations are less than 10% of steady state CT plasma concentrations. Assays of DCT plasma concentrations in 2000 citalopram-treated individuals demonstrated that DCT levels rarely exceeded 70 nM, the highest measured level of DCT in human overdose was 138 nM. While DCT is ordinarily present in humans at lower levels than in dogs, it is unknown whether there are individuals who may achieve higher DCT levels. The possibility that DCT, a principal metabolite in humans, may prolong the QT interval in dogs has not been directly examined because DCT is rapidly converted to DCTI in that species.

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Rev. 02/05  
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MG #13940(20)