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	: CIT-20 TABLETS : Citalopram Tablets BP 20 mg	2021
Module 1	Administrative Information and Product Information	
1.5	Product Information	Confidential

#### 1.5 PRODUCT INFORMATION

#### Prescribing information (Summary of products characteristics) 1.5.1

## **SUMMARY PRODUCT CHARACTERISTICS**

#### Name of drug product: 1.

**CIT-20 TABLETS** (Citalopram Tablets BP 20 mg)

#### 2. **Qualitative and Quantitative Composition:**

Each Film coated tablets contains: Citalopram Hydrobromide BP equivalent to Citalopram 20 mg

#### **3.** Pharmaceutical form:

White, circular, biconvex film coated tablets.

#### 4. Clinical particulars:

# 4.1 Therapeutic indications

Treatment of depressive illness in the initial phase and as maintenance against potential relapse/recurrence.

Cipramil/Citalopram is also indicated in the treatment of panic disorder with or without agoraphobia.

## 4.2 Posology and method of administration

## **Posology**

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#### MAJOR DEPRESSIVE EPISODES

#### Adults:

Citalopram should be administered as a single oral dose of 20 mg daily. Dependent on individual patient response, the dose may be increased to a maximum of 40 mg daily. In general, improvement in patients starts after one week, but may only become evident from the second week of therapy.

As with all antidepressant medicinal products, dosage should be reviewed and adjusted, if necessary, within 3 to 4 weeks of initiation of therapy and thereafter as judged clinically appropriate. Although there may be an increased potential for undesirable effects at higher doses, if after some weeks on the recommended dose insufficient response is seen, some patients may benefit from having their dose increased up to a maximum of 40 mg a day (see section 5.1). Dosage adjustments should be made carefully on an individual patient basis, to maintain the patient at the lowest effective dose.

Patients with depression should be treated for a sufficient period of at least 6 months to ensure that they are free from symptoms.

## **PANIC DISORDER**

#### Adults:

A single oral dose of 10 mg is recommended for the first week before increasing the dose to 20 mg daily. Dependent on individual patient response, the dose may be increased to a maximum of 40 mg daily.

Patients should be started on 10 mg/day and the dose gradually increased in 10 mg steps according to the patient's response up to the recommended dose. A low initial starting dose is recommended to minimise the potential worsening of panic symptoms, which is generally recognised to occur early in the treatment of this disorder. Although there may be an increased potential for undesirable effects at higher doses, if after some weeks on the recommended dose insufficient response is seen some patients may benefit from having their dose increased gradually up to a maximum of 40 mg/day (see section 5.1). Dosage adjustments should be made carefully on an individual patient basis, to maintain the patients at the lowest effective dose.

Patients with panic disorder should be treated for a sufficient period to ensure that they are free from symptoms. This period may be several months or even longer.

## Elderly patients (> 65 years of age)

For elderly patients the dose should be decreased to half of the recommended dose, e,g, 10-20 mg daily. The recommended maximum dose for the elderly is 20 mg daily.

## Children and adolescents (< 18 years of age)

Citalopram should not be used in the treatment of children and adolescents under the age of 18 years (see section 4.4).

## Reduced hepatic function





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## Reduced renal function

Dosage adjustment is not necessary in cases of mild or moderate renal impairment. No information is available in cases of severe renal impairment (creatinine clearance <20 mL/min).

## Poor metabolisers of CYP2C19

An initial dose of 10 mg daily during the first two weeks of treatment is recommended for patients who are known to be poor metabolisers with respect to CYP2C19. The dose may be increased to a maximum of 20 mg daily depending on individual patient response (see section 5.2).

## Withdrawal symptoms seen on discontinuation of citalogram

Abrupt discontinuation should be avoided. When stopping treatment with citalopram the dose should be gradually reduced over a period of at least one to two weeks in order to reduce the risk of withdrawal reactions (see section 4.4 Special Warnings and Precautions for Use and section 4.8 Undesirable Effects). 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.

#### Method of administration

Citalopram tablets are administered as a single daily dose. Citalopram tablets can be taken at any time of the day without regard to food intake.

## 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Monoamine Oxidase Inhibitors (MAOIs)

Some cases presented with features resembling serotonin syndrome.

Citalopram should not be given to patients receiving MAOIs, including selegiline, in daily doses exceeding 10 mg/day.

Citalopram should not be given for fourteen days after discontinuation of an irreversible MAOI or for the time specified after discontinuation of a reversible MAOI (RIMA) as stated in the prescribing text of the RIMA.

MAOIs should not be introduced for seven days after discontinuation of citalogram (see section 4.5).

Citalopram is contraindicated in combination with linezolid unless there are facilities for close observation and monitoring of blood pressure (see section 4.5).

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Tel.: 95250 - 2455801 / 2452714 / 2453525 • Fax: 95250 - 2452074 (0091 - 250 - 2452074) • Email: agog@vsnl.net & agogpharma@rediffmail.com
Citalopram is contraindicated in patients with known QT-interval prolongation or congenital

Citalopram is contraindicated together with medicinal products that are known to prolong the OT-interval (see section 4.5).

## 4.4 Special warnings and precautions for use

long QT syndrome.

## Suicide/suicidal thoughts or clinical worsening

Depression is associated with an increased risk of suicidal thoughts, self-harm and suicide (suicide-related events). This risk persists until significant remission occurs. As improvement may not occur during the first few weeks or more of treatment, patients should be closely monitored until such improvement occurs. It is general clinical experience that the risk of suicide may increase in the early stages of recovery.

Other psychiatric conditions for which Cipramil is prescribed can also be associated with an increased risk of suicide-related events. In addition, these conditions may be co-morbid with major depressive disorder. The same precautions observed when treating patients with major depressive disorder should therefore be observed when treating patients with other psychiatric disorders.

Patients with a history of suicide-related events, or those exhibiting a significant degree of suicidal ideation prior to commencement of treatment are known to be at greater risk of suicidal thoughts or suicide attempts, and should receive careful monitoring during treatment. A meta-analysis of placebo-controlled clinical trials of antidepressant drugs in adult patients with psychiatric disorders showed an increased risk of suicidal behaviour with antidepressants compared to placebo in patients less than 25 years old.

Close supervision of patients and in particular those at high risk should accompany drug therapy especially in early treatment and following dose changes. Patients (and caregivers of patients) should be alerted about the need to monitor for any clinical worsening, suicidal behaviour or thoughts and unusual changes in behaviour and to seek medical advice immediately if these symptoms present.

#### Use in children and adolescents under 18 years of age

Cipramil should not be used in the treatment of children and adolescents under the age of 18 years. Suicide-related behaviours (suicide attempt and suicidal thoughts) and hostility (predominantly aggression, oppositional behaviour and anger) were more frequently observed in clinical trials among children and adolescents treated with antidepressants compared to those treated with placebo. If, based on clinical need, a decision to treat is nevertheless taken; the patient should be carefully monitored for the appearance of suicidal symptoms.

In addition, long-term safety data in children and adolescents concerning growth, maturation and cognitive and behavioural development are lacking.

## **Elderly patients**

Caution should be used in the treatment of elderly patients (see section 4.2).

## Reduced kidney and liver function





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## Paradoxical anxiety

Some patients with panic disorder may experience intensified anxiety symptoms at the start of treatment with antidepressants. This paradoxical reaction usually subsides within the first two weeks of starting treatment. A low starting dose is advised to reduce the likelihood of a paradoxical anxiogenic effect (see section 4.2).

## **Hyponatraemia**

Hyponatraemia, probably due to inappropriate antidiuretic hormone secretion (SIADH), has been reported as a rare adverse reaction with the use of SSRIs and generally reverses on discontinuation of therapy. Elderly female patients seem to be at particularly high risk.

## Akathisia/psychomotor restlessness

The use of SSRIs/SNRIs has been associated with the development of akathisia, characterised by a subjectively unpleasant or distressing restlessness and need to move often accompanied by an inability to sit or stand still. This is most likely to occur within the first few weeks of treatment. In patients who develop these symptoms, increasing the dose may be detrimental.

## Mania

In patients with manic-depressive illness a change towards the manic phase may occur. Should the patient enter a manic phase citalopram should be discontinued.

#### Seizures

Seizures are a potential risk with antidepressant drugs. Citalopram should be discontinued in any patient who develops seizures. Citalopram should be avoided in patients with unstable epilepsy and patients with controlled epilepsy should be carefully monitored. Citalopram should be discontinued if there is an increase in seizure frequency.

### Diabetes

In patients with diabetes, treatment with an SSRI may alter glycaemic control. Insulin and/or oral hypoglycaemic dosage may need to be adjusted.

## Angle-closure Glaucoma

SSRIs including citalopram may have an effect on pupil size resulting in mydriasis. This mydriatic effect has the potential to narrow the eye angle resulting in increased intraocular pressure and angle-closure glaucoma, especially in patients pre-disposed. Citalopram should therefore be used with caution in patients with angle-closure glaucoma or history of glaucoma.

## Serotonin syndrome

In rare cases, serotonin syndrome has been reported in patients using SSRIs. A combination of symptoms such as agitation, tremor, myoclonus and hyperthermia may indicate the development of this condition (see section 4.5). Treatment with citalogram should be discontinued immediately and symptomatic treatment initiated.

## Serotonergic medicines





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## Haemorrhage

There have been reports of prolonged bleeding time and /or bleeding abnormalities such as ecchymoses, gynaecological haemorrhages, gastrointestinal bleeding and other cutaneous or mucous bleedings with SSRIs (see section 4.8). SSRIs/SNRIs may increase the risk of postpartum haemorrhage (see sections 4.6, 4.8). Caution is advised in patients taking SSRIs, particularly with concomitant use of active substances known to affect platelet function or other active substances that can increase the risk of haemorrhage, as well as in patients with a history of bleeding disorders (see section 4.5).

## **ECT** (electroconvulsive therapy)

There is limited clinical experience of concurrent administration of SSRIs and ECT; therefore caution is advisable.

### Reversible, selective MAO-A inhibitors

For information on concomitant treatment with non-selective, irreversible MAO-inhibitors see section 4.5.

## St. John's wort

Undesirable effects may be more common during concomitant use of citalopram and herbal preparations containing St John's wort (*Hypericum perforatum*). Therefore citalopram and St John's wort preparations should not be taken concomitantly (see section 4.5).

## Withdrawal symptoms seen on discontinuation of SSRI treatment

Withdrawal symptoms when treatment is discontinued are common, particularly if discontinuation is abrupt (see section 4.8 Undesirable effects). In a recurrence prevention clinical trial with citalogram, adverse events after discontinuation of active treatment were seen in 40% patients versus 20% in patients continuing citalogram.

The risk of withdrawal symptoms may be dependent on several factors including the duration and dose of therapy and the rate of dose reduction. Dizziness, sensory disturbances (including paraesthesia), sleep disturbances (including insomnia and intense dreams), agitation or anxiety, nausea and/or vomiting, tremor, confusion, sweating, headache, diarrhoea, palpitations, emotional instability, irritability, and visual disturbances are the most commonly reported reactions. Generally these symptoms are mild to moderate, however, in some patients they may be severe in intensity. They usually occur within the first few days of discontinuing treatment, but there have been very rare reports of such symptoms in patients who have inadvertently missed a dose. Generally these symptoms are self-limiting and usually resolve within 2 weeks, though in some individuals they may be prolonged (2-3 months or more). It is therefore advised that citalopram should be gradually tapered when discontinuing treatment over a period of several weeks or months, according to the patient's needs (see "Withdrawal symptoms seen on discontinuation of citalopram", Section 4.2)

## Sexual dysfunction

Selective serotonin reuptake inhibitors (SSRIs/serotonin norepinephrine reuptake inhibitors (SNRIs) may cause symptoms of sexual dysfunction (see section 4.8). There have been





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### **Psychosis**

Treatment of psychotic patients with depressive episodes may increase psychotic symptoms.

## QT-interval prolongation

Citalopram has been found to cause a dose-dependent prolongation of the QT-interval. Cases of QT interval prolongation and ventricular arrhythmia including torsade de pointes have been reported during the post-marketing period, predominantly in patients of female gender, with hypokalaemia, or with pre-existing QT prolongation or other cardiac diseases (see sections 4.3, 4.5, 4.8, 4.9 and 5.1).

Caution is advised in patients with significant bradycardia; or in patients with recent acute myocardial infarction or uncompensated heart failure.

Electrolyte disturbances such as hypokalaemia and hypomagnesaemia increase the risk for malignant arrhythmias and should be corrected before treatment with citalogram is started.

If patients with stable cardiac disease are treated, an ECG review should be considered before treatment is started.

ECG monitoring may be advisable in case of overdose or conditions of altered metabolism with increased peak levels, e.g. liver impairment.

If signs of cardiac arrhythmia occur during treatment with citalopram, the treatment should be withdrawn and an ECG should be performed.

#### **Excipients**

## Information about sodium content

This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

The tablets contain lactose monohydrate. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

## 4.5 Interaction with other medicinal products and other forms of interaction

## Pharmacodynamic interactions

At the pharmacodynamic level cases of serotonin syndrome with citalopram and moclobemide and buspirone have been reported.

## Contraindicated combinations

#### MAO-inhibitors

The simultaneous use of citalopram and MAO-inhibitors can result in severe undesirable effects, including serotonin syndrome (see section 4.3).





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Some cases presented with features resembling serotonin syndrome. Symptoms of an active substance interaction with a MAOI include: agitation, tremor, myoclonus, and hyperthermia.

## QT interval prolongation

Pharmacokinetic and pharmacodynamic studies between citalopram and other medicinal products that prolong the QT interval have not been performed. An additive effect of citalopram and these medicinal products cannot be excluded. Therefore, co-administration of citalopram with medicinal products that prolong the QT interval, such as Class IA and III antiarrhythmics, antipsychotics (e.g. phenothiazine derivatives, pimozide, haloperidol), tricyclic antidepressants, certain antimicrobial agents (e.g. sparfloxacin, moxifloxacin, erythromycin IV, pentamidine, anti-malarial treatment particularly halofantrine), certain antihistamines (astemizole, mizolastine) etc., is contraindicated.

#### Pimozide

Co-administration of a single dose of pimozide 2 mg to subjects treated with racemic citalopram 40 mg/day for 11 days caused an increase in AUC and Cmax of pimozide, although not consistently throughout the study. The co-administration of pimozide and citalopram resulted in a mean increase in the QTc interval of approximately 10 msec. Due to the interaction noted at a low dose of pimozide, concomitant administration of citalopram and pimozide is contraindicated.

## Combinations requiring precaution for use

Selegiline (selective MAO-B inhibitor)

A pharmacokinetic / pharmacodynamic interaction study with concomitantly administered citalopram (20 mg daily) and selegiline (10 mg daily) (a selective MAO B inhibitor) demonstrated no clinically relevant interactions. The concomitant use of citalopram and selegiline (in doses above 10 mg daily) is contraindicated.

Serotonergic medicinal products

## Lithium and tryptophan

No pharmacodynamic interactions have been found in clinical studies in which citalopram has been given concomitantly with lithium. However there have been reports of enhanced effects when SSRIs have been given with lithium or tryptophan and therefore the concomitant use of citalopram with these medicinal products should be undertaken with caution. Routine monitoring of lithium levels should be continued as usual.

Co-administration with serotonergic medicinal products (e.g. tramadol, sumatriptan) may lead to enhancement of 5-HT associated effects.

Until further information is available, the simultaneous use of citalopram and 5-HT agonists, such as sumatriptan and other triptans, is not recommended (see section 4.4).

St. John's wort





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## Haemorrhage

Caution is warranted for patients who are being treated simultaneously with anticoagulants, medicinal products that affect the platelet function, such as non-steroidal anti-inflammatory drugs (NSAIDs), acetylsalicylic acid, dipyridamole, and ticlopidine or other medicines (e.g. atypical antipsychotics) that can increase the risk of haemorrhage (see section 4.4).

## ECT (electroconvusive therapy)

There are no clinical studies establishing the risks or benefits of the combined use of electroconvulsive therapy (ECT) and citalopram (see section 4.4).

#### Alcohol

No pharmacodynamic or pharmacokinetic interactions have been demonstrated between citalopram and alcohol. However, the combination of citalopram and alcohol is not advisable.

## Medicinal products inducing hypokalaemia/hypomagnesaemia

Caution is warranted for concomitant use of hypokalaemia- / hypomagnesaemia-inducing medicinal products as these conditions increase the risk of malignant arrhythmias.

## Medicinal products lowering the seizure threshold

SSRIs can lower the seizure threshold. Caution is advised when concomitantly using other medicinal products capable of lowering the seizure threshold (e.g. antidepressants [SSRIs], neuroleptics [thioxanthenes and butyrophenones]), mefloquine, bupropion and tramadol).

## Pharmacokinetic interactions

Biotransformation of citalopram to demethylcitalopram is mediated by CYP2C19 (approx. 38%), CYP3A4 (approx. 31%) and CYP2D6 (approx. 31%) isozymes of the cytochrome P450 system. The fact that citalopram is metabolised by more than one CYP means that inhibition of its biotransformation is less likely as inhibition of one enzyme may be compensated by another. Therefore co-administration of citalopram with other medicinal products in clinical practice has very low likelihood of producing pharmacokinetic medicinal product interactions.

#### Food

The absorption and other pharmacokinetic properties of citalopram have not been reported to be affected by food.

## Effect of other medicinal products on the pharmacokinetics of citalogram

Co-administration with ketoconazole (potent CYP3A4 inhibitor) did not change the pharmacokinetics of citalopram.

A pharmacokinetic interaction study of lithium and citalopram did not reveal any pharmacokinetic interactions (see also above).

### Cimetidine





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Co-administration of escitalopram (the active enantiomer of citalopram) with omeprazole 30 mg once daily (a CYP2C19 inhibitor) resulted in moderate (approximately 50%) increase in the plasma concentrations of escitalopram.

Thus, caution should be exercised when used concomitantly with CYP2C19 inhibitors (e.g. omeprazole, esomeprazole, fluconazole, fluvoxamine, lansoprazole, ticlopidine) or cimetidine. A reduction in the dose of citalopram may be necessary based on monitoring of side- effects during concomitant treatment (see section 4.4).

## **Metoprolol**

Escitalopram (the active enantiomer of citalopram) is an inhibitor of the enzyme CYP2D6. Caution is recommended when citalopram is co-administered with medicinal products that are mainly metabolised by this enzyme, and that have a narrow therapeutic index, e.g. flecainide, propafenone and metoprolol (when used in cardiac failure), or some CNS acting medicinal products that are mainly metabolised by CYP2D6, e.g. antidepressants such as desipramine, clomipramine and nortriptyline or antipsychotics like risperidone, thioridazine and haloperidol. Dosage adjustment may be warranted. Co-administration with metoprolol resulted in a twofold increase in the plasma levels of metoprolol, but did not statistically significant increase the effect of metoprolol on the blood pressure and cardiac rhythm.

## Effects of citalogram on other medicinal products

A pharmacokinetic / pharmacodynamic interaction study with concomitant administration of citalopram and metoprolol (a CYP2D6 substrate) showed a twofold increase in metoprolol concentrations, but no statistically significant increase in the effect of metoprolol on blood pressure and heart rate in healthy volunteers.

Citalopram and demethylcitalopram are negligible inhibitors of CYP2C9, CYP2E1 and CYP3A4, and only weak inhibitors of CYP1A2, CYP2C19 and CYP2D6 as compared to other SSRIs established as significant inhibitors.

## Levomepromazine, digoxin, carbamazepine

No change or only very small changes of clinical importance were observed when citalopram was given with CYP1A2 substrates (clozapine and theophylline), CYP2C9 (warfarin), CYP2C19 (imipramine and mephenytoin), CYP2D6 (sparteine, imipramine, amitriptyline, risperidone) and CYP3A4 (warfarin, carbamazepine (and its metabolite carbamazepine epoxid) and triazolam).

No pharmacokinetic interaction was observed between citalopram and levomepromazine, or digoxin, (indicating that citalopram neither induces nor inhibits P-glycoprotein).

#### Desipramine, imipramine

In a pharmacokinetic study no effect was demonstrated on either citalopram or imipramine levels, although the level of desipramine, the primary metabolite of imipramine was increased. When desipramine is combined with citalopram, an increase of the desipramine plasma concentration has been observed. A reduction of the desipramine dose may be needed.

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## 4.6 Fertility, pregnancy and lactation

## **Pregnancy**

Published data on pregnant women (more than 2500 exposed outcomes) indicate no malformative foeto / neonatal toxicity, however, citalopram should not be used during pregnancy unless clearly necessary and only after careful consideration of risk/benefit.

Neonates should be observed if maternal use of citalopram continues into the later stages of pregnancy, particular in the third trimester. Abrupt discontinuation should be avoided during pregnancy.

The following symptoms may occur in the neonates after maternal SSRI/SNRI use in later stages of pregnancy: respiratory distress, cyanosis, apnoea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycaemia, hypertonia, hypotonia, hyperreflexia, tremor, jitteriness, irritability, lethargy, constant crying, somnolence and difficulty sleeping. These symptoms could be due to either serotonergic effects or discontinuation symptoms. In a majority of instances the complications begin immediately or soon (<24 hours) after delivery.

Epidemiological data have suggested that the use of SSRIs in pregnancy, particularly in late pregnancy, may increase the risk of persistent pulmonary hypertension in the newborn (PPHN). The observed risk was approximately 5 cases per 1000 pregnancies. In the general population 1 to 2 cases of PPHN per 1000 pregnancies occur.

Observational data indicate an increased risk (less than 2-fold) of postpartum haemorrhage following SSRI/SNRI exposure within the month prior to birth (see sections 4.4, 4.8).

## **Breast-feeding**

Citalopram is excreted into breast milk. It is estimated that the suckling infant will receive about 5% of the weight related maternal daily dose (in mg/kg). No or only minor events have been observed in the infants. However, the existing information is insufficient for assessment of the risk to the child.

Caution is recommended. If treatment with citalopram is considered necessary, discontinuation of breast feeding should be considered.

## **Fertility**

Animal data have shown that citalogram may affect sperm quality (see section 5.3).

Human case reports with some SSRIs have shown that an effect on sperm quality is reversible.

Impact on human fertility has not been observed so far.

## 4.7 Effects on ability to drive and use machines

Citalopram has minor or moderate influence on the ability to drive and use machines.

Patients who are prescribed psychotropic medication may be expected to have some impairment of general attention and concentration due to the illness itself and psychoactive medicinal products can reduce the ability to make judgements and to react to emergencies.





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#### 4.8 Undesirable effects

Adverse effects observed with citalopram are in general mild and transient. They are most frequent during the first one or two weeks of treatment and usually attenuate subsequently. The adverse reactions are presented at the MedDRA Preferred Term Level.

For the following reactions a dose-response was discovered: Sweating increased, dry mouth, insomnia, somnolence, diarrhoea, nausea and fatigue.

The table shows the percentage of adverse drug reactions associated with SSRIs and/or citalopram seen in either  $\geq 1\%$  of patients in double-blind placebo-controlled trials or in the post-marketing period. Frequencies are defined as: very common ( $\geq 1/10$ ); common ( $\geq 1/100$ ) to <1/10); uncommon ( $\geq 1/1000$ ) to <1/100); rare ( $\geq 1/10000$ ) to <1/1000); very rare (<1/10000), not known (cannot be estimated from the available data).

System organ class	Frequency	Undesirable effect
Blood and lymphatic disorders	Not known	Thrombocytopenia
Immune system disorders	Not known	Hypersensitivity, anaphylactic reaction
Endocrine disorders	Not known	Inappropriate ADH secretion
	Common	Appetite decreased, weight decreased
Metabolism and nutrition	Uncommon	Increased appetite, weight increased
disorders	Rare	Hyponatraemia
	Not known	Hypokalaemia
	Very common	Sleep disorder
Psychiatric disorders	Common	Agitation, libido decreased, anxiety, nervousness, confusional state, abnormal orgasm (female), abnormal dreams, apathy
rsychiatric disorders	Uncommon	Aggression, depersonalisation, hallucination, mania, libido increased
	Not known	Panic attack, bruxism, restlessness, suicidal ideation, suicidal behaviour <sup>1</sup>
	Very common	Somnolence, insomnia, headache
	Common	Tremor, paraesthesia, dizziness, disturbance in attention, migraine, amnesia
	Uncommon	Syncope
Nervous system disorders	Rare	Convulsion grand mal, dyskinesia, taste disturbance
	Not known	Convulsions, serotonin syndrome, extrapyramidal disorder, akathisia, movement disorder



# AGOG Pharma Ltd.





(WHO - GMP CERTIFIED - GOVT RECOGNISED EXPORT HOUSE)

Regd. Office & Factory: Plot No. 33, Sector II, The Vasai Taluka Industrial Co-op. Estate Ltd. Gauraipada, Vasai (E), Dist. Thane - 401 208. INDIA.
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Eye disorders	Uncommon	Mydriasis (which may lead to acute narrow angle glaucoma), see section 4.4 Special warnings and precautions for use
	Not known	Visual disturbance
Ear and labyrinth disorders	Common	Tinnitus
	Common	Palpitations
Cardiac disorders	Uncommon	Bradycardia, tachycardia
Cardiac disorders	Not known	QT-prolongation, ventricular arrhythmia including torsade de pointes
<b>T</b> 7 1 1' 1	Rare	Haemorrhage
Vascular disorders	Not known	Orthostatic hypotension
	Common	Yawning, rhinitis
Respiratory thoracic and mediastinal disorders	Rare	Coughing
mediastinai disorders	Not known	Epistaxis
	Very common	Dry mouth, nausea
Gastrointestinal disorders	Common	Diarrhoea, vomiting, constipation, dyspepsia, abdominal pain, flatulence, salivary hypersecretion
	Not known	Gastrointestinal haemorrhage (including rectal haemorrhage)
TT 4 1 '1' 1' 1	Rare	Hepatitis
Hepatobiliary disorders	Not known	Liver function test abnormal
	Very common	Sweating increased
C1: 1 1 4 4'	Common	Pruritus
Skin and subcutaneous tissue disorders	Uncommon	Urticaria, alopecia, rash, purpura, photosensitivity reaction
	Not known	Ecchymosis, angioedemas
Musculoskeletal and, connective tissue disorders	Common	Myalgia, arthralgia
Renal and urinary disorders	Uncommon	Urinary retention
	Common	Impotence, ejaculation disorder, ejaculation failure
Reproductive system and	Uncommon	Female: Menorrhagia
breast disorders		Female: Metrorrhagia, postpartum
	Not known	haemorrhage <sup>2)</sup> Male: Priapism Galactorrhoea
	Not known  Very common	Male: Priapism
General disorders and		Male: Priapism Galactorrhoea
General disorders and administration site conditions	Very common	Male: Priapism Galactorrhoea Asthenia





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Number of patients: citalogram / placebo = 1346 / 545

- <sup>1</sup> Cases of suicidal ideation and suicidal behaviors have been reported during citalopram therapy or early after treatment discontinuation (see section 4.4).
- <sup>2)</sup> This event has been reported for the therapeutic class of SSRIs/SNRIs (see sections 4.4 and 4.6).

Cases of QT-prolongation and ventricular arrhythmia including torsade de pointes have been reported during the post-marketing period, predominantly in patients of female gender, with hypokalaemia, or with pre-existing QT prolongation or other cardiac diseases (see sections 4.3, 4.4, 4.5, 4.9 and 5.1).

## Class effects

Epidemiological studies, mainly conducted in patients 50 years of age and older, show an increased risk of bone fractures in patients receiving SSRIs and TCAs. The mechanism leading to this risk is unknown.

## Withdrawal symptoms seen on discontinuation of SSRI treatment.

Discontinuation of citalopram (particularly when abrupt) commonly leads to withdrawal symptoms. Dizziness, sensory disturbances (including paraesthesia), sleep disturbances (including insomnia and intense dreams), agitation or anxiety, nausea and/or vomiting, tremor, confusion, sweating, headache, diarrhoea, palpitations, emotional instability, irritability, and visual disturbances are the most commonly reported reactions. Generally these events are mild to moderate and are self-limiting, however, in some patients they may be severe and/or prolonged. It is therefore advised that when citalopram treatment is no longer required, gradual discontinuation by dose tapering should be carried out (see section 4.2 and section 4.4).

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Yellow Card Scheme at: www.mhra.gov.uk/yellowcard

#### 4.9 Overdose

#### **Toxicity**

Comprehensive clinical data on citalopram overdose are limited and many cases involve concomitant overdoses of other drugs/alcohol. Fatal cases of citalopram overdose have been reported with citalopram alone; however, the majority of fatal cases have involved overdose with concomitant medications.

Fatal dose is not known. Patients have survived ingestion of more than 2 g citalogram.

The effects may be potentiated by alcohol taken at the same time.

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## **Symptoms**

The following symptoms have been seen in reported overdose of citalopram: convulsion, tachycardia, somnolence, QT prolongation, coma, vomiting, tremor, hypotension, cardiac arrest, nausea, serotonin syndrome, agitation, bradycardia, dizziness, bundle branch block, QRS prolongation, hypertension, mydriasis, torsade de pointes, stupor, sweating, cyanosis, hyperventilation, hyperpyrexia, and atrial and ventricular arrhythmia.

ECG changes including nodal rhythm, prolonged QT intervals and wide QRS complexes may occur. Fatalities have been reported.

Prolonged bradycardia with severe hypotension and syncope has also been reported.

Rarely, features of the "serotonin syndrome" may occur in severe poisoning. This includes alteration of mental status, neuromuscular hyperactivity and autonomic instability. There may be hyperpyrexia and elevation of serum creatine kinase. Rhabdomyolysis is rare.

## **Treatment**

There is no known specific antidote to citalopram.

Treatment should be symptomatic and supportive and include the maintenance of a clear airway and monitoring of ECG and vital signs until stable. ECG monitoring is advisable in case of overdose in patients with congestive heart failure/bradyarrhythmias, in patients using concomitant medications that prolong the QT interval, or in patients with altered metabolism, e.g. liver impairment.

Consider oral activated charcoal in adults and children who have ingested more than 5 mg/kg body weight within 1 hour. Activated charcoal given ½ hour after ingestion of citalopram has been shown to reduce absorption by 50%.

Osmotically working laxative (such as sodium sulphate) and stomach evacuation should be considered.

If consciousness is impaired the patient should be intubated.

Control convulsions with intravenous diazepam if they are frequent or prolonged.E

# 5. Pharmacological properties:

## 5.1 Pharmacodynamic properties:

Lithium Carbonate is a prescription medicine used to treat the symptoms of Bipolar Disorder. Lithium Carbonate may be used alone or with other medications.

Lithium Carbonate belongs to a class of drugs called Bipolar Disorder Agents. It is not known if Lithium Carbonate is safe and effective in children younger than 7 years of age.

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## **5.2** Pharmacokinetic Properties:

Preclinical studies have shown that lithium alters sodium transport in nerve and muscle cells and effects a shift toward intraneuronal metabolism of catecholamines, but the specific biochemical mechanism of lithium action in mania is unknown.

# 6. Pharmaceutical particulars:

## 6.1 List of Excipients:

Lactose	BP
Maize starch	BP
Sodium Starch Glycolate	BP
Colloidal silicon dioxide	BP
Methyl Paraben sodium	BP
Propyl Paraben sodium	BP
Magnesium stearate	BP
Purified talc	BP
Polyplasdone XL-10	USP
Cross Carmellose sodium	BP
Colour instacoat sol White 010	INH
Methylene Dichloride	BP
Iso Propyl alcohol	BP

## 6.2 Incompatibilities:

None Reported

## 6.3 Shelf-Life:

36 months from the date of manufacture.

## **6.4** Special Precautions for Storage:

Store in a cool, dry and dark place. Protect from light.

## 6.5 Nature and Contents of Container:

100 tablets packed in one jar. Such jar packed in export worthy shipper.





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## 6.5 Special precautions for disposal:

None reported.

# 7. Registrant: AGOG PHARMA LTD.

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# 8. Manufacturer: AGOG PHARMA LTD.

Plot No. 33, Sector II, The Vasai Taluka Industrial Co-Op. Estate Ltd., Gauraipada, Vasai (E), Dist. Thane, India.

## 9. Date of revision of the text: