HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use PAROXETINE TABLETS
safely and effectively. See full prescribing information for PAROXETINE TABLETS.
PAROXETINE TABLETS, for oral use Initial U.S. Approval: 1992

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS ill prescribing information for complete boxed warning. See full p

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. Paroxetine tablets are not approved for use in pediatric patients. (5.1, 8.4)

Warnings and Precautions (5.2, 5.5) 8/2023

Paroxetine tablets is a selective serotonin reuptake inhibitor (SSRI) indicated in adults for the treatment of (1):

- Major Depressive Disorder (MDD)
- Obsessive Compulsive Disorder (OCD)
 Panic Disorder (PD)

- Social Anxiety Disorder (SAD) Generalized Anxiety Disorder (GAD) Posttraumatic Stress Disorder (PTSD)

..... DOSAGE AND ADMINISTRATION ...

Recommended starting and maximum daily dosage for MDD, OCD, PD, and PTSD: (2.2)

Indication	Starting Daily Dose	Maximum Daily Dose
MDD	20 mg	50 mg
OCD	20 mg	60 mg
PD	10 mg	60 mg
PTSD	20 mg	50 mg

- Recommended starting dosage for SAD and GAD is 20 mg daily. (2.3) Elderly patients, patients with severe renal impairment or severe hepatic impairment: Starting dosage is 10 mg daily. (2.4)
- When discontinuing paroxetine tablets, reduce dosage gradually. (2.6, 5.7)

..... DOSAGE FORMS AND STRENGTHS

Extended-release tablets: 30 mg, scored tablets (3)

- CONTRAINDICATIONS
 Concomitant use of monoamine oxidase inhibitors (MAOIs) or use within 14 days of discontinuing a MAOI. (4, 5.3, 7)
- Concomitant use of pimozide or thioridazine. (4, 5.3, 7)

 Known hypersensitivity to paroxetine or to any of the inactive ingredients in paroxetine tablets. (4)

······ WARNINGS AND PRECAUTIONS ······

- Serotonin Syndrome: Increased risk when co-administered with other serotonergic agents, but also
 when taken alone. If occurs, discontinue paroxetine tablets and serotonergic agents and initiate
 supportive measures. (5.2)
- Embryofetal and Neonatal Toxicity: Can cause fetal and neonatal harm. Increased risk of cardiovascular malformations with exposure during the first trimester. Exposure in late pregnancy may lead to an increased risk for persistent pulmonary hypertension of the newborn. (5.4, 8.1)
 Increased Risk of Bleeding:Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, other antiplatelet drugs, warfarin, and other anticoagulant drugs may increase risk. (5.5)
 Activation of Mania/Hypomania: Screen patients for bipolar disorder. (5.6)
 Seizures: Use with caution in patients with seizure disorders. (5.8)

- Angle-Closure Glaucoma: Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.9)
 Sexual Dysfunction: Paroxetine may cause symptoms of sexual dysfunction. (5.13)

... ADVERSE REACTIONS ...

Most common adverse reactions (≥5% and at least twice placebo) are abnormal ejaculation, asthenia, constipation, decreased appetite, diarrhea, dizziness, dry mouth, female genital disorder, impotence, infection, insomnia, libido decreased, male genital disorder, nausea, nervousness,

Somnolence, sweating, tremor, yawn. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Apotex Corp. at 1-800-706-5575 or FDA
at 1-800-FDA-1088 or www.fda.gov/medwatch
DRUG INTERACTIONS

- Drugs Highly Bound to Plasma Protein:Monitor for adverse reactions and reduce dosage of paroxetine or other protein-bound drugs (e.g., warfarin) as warranted. (7)
 Drugs Metabolized by CYP2D6.Reduce dosage of drugs metabolized by CYP2D6 as warranted. (7)
 Concomitant use with tamoxifen: Consider use of an alternative antidepressant with little or no CYP2D6 inhibition. (5.11, 7)

- USE IN SPECIFIC POPULATIONS

 Pregnancy: Can cause fetal and neonatal harm. Advise women of potential risk to the fetus. (8.1)

 Nursing Mothers: Discontinue drug or nursing, taking into consideration importance of drug to mother. (8.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2023

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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)]. Paroxetine tablets are not approved for use in pediatric patients[see Use in Specific Populations (8.4)].

1 INDICATIONS AND USAGE

Paroxetine tablets are indicated in adults for the treatment of:

- Major depressive disorder (MDD)
- Obsessive compulsive disorder (OCD)
- Panic disorder (PD)
- Social anxiety disorder (SAD)
- Generalized anxiety disorder (GAD)
- Posttraumatic stress disorder (PTSD)

2 DOSAGE AND ADMINISTRATION

2.1 Administration Information

tablets as a single daily dose in the morning, with or without food.

2.2 Recommended Dosage for MDD, OCD, PD, and PTSD

The recommended starting dosages and maximum dosages of paroxetine tablets in patients with MDD, OCD, PD, and PTSD are presented in Table 1. In patients with an inadequate response, increase dosage in increments of 10 mg per day at intervals of at least 1 week, depending on tolerability.

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

Indication	Starting Dose	Maximum Dose
MDD	20 mg	50 mg
OCD	20 mg	60 mg
PD	10 mg	60 mg
PTSD	20 mg	50 mg

2.3 Recommended Dosage for SAD and GAD

The starting and recommended dosage in patients with SAD is 20 mg daily. In clinical trials the effectiveness of paroxetine was demonstrated in patients dosed in a range of 20 mg to 60 mg daily. While the safety of paroxetine has been evaluated in patients with SAD at doses up to 60 mg daily, available information does not suggest any additional benefit for doses above 20 mg daily [see Clinical Studies (14.4)].

The starting and recommended dosage in patients with GAD is 20 mg daily. In clinical trials the effectiveness of paroxetine in GAD was demonstrated in patients dosed in a range of 20 mg to 50

mg daily. There is not sufficient evidence to suggest a greater benefit to doses higher than 20 mg daily [see Clinical Studies (14.5)]. In patients with an

inadequate response, increase dosage in increments of 10 mg per day at intervals of at least 1 week, depending on tolerability.

2.4 Screen for Bipolar Disorder Prior to Starting Paroxetine Tablets

Prior to initiating treatment with paroxetine tablets or another antidepressant, screen patients for a personal or family history of bipolar disorder, mania, or hypomania [see Warnings and Precautions (5.6)].

2.5 Recommended Dosage for Elderly Patients, Patients with Severe Renal Impairment, and Patients with Severe Hepatic Impairment

The recommended initial dosage is 10 mg per day for elderly patients, patients with severe renal impairment, and patients with severe hepatic impairment. Dosage should not exceed 40 mg/day.

2.6 Switching Patients to or From a Monoamine Oxidase Inhibitor (MAOI)

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

2.7 Discontinuation of Treatment with Paroxetine Tablets

Adverse reactions may occur upon discontinuation of paroxetine tablets [see Warnings and Precautions (5.7)]. Gradually reduce the dosage rather than stopping paroxetine tablets abruptly whenever possible.

3 DOSAGE FORMS AND STRENGTHS

Paroxetine tablets, USP are available as

 30 mg white to off-white, oval-shaped, biconvex, film-coated tablet engraved "APO" on one side & "084" on the other side.

4 CONTRAINDICATIONS

Paroxetine tablets are contraindicated in patients:

- Taking, or within 14 days of stopping, MAOIs (including the MAOIs linezolid and intravenous methylene blue) because of an increased risk of serotonin syndrome [see Warnings and Precautions (5.2), Drug Interactions (7)].
- Taking thioridazine because of risk of QT prolongation [see Warnings and Precautions (5. 3) and Drug Interactions (7)]
- Taking pimozide because of risk of QT prolongation [see Warnings and Precautions (5.3), Drug Interactions (7)].
- With known hypersensitivity (e.g., anaphylaxis, angioedema, Stevens-Johnson syndrome) to paroxetine or any of the inactive ingredients in paroxetine tablets [see Adverse Reactions (6.1), (6.2)].

5 WARNINGS AND PRECAUTIONS

5.1 Suicidal Thoughts and Behaviors in Adolescents and Young Adults

In pooled analyses of placebo-controlled trials of antidepressant drugs (SSRIs and other antidepressant classes) that included approximately 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 placebotreated 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 1,000 patients treated are provided in Table 2.

Table 2: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

	Drug-Placebo Difference in Number of Patients with Suicidal Thoughts and Behaviors per 1,000 Patients Treated
	Increases Compared to Placebo
<18 years old	14 additional cases
18 to 24 years old	5 additional cases
	Decreases Compared to Placebo
25 to 64 years old	1 fewer case
≥65 years old	6 fewer cases

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

5.2 Serotonin Syndrome

SSRIs, including paroxetine can precipitate serotonin syndrome, a potentially lifethreatening 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 (7.1)]. Serotonin syndrome can also occur when these drugs are used alone.

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure,

dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea).

The concomitant use of paroxetine with MAOIs is contraindicated. In addition, do not initiate paroxetine 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) or at lower doses. If it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking paroxetine discontinue paroxetine before initiating treatment with the MAOI [see Contraindications (4), Drug Interactions (7)].

Monitor all patients taking paroxetine

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

5.3 Drug Interactions Leading to QT Prolongation

The CYP2D6 inhibitory properties of paroxetine can elevate plasma levels of thioridazine and pimozide. Since thioridazine and pimozide given alone produce prolongation of the QTc interval and increase the risk of serious ventricular arrhythmias, the use of paroxetine is contraindicated in combination with thioridazine and pimozide [see Contraindications (4), Drug Interactions (7), Clinical Pharmacology (12.3)].

5.4 Embryofetal and Neonatal Toxicity

Paroxetine can cause fetal harm when administered to a pregnant woman. Epidemiological studies have shown that infants exposed to paroxetine in the first trimester of pregnancy have an increased risk of cardiovascular malformations. Exposure to paroxetine in late pregnancy may lead to an increased risk for persistent pulmonary hypertension of the newborn (PPNH) and/or neonatal complications requiring prolonged hospitalization, respiratory support, and tube feeding.

If paroxetine are used during pregnancy, or if the patient becomes pregnant while taking paroxetine, the patient should be apprised of the potential hazard to the fetus *[see Use in Specific Populations (8.1)].*

5.5 Increased Risk of Bleeding

Drugs that interfere with serotonin reuptake inhibition, including paroxetine, 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 ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

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

5.6 Activation of Mania or Hypomania

In patients with bipolar disorder, treating a depressive episode with paroxetine tablet or another antidepressant may precipitate a mixed/manic episode. During controlled clinical trials of paroxetine, hypomania or mania occurred in approximately 1% of paroxetine-treated unipolar patients compared to 1.1% of active-control and 0.3% of placebotreated unipolar patients. Prior to initiating treatment with paroxetine, screen patients for any personal or family history of bipolar disorder, mania, or hypomania.

5.7 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 (2.7)].

During clinical trials of GAD and PTSD, gradual decreases in the daily dose by 10 mg/day at weekly intervals followed by 1 week at 20 mg/day was used before treatment was discontinued. The following adverse reactions were reported at an incidence of 2% or greater for paroxetine and were at least twice that reported for placebo: Abnormal dreams, paresthesia, and dizziness adverse reactions have been reported upon discontinuation of treatment with paroxetine in pediatric patients. The safety and effectiveness of paroxetine in pediatric patients have not been established [see Boxed Warning, Warnings and Precautions (5.1), Use in Specific Populations (8.4)].

5.8 Seizures

Paroxetine

tablets have not been systematically evaluated in patients with seizure disorders. Patients with history of seizures were excluded from clinical studies. During

clinical studies, seizures occurred in 0.1% of patients treated with paroxetine. Paroxetine should be prescribed with caution in patients with a seizure disorder. Discontinue paroxetine in any patient who develops seizures.

5.9 Angle-Closure Glaucoma

The pupillary dilation that occurs following use of many antidepressant drugs including paroxetine may trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy. Cases of angle-closure glaucoma associated with use of paroxetine

have been reported. Avoid use of antidepressants, including paroxetine in patients with untreated anatomically narrow angles.

5.10 Hyponatremia

Hyponatremia may occur as a result of treatment with SSRIs, including paroxetine. Cases with serum sodium lower than 110 mmol/L have been reported. Signs and symptoms of hyponatremia include headache, difficulty concentrating memory impairment confusion weakness and unsteadiness which

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 paroxetine tablet 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)].

5.11 Reduction of Efficacy of Tamoxifen

Some studies have shown that the efficacy of tamoxifen, as measured by the risk of breast cancer relapse/mortality, may be reduced with concomitant use of paroxetine as a result of paroxetine's irreversible inhibition of CYP2D6 and lower blood levels of tamoxifen [see Drug Interactions (7)]. One study suggests that the risk may increase with longer duration of coadministration. However, other studies have failed to demonstrate such a risk. When tamoxifen is used for the treatment or prevention of breast cancer, prescribers should consider using an

5.12 Bone Fracture

Epidemiological studies on bone fracture risk during exposure to some antidepressants, including SSRIs, have reported an association

between antidepressant treatment and fractures. There are multiple possible causes for this observation, and it is unknown to what

extent fracture risk is directly attributable to SSRI treatment.

alternative antidepressant with little or no CYP2D6 inhibition.

5.13 Sexual Dysfunction

Use of SSRIs, including paroxetine, 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 paroxetine 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 included in more detail in other sections of the prescribing information:

- Hypersensitivity reactions to paroxetine [see Contraindications (4)]
- Suicidal Thoughts and Behaviors [see Warnings and Precautions (5.1)]
- Serotonin Syndrome [see Warnings and Precautions (5.2)]
- Embryofetal and Neonatal Toxicity [see Warnings and Precautions (5.4)]
- Increased Risk of Bleeding [see Warnings and Precautions (5.5)]
- Activation of Mania/Hypomania [see Warnings and Precautions (5.6)]
- Discontinuation Syndrome [see Warnings and Precautions (5.7)]
- Seizures [see Warnings and Precautions (5.8)]
- Angle-closure Glaucoma [see Warnings and Precautions (5.9)]
- Hyponatremia [see Warnings and Precautions (5.10)]
 Prop Fronture [see Warnings and Pressuttions (5.12)]
- Bone Fracture [see Warnings and Precautions (5.12)]
- Sexual Dysfunction [see Warnings and Precautions (5.13)]

6.1 Clinical Trials Experience

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

The safety data for paroxetine are from:

- 6-week clinical trials in MDD patients who received paroxetine 20 mg to 50 mg once daily
- 12-week clinical trials in OCD patients who received paroxetine 20 mg to 60 mg once daily
- 10- to 12-week clinical trials in PD patients who received paroxetine 10 mg to 60 mg once daily
 12-week clinical trials in SAD patients who received paroxetine 20 mg to 50 mg once
- 8-week clinical trials in GAD patients who received paroxetine 10 mg to 50 mg once
- 8-week clinical trials in GAD patients who received paroxetine 10 mg to 50 mg once daily
- 12-

week clinical trials in PTSD patients who received paroxetine 20 mg to 50 mg once daily

Adverse Reactions Leading to Discontinuation

Twenty percent (1,199/6,145) of patients treated with paroxetine in clinical trials in MDD and 16.1% (84/522), 11.8% (64/542), 9.4% (44/469), 10.7% (79/735), and 11.7% (79/676) of

patients treated with paroxetine in clinical trials in SAD, OCD, PD, GAD, and PTSD, respectively, discontinued treatment due to an adverse reaction. The most common adverse reactions (\geq 1%) associated with discontinuation (i.e., those adverse reactions associated with dropout at a rate approximately twice or greater for paroxetine compared to placebo) are presented in Table 3:

Table 3: Adverse Reactions Reported as Leading to Discontinuation (≥1% of Paroxetine Treated Patients and Greater than Placebo) in MDD, OCD, PD, SAD, GAD, and PTSD Trials

	MDD	MDD OCD		PD		SAD		GAD		PTSD)	
	PAROXETINE%	Placebo%										
CNS												
Somnolence	2.3	0.7	_		1.9	0.3	3.4	0.3	2	0.2	2.8	0.6
Insomnia	_	_	1.7	0	1.3	0.3	3.1	0			_	_
Agitation	1.1	0.5	_								_	_
Tremor	1.1	0.3	_				1.7	0			1	0.2
Anxiety	_	_	_				1.1	0			_	_
Dizziness	_	_	1.5	0			1.9	0	1	0.2	_	_
Gastroin-												
testinal												
Constipation	<u> </u>		1.1	0							_	_
Nausea	3.2	1.1	1.9	0	3.2	1.2	4	0.3	2	0.2	2.2	0.6
Diarrhea	1	0.3	_									
Dry mouth	1	0.3	_								_	_
Vomiting	1	0.3	_				1	0			_	_
Flatulence							1	0.3			_	_
Other												
Asthenia	1.6	0.4	1.9	0.4			2.5	0.6	1.8	0.2	1.6	0.2
Abnormal												
Ejaculation ^a	1.6	0	2.1	0			4.9	0.6	2.5	0.5	_	_
Sweating	1	0.3					1.1	0	1.1	0.2	_	_
Impotence a	_		1.5	0							_	_
Libido Decreased							1	0				

Where numbers are not provided the incidence of the adverse reactions in patients treated with paroxetine was not >1% or was not greater than or equal to 2 times the incidence of placebo.

Most Common Adverse Reactions

The most commonly observed adverse reactions associated with the use of paroxetine (incidence of 5% or greater and at least twice that for placebo) were:

*MDD:*Asthenia, sweating, nausea, decreased appetite, somnolence, dizziness, insomnia, tremor, nervousness, ejaculatory disturbance, and other male genital disorders.

OCD: Nausea, dry mouth, decreased appetite, constipation, dizziness, somnolence, tremor, sweating, impotence, and abnormal ejaculation.

 $\mbox{\it PD:} Asthenia,$ sweating, decreased appetite, libido decreased, tremor, abnormal ejaculation, female genital disorders, and impotence.

SAD:Sweating, nausea, dry mouth, constipation, decreased appetite, somnolence, tremor, libido decreased, yawn, abnormal ejaculation, female genital disorders, and impotence.

GAD:Asthenia, infection, constipation, decreased appetite, dry mouth, nausea, libido decreased, somnolence, tremor, sweating, and abnormal ejaculation.

PTSD:Asthenia, sweating, nausea, dry mouth, diarrhea, decreased appetite, somnolence, libido decreased, abnormal ejaculation, female genital disorders, and impotence.

Adverse Reactions in Patients with MDD

Table 4 presents the adverse reactions that occurred at an incidence of 1% or more and greater than placebo in clinical trials of paroxetine -treated patients with MDD.

Table 4: Adverse Reactions (≥1% of Paroxetine-Treated Patients andGreater than Placebo) in 6-Week Clinical Trials for MDD

Body System/ Adverse Re	action Paroxetine(r	n = 421)% Placebo (n = 421)%
Body as a Whole		
Headache	18	17
Asthenia	15	6
Cardiovascular		
Palpitation	3	1
Vasodilation	3	1
Dermatologic		
Sweating	11	2
Rash	2	1
Gastrointestinal		
Nausea	26	9
Dry Mouth	18	12
Constipation	14	9
Diarrhea	12	8
Decreased Appetite	6	2
Flatulence	4	2
Oropharynx Disorder ^a	2	0
Dyspepsia	2	1
Musculoskeletal		
Myopathy	2	1
Myalgia	2	0

a. Incidence corrected for gender.

Myasthenia	1	1
Nervous System		
Somnolence	23	9
Dizziness	13	6
Insomnia	13	6
Tremor	8	2
Nervousness	5	3
Anxiety	5	3
Paresthesia	4	2
Libido Decreased	3	0
Drugged Feeling	2	1
Confusion	1	0
Respiration		
Yawn	4	0
Special Senses		
Blurred Vision	4	1
Taste Prevention	2	0
Urogenital System		
Ejaculatory Disturbance ^{b,c}	13	0
Other Male Genital Disorders ^{b,d}	10	0
Urinary Frequency	3	1
Urination Disorder ^e	3	0
Female Genital Disorders ^{b,f}	2	0

aIncludes mostly "lump in throat" and "tightness in throat."

Adverse Reactions in Patients with OCD, PD, and SAD

Table 5 presents adverse reactions that occurred at a frequency of 2% or more in clinical trials in patients with OCD, PD, and SAD.

Table 5. Adverse Reactions (≥2% of Paroxetine -Treated Patients and Greater than Placebo) in 10 to 12-Week Clinical Trials for OCD, PD, and SAD

Body System/Preferred	Obsessive Compulsive Disorder		Panic Disorder		Social Anxiet	y Disorder
Term	PAROXETINE	Placebo (n = 265)	PAROXETINE (n = 46	9) Placebo (n = 324)	PAROXETINE	Placebo (n = 339
	(n = 542 %	%	%	%	(n = 425) %	%
Body as a Whole						
Asthenia	22	14	14	5	22	14
Abdominal Pain	-	-	4	3	_	_
Chest Pain	3	2	-	-	-	-
Back Pain	-	-	3	2	-	-
Chills	2	1	2	1	_	_
Trauma	_	_	_	_	3	1
Cardiovascular						
Vasodilation	4	1	_	_	_	_
Palpitation	2	0	_	_	_	_
Dermatologic						
Sweating	9	3	14	6	9	2
Rash	3	2	-	-	-	-
Gastrointestinal					1	
Nausea	23	10	23	17	25	7
Dry Mouth	18	9	18	11	9	3
Constipation	16	6	8	5	5	2
Diarrhea	10	10	12	7	9	6
Decreased				,	_	
Appetite	9	3	7	3	8	2
Dyspepsia	-	-	-	-	4	2
Flatulence	-	_	-	-	4	2
Increased Appetite	4	3	2	1	-	_
Vomiting	-	-	-		2	1
Musculoskeletal						
Myalgia	-	-	-	-	4	3
Nervous System						
Insomnia	24	13	18	10	21	16
Somnolence	24	7	19	11	22	5
Dizziness	12	6	14	10	11	7
Tremor	11	1	9	1	9	1
Nervousness	9	8	_		8	7
Libido Decreased	7	4	9	1	12	1
Agitation	-	_	5	4	3	1
Anxiety			5	4	5	4
Abnormal Dreams	4	1	_	Ė		Ė
Concentration	·	_				
Impaired	3	2	_		4	1
Depersonalization	3	0	_		Ė	_
Myoclonus	3	0	3	2	2	1
Amnesia	2	1	-	-	-	-
Respiratory	_	_				1
System	1	ĺ		I		

^bPercentage corrected for gender.

^cMostly "ejaculatory delay."

 $^{^{\}rm d}$ Includes "anorgasmia," "erectile difficulties," "delayed ejaculation/orgasm," and "sexual dysfunction," and "impotence."

eIncludes mostly "difficulty with micturition" and "urinary hesitancy."

fIncludes mostly "anorgasmia" and "difficulty reaching climax/orgasm."

Rhinitis	-	-	3	0	-	-
Pharyngitis					4	2
Yawn					5	1
Special Senses						
Abnormal Vision	4	2	_	_	4	1
Taste Perversion	2	0	-	-	-	-
Urogenital						
System						
Abnormal						
Ejaculation ^a	23	1	21	1	28	1
Dysmenorrhea	_	_	_	_	5	4
Female Genital						
Disorder ^a	3	0	9	1	9	1
Impotence ^a	8	1	5	0	5	1
Urinary						
Frequency	3	1	2	0	_	_
Urination						
Impaired	3	0	_	_	_	_
Urinary Tract						
Infection	2	1	2	1	_	_

 $^{{}^{\}rm a}{\rm Percentage}\ {\rm corrected}\ {\rm for}\ {\rm gender}.$

Adverse Reactions in Patients with GAD and PTSD

Table 6 presents adverse reactions that occurred at a frequency of 2% or more in clinical trials in patients with GAD and PTSD

Table 6. Adverse Reactions (≥2% of Paroxetine -Treated Patients and Greater than Placebo) in 8- to 12-Week Clinical Trials for GAD and PTSD ^a

D. J. C. J / D C J.	Generalized	Anxiety Disorder	Posttraumatic Stress Disorder		
BodySystem/Preferr ed Term	Paroxetine (n = 735)%	Placebo (n = 529)%	Paroxetine (n = 676)%	Placebo (n = 504)%	
Body as a Whole					
Asthenia	14	6	12	4	
Headache	17	14	_	_	
Infection	6	3	5	4	
Abdominal Pain			4	3	
Trauma			6	5	
Cardiovascular Vasodilation	3	1	2	1	
Dermatologic Sweating	6	2	5	1	
Gastrointestinal					
Nausea	20	5	19	8	
Dry Mouth	11	5	10	5	
Constipation	10	2	5	3	
Diarrhea	9	7	11	5	
Decreased					
Appetite	5	1	6	3	
Vomiting	3	2	3	2	
Dyspepsia	_	_	5	3	
Nervous System					
Insomnia	11	8	12	11	
Somnolence	15	5	16	5	
Dizziness	6	5	6	5	
Tremor	5	1	4	1	
Nervousness	4	3	-	-	
Libido Decreased	9	2	5	2	
Abnormal Dreams	-	-	3	-	
Respiratory System					
Respiratory Disorder	7	5	-	-	
Sinusitis	4	3	-	-	
Yawn	4	-	2	≤1	
Special Senses					
Abnormal Vision	2	1	3	1	
Urogenital System					
Abnormal Ejaculation ^a	25	2	13	2	
Female Genital Disorder ^a	4	1	5	1	
Impotence ^a	4	3	9	1	

^{a.} Percentage corrected for gender.

Dose Dependent Adverse Reactions

MDD

A comparison of adverse reaction rates in a fixed-dose study comparing paroxetine 10 mg, 20 mg, 30 mg, and 40 mg once daily with placebo in the treatment of MDD revealed dose dependent adverse reactions, as shown in Table 7:

Table 7. Adverse Reactions (≥5% of Paroxetine -Treated Patients and ≥ Twice the Rate of Placebo) (in a Dose-Comparison Trialin the Treatment of MDD

Body System/Preferred Term	Placebo n = 51%	PAROXET mgn = 10 % % %	TINE10 mg 02 n = 104	20 mg 30 I n = 101 ı	mg 40 n = 102%
Body as a Whole Asthenia	0	2.9	10.6	13.9	12.7
Dermatology Sweating	2	1	6.7	8.9	11.8
Gastrointestinal					
Constipation	5.9	4.9	7.7	9.9	12.7

Decreased Appetite	2	2	5.8	4	4.9
Diarrhea	7.8	9.8	19.2	7.9	14.7
Dry Mouth	2	10.8	18.3	15.8	20.6
Nausea	13.7	14.7	26.9	34.7	36.3
Nervous System					
Anxiety	0	2	5.8	5.9	5.9
Dizziness	3.9	6.9	6.7	8.9	12.7
Nervousness	0	5.9	5.8	4	2.9
Paresthesia	0	2.9	1	5	5.9
Somnolence	7.8	12.7	18.3	20.8	21.6
Tremor	0	0	7.7	7.9	14.7
Special SensesBlurred Vision	2	2.9	2.9	2	7.8
Urogenital System					
Abnormal Ejaculation	0	5.8	6.5	10.6	13
Impotence	0	1.9	4.3	6.4	1.9
Male Genital Disorders	0	3.8	8.7	6.4	3.7

OCD

In a fixed-dose study comparing placebo and paroxetine 20 mg, 40 mg, and 60 mg in the treatment of OCD, there was no clear relationship between adverse reactions and the dose of paroxetine to which patients were assigned.

PΠ

In a fixed-dose study comparing placebo and paroxetine 10 mg, 20 mg, and 40 mg in the treatment of PD, the following adverse reactions were shown to be dose-dependent: asthenia, dry mouth, anxiety, libido decreased, tremor, and abnormal ejaculation.

SAD

In a fixed-dose study comparing placebo and paroxetine 20 mg, 40 mg and 60 mg in the treatment of SAD, for most of the adverse reactions, there was no clear relationship between adverse reactions and the dose of paroxetine to which patients were assigned.

GAD

In a fixed-dose study comparing placebo and paroxetine 20 mg and 40 mg in the treatment of GAD, the following adverse reactions were shown to be dose-dependent: asthenia, constipation, and abnormal ejaculation.

PTSD

In a fixed-dose study comparing placebo and paroxetine 20 mg and 40 mg in the treatment of PTSD, the following adverse reactions were shown to be dose-dependent: impotence and abnormal ejaculation.

Male and Female Sexual Dysfunction

Although changes in sexual desire, sexual performance, and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of SSRI treatment. However, reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, however, 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. The percentage of patients reporting symptoms of sexual dysfunction in males and females with MDD, OCD, PD, SAD, GAD, and PTSD are displayed in Table 8.

Table 8. Adverse Reactions Related to Sexual Dysfunction in Patients Treated with Paroxetine in Clinical Trials of MDD, OCD, PD, SAD, GAD, and PTSD

	PAROXETINE	Placebo
n (males)	1446%	1042%
Decreased Libido	6 to15	0 to 5
Ejaculatory Disturbance	13 to 28	0 to 2
Impotence	2 to 9	0 to 3
n (females)	1822%	1340%
Decreased Libido	0 to 9	0 to 2
Orgasmic Disturbance	2 to 9	0 to 1

Paroxetine treatment has been associated with several cases of priapism. In those cases with a known outcome, patients recovered without sequelae.

Hallucinations

In pooled clinical trials of paroxetine, hallucinations were observed in 0.2% of paroxetine-treated patients compared to 0.1% of patients receiving placebo.

Less Common Adverse Reactions

The following adverse reactions occurred during the clinical studies of paroxetine and are not included elsewhere in the labeling.

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 1 or more occasions in at least 1/100 patients; infrequent adverse reactions are those occurring in 1/100 to 1/1,000 patients; rare adverse reactions are those occurring in fewer than 1/1,000 patients.

Body as a Whole

Infrequent: Allergic reaction, chills, face edema, malaise, neck pain; rare: Adrenergic syndrome, cellulitis, moniliasis, neck rigidity, pelvic pain, peritonitis, sepsis, ulcer.

Cardiovascular System

Frequent: Hypertension, tachycardia; infrequent: Bradycardia, hematoma, hypotension, migraine, postural hypotension, syncope; rare: Angina pectoris, arrhythmia nodal, atrial fibrillation, bundle branch block, cerebral ischemia, cerebrovascular accident, congestive heart failure, heart block, low cardiac output, myocardial infarct, myocardial ischemia, pallor, phlebitis, pulmonary embolus, supraventricular extrasystoles,

thrombophlebitis, thrombosis, varicose vein, vascular headache, ventricular extrasystoles.

Digestive System

Infrequent:Bruxism, colitis, dysphagia, eructation, gastritis, gastroenteritis, gingivitis, glossitis, increased salivation, abnormal liver function tests, rectal hemorrhage, ulcerative stomatitis; rare: Aphthous stomatitis, bloody diarrhea, bulimia, cardiospasm, cholelithiasis, duodenitis, enteritis, esophagitis, fecal impactions, fecal incontinence, gum hemorrhage, hematemesis, hepatitis, ileitis, ileus, intestinal obstruction, jaundice, melena, mouth ulceration, peptic ulcer, salivary gland enlargement, sialadenitis, stomach ulcer, stomatitis, tongue discoloration, tongue edema, tooth caries.

Endocrine System

Rare: Diabetes mellitus, goiter, hyperthyroidism, hypothyroidism, thyroiditis.

Hemic and Lymphatic Systems

Infrequent: Anemia, leukopenia, lymphadenopathy, purpura; rare: Abnormal erythrocytes, basophilia, bleeding time increased, eosinophilia, hypochromic anemia, iron deficiency anemia, leukocytosis, lymphedema, abnormal lymphocytes, lymphocytosis, microcytic anemia, monocytosis, normocytic anemia, thrombocythemia, thrombocytopenia.

Metabolic and Nutritional

Frequent:Weight gain; infrequent:Edema, peripheral edema, SGOT increased, SGPT increased, thirst, weight loss; rare:Alkaline phosphatase increased, bilirubinemia, BUN increased, creatinine phosphokinase increased, dehydration, gamma globulins increased, gout, hypercalcemia, hypercholesteremia, hyperglycemia, hyperkalemia, hyperhosphatemia, hypocalcemia, hypoglycemia, hypokalemia, hyponatremia, ketosis, lactic dehydrogenase increased, non-protein nitrogen (NPN) increased.

Musculoskeletal System

Frequent:Arthralgia; infrequent:Arthritis, arthrosis; rare:Bursitis, myositis, osteoporosis, generalized spasm, tenosynovitis, tetany.

Nervous System

Frequent: Emotional lability, vertigo; infrequent: Abnormal thinking, alcohol abuse, ataxia, dystonia, dyskinesia, euphoria, hostility, hypertonia, hypesthesia, hypokinesia, incoordination, lack of emotion, libido increased, manic reaction, neurosis, paralysis, paranoid reaction; rare: Abnormal gait, akinesia, antisocial reaction, aphasia, choreoathetosis, circumoral paresthesias, convulsion, delirium, delusions, diplopia, drug dependence, dysarthria, extrapyramidal syndrome, fasciculations, grand mal convulsion, hyperalgesia, hysteria, manic-depressive reaction, meningitis, myelitis, neuralgia, neuropathy, nystagmus, peripheral neuritis, psychotic depression, psychosis, reflexes decreased, reflexes increased, stupor, torticollis, trismus, withdrawal syndrome.

Respiratory System

Infrequent: Asthma, bronchitis, dyspnea, epistaxis, hyperventilation, pneumonia, respiratory flu; rare: Emphysema, hemoptysis, hiccups, lung fibrosis, pulmonary edema, sputum increased, stridor, voice alteration.

Skin and Appendages

Frequent: Pruritus;

infrequent: Acne, alopecia, contact dermatitis, dry skin, ecchymosis, eczema, herpes simplex, photosensitivity, urticaria; rare:Angioedema, erythema nodosum, erythema multiforme, exfoliative dermatitis, fungal dermatitis, furunculosis; herpes zoster, hirsutism, maculopapular rash, seborrhea, skin discoloration, skin hypertrophy, skin ulcer, sweating decreased, vesiculobullous rash.

Special Senses

Frequent:Tinnitus; infrequent:Abnormality of accommodation, conjunctivitis, ear pain, eye pain, keratoconjunctivitis, mydriasis, otitis media; rare:Amblyopia, anisocoria, blepharitis, cataract, conjunctival edema, corneal ulcer, deafness, exophthalmos, eye hemorrhage, glaucoma, hyperacusis, night blindness, otitis externa, parosmia, photophobia, ptosis, retinal hemorrhage, taste loss, visual field defect.

Urogenital System

Infrequent:Amenorrhea, breast pain, cystitis, dysuria, hematuria, menorrhagia, nocturia, polyuria, pyuria, urinary incontinence, urinary retention, urinary urgency, vaginitis; rare: Abortion, breast atrophy, breast enlargement, endometrial disorder, epididymitis, female lactation, fibrocystic breast, kidney calculus, kidney pain, leukorrhea, mastitis, metrorrhagia, nephritis, oliguria, salpingitis, urethritis, urinary casts, uterine spasm, urolith, vaginal hemorrhage, vaginal moniliasis.

6.2 Postmarketing Experience

The following reactions have been identified during post approval use of paroxetine. Because these reactions are reported voluntarily from a population of unknown size, it is not always possible

to reliably estimate their frequency or establish a causal relationship to drug exposure.

Acute pancreatitis, elevated liver function tests (the most severe cases were deaths due to liver necrosis, and grossly elevated transaminases associated with severe liver dysfunction), Guillain-Barré syndrome, Stevens-Johnson syndrome, toxic epidermal necrolysis, drug reaction with eosinophilia and systemic symptoms (DRESS), syndrome of inappropriate ADH secretion, prolactinemia and galactorrhea; extrapyramidal symptoms which have included akathisia, bradykinesia, cogwheel rigidity, oculogyric crisis which has been associated with concomitant use of pimozide; status epilepticus, acute renal failure, pulmonary hypertension, allergic alveolitis, anosmia, hyposmia, anaphylaxis, eclampsia, laryngismus, optic neuritis, porphyria, restless legs syndrome (RLS), ventricular fibrillation, ventricular tachycardia (including torsade de pointes), hemolytic anemia, events related to impaired hematopoiesis (including aplastic anemia, pancytopenia, bone marrow aplasia, and agranulocytosis), vasculitic syndromes (such as Henoch-Schönlein purpura), and premature births in pregnant women. There has been a case report of severe hypotension when paroxetine was added to chronic metoprolol treatment.

Table 9: Clinically Significant Drug Interactions with Paroxetine

Monoamine (Oxidase Inhibitors (MAOIs)			
Clinical Impact	The concomitant use of SSRIs, including paroxetine, and MAOIs increases the risk of serotonin syndrome.			
	Paroxetine is contraindicated in patients taking MAOIs, including MAOIs			
Intervention	such as linezolid or intravenous methylene blue [see Dosage			
	and Administration (2.5), Contraindications (4), Warnings and Precautions (5.2)].			
Examples	selegiline, tranylcypromine, isocarboxazid, phenelzine, linezolid, methylene blue			
Pimozide and	l Thioridazine			
Clinical Impact	Increased plasma concentrations of pimozide and thioridazine, drugs with a narrow therapeutic index, may increase the risk of QTc prolongation and ventricular arrhythmias.			
Intervention	Paroxetine is contraindicated in patients taking pimozide or thioridazine [see Contraindications (4)].			
Other Seroto	onergic Drugs			
Clinical Impact	The concomitant use of serotonergic drugs			
emilear irripace	with paroxetine increases the risk of serotonin syndrome.			
Intervention	Monitor patients for signs and symptoms of serotonin syndrome, particularly during treatment initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of paroxetine and/or concomitant serotonergic drugs [see Warnings and Precautions (5.2)].			
Examples	other SSRIs, SNRIs, triptans, tricyclic antidepressants, opioids, lithium, tryptophan, buspirone, amphetamines, and St. John's Wort.			
Drugs that I	nterfere with Hemostasis (antiplatelet agents and anticoagulants)			
	The concurrent use of an antiplatelet agent or anticoagulant with			
Clinical Impact	paroxetine may potentiate the risk of bleeding.			
Intervention	inform patients of the increased risk of bleeding associated with the concomitant use of paroxetine and antiplatelet agents and anticoagulants. For patients taking warfarin, carefully monitor the international normalized ratio [see Warnings and Precautions (5.5)].			
Examples	aspirin, clopidogrel, heparin, warfarin			
	Bound to Plasma Protein			
Clinical Impact	Paroxetine is highly bound to plasma protein. The concomitant use of			
Intervention	Monitor for adverse reactions and reduce dosage of paroxetine or other protein-bound drugs as warranted.			
Examples	warfarin			
Drugs Metak	polized by CYP2D6			
Clinical Impact	Paroxetine is a CYP2D6 inhibitor [see Clinical Pharmacology (12.3)]. The concomitant use of paroxetine with a CYP2D6 substrate may increase the exposure of the CYP2D6 substrate.			
Intervention	Decrease the dosage of a CYP2D6 substrate if needed with concomitant paroxetine use. Conversely, an increase in dosage of a CYP2D6 substrate may be needed if paroxetine is discontinued.			
Examples	propafenone, flecainide, atomoxetine, desipramine, dextromethorphan, metoprolol, nebivolol, perphenazine, tolterodine, venlafaxine, risperidone.			
Tamoxifen				
	Concomitant use of tamoxifen with paroxetine may lead to reduced plasma concentrations of the active metabolite (endoxifen) and reduced efficacy of tamoxifen			
Intervention	Consider use of an alternative antidepressant with little or no CYP2D6 inhibition [see Warnings and Precautions (5.11)].			
Fosamprena	vir/Ritonavir			
Clinical Impact	Co-administration of fosamprenavir/ritonavir with paroxetine significantly decreased plasma levels of paroxetine.			
Intervention	Any dose adjustment should be guided by clinical effect (tolerability and efficacy).			

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

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 (5.5) and Clinical Considerations!

Epidemiological studies have shown that infants exposed to paroxetine in the first trimester of pregnancy have an increased risk of congenital malformations, particularly cardiovascular malformations. If paroxetine is used during pregnancy, or if the patient becomes pregnant while taking paroxetine, advise the patient of the potential hazard to the fetus.

Clinical Considerations

Unless the benefits of paroxetine to the mother justify continuing treatment, consideration should be given to either discontinuing paroxetine therapy or switching to another antidepressant [see Warnings and Precautions (5.7)]. For

- A study based on Swedish national registry data demonstrated that infants exposed to
 paroxetine during pregnancy (n = 815) had an increased risk of
 cardiovascular malformations (2% risk in paroxetine-exposed infants) compared to
 the entire registry population (1% risk), for an odds ratio (OR) of 1.8 (95%
 confidence interval 1.1 to 2.8). No increase in the risk of overall congenital
 malformations was seen in the paroxetine-exposed infants. The cardiac
 malformations in the paroxetine-exposed infants were primarily ventricular septal
 defects (VSDs) and atrial septal defects (ASDs). Septal defects range
 in severity from those that resolve spontaneously to those which require surgery.
- A separate retrospective cohort study from the United States (United Healthcare

data) evaluated 5,956 infants of mothers dispensed antidepressants during the first trimester (n = 815 for paroxetine). This study showed a trend towards an increased risk

for cardiovascular malformations for paroxetine (risk of 1.5%) compared to other antidepressants (risk of 1%), for an OR of 1.5 (95% confidence interval 0.8 to 2.9). Of the 12 paroxetine-exposed infants with cardiovascular malformations, 9 had VSDs. This study also suggested an increased risk of overall major congenital malformations including cardiovascular defects for paroxetine (4% risk) compared to other (2% risk) antidepressants (OR 1.8; 95% confidence interval 1.2 to 2.8).

Two large case-control studies using separate databases, each with >9,000 birth defect cases and >4,000 controls, found that maternal use of paroxetine during the first trimester of pregnancy was associated with a 2- to 3fold increased risk of right ventricular outflow tract obstructions. In one study the OR was 2.5 (95% confidence interval, 1 to 6, 7 exposed infants) and in the other study the OR was 3.3 (95% confidence interval, 1.3 to 8.8, 6 exposed infants).

Other studies have found varying results as to whether there was an increased risk of overall, cardiovascular, or specific congenital malformations. A meta-analysis of epidemiological data over a 16-year period (1992 to 2008) on first trimester paroxetine use in pregnancy and congenital malformations included the above-noted studies in addition to others (n = 17 studies that included overall malformations and n = 14 $\,$ studies that included cardiovascular malformations: n = 20 distinct studies). While subject to limitations, this meta-analysis suggested an increased occurrence of cardiovascular malformations (prevalence odds ratio [POR] 1.5; 95% confidence interval 1.2 to 1.9) and overall malformations (POR 1.2; 95% confidence interval 1.1 to 1.4) with paroxetine use during the first trimester. It was not possible in this meta-analysis to determine the extent to which the observed prevalence of cardiovascular malformations might have contributed to that of overall malformations, nor was it possible to determine whether any specific types of cardiovascular malformations might have contributed to the

observed prevalence of all cardiovascular malformations.

Unless the benefits of paroxetine to the mother justify continuing treatment, consideration should be given to either discontinuing paroxetine therapy or switching to another antidepressant [see Warnings and Precautions (5.7)]. For women who intend to become pregnant or are in their first trimester of pregnancy, paroxetine should only be initiated after consideration of the other available treatment

options [see Warnings and Precautions (5.4)].

Treatment of Pregnant Women During Their Third Trimester: Neonates exposed to SSRIs or serotonin and norepinephrine reuptake inhibitors (SNRIs), including paroxetine, late in the 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 features are consistent with either a direct

toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome [$see\ Warnings$] and Precautions (5.2)]

Exposure to SSRIs in late pregnancy 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. In a retrospective case-control study of 377 women whose infants were born with PPHN and 836 women whose infants were born healthy, the risk for developing PPHN was approximately six-fold higher for infants exposed to SSRIs after the 20 thweek of gestation compared to infants who had not been exposed to antidepressants

There have also been postmarketing reports of premature births in pregnant women exposed to paroxetine or other SSRIs.

When treating a pregnant woman with paroxetine during the third trimester, the physician should carefully consider both the potential risks and benefits of treatment. A prospective longitudinal study of 201 women with a history of major depression who were euthymic at the beginning of pregnancy. The women who discontinued antidepressant medication during pregnancy were more likely to experience a relapse of major depression than women who continued antidepressant medication.

Maternal Adverse Reactions

Use of paroxetine tablets in the month before delivery may be associated with an increased risk of postpartum hemorrhage [see Warnings and Precautions (5.5)].

Reproduction studies were performed at doses up to 50 mg/kg/day in rats and 6 mg/kg/day in rabbits administered during organogenesis. These doses are approximately 6 (rat) and less

than 2 (rabbit) times the maximum recommended human dose (MRHD - 75 mg) on an mg/m ² basis.

These studies have revealed no evidence of developmental effects. However, in rats, there was an increase in pup deaths during the first 4 days of lactation when dosing occurred during the last trimester of gestation and continued throughout lactation. This effect occurred at a dose of 1 mg/kg/day which is than the MRHD on an mg/m ² basis. The noeffect dose for rat pup mortality was not determined. The cause of these deaths is not known.

8.3 Nursing Mothers

Like many other drugs, paroxetine is secreted in human milk. Because of the potential for serious adverse reactions in nursing infants from paroxetine, a decision should be made whether to discontinue nursing infants or to discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

The safety and effectiveness of paroxetine in pediatric patients have not been established [see Box Warning]. Effectiveness was not demonstrated in three placebocontrolled trials in 752 paroxetine-treated pediatric patients with MDD

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 placebo-controlled clinical trials conducted with pediatric patients, the following adverse reactions were reported in at least 2% of pediatric patients treated with paroxetine and occurred at a rate at least twice that for pediatric patients receiving placebo: emotional lability (including self-harm, suicidal thoughts, attempted suicide, crying, and mood fluctuations), hostility, decreased appetite, tremor, sweating, hyperkinesia, and agitation.

Adverse reactions upon discontinuation of treatment with paroxetine in the pediatric clinical trials that included a taper phase regimen, which occurred in at least 2% of patients and at a rate at least twice that of placebo, were: emotional lability (including suicidal ideation, suicide attempt, mood changes, and tearfulness), nervousness, dizziness, nausea, and abdominal pain.

8.5 Geriatric Use

In premarketing clinical trials with paroxetine, 17% of patients treated with paroxetine (approximately 700) were 65 years of age or older. Pharmacokinetic studies revealed a decreased clearance in the elderly, and a lower starting dose is recommended;, however, no overall differences in safety or effectiveness were observed between elderly and younger patients [see Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

SSRIs including paroxetine, 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 (5.7)].

8.6 Renal and Hepatic Impairment

Increased plasma concentrations of paroxetine occur in patients with renal and hepatic impairment. The initial dosage of paroxetine should be reduced in patients with severe renal impairment and in patients with severe hepatic impairment [see Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

10 OVERDOSAGE

The following have been reported with paroxetine tablet overdosage:

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

Gastrointestinal decontamination with activated charcoal should be considered in patients who present early after a paroxetine overdose.

Consider contacting a Poison Center (1-800-222-1222) or a medical toxicologist for additional overdosage management recommendations.

11 DESCRIPTION

Paroxetine tablets, USP contains paroxetine hydrochloride USP, an SSRI. It is the hydrochloride salt of a phenylpiperidine compound identified chemically as (-)- trans-4 R-(4'-fluorophenyl)-3 S- Γ (3',4'- methylenedioxyphenoxy) methyl] piperidine hydrochloride anhydrous and has the empirical formula of C $_{19}H$ $_{20}FNO$ $_{3}$ -HCI. The molecular weight is 365.8 (329.4 as free base). The structural formula of paroxetine hydrochloride is:

Paroxetine hydrochloride USP is an odorless, off-white powder, having a melting point range of 116°C to 120°C and a solubility of 5.4 mg/mL in water.

Each film-coated tablet, for oral administration, contains paroxetine hydrochloride equivalent to paroxetine as follows: 10 mg; 20 mg; 30 mg; 40 mg. Inactive ingredients consist of anhydrous lactose, hydroxypropyl cellulose, hypromellose, magnesium stearate, polyethylene glycol, sodium starch glycolate and titanium dioxide. Paroxetine tablets comply with USP Related Impurities Test 1.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of paroxetine in the treatment of MDD, SAD, OCD, PD, GAD, and PTSD is unknown, but is presumed to be linked to potentiation of serotonergic activity in the central nervous system resulting from inhibition of neuronal reuptake of serotonin (5-hydroxy-tryptamine, 5-HT).

12.2 Pharmacodynamics

Studies at clinically relevant doses in humans have demonstrated that paroxetine blocks the uptake of serotonin into human platelets. In vitro studies in animals also suggest that paroxetine is a potent and highly selective inhibitor of neuronal serotonin reuptake (SSRI) and has only very weak effects on norepinephrine and dopamine neuronal reuptake.

12.3 Pharmacokinetics

Nonlinearity in pharmacokinetics is observed with increasing doses of paroxetine.

In a meta-analysis of paroxetine from 4 studies done in healthy volunteers following multiple dosing of 20 mg/day to 40 mg/day, males did not exhibit a significantly lower C

maxor AUC than females.

Absorption

Paroxetine hydrochloride is completely absorbed after oral dosing of a solution of the hydrochloride salt. In a study in which normal male subjects (n = 15) received 30 mg tablets daily for 30 days, steady-state paroxetine concentrations were achieved by approximately 10 days for most subjects, although it may take substantially longer in an occasional patient. At steady state, mean values of C max, T $_{
m max}$, C $_{
m min}$, and T $_{
m 1/2}$ were 61.7 ng/mL (CV 45%), 5.2 hr. (CV 10%), 30.7 ng/mL (CV 67%), and 21 hours (CV 32%), respectively. The steady-state C $_{
m max}$ and C $_{
m min}$ values were about 6 and 14 times what would be predicted from single-dose studies. Steadystate drug exposure based on AUC $_{0.24}$ was about 8 times greater than would have been predicted from single-dose data in these subjects. The excess accumulation is a consequence of the fact that 1 of the enzymes that metabolizes paroxetine is readily saturable.

Paroxetine is equally bioavailable from the tablet.

Effect of Food

The effects of food on the bioavailability of paroxetine were studied in subjects administered a single dose with and without food. AUC was only slightly increased (6%) when drug was administered with food but the C $_{\rm max}$ was 29% greater, while the time to reach peak plasma concentration decreased from 6.4 hours post-dosing to 4.9 hours.

Paroxetine distributes throughout the body, including the CNS, with only 1% remaining in the plasma.

Approximately 95% and 93% of paroxetine is bound to plasma protein at 100 ng/mL and 400 ng/mL, respectively. Under clinical conditions, paroxetine concentrations would normally be less than 400 ng/mL. Paroxetine does not alter the in vitro protein binding of phenytoin or warfarin.

Elimination

Metabolism

The mean elimination half-life is approximately 21 hours (CV 32%) after oral dosing of 30 mg tablets daily for 30 days of paroxetine. In steady-state dose proportionality studies involving elderly and nonelderly patients, at doses of 20 mg to 40 mg daily for the elderly and 20 mg to 50 mg daily for the nonelderly, some nonlinearity was observed in both populations, again reflecting a saturable metabolic pathway. In comparison to Cmin values after 20 mg daily, values after 40 mg daily were only about 2 to 3 times greater than doubled.

Paroxetine is extensively metabolized after oral administration. The principal metabolites are polar and conjugated products of oxidation and methylation, which are readily cleared. Conjugates with glucuronic acid and sulfate predominate, and major metabolites have been isolated and identified. Data indicate that the metabolites have no more than 1/50 the potency of the parent compound at inhibiting serotonin uptake. The metabolism of paroxetine is accomplished in part by CYP2D6. Saturation of this enzyme at clinical doses appears to account for the nonlinearity of paroxetine kinetics with increasing dose and increasing duration of treatment. The role of this enzyme in paroxetine metabolism also suggests potential drug-drug interactions [see Drug Interactions (7)]. Pharmacokinetic behavior of paroxetine has not been evaluated in subjects who are deficient in CYP2D6 (poor metabolizers).

Approximately 64% of a 30-mg oral solution dose of paroxetine was excreted in the urine with 2% as the parent compound and 62% as metabolites over a 10-day postdosing period. About 36% was excreted in the feces (probably via the bile), mostly as metabolites and less than 1% as the parent compound over the 10-day postdosina period.

Drug Interaction Studies

There are clinically significant, known drug interactions between paroxetine and other drugs [see Drug Interactions (7)].

Figure 1. Impact of Paroxetine on the Pharmacokinetics of Co-Administered Drugs (log scale)

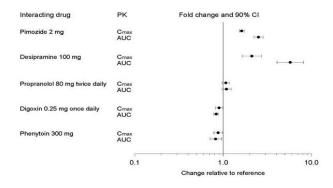
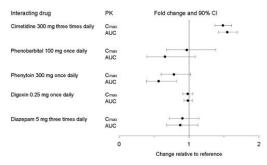


Figure 2. Impact of Co-Administered Drugs on the Pharmacokinetics of Paroxetine



<u>Theophylline</u>:Reports of elevated theophylline levels associated with paroxetine treatment have been reported. While this interaction has not been formally studied, it is recommended that theophylline levels be monitored when these drugs are concurrently administered.

Drugs Metabolized by Cytochrome CYP3A4

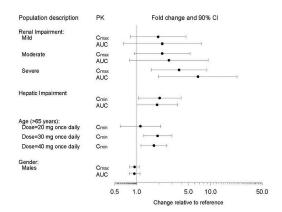
An *in vivo* interaction study involving the coadministration under steady-state conditions of paroxetine and terfenadine, a substrate for CYP3A4, revealed no effect of paroxetine on terfenadine pharmacokinetics. In addition, *in vitro* studies have shown ketoconazole, a potent inhibitor of CYP3A4 activity, to be at least 100 times more potent than paroxetine as an inhibitor of the metabolism of several substrates for this enzyme, including terfenadine, astemizole, cisapride, triazolam, and cyclosporine. Paroxetine's extent of inhibition of CYP3A4 activity is not expected to be of clinical significance.

Specific Populations

The impact of specific populations on the pharmacokinetics of paroxetine are shown in Figure 3.

The recommended starting dosage and maximum dosage of paroxetine is reduced in elderly patients, patients with severe renal impairment, and patients with severe hepatic impairment [see Dosage and Administration (2.4).

Figure 3. Impact of Specific Population on the Pharmacokinetics of Paroxetine (log scale)



13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Two-year carcinogenicity studies were conducted in rodents given paroxetine in the diet at 1, 5, and 25 mg/kg/day (mice) and 1, 5, and 20 mg/kg/day (rats). These doses are up to 2 (mouse) and 3.2 (rat) times the MRHD of 75 mg on a mg/m 2 basis. There was a significantly greater number of male rats in the high-dose group with reticulum cell sarcomas (1/100, 0/50, 0/50, and 4/50 for control, low-, middle-, and high-dose groups, respectively) and a significantly increased linear trend across dose groups for the occurrence of lymphoreticular tumors in male rats. Female rats were not affected. Although there was a dose-related increase in the number of tumors in mice, there was no drug-related increase in the number of mice with tumors. The relevance of these findings to humans is unknown.

<u>Mutagenesis</u>

Paroxetine produced no genotoxic effects in a battery of 5 in vitro and 2 *in vivo* assays that included the following: Bacterial mutation assay, mouse lymphoma mutation assay, unscheduled DNA synthesis assay, and tests for cytogenetic aberrations *in vivo* in mouse bone marrow and in vitro in human lymphocytes and in a dominant lethal test in rats

Impairment of Fertility

Some clinical studies have shown that SSRIs (including paroxetine) may affect sperm quality during SSRI treatment, which may affect fertility in some men.

A reduced pregnancy rate was found in reproduction studies in rats at a dose of paroxetine of 15 mg/kg/day, which is 2.4 times the MRHD of 75 mg on a mg/m 2 basis. Irreversible lesions occurred in the reproductive tract of male rats after dosing in toxicity studies for 2 to 52 weeks. These lesions consisted of vacuolation of epididymal tubular epithelium at 50 mg/kg/day and atrophic changes in the seminiferous tubules of the testes with arrested spermatogenesis at 25 mg/kg/day (8.2 and 4.1 times the MRHD of 75 mg on a mg/m 2 basis).

14.1 Major Depressive Disorder

The efficacy of paroxetine as a treatment for major depressive disorder (MDD) has been established in 6 placebo-controlled studies of patients with MDD (aged 18 to 73). In these studies, paroxetine was shown to be statistically significantly more effective than placebo in treating MDD by at least 2 of the following measures: Hamilton Depression Rating Scale (HDRS), the Hamilton depressed mood item, and the Clinical Global Impression (CGI)-Severity of Illness. paroxetine was statistically significantly better than placebo in improvement of the HDRS sub-factor scores, including the depressed mood item, sleep disturbance factor, and anxiety factor.

Long-term efficacy of paroxetine for treatment of MDD in outpatients was demonstrated in

a randomized withdrawal study. Patients who responded to paroxetine (HDRS total score <8) during an initial 8-week open-label treatment phase were then randomized to continue paroxetine or placebo, for up to 1 year. Patients treated with paroxetine demonstrated a statistically significant lower relapse rate during the withdrawal phase (15%) compared to those on placebo (39%). Effectiveness was similar for male and female patients.

14.2 Obsessive Compulsive Disorder

The effectiveness of paroxetine in the treatment of obsessive compulsive disorder (OCD) was demonstrated in two 12-week multicenter placebo-controlled studies of adult outpatients (Studies 1 and 2). Patients had moderate to severe OCD (DSM-IIIR) with mean baseline ratings on

the Yale Brown Obsessive Compulsive Scale (YBOCS) total score ranging from 23 to 26. In study 1, a doserange finding study, patients received fixed daily doses of paroxetine 20 mg, 40 mg, or 60 mg. Study 1 demonstrated that daily doses of paroxetine 40 mg and 60 mg are effective in the treatment of OCD. Patients receiving doses of paroxetine 40 mg and 60 mg experienced a mean reduction of approximately 6 and 7 points, respectively, on the YBOCS total score which was statistically significantly greater than the approximate 4-point reduction at 20 mg and a 3-point reduction in the placebotreaded patients. Study 2 was a flexible-dose study comparing paroxetine 20 mg to 60

mg daily with clomipramine 25 mg to 250 mg daily or placebo). In this study, patients receiving paroxetine experienced a mean reduction of approximately 7 points on the YBOCS

total score, which was statistically significantly greater than the mean reduction of approximately 4 points in placebo-treated patients.

The following table provides the outcome classification by treatment group on Global Improvement items of the Clinical Global Impression (CGI) scale for Study 1.

Table 10: Outcome Classification (%) on CGI-Global Improvement Item for Completers in Study 1 in Patients with OCD

Outcome	Placebo		Paroxetine Tablets 40 mg	Paroxetine Tablets 60 mg
Classification	(n = 74)	(n = 75)	(n = 66)	(n = 66)
	%	%	%	%
Worse	14	7	7	3
No Change	44	35	22	19
Minimally Improved	24	33	29	34
Much Improved	11	18	22	24
Very Much Improved	7	7	20	20

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

The long-term efficacy of paroxetine for the treatment of OCD was established in a long-term extension to Study 1. Patients who responded to paroxetine during the 3-month double-blind phase and a 6-month extension on open-label paroxetine 20 mg to 60 mg daily were randomized to either paroxetine or placebo in a 6-month double-blind relapse prevention phase. Patients randomized to paroxetine were statistically significantly less likely to relapse than placebo-treated patients.

14.3 Panic Disorder

The effectiveness of paroxetine in the treatment of panic disorder (PD) was demonstrated in three 10 to 12-week multicenter, placebo-controlled studies of adult outpatients (Studies 1, 2, and 3). Patients had PD (DSM-IIIR), with or without agoraphobia. In these studies, paroxetine was shown to be statistically significantly more effective than placebo in treating PD by at least 2 out of 3 measures of panic attack frequency and on the Clinical Global Impression Severity of Illness score.

Study 1 was a 10-week dose-

range finding study; patients received fixed doses of paroxetine 10 mg, 20 mg, or 40 mg daily or placebo. A statistically significant difference from placebo was observed only for the paroxetine 40 mg daily group. At endpoint, 76% of patients receiving paroxetine 40 mg daily were free of panic attacks, compared to 44% of placebo-treated patients.

Study 2 was a 12-week flexible-dose study comparing paroxetine 10 mg to 60 mg daily and placebo. At endpoint, 51% of paroxetine-treated patients were free of panic attacks compared to 32% of placebo-treated patients.

Study 3 was a 12-week flexible-dose study comparing paroxetine 10 mg to 60 mg daily to placebo in patients concurrently receiving standardized cognitive behavioral therapy. At endpoint, 33% of the paroxetine-treated patients showed a reduction to 0 or 1 panic attacks compared to 14% of placebo-treated patients. In Studies 2 and 3, the mean paroxetine dose for completers at endpoint was approximately 40 mg daily.

Long-term efficacy of paroxetine in PD was demonstrated in an extension to Study 1. Patients who responded to paroxetine during the 10-week double-blind phase and during a 3-month double-blind extension phase were randomized to either paroxetine 10 mg, 20 mg, or 40 mg daily or placebo in a 3-month double-blind relapse prevention phase. Patients randomized to paroxetine were statistically significantly less likely to relapse than placebo-treated patients.

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

14.4 Social Anxiety Disorder

The effectiveness of paroxetine in the treatment of social anxiety disorder (SAD) was demonstrated in three 12-week, multicenter, placebo-controlled studies (Studies 1, 2, and 3) of adult outpatients with SAD (DSM-IV). In these studies, the effectiveness of paroxetine compared to placebo was evaluated on the basis of (1) the proportion of responders, as defined by a Clinical Global Impression (CGI) Improvement score of 1 (very much improved) or 2 (much improved), and (2) change from baseline in the Liebowitz Social Anxiety Scale (LSAS).

Studies 1 and 2 were flexible-dose studies comparing paroxetine 20 mg to 50 mg daily

placebo. paroxetine demonstrated statistically significant superiority over placebo on both the CGI Improvement

responder criterion and the Liebowitz Social Anxiety Scale (LSAS). In Study 1, for patients who completed to week 12, 69% of paroxetine-

treated patients compared to 29% of placebo-

treated patients were CGI Improvement responders. In Study 2, CGI Improvement responders were 77% and 42% for the paroxetineand placebo-treated patients, respectively.

Study 3 was a 12-

week study comparing fixed doses of paroxetine 20 mg, 40 mg, or 60 mg daily with placebo. Paroxetine 20 mg was statistically significantly superior to placebo on both the LSAS Total Score and the CGI Improvement responder criterion; there were trends for superiority over placebo for the paroxetine 40 mg and 60 mg daily dose groups. There was no indication in this study of any additional benefit for doses higher than 20 mg daily.

Subgroup analyses generally did not indicate differences in treatment outcomes as a function of age, race, or gender.

14.5 Generalized Anxiety Disorder

The effectiveness of paroxetine in the treatment of generalized anxiety disorder (GAD) was demonstrated in two 8-week, multicenter, placebo-controlled studies (Studies 1 and 2) of adult outpatients with GAD (DSM-IV).

Study 1 was an 8-week study comparing fixed doses of paroxetine 20 mg or 40 mg daily with placebo. Doses of paroxetine 20 mg or 40 mg were both demonstrated to be statistically significantly superior to placebo on the Hamilton Rating Scale for Anxiety (HAM-A) total scars.

There was not sufficient evidence in this study to suggest a greater benefit for the paroxetine 40 mg daily dose compared to the 20 mg daily dose.

Study 2 was a flexible-

dose study comparing paroxetine 20 mg to 50 mg daily and placebo. Paroxetine demonstrated statistically significant superiority over placebo on the Hamilton Rating Scale for Anxiety (HAM-A) total score.

A third study, a flexible-dose study comparing paroxetine 20 mg to 50 mg daily to placebo, did not demonstrate statistically significant superiority of paroxetine over placebo on the Hamilton Rating Scale for Anxiety (HAM-A) total score, the primary outcome.

Subgroup analyses did not indicate differences in treatment outcomes as a function of race

or gender. There were insufficient elderly patients to conduct subgroup analyses on the basis of age.

In a long-term trial, 566 patients meeting DSM-IV criteria for GAD, who had responded during a single-blind, 8-week acute treatment phase with paroxetine 20 mg to 50 mg daily, were randomized to continuation of paroxetine at their same dose, or to placebo, for up to 24 weeks of observation for relapse. Response during the single-blind phase was defined by having a decrease of ≥ 2 points compared to baseline on the CGI-Severity of Illness scale, to a score of ≤ 3 . Relapse during the double-blind phase was defined as an increase of ≥ 2 points compared to baseline on the CGI-Severity of Illness scale to a score of ≥ 4 , or withdrawal due to lack of efficacy. Patients continuing to receive paroxetine experienced a statistically significantly lower relapse rate over the subsequent 24 weeks compared to those receiving placebo.

14.6 Posttraumatic Stress Disorder

The effectiveness of paroxetine in the treatment of Posttraumatic Stress Disorder (PTSD) was demonstrated in two 12-week, multicenter, placebo-controlled studies (Studies 1 and 2) of adult outpatients who met DSM-IV criteria for PTSD. The mean duration of PTSD symptoms for the 2 studies combined was 13 years (ranging from 0.1 year to 57 years). The percentage of patients with secondary MDD or non-PTSD anxiety disorders in the combined 2 studies was 41% (356 out of 858 patients) and 40% (345 out of 858 patients), respectively. Study outcom

(356 out of 858 patients) and 40% (345 out of 858 patients), respectively. Study outcome was assessed by (1) the Clinician-Administered PTSD Scale Part 2 (CAPS-2) score and (2) the Clinical Global Impression-Global Improvement Scale (CGI-I). The CAPS-2 is a multitem instrument that measures 3 aspects of PTSD with the following symptom clusters: Reexperiencing/intrusion, avoidance/numbing and hyperarousal. The 2 primary outcomes for each trial were (1) change from baseline to endpoint on the CAPS-2 total score (17 items), and (2) proportion of responders on the CGI-I, where responders were defined as patients having a score of 1 (very much improved) or 2 (much improved).

Study 1 was a 12-week study comparing fixed doses of paroxetine 20 mg or 40 mg daily to placebo. Doses of paroxetine 20 mg and 40 mg were demonstrated to be statistically significantly superior to placebo on change from baseline for the CAPS-2 total score and on proportion of responders on the CGI-I. There was not sufficient evidence in this study to suggest a greater benefit for the 40 mg daily dose compared to the 20 mg daily dose. Study 2 was a 12-week flexible-dose study comparing paroxetine 20 mg to 50 mg daily to placebo. Paroxetine was demonstrated to be significantly superior to placebo on change from baseline for the CAPS-2 total score and on proportion of responders on the CGI-I.

A third study, a flexible-dose study comparing paroxetine 20 mg to 50 mg daily to placebo, demonstrated paroxetine to be statistically significantly superior to placebo on change from baseline for CAPS-

2 total score, but not on proportion of responders on the CGI-I.

The majority of patients in these trials were women (68% women: 377 out of 551 subjects in Study 1 and 66% women: 202 out of 303 subjects in Study 2). Subgroup analyses did not indicate differences in treatment outcomes as a function of gender. There were an insufficient number of patients who were 65 years and older or were non-Caucasian to conduct subgroup analyses on the basis of age or race, respectively.

16 HOW SUPPLIED/STORAGE AND HANDLING

30 mg, White to Off White, Engraved "APO" on one side & "101" on the other side

NDC: 70518-1460-00 NDC: 70518-1460-01 NDC: 70518-1460-02

PACKAGING: 90 in 1 BOTTLE PLASTIC

PACKAGING: 100 in 1 BOX PACKAGING: 1 in 1 POUCH

Store tablets between 20°C and 25°C (68°F and 77°F) excursions permitted from 15°C

to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

Repackaged and Distributed By:

Remedy Repack, Inc.

625 Kolter Dr. Suite #4 Indiana, PA 1-724-465-8762

17 PATIENT COUNSELING INFORMATION

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

Sexual Dysfunction

Advise patients that use of paroxetine tablets 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 (5.13)].

Suicidal Thoughts and Behaviors

Advise patients and caregivers to look for the emergence of suicidality, especially early during treatment and when the dosage is adjusted up or down, and instruct them to report such symptoms to the healthcare provider [see Boxed Warning and Warnings and Precautions (5 1)]

Serotonin Syndrome

Caution patients about the risk of serotonin syndrome, particularly with the concomitant use of paroxetine 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 healthcare provider or report to the emergency room if they experience signs or symptoms of serotonin syndrome [see Warnings and Precautions (5)].

Concomitant Medications

Advise patients to inform their physician if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for drug-drug interactions [see Warning and Precautions (5.3), Drug Interactions (7)].

Increased Risk of Bleeding

Inform patients about the concomitant use of paroxetine 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 (5.5)].

Activation of Mania/Hypomania

Advise patients and their caregivers to observe for signs of activation of mania/hypomania and instruct them to report such symptoms to the healthcare provider [see Warnings and Precautions (5.6)].

Discontinuation Syndrome

Advise patients not to abruptly discontinue paroxetine and to discuss any tapering regimen with their healthcare provider. Inform patients that adverse reactions can occur when paroxetine is discontinued [see Warnings and Precautions (5.7)].

Allergic Reactions

Advise patients to notify their healthcare provider if they develop an allergic reaction such as rash, hives, swelling, or difficulty breathing [see Adverse Reactions (6.1, 6.2)].

Embryo-Fetal Toxicity

Advise women of the potential risk to the fetus [see Warnings and Precautions (5.4), Use in Specific Populations (8.1)]. Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during therapy because of the risk to the fetus.

Nursing

Advise women to notify their healthcare provider if they are breastfeeding an infant [see Use In Specific Populations (8.3)].

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MEDICATION GUIDE

Paroxetine (pa rox' e teen)Tablets, USP

 $\label{lem:medication} \mbox{Medication Guide available at https://www.apotex.com/products/us/mg.asp\ to\ each\ patient.}$

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

Paroxetine tablets can cause serious side effects, including:

• Increased risk of suicidal thoughts or actions. Paroxetine tablets and other

antidepressant medicines may increase suicidal thoughts and actions in some people 24 years of age and younger, especially within the first few months of treatment or when the dose is changed. Paroxetine tablets are not for use in children.

- Depression or 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?
- 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 or if you develop suicidal thoughts or
- 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 have any of the following symptoms, especially if they are new, worse, or worry you:

- · o attempts to commit suicide
 - o acting aggressive or violent
 - o new or worse depression
 - o feeling agitated, restless, angry, or irritable

 - o an increase in activity and talking more than what is normal for you
 - o acting on dangerous impulses
 - o thoughts about suicide or dying
 - new or worse anxiety or panic attacks
 - trouble sleeping
 - other unusual changes in behavior or mood

What are Paroxetine tablets?

Paroxetine tablets are the prescription medicine used in adults to treat:

- A certain type of depression called Major Depressive Disorder (MDD)
- Obsessive Compulsive Disorder (OCD)
- Panic Disorder (PD)
- Social Anxiety Disorder (SAD)
- Generalized Anxiety Disorder (GAD)
- Posttraumatic Stress Disorder (PTSD)

Do not take Paroxetine 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 the intravenous methylene blue
- are taking pimozide
- · are taking thioridazine
- are allergic to paroxetine or any of the ingredients in paroxetine tablets. See the end of this Medication Guide for a complete list of ingredients in paroxetine tablets.

Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI or one of these medicines, including the antibiotic linezolid or intravenous methylene blue.

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

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

- · have heart problems
- · have or had bleeding problems
- have, or have a family history of, bipolar disorder, mania or hypomania
- · have or had seizures or convulsions
- · have glaucoma (high pressure in the eye)
- have low sodium levels in your blood
- have bone problems
- · have kidney or liver problems
- are pregnant or plan to become pregnant. paroxetine may harm your unborn baby. Talk to your healthcare provider about the risks to your unborn baby if you take paroxetine tablets during pregnancy. Tell your healthcare provider right away if you become pregnant or think you are pregnant during treatment with paroxetine tablets.
- are breastfeeding or plan to breastfeed. Paroxetine passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby during treatment with paroxetine tablets.

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

Paroxetine tablets and some other medicines may affect each other causing possible serious side effects. Paroxetine tablets may affect the way other medicines work and other medicines may affect the way paroxetine tablets works.

Especially tell your healthcare provider if you take:

- · medicines used to treat migraine headaches called 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 antiinflammatory drugs (NSAIDs), warfarin
- diuretics
- tamoxifen
- medicines used to treat mood, anxiety, psychotic, or thought disorders, including selective serotonin reuptake (SSRIs) and serotonin norepinephrine reuptake inhibitors

medicines. Your healthcare provider can tell you if it is safe to take paroxetine tablets with your other medicines

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

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

What are possible side effects of Paroxetine tablets?

Paroxetine tablets can cause serious side effects, including:

- See, "What is the most important information I should know about $\label{eq:see_see} % \begin{center} \begin{c$ paroxetine tablets?"
- **Serotonin syndrome.** A potentially life-threatening problem called serotonin syndrome can happen when you take paroxetine tablets with certain other medicines. See, "Who should not take paroxetine 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
 - seeing or hearing things that are not real (hallucinations)
- confusion
- o coma
- fast heart beat
- o changes in blood pressure
- dizziness
- sweating
- flushing
- high body temperature (hyperthermia)
- o shaking (tremors), stiff muscles, or muscle twitching
- o loss of coordination
- seizures
- o nausea, vomiting, diarrhea
- Eye problems (angle-closure glaucoma). Paroxetine tablets may cause a type of eye problem called angle-closure glaucoma in people with certain other eye conditions. You may want to undergo an eye examination to see if you are at risk and receive preventative treatment if you are. Call your healthcare provider if you have eye pain, changes in your vision, or swelling or redness in or around the eye.
- Medicine interactions. Taking paroxetine tablets with certain other medicines including thioridazine and pimozide may increase the risk of developing a serious heart problem called QT prolongation .
- Seizures (convulsions).
- Manic episodes. Manic episodes may happen in people with bipolar disorder who take paroxetine tablets. Symptoms may include:
- o greatly increased energy
- o severe problems sleeping
- racing thoughts
- o reckless behavior
- unusually grand ideas
- o excessive happiness or irritability
- · talking more or faster than usual
- Discontinuation syndrome. Suddenly stopping paroxetine tablets may cause you to have serious side effects. Your healthcare provider may want to decrease your dose slowly. Symptoms may include:
 - o nausea
 - sweating
 - o changes in your mood
 - o irritability and agitation
 - dizziness
 - o electric shock feeling (paresthesia)
 - tremor
 - anxiety
 - o confusion
 - headache
 - o tiredness
 - o problems sleeping
 - hypomania
 - o ringing in your ears (tinnitus)
 - seizures
- · Low sodium levels in your blood (hyponatremia).Low sodium levels in your blood that may be serious and may cause death, can happen during treatment with paroxetine tablets. Elderly people and people who take certain medicines may be at a greater risk for developing low sodium levels in your blood. Signs and symptoms may include:
 - headache
 - difficulty concentrating
 - memory changes
 - confusion
 - · weakness and unsteadiness on your feet which can lead to falls

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

- seeing or hearing things that are not real (hallucinations)
 - fainting
- seizures
- o coma
- stopping breathing (respiratory arrest)

- Abnormal bleeding. Taking paroxetine tablets with aspirin, NSAIDs, or blood thinners may increase this risk. Tell your healthcare provider about any unusual bleeding or bruising.
- Bone fractures.
- Sexual problems (dysfunction). Taking selective serotonin reuptake inhibitors (SSRIs), including paroxetine tablets, may cause sexual problems.

Symptoms in males may include:

- o Delayed ejaculation or inability to have an ejaculation
- Decreased sex drive
- o Problems getting or keeping an erection

Symptoms in females may include:

- Decreased sex drive
- o 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 paroxetine. There may be treatments your healthcare provider can suggest.

The most common side effects of paroxetine tablets include:

- male and female sexual function problems
- weakness (asthenia)
- constipation
- decreased appetite
- diarrhea
- dizziness
- dry mouth
- infection · problems sleeping
- nausea
- nervousness
- sleepiness
- sweating
- shaking (tremor)
- yawning

These are not all the possible side effects of paroxetine 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 paroxetine tablets?

Store paroxetine tablets between 59°F to 86°F (15°C to 30°C).

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

General information about the safe and effective use of paroxetine tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not take paroxetine tablets for a condition for which it was not prescribed. Do not give paroxetine 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 paroxetine tablets that is written for healthcare professionals.

What are the ingredients in paroxetine tablets?

Active ingredient:paroxetine hydrochloride

Inactive ingredients:

Tablets: anhydrous lactose, hydroxypropyl cellulose, hypromellose, magnesium stearate, polyethylene glycol, sodium starch glycolate and titanium dioxide.

PAROXETINE TABLETS, USP

Repackaged By / Distributed By: RemedyRepack Inc.

625 Kolter Drive, Indiana, PA 15701

(724) 465-8762

PRINCIPAL DISPLAY PANEL

DRUG: PAROXETINE

GENERIC: paroxetine hydrochloride DOSAGE: TABLET, FILM COATED

NDC: 70518-1460-0 NDC: 70518-1460-1 NDC: 70518-1460-2 COLOR: white SHAPE: OVAL SCORE: No score

SIZE: 13 mm IMPRINT: APO;084

ADMINSTRATION: ORAL

PACKAGING: 90 in 1 BOTTLE. PLASTIC

PACKAGING: 100 in 1 BOX PACKAGING: 1 in 1 POUCH

ACTIVE INGREDIENT(S):

• PAROXETINE HYDROCHLORIDE ANHYDROUS 30mg in 1

INACTIVE INGREDIENT(S):

- ANHYDROUS LACTOSE
- HYDROXYPROPYL CELLULOSE (1600000 WAMW)

- HYPROMELLOSE, UNSPECIFIED
- MAGNESIUM STEARATE
- POLYETHYLENE GLYCOL 8000
- SODIUM STARCH GLYCOLATE TYPE A POTATO
- TITANIUM DIOXIDE

PAROXETINE

Item Code

1 NDC:70518-1460-0

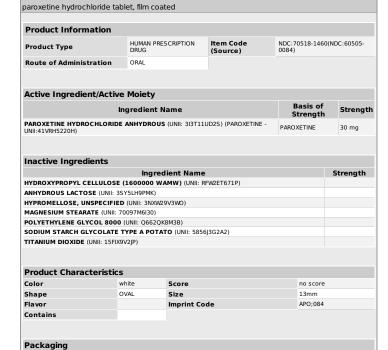
2 NDC:70518-1460-1

2 NDC:70518-1460-2









Package Description

1 in 1 POUCH; Type 0: Not a Combination Product

90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product

100 in 1 BOX

Marketing Start Date

10/04/2018

11/09/2020

Marketing End Date

Marketing Information							
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date				
ANDA	ANDA075356	10/04/2018					

Labeler - REMEDYREPACK INC. (829572556)

Revised: 1/2024 REMEDYREPACK INC.