

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use Venlafaxine Extended-Release Tablets safely and effectively. See full prescribing information for Venlafaxine Extended-Release Tablets. nlafaxine Extended-Release Tablets (venlafaxine hydrochloride) for Oral use

Initial U.S. Approval: 1993

WARNING: Suicidality and Antidepressants See full prescribing information for complete boxed warning. Increased risk of suicidal thinking and behavior in children, adolescents and young adults taking antidepressant

for major depressive disorder (MDD) and other psychiatric disorders. Venlafaxine extended-release tablets are no approved for use in pediatric patients. (5.1)

-RECENT MAJOR CHANGES-Warning and Precautions (5.18) 8/2021

-INDICATIONS AND USAGE--Venlafaxine extended-release tablets are a selective serotonin and norepinephrine reuptake inhibitor (SNRI) indicated for: Major Depressive Disorder (MDD) (1.1)

Social Anxiety Disorder (SAD) (1.2)

-DOSAGE AND ADMINISTRATION--Initial Treatment (2.1)

Indication Starting Dose Dose Increase Maximum Dose Major 75 mg/day 225 mg/day 75 mg/day (in Depressive some patients. increments 37.5 mg/day at intervals for 4-7 days) of 4 days or longer No benefit Social 75 mg/day 75 mg/day Anxiety at higher Disorde doses

· Venlafaxine extended-release tablets should be taken as a single daily dose with food in either the morning or evening at the same time each day. (2)

Discontinuation: Gradual; individualized as necessary. (2.4)

---DOSAGE FORMS AND STRENGTHS • 37.5 mg, 75 mg, 150 mg, and 225 mg tablets (3)

--CONTRAINDICATIONS-

 Serotonin Syndrome and MAOIs: Do not use MAOI's intended to treat psychiatric disorders with venlafaxine extended-release tablets or within 7 days of stopping treatment with venlafaxine extended-release tablets. Do not use venlafaxine extendedrelease tablets within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start venlafaxine extended-release tablets in a patient who is being treated with linezolid or intravenous methylene blue (4.1). -----WARNINGS AND PRECAUTIONS----

- · Serotonin Syndrome: Sertotonin syndrome has been reported with SSRIs and SNRIs, including venlafaxine extended-release tablets, both when taken alone, but especially when co-administered with other serotonergic agents (including triptans, tricvclic antidepressants, fentanyi, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort). If such symptoms occur, discontinue venlafaxine extended-release tablets and initiate supportive treatment. If concomitant use of venlafaxine extended-release tablets with other serotonergic drugs is clinically warranted, patients should be made aware of a potential ncreased risk for serotonin syndrome, particularly during treatment initiation and dose increases. (5.2).
- Suicidality: Monitor for clinical worsening and suicide risk. (5.1) Sustained hypertension may occur. Blood pressure monitoring recommended. (5.3)
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WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

ants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in childre adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of venlafaxine extended-release tablets or any other antidepressant in a child. ent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase

 Angle Closure Glaucoma: Angle closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.4) Abrupt discontinuation or dose reduction: Discontinuation symptoms may occur (generally self-limiting; serious symptoms

- possible). Dose reduction recommended to be gradual. (5.5)
- Activation of Mania/Hypomania has occurred. (5.10) Symptomatic hyponatremia may occur. (5.11)
- Seizures have been reported. Use with caution in patients with seizure history. (5.12)

Abnormal bleeding (most commonly ecchymosis) has been reported. (5.13) Serum cholesterol: Clinically relevant cholesterol increases may occur. Cholesterol measurements should be considered during long-term therapy. (5.14)

- Interstitial lung disease and eosinophilic pneumonia have been reported. (5.15)
- Sexual Dysfunction: Venlafaxine extended-release tablets may cause symptoms of sexual dysfunction. (5.18)

----ADVERSE REACTIONS--Major Depressive Disorder-Adverse events in short-term studies that occurred in at least 5% of the patients receiving venlafaxine

extended-release capsules and at a rate at least twice that of the placebo group were abrormal ejaculation, gastrointestinal complaints (nausea, dry mouth, and anorexia), CNS complaints (dizziness, somnolence, and abnormal dreams), and sweating. Social Anxiety Disorder-Adverse events in short-term studies that occurred in at least 5% of the natients receiving venlafaving extended-release capsules and at a rate at least twice that of the placebo group were asthenia, gastrointestinal complaints (anorexia, dry mouth, nausea), CNS complaints (anxiety, insomnia, libido decreased, nervousness, somnolence, dizziness), anormalities of sexual function (abnormal jaculation, organic dystanction, impotence), yawn, sweating, and abnormalities of sexual function (abnormal vision. To report SUSPECTED ADVERSE REACTIONS, contact Camber Pharmaceuticals, Inc., at 1-866-495-8330 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS--

· MAOI's: concomitant use contraindicated (4). Avoid MAOI's 14 days before starting venlafaxine and 7 days after stopping venlafaxine (5.2) • Cimetidine: Caution in patients with pre-existing hypertension, in elderly patients and patients with hepatic dysfunction. (7.2)

- Haloperidol: Increase in Haloperidol AUC and C_{max}. (7.4)
 Ketoconazole: Increase in venlafaxine and 0-desmethylvenlafaxine AUC and C_{max}. Caution when using venlafaxine with
- substances that inhibit both CYP2D6 and CYP3A4. (7.7)

Metoprolol: Possibly reduced blood-pressure lowering effect despite increased metoprolol plasma levels. Caution should be exercised with co-administration of venlafaxine and metoprolol. (7.8)

- CNS-active drugs: Caution when using venlafaxine with such drugs. (7.10)
- Serotonergic drugs (e.g., triptans, SSRIs, other SNRIs, linezolid, lithium, tramadol, or St. John's Wort): Potential for serotonin syndrome. Careful patient observation advised. (7.10)

Pregnancy: Use during pregnancy only if clearly needed. Neonates exposed to venlafaxine in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Benefits and risk of venlafaxine use in the third trimester should be carefully considered. (2.3; 8.1)

Nursing: Potential for serious adverse reactions in the infant. Discontinue nursing or drug, considering the importance of the drug to the mother. (8.3)

Pediatric use: Not approved for use in pediatric patients. When considering use in a child or adolescent, balance potential risks with clinical need. (8.4) Hepatic impairment: Reduction of total daily dose by 50% recommended in patients with mild to moderate impairment. In

patients with cirrhosis, further reduction may be necessary and dosing individualization may be desirable. (2.3; 8.6) Renal impairment: Reduction of daily dose by 25-50% recommended. Dosing individualization may be necessary. (2.3; 8.7) Hemodialysis: Reduction of daily dose by 50%. (2.3; 8.7)

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Revised: 10/21

irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by lies and caregivers.

Prescriptions for venlafaxine extended-release tablets should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/ concort a half in a dealing dark independent of the second and the screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that venlafaxine extended-release tablets are not approved for use in treating bipolar depression.

5.2 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs including The development of a potentially merunatering seriouring synothie has been reported with synos and Sans, including ventalaxine extended-release tablets, alone but particularly with concentratin use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, busipirone, amphetamines, and SL John's Wort), and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome.

The concomitant use of venlafaxine extended-release tablets with MAOIs intended to treat psychiatric disorders is contraindicated. Venlafaxine extended-release tablets should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved ous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses.

There may be circumstances when it is necessary to initiate treatment with a MAOI such as linezolid or intravenous methylene blue in a patient taking venlafaxine extended-release tablets. Venlafaxine extended-release tablets should be discontinued before nitiating treatment with the MAOI. [see Contraindications (4.1) and Dosage and Administration (2.6 and 2.7)].

If concomitant use of venlafaxine extended-release tablets with other serotonergic drugs including triptans, tricyclic anti fentanyl, lithium, tramadol, buspirone, tryptophan, amphetamines, and St. John's Wort is clinically warranted, patients should be aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. Treatment with venlafaxine extended-release tablets and any concomitant serotonergic agents should be discontinued immediately

if the above events occur and supportive symptomatic treatment should be initiate

5.3 Sustained Hypertension Venlafaxine hydrochloride extended-release capsule treatment is associated with sustained hypertension (defined as treatmentemergent supine diastolic blood pressure (SDBP) ≥90 mm Hg and ≥10 mm Hg above baseline for 3 consecutive on-therapy visits) (see Table 2).

An analysis for patients in venlafaxine hydrochloride immediate-release tablet studies meeting criteria for sustained hyp revealed a dose-dependent increase in the incidence of sustained hypertension for immediate-release venlafaxine hydrochloride (see Table 3).

An insufficient number of patients received mean doses of venlafaxine hydrochloride extended-release capsules over 300 mo/day to fully evaluate the incidence of sustained increases in blood pressure at these higher dose

Table 2: Number (%) of Sustained Elevations in SDBP in Venlafaxine Hydrochloride Extended-Release Capsule Premarketing Studies by Indication			
Major Depressive Disorder (75-375 mg/day)	Other Clinical Trials (75-225 mg/day)		
19/705 (3)	5/771 (0.6)		
Table 3: Incidence (%) of Sustained Elevations in SDBP in Venlafaxine Hydrochloride Immediate-Release Tablet Studies			
Venlafaxine mg/day Incidence			
<100	3%		
>100 to ≤200	5%		
>200 to ≤300	7%		
>300	13%		

In premarketing major depressive disorder studies, 0.7% (5/705) of the venlafaxine hydrochloride extended-release capsule treated patients discontinued treatment because of elevated blood pressure. Among these patients, most of the blood pressure increases were in a modest range (12 to 16 mm Hg, SDBP). In other clinical studies, 0.6% (5/771) of the venlafaxine hydrochloride extended-release capsule-treated patients discontinued treatment because of elevated blood pressure. In these patients, the blood pressure increases were modest (1 to 24 mm Hg, SDBP).

Sustained increases of SDBP could have adverse consequences. Cases of elevated blood pressure requiring immediate treat have been reported in post marketing experience.

Pre-existing hypertension should be controlled before treatment with venlafaxine. It is recommended that patients receiving ventafaxine extended release tablets have regular monitoring of blood pressure. For patients who experience a sustained increase in blood pressure while receiving ventafaxine, either dose reduction or discontinuation should be considered.

In placebo-controlled premarketing studies, there were changes in mean blood pressure (see Table 4 for mean change in supine

systolic and supine diastolic blood pressure. Across most indications, a dose-related increase in supine systolic and diastolic blood pressure was evident in venlafaxine hydrochloride extended-release capsule-treated patients.

Table 4: Final On-Therapy Mean Changes from Baseline in Supine Systolic and Diastolic Blood Pressure (mm Hg) Results by

Venlafaxine Hydrochloride Extended-Release Capsules

mg/day

Indication, Study Duration, and Dose in Placebo-Controlled Trials

SSBP

2.93

1.18

Across all clinical trials, 1.4% of patients in the venlafaxine hydrochloride extended-release capsule-treated groups experienced

 $a \ge 15$ mm Ha increase in supine diastolic blood pressure with blood pressure ≥ 105 mm Ha compared to 0.9% of patients in the a 213 min rg increase in supine viasionic blood pressure with blood pressure 2103 min rg compared to 0.3% of patients in the vehiclarian hydrochoride extended-release capsule-treated groups experienced as ≥ 20 mm Hg increase in supine systolic blood pressure with blood pressure ≥ 180 mm Hg compared to 0.3% of patients in the

Angle-Closure Glaucoma: The pupillary dilation that occurs following use of many antidepressant drugs including venlafaxine may

trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy.

>75

SDBP

3.56

1.34

Placebo

SDBP

-0.10

-1.22

SSBF

-1.08

-1.96

Elevations in Systolic and Diastolic Blood Pressure

≤75

SDBP²

0.37

-1.26

SSBP¹

-0.28

-0.29

5.5 Discontinuation of Treatment with Venlafaxine Extended-Release Tablets

in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Venlafaxine extended-release tablets are not approved for use in pediatric patients. [see Warnings and Precautions (5.1) and Patient Counseling Information (17.1)]

1 INDICATIONS AND USAGE

1.1 Major Depressive Disorder

Venlafaxine extended-release tablets are indicated for the treatment of major depressive disorder (MDD).

Efficacy of venlafaxine in MDD was shown in both short-term trials and a longer-term trial in MDD [see Clinical Studies (14.1)]. A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depresse mood or the loss of interest or pleasure in nearly all activities, representing a change from previous functioning, and includes the presence of at least five of the following nine symptoms during the same two-week period: depressed mood, markedly diminished interest or pleasure in usual activities, significant change in weight and/or appetite, insomnia or hypersonnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, a suicide attempt or suicidal ideation

1.2 Social Anxiety Disorder

ded-release tablets are indicated for the treatment of Social Anxiety Disorder (SAD), also known as Social Phobia, Venlafaxine extended-r as defined in DSM-IV.

Social Anxiety Disorder (DSM-IV) is characterized by a marked and persistent fear of 1 or more social or performance situations in which the person is exposed to unfamiliar people or to possible scrutiny by others. Exposure to the feared situation almost invariably provokes anxiety, which may approach the intensity of a panic attack. The feared situations are avoided or endured with intense anxiety or distress. The avoidance, anxious anticipation, or distress in the feared situation(s) interferes significantly with the person's normal routine, occupational or academic functioning, or social activities or relationships, or there is a marked distress about having the phobias. Lesser degrees of performance anxiety or shyness generally do not require psychopharmacological treatment

Efficacy of venlafaxine extended-release in the treatment of SAD was established in short-term SAD trials [see Clinical Studies (14.2)].

2 DOSAGE AND ADMINISTRATION

Venlafaxine extended-release tablets should be administered in a single dose with food either in the morning or in the evening at approximately the same time each day. Each tablet should be swallowed whole with fluid and not divided, crushed, chev placed in water.

2.1 Initial Treatment

Major Depressive Disorder

For most patients, the recommended starting dose for venlafaxine extended-release tablets is 75 mg/day, administered in a single dose. In the clinical trials establishing the efficacy of venlafaxine hydrochloride extended-release capsules in moderately depre outpatients, the initial dose of veniafaxine was 75 mg/day. For some patients, it may be desirable to start at 37.5 mg/day for 4 to 7 days, to allow new patients to adjust to the medication before increasing to 75 mg/day. While the relationship between dose and antidepressant response for veniafaxine hydrochloride extended-release capsules has not been adequately explored, patients not responding to the initial 75 mg/day dose may benefit from dose increases to a maximum of approximately 225 mg/day. Dose increases should be in increments of up to 75 mg/day, as needed, and should be made at intervals of not less than 4 days, since steady state plasma levels of venlafaxine and its major metabolites are achieved in most patients by day 4. In the clinical trials establishing efficacy, upward titration was permitted at intervals of 2 weeks or more; the average doses were about 140 to 180 mg/day [see Clinical Studies (14)].

It should be noted that, while the maximum recommended dose for moderately depressed outpatients is also 225 mg/day for venlafaxine hydrochloride immediate-release tablets, more severely depressed inpatients in one study of the development program for that product responded to a mean dose of 350 mg/day (range of 150 to 375 mg/day). Whether or not higher doses of venlafaxine extended-release tablets are needed for more severely depressed patients is unknown; however, the experience with venlafaxine hydrochloride extended-release capsule doses higher than 225 mg/day is very limited. [see Warnings and Precautions (5.17]]

Social Anxiety Disorder (Social Phobia)

The recommended dose is 75 mg/day, administered in a single dose. There was no evidence that higher doses confer any additional benefit. [see Warnings and Precautions (5.17)]

2.2 Maintenance Treatment

There is no body of evidence available from controlled trials to indicate how long patients with major depressive disorder should be treated with venialaxine extended-release tablets. It is generally agreed that acute episodes of major depressive disorder require several months or longer of sustained

pharmacological therapy beyond response to the acute episode. In one study, in which patients responding during 8 weeks of acute treatment with venlafaxine hydrochloride extended-release capsules were assigned randomly to placebo or to the same does of venlafaxine hydrochloride extended-release capsules (75, 150, or 225 mg/day, qAM) during 26 weeks of maintenance treatment as they had received during the acute stabilization phase, longer-term efficacy was demonstrated. A second longer-term study has demonstrated the efficacy of ventafaxine hydrochloride immediate-release tablets in maintaining a response in patients with recurrent major depressive disorder who had responded and continued to be improved during an initial 26 weeks of treatment and were then randomly assigned to placebo or venlafaxine hydrochloride immediate-release tablets for periods of up to 52 weeks on the same dose (100 to 200 mg/day, on a b.i.d. schedule) [see Clinical Studies (14)]. Based on these limited data, it is not known whether or not the dose of venlafaxine extended-release tablets needed for maintenance treatment is identical to the dose needed to achieve an initial response. Patients should be periodically reassessed to determine the need for maintenance treatment and the appropriate dose for such treatment

2.3 Special Populations

Treatment of Pregnant Women During the Third Trimester

Neonates exposed to venlafaxine hydrochloride extended-release capsules, other SNRIs, or SSRIs, late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1)]. When treating pregnant women with venlafaxine extended-release tablets during the third trimester, the physician should carefully consider the potential risks and benefits of treatment.

Patients with Hepatic Impairment

Given the decrease in clearance and increase in elimination half-life for both venlafaxine and ODV that is observed in patients with hepatic cirrhosis and mild and moderate hepatic impairment compared with normal subjects [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)], it is recommended that the total daily dose be reduced by 50% in patients with mild to moderate hepatic impairment. Since there was much individual variability in clearance between patients with cirrhosis, it may be necessary to reduce the dose even more than 50%, and individualization of dosing may be desirable in some patients

Patients with Renal Impairment

Given the decrease in clearance for venlafaxine and the increase in elimination half-life for both venlafaxine and ODV that is observed in patients with renal impairment (GFR = 10 to 70 mL/min) compared with normal subjects [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)], it is recommended that the total daily dose be reduced by 25% to 50%.

In patients undergoing hemodialysis, it is recommended that the total daily dose be reduced by 50%. Because there was much individual variability in clearance between patients with renal impairment, individualization of dosage may be desirable in some patients.

Elderly Patients

No dose adjustment is recommended for elderly patients solely on the basis of age. As with any drug for the treatment of major depressive disorder or Social Anxiety Disorder, however, caution should be exercised in treating the elderly. When individualizing the dosage, extra care should be taken when increasing the dose.

2.4 Discontinuing Venlafaxine Extended-Release Tablets

Symptoms associated with discontinuation of venlafaxine hydrochloride extended-release capsules, other SNRI's, and SSRI's

Depressed patients who are currently being treated at a therapeutic dose with venlafaxine hydrochloride immediate-release tablets

intervals. Individualization of tapering may be necessary.

* Sections or subsections omitted from the full prescribing information are not listed

may be switched to venlafaxine extended-release tablets at the nearest equivalent dose (mg/day), e.g., 37.5 mg venlafaxine two-times-a-day to 75 mg venlafaxine extended-release tablets once daily. However, individual dosage adjustments may be necessary. 2.6 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorder

have been reported [see Warnings and Precautions (5.5)]. Patients should be monitored for these symptoms when discontinuing

treatment. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed

dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate. In clinical trials

with venlafaxine hydrochloride extended-release capsules, tapering was achieved by reducing the daily dose by 75 mg at 1 week

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with ventafaxine extended-release tablets. Conversely, at least 7 days should be allowed after stopping ventafaxine extended-release tablets before starting an MAOI intended to treat psychiatric disorders [see Contraindications (4.1)].

2.7 Use of Venlafaxine Extended-Release Tablets with Other MAOIs, Such as Linezolid or Methylene Blue

Do not start venlafaxine extended-release tablets in a patient who is being treated with linezolid or intravenous methylene blue because there is increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.1)]. In some cases, a patient already receiving venlafaxine extended-release tablets therapy may require urgent treatment with linezolid

or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, venlafaxine extended-release tablets should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for 7 days or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with venlafaxine extended-release tablets may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue [see Warnings and Precautions (5.2)]. The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with venlafaxine extended-release tablets is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use [see Warnings and Precautions (5.2)]. 3 DOSAGE FORMS AND STRENGTHS

axine extended-release tablets are available as:

37.5 mg tablets (White to off white, film coated, round biconvex tablets printed with "392" in black ink)

75 mg tablets (White to off white, film coated, round biconvex tablets printed with "393" in black ink) 150 mg tablets (White to off white, film coated, round biconvex tablets printed with "394" in black ink) 225 mg tablets (White to off white, film coated, round biconvex tablets printed with "395" in black ink

4 CONTRAINDICATIONS

4.1 Monoamine Oxidase Inhibitors (MAOIs)

The use of MAOI's intended to treat psychiatric disorders with venlafaxine extended-release tablets or within 7 days of stopping treatment with ventafaxine extended-release tablets is contraindicated because of an increased risk of serotonin syndruse of ventafaxine extended-release tablets within 14 days of stopping an MAOI intended to treat psychiatric disorde nded to treat psychiatric disorders is als contraindicated. [see Dosage and Administration (2.6) and Warnings and Precautions (5.2)].

Starting ventafaxine extended-release tablets in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue is also contraindicated because of an increased risk of serotonin syndrome [see Dosage and Administration (2.7) and Warnings and Precautions (5.2).

5 WARNINGS AND PRECAUTIONS

5.1 Clinical Worsening and Suicide Risk

Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/ radients war major depressive usorder (mbb), our addie and peruarts, may experience workering or une depression and or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or The pole analyses of placebo-controlled trials in children and adolescents with mbb, observe comparise discrete (oc), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The poled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials

(median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1.

Table 1

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 additional cases
	Decreases Compared to Placebo
25-64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression

All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (bychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients

whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to vorsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms [see Dosage and Administration (2.5) and Warnings and

Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation,

clinical trials and retrospective surveys of trials in major depressive disorder and social anxiety disorder. Abrupt discontinuatio or dose reduction of venlafaxine at various doses has been found to be associated with the appearance of new symptoms, the frequency of which increased with increased dose level and with longer duration of treatment. Reported symptoms include agitation, anorexia, anxiety, confusion, impaired coordination and balance, diarrhea, dizziness, dry mouth, dysphoric mood, asciculation, fatigue, headaches, hypomania, insomnia, nausea, nervousness, nightmares, sensory disturbances (including shocklike electrical sensations), somnolence, sweating, tremor, vertigo, and vomiting.

During marketing of venlataxine hydrochloride extended-release capsules, other SNRI's (Serotonin and Noreninenbrine Beuntake During intervention of ventilatation involution of extended establishes of the source source source source and the source of the agitation, dizziness, sensory disturbances (e.g. paresthesias such as electric shock sensations), anxiety, confusion, headache lagration, nizaness, sonory location cost (5), parameters soor as been show scheduling, anxiety, compare, neuderic, lethargy, emotional lability, insomnia, typomania, tinnitus, and seizures. While these reactions are generally self-limiting, there have been reports of serious discontinuation symptoms.

Patients should be monitored for these symptoms when discontinuing treatment with venlafaxine extended-release tablets. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate [see Dosage and

Administration (2.4) 5.6 Insomnia and Nervousness

Major Depressive

Other Clinical Trials

¹Supine Systolic Blood Pressure

² Supine Diastolic Blood Pres

5.4 Angle Closure Glaucoma

8-12 weeks

12 weeks

placebo groups.

nent-emergent insomnia and nervousness were more commonly reported for patients treated with venlafaxine hydrochloride extended-release capsules than with placebo in pooled analyses of short-term major depressive disorder and other clinical studies, as shown in Table 5

Table 5 Incidence of Insomnia and Nervousness in Placebo-Controlled Major Depressive Disorder and Other Trials

	Major Depressive Disorder Venlafaxine Hydrochloride Placebo Extended-Release Capsules		Other Trials	3
			Venlafaxine Hydrochloride Extended-Release Capsules	Placebo
Symptom	n = 357	n = 285	N = 819	n = 695
Insomnia	17%	11%	24%	8%
Nervousness	10%	5%	10%	5%

Insomnia and nervousness each led to drug discontinuation in 0.9% of the patients treated with venlafaxine hydrochloride extended-release capsules in major depressive disorder studies.

In other clinical trials, insomnia and nervousness led to drug discontinuation in 2% and 1%, respectively, of the patients treated with venlafaxine hydrochloride extended-release capsules up to 12 weeks.

5.7 Changes in Weight

Adult Patients: A loss of 5% or more of body weight occurred in 7% of patients treated with venlafaxine hydrochloride extendedrelease capsules and 2% of placebo-treated patients in the short-term placebo-controlled major depressive disorder trials. The discontinuation rate for weight loss associated with venlafaxine hydrochloride extended-release capsules was 0.1% in major depressive disorder studies. In other placebo-controlled trials, 4% of the patients treated with venlafaxine hydrochloride extendedrelease capsules and 1% of the placebo-treated patients sustained a loss of 7% or more of body weight during up to 6 months ent. None of the patients receiving venlafaxine hydrochloride extended-release capsules in other stud for weight loss.

The safety and efficacy of venlafaxine therapy in combination with weight loss agents, including phentermine, have not been established. Co-administration of venlafaxine extended-release tablets and weight loss agents is not recommended. Venlafaxine extended-release tablets are not indicated for weight loss alone or in combination with other products.

Pediatric Patients: Weight loss has been observed in pediatric patients (ages 6-17) receiving venlafaxine hydrochloride extended release capsules. In a pooled analysis of four eight-week, double-blind, placebo-controlled, flexible dose outpatient trials for major depressive disorder (MDD) and another disorder, patients treated with venlafaxine hydrochloride extended-release capsules lost an verage of 0.45 kg (n = 333), while placebo-treated patients gained an average of 0.77 kg (n = 333). More patients renlafaxine hydrochloride extended-release capsules than with placebo experienced a weight loss of at least 3.5% in the studies (18% of patients treated with venlafaxine hydrochloride extended-release capsules vs. 3.6% of placebo-treated patients; p<0.001). n a 16-week, double-blind, placebo-controlled, flexible dose outpatient study for another disorder, venlafaxine hydrochlo extended-release capsule-treated patients lost an average of 0.75 kg (n=137), while placebo-treated patients gained an average of 0.76 kg (n=148). More patients treated with venlafaxine hydrochloride extended-release capsules than with placebo experienced a weight loss of at least 3.5% in the study (47% of patients treated with venlafaxine hydrochloride extended-release capsules vs. 14% of placebo-treated patients; p<0.001). Weight loss was not limited to patients with treatment-emergent anorexia [see Warnings and Precautions (5.9)].

The risks associated with longer-term use of venlafaxine hydrochloride extended-release capsules were assessed in an open-label MDD study of children and adolescents who received venlafaxine hydrochloride extended-release capsules for up to six months. The children and adolescents in the study had increases in weight that were less than expected based on data from age-and sexmatched peers. The difference between observed weight gain and expected weight gain was larger for children (<12 years old)

5.8 Changes in Height

Pediatric Patients: During an eight-week, placebo-controlled non-MDD study, venlafaxine hydrochloride extended-release capsule treated patients (ages 6-17) grew an average of 0.3 cm (n=122), while placebo-treated patients grew an average of 1.0 cm (n=132); p=0.041. This difference in height increase was most notable in patients younger than twelve. During the eight-week placebo-controlled MDD studies, venlafaxine hydrochloride extended-release capsule-treated patients grew an average of 0.8 cm (n = 146), while placebo-treated patients grew an average of 0.7 cm (n = 147). During a 16-week, placebo-controlled non-MDD study, both the venlafaxine hydrochloride extended-release capsule-treated patients (n=109) and the placebo-treated (n=112) patients each grew an average of 1.0 cm. In the six-month, open-label MDD study, children and adolescents had height increases that were less than expected based on data from age-and sex-matched peers. The difference between observed growth rates and expected growth rates was larger for children (<12 years old) than for adolescents (\geq 12 years old).

5.9 Changes in Appetite

Adult Patients: Treatment-emergent anorexia was more commonly reported for patients treated with venlafaxine hydrochloride extended-release capsules (8%) than for placebo-treated patients (4%) in the pool of short-term, double-blind, placebo-controlled major depressive disorder studies. The discontinuation rate for anorexia associated with venlafaxine hydrochloride extended-release capsules was 1.0% in major depressive disorder studies. Treatment-emergent anorexia was more commonly reported for patients treated with ventafaxine hydrochloride extended-release capsules (20%) than for placebo-treated patients (2%) in the pool of short-term, double-blind, placebo-controlled Social Anxiety Disorder studies. The discontinuation rate for anorexia was 0.4% for patients receiving venlafaxine hydrochloride extended-release capsules for up to 12 weeks in Social Anxiety Disorder studies. Pediatric Patients: Decreased appetite has been observed in pediatric patients receiving venlafaxine hydrochloride extended

release capsules. In placebo-controlled trials in MDD and another disorder, 10% of patients aged 6-17 treated with venlafaxine hydrochloride extended-release capsules for up to eight weeks and 3% of patients treated with placebo reported treatmentemergent anorexia (decreased appetite). None of the patients receiving venlafaxine hydrochloride extended-release capsules discontinued for anorexia or weight loss.

In a placebo-controlled non-MDD trial, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with venlafaxir hydrochloride extended-release capsules and placebo, respectively, reported treatment-emergent anorexia (decreased appetite). The discontinuation rates for anorexia were 0.7% and 0.0% for patients receiving venlafaxine hydrochloride extended-release capsules and placebo, respectively; the discontinuation rates for weight loss were 0.7% for patients receiving either venlafaxine hydrochloride extended-release capsules or placebo.

5.10 Activation of Mania/Hynomania

function (abnormal ejaculation, impotence, libido decreased, orgasmic dysfunction), yawn, sweating, and abnormal vision. Adverse Reactions Occurring at an Incidence of 2% or More Among Patients Treated with Venlafaxine Hydrochloride Extended Tables 6 and 7 enumerate the incidence, rounded to the nearest percent, of adverse reactions that occurred during acute therapy of major depressive disorder (up to 12 weeks; dose range of 75 to 225 mg/day) and of Social Anxiety Disorder (up to 12 weeks;

dose range of 75 to 225 mg/day), respectively, in 2% or more of patients treated with venlafaxine hydrochloride extended-release capsules where the incidence in patients treated with venlataxine deviced with terminate acception software provide a second software provide the incidence of the second software provided with the second software provided to the second software provided least one episode of a reaction at some time during their treatment. Reported adverse reactions were classified using a standard COSTART-based Dictionary terminology.

During premarketing major depressive disorder studies, mania or hypomania occurred in 0.3% of patients treated with venlafaxine

hydrochloride extended-release capsules and 0.0% placebo patients. In premarketing Social Anxiety Disorder studies, no patients

hydrohinde chalace release tables in or precedent and the precision of the precedent of the precision of the precedent of the precision of the precedent of the precision of the

or hypomania occurred in 0.5% of venlafaxine-treated patients compared with 0% of placebo patients. Mania/hypomania has also

been reported in a small proportion of patients with mood disorders who were treated with other marketed drugs to treat major depressive disorder. As with all drugs effective in the treatment of major depressive disorder, venlafaxine extended-release tablets

Hyponatremia may occur as a result of treatment with SSRI's and SNRI's, including venlafaxine extended-release tablets. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases

with serum sodium lower than 110 mmol/L have been reported. Elderly patients may be at greater risk of developing hyponatremia

with SSNIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk (see Use in Specific Populations (8.5)]. Discontinuation of venlafaxine extended-release tablets should be considered in patients with

Signs and symptoms of hyponatremia include headactic, difficult 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

During premarketing experience, no seizures occurred among 705 patients treated with venlafaxine hydrochloride extended-release capsules in the major depressive disorder studies or among 277 patients treated with venlafaxine hydrochloride

extended-release capsules in Social Anxiety Disorder studies. In all premarketing major depressive disorder trials with venlafaxine

Venlafaxine extended-release tablets, like many antidepressants, should be used cautiously in patients with a history of seizures

SSRIs and SNRIs, including venlafaxine extended-release tablets, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory 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. Bleeding events related to SSRIs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of venlafaxine extended-release

Clinically relevant increases in serum cholesterol were recorded in 5.3% of venlafaxine-treated patients and 0.0% of placebo-

treated patients treated for at least 3 months in placebo-controlled trials [see Adverse Reactions (6.1]]. Measurement of serum

5.15 Interstitial Lung Disease and Eosinophilic Pneumonia Interstitial lung disease and eosinophilic pneumonia associated with venlafaxine therapy have been rarely reported. The possibility

of these adverse reactions should be considered in venlafaxine-treated patients who present with progressive dyspnea, cough or

Premarketing experience with venlafaxine in patients with concomitant systemic illness is limited. Caution is advised in

Venlafaxine has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or

venial axine has not been evaluated or used to any appreciate extent in patients with a recent instant of the model and an and the set of any appreciate extent in patients with reserve the studies during venial facines in the premarketing testing. The electrocardiograms were analyzed for 275 patients who received veniafaxine hydrochoride extended-

release capsules and 220 patients who received placebo in 8 to 12 week double-blind, placebo-controlled trials in major depressive

disorder as well as for 195 patients who received ventataxine hydrochloride extended-release capatients who received ventataxine hydrochloride extended-release capatients

in corrected OT interval (OTc) for patients treated with venlataxine hydrochloride extended-release cansules in major depressive disorder studies was increased relative to that for placebo-treated patients (increase of 4.7 msec for venlataxine hydrochloride extended-release capsules and decrease of 1.9 msec for placebo). The mean change from baseline in QTc for patients treated

with venlafaxine hydrochloride extended-release capsules in the Social Anxiety Disorder studies was increased relative to that

for placebo-treated patients (increase of 2.8 msec for venlafaxine hydrochloride extended-release capsules and decrease of 2.0

In these same trials, the mean change from baseline in heart rate for patients treated with venlafaxine hydrochloride extended-

release capsules in the major depressive disorder studies was significantly higher than that for placebo (a mean increase of 4

recease capsules in the major depressive disorder studies was significantly ingrite than that not pracetor (a mean interesse of a beats per minute for ventafaxine hydrochloride extended-release capsules and 1 beat per minute for placebo). The mean change from baseline in heart rate for platents treated with ventafaxine hydrochloride extended-release capsules in the Social Anxiety

Disorder studies was significantly higher than that for placebo (a mean increase of 5 beats per minute for venlafaxine hydrochloride

In a flexible-dose study, with doses of venlafaxine hydrochloride immediate-release tablets in the range of 200 to 375 mg/day and mean dose greater than 300 mg/day, patients treated with venlafaxine hydrochloride immediate-release tablets had a mean

As increases in heart rate were observed, caution should be exercised in patients whose underlying medical conditions might

Evaluation of the electrocardiograms for 769 patients who received venlafaxine hydrochloride immediate-release tablets in 4 to 6 week double-blind, placebo-controlled trials showed that the incidence of trial-emergent conduction abnormalities did not differ

Use of SNRIs, including venlafaxine extended-release tablets, may cause symptoms of sexual dysfunction *[see Adverse Reactions*]

(5.1). In making termination (characteristic and the second secon

It is important for prescribers to inquire about sexual function prior to initiation of venlafaxine extended-release tablets and to

The important for proceeded and the solution of the solution of the important of the solution of the solution

sexual symptoms may have other causes, including the underlying psychiatric disorder. Discuss potential management strategies

The information included in subsection "Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Venlafaxine

Hydrochiorde Extended-Release Capsules" is based on data from a pool of three 8 and 12 week controlled clinical trials in major depressive disorder (includes two U.S. trials and one European trial), and on data up to 12 weeks from a pool of two controlled

clinical trials in Social Anxiety Disorder. Information on additional adverse reactions associated with venlafaxine hydrochloride

extended-release capsules in the entire development program for the formulation and with venlataxine hydrocholoide immediate-release tablets is included in the subsection "Other Adverse Reactions Observed During the Premarketing Evaluation of Venlafaxine

Hydrochloride Immediate-Release Tablets and Venlafaxine Hydrochloride Extended-Release Capsules" [see also Warnings and

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.

Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Venlafaxine Hydrochloride Extended-Release Capsules

Major Depressive Disorder: Approximately 11% of the 357 patients who received venlafaxine hydrochloride extended-release capsules in placebo-controlled clinical trials for major depressive disorder discontinued treatment due to an adverse reaction,

compared with 6% of the 285 placebo-treated patients in those studies. Adverse reactions that led to treatment discontinuation in

Social Anxiety Disorder: Approximately 17% of the 277 patients who received venlafaxine hydrochloride extended-release capsules

Succiar Analysis Disputerity Application and the 277 patients with received vehicitation in protection of the extended release capsules in placebo-controlled clinical trials for Social Anxiety Disporter discontinued treatment due to an adverse reaction, compared with 5% of the 274 placebo-created patients in those studies. Adverse reactions that led to treatment discontinuation in a least 2% of

veniafaxine hydrochloride extended-release capsules and at a rate at least twice that of the placebo group for all placebo-controlled trials for the major depressive disorder indication (see Table 6): Abnormal ejaculation, gastrointestinal complaints (nausea, dry

In the two U.S. placebo-controlled trials, the following additional reactions occurred in at least 5% of patients treated with venlafaxine hydrochloride extended-release capsules (n = 192) and at a rate at least twice that of the placebo group: Abnormalities

of sexual function (impotence in men, anorgasmia in women, and libido decreased), gastrointestinal complaints (constipation and

Social Anxiety Disorder: Note in particular the following adverse reactions that occurred in at least 5% of the patients receiving ventafaxine hydrochloride extended-release cansules and at a rate at least twice that of the placebo group for the 2 placebo

controlled trials for the Social Anxiety Disorder indication (see Table 7). Asthenia, gastrointestinal complaints (anorexia, constipation, dry mouth, nausea), CNS complaints (dizziness, insomnia, libido decreased, nervousness, somolence), abnormalities of sexual

fatulence), CNS complaints (insomia, nervousness, and tremor), problems of special senses (abnormal vision), cardiovascula effects (hypertension and vasodilatation), and yawning.

be compromised by increases in heart rate (e.g., patients with hyperthyroidism, heart failure, or recent myocardial infarction).

increase in heart rate of 8.5 beats per minute compared with 1.7 beats per minute in the placebo group.

administering venlafaxine extended-release tablets to patients with diseases or conditions that could affect he

omfort. Such patients should undergo a prompt medical evaluation, and discontinuation of venlafaxine therapy should

should be used cautiously in patients with a history of mania.

hallucination, syncope, seizure, coma, respiratory arrest, and death.

and should be discontinued in any patient who develops seizures.

tablets and NSAIDs, aspirin, or other drugs that affect coagulation

esterol levels should be considered during long-term treatment.

symptomatic hyponatremia and appropriate medical intervention should be instituted

5.11 Hyponatremia

5.12 Seizures

be considered.

responses

msec for placebo).

from that with placebo.

5.17 Laboratory Tests

5.18 Sexual Dysfunction

6 ADVERSE REACTIONS

Data Sources

recautions (5)]

6.1 Clinical Studies Experience

5.13 Abnormal Bleeding

5.14 Serum Cholesterol Elevation

5.16 Use in Patients With Heart Disease

extended-release capsules and no change for placebo).

ere are no specific laboratory tests recommended.

to support patients in making informed decisions about treatment.

Adverse Reactions Associated with Discontinuation of Treatment

least 2% of drug-treated patients were nausea, dizziness, and somnolence.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse reactions in the cours of usual medical practice where patient characteristics and other factors differ from those which prevailed in the clinical trials Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different Similarly, the clear inequencies cannot be compared with ingues obtained information aniversignment interest in

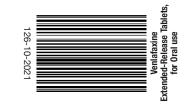
Table 6 Treatment-Emergent Adverse Reaction Incidence in Short-Term Placebo-Controlled Clinical Trials with Venlafaxine Hydrochloride Extended-Release Capsules in Patients with Major Depressive Disorder^{1,2}

	% Reportir	ng Reaction		
Body System Preferred Term	Venlafaxine Hydrochloride Extended-Release Capsules (n=357)	Placebo (n=285)		
Body as a whole		(11-200)	-	
Asthenia	8%	7%		
Cardiovascular System	0,0	170		
Vasodilation ³	4%	2%		
Hypertension	4% 4%	2%		
	4%	1%		
Digestive System	019/	10%		
Nausea	31% 8%	12% 5%		
Constipation				
Anorexia	8%	4%		
Vomiting	4%	2%		
Flatulence	4%	3%		
Metabolic/Nutritional				
Weight Loss	3%	0%		
Nervous System				
Dizziness	20%	9%		
Somnolence	17%	8%		
Insomnia	17%	11%		
Dry Mouth	12%	6%		
Nervousness	10%	5%		
Abnormal Dreams ⁴	7%	2%		
Tremor	5%	2%		
Depression	3%	<1%		
Paresthesia	3%	1%		
Libido Decreased	3%	<1%		
Agitation	3%	1%		
Respiratory System				
Pharyngitis	7%	6%		
Yawn	3%	0%		
Skin				
Sweating	14%	3%		
Special Senses				
Abnormal Vision ⁵	4%	<1%		
Urogenital System				
Abnormal Ejaculation (male) ^{6,7}	16%	<1%		
Impotence ⁷	4%	<1%		
Anorgasmia (female)8,9	3%	<1%		

Incidence, rounded to the nearest %, for reactions reported by at least 2% of patients treated with venlafaxine hydrochloride extended-release capsules, except for reactions which had an incidence equal to or less than placebo ² <1% indicates an incidence greater than zero but less than 1%.</p>

drug-treated patients were nausea, insomnia a headache dizzines and somolono Adverse Reactions Occurring at an Incidence of 5% or More Major Depressive Disorder: Note in particular the following adverse reactions that occurred in at least 5% of the patients receiving

mouth, and anorexia). CNS complaints (dizziness, somnolence, and abnormal dreams), and sweating,



⁴ Mostly "vivid dreams," "nightmares," and "increased dreaming." 5 Mostly "blurred vision" and "difficulty focusing eyes." ⁶ Mostly "delayed ejaculation."
 ⁷ Incidence is based on the number of male patients. 8 Mostly "delayed orgasm" or "anorgasmia. Incidence is based on the number of female patients.

Table 7 Treatment-Emergent Adverse Reaction Incidence in Short-Term Placebo-Controlled Clinical Trials with

	% Reporting Reaction			
Body System Preferred Term	Venlafaxine Hydrochloride Extended-Release	Placebo		
	Capsules (n=277)	(n=274)		
Body as a whole				
Headache	34%	33%		
Asthenia	17%	8%		
Flu Syndrome	6%	5%		
Accidental Injury	5%	3%		
Abdominal Pain	4%	3%		
Cardiovascular System				
Hypertension	5%	4%		
Vasodilation ³	3%	1%		
Palpitation	3%	1%		
Digestive System				
Nausea	29%	9%		
Anorexia ⁴	20%	1%		
Constipation	8%	4%		
Diarrhea	6%	5%		
Vomiting	3%	2%		
Eructation	2%	0%		
Metabolic/Nutritional				
Weight Loss	4%	0%		
Nervous System				
Insomnia	23%	7%		
Dry Mouth	17%	4%		
Dizziness	16%	8%		
Somnolence	16%	8%		
Nervousness	11%	3%		
Libido Decreased	9%	<1%		
Anxiety	5%	3%		
Agitation	4%	1%		
Tremor	4%	<1%		
Abnormal Dreams ⁵	4%	<1%		
Paresthesia	3%	<1%		
Twitching	2%	0%		
Respiratory System				
Yawn	5%	<1%		
Sinusitis	2%	1%		
Skin				
Sweating	13%	2%		
Special Senses				
Abnormal Vision ⁶	6%	3%		
Urogenital System				
Abnormal Ejaculation7.8	16%	1%		
Impotence ⁸	10%	1%		
Orgasmic Dysfunction9,10	8%	0%		

Adverse reactions for which the venlafaxine hydrochloride extended-release capsules reporting rate was less than or equal to the placebo rate are not included. ² <1% means greater than zero but less than 1%.
 ³ Mostly "hot flashes."

⁴ Mostly "decreased appetite" and "loss of appetite.

⁵ Mostly "vivid dreams," "nightmares," and "increased dreaming."
⁶ Mostly "blurred vision."

Includes "delayed ejaculation" and "anorgasmia."

⁸ Percentage based on the number of males (venlafaxine hydrochloride extended-release capsules = 158, placebo = 153). Pincludes "abnormal orgasm" and "anorgasmia." ¹⁰Percentage based on the number of females (venlafaxine hydrochloride extended-release capsules = 119, placebo = 121).

Vital Sign Changes

Treatment with venlafaxine hydrochloride extended-release capsules treatment for up to 12 weeks in premarketing placebocontrolled major depressive disorder trials was associated with a mean final on-therapy increase in pulse rate of approximately 2 beats per minute, compared with 1 beat per minute for placebo.

Treatment with venkafaxine hydrochloride extended-release capsules for up to 12 weeks in premarketing placebo-controlled Social Anxiety Disorder trials was associated with a mean final on-therapy increase in pulse rate of approximately 4 beats per minute, compared with an increase of 1 beat per minute for placebo. [see Warrings and Precautions (5.3) for effects on blood pressure.] in a flexible down down of the set of the se decrease of about 1 beat per minute for placebo. [see Warnings and Precautions (5.16) for effects on heart rate.]

Laboratory Changes Serum Cholesterol

Venlafaxine hydrochloride extended-release capsules treatment for up to 12 weeks in premarketing placebo-controlled trials for major depressive discussional extension of the mean final on-therapy increase in serum cholesterol concentration of approximately 1.5 mg/dL compared with a mean final decrease of 7.4 mg/dL for placebo. Venlafaxine hydrochloride extendedrelease capsules treatment for up to 12 weeks in other premarketing placebo-controlled trials was associated with mean final on-therapy increases in serum cholesterol concentration of approximately 7.9 mg/dL compared with a mean final decrease of 2.9 mg/dL for placebo.

ts treated with

their frequency or establish a causal relationship to drug exposure. These reports include the following reactions: agranulocytosis, anaphylaxis, aplastic anemia, catatonia, congenital anomalies, impaired coordination and balance, CPK increased, deep vein thrombophlebitis, delirium, Takotsubo cardiomyopathy, EKG abnormalities such as QT prolongation; cardiac arrhythmias including atrial fibrillation, supraventricular tachycardia, ventricular extrasystoles, and rare reports of ventricular fibrillation and ventricular tachycardia, including torsade de pointes; toxic epidermal necrolysis/Stevens-Johnson Syndrome, ervthema multiforme extragramidal symptoms (including dyskinsia and tardive dyskinsia), angle-closure glaucoma, hemorrhage (including extragramidal symptoms (including dyskinsia) and tardive dyskinsia), angle-closure glaucoma, hemorrhage (including extragramidal symptoms concluding dyskinsia) and tardive dyskinsia and tardive dyskinsia) and tardive dyskinsia) and tardive dyskinsia and tardive dyskinsia) and tardive dyskinsia and tardive dyskinsia) and tardive dyskinsia and liver damage, necrosis, or failure; and fatty liver), interstitial lung disease, involuntary movements, LDH increased, neuroleptic alignant syndrome-like reactions (including a case of a 10-year-old who may have been taking methylphenidate, was treated nd recovered), neutropenia, night sweats, pancreatitis, pancytopenia, panic, prolactin increased, renal failure, rhabdomyolysis, erotonin syndrome, shock-like electrical sensations or tinnitus (in some cases, subsequent to the discontinuation of venlafaxine or pering of dose), and syndrome of inappropriate antidiuretic hormone secretion (usually in the elderly).

DRUG INTERACTIONS 1 Alcohol

single dose of ethanol (0.5 g/kg) had no effect on the pharmacokinetics of venlafaxine or O-desmethylvenlafaxine (ODV) when single cose of enancial (0.5 g/kg) had no effect on the pharmatokinetics of verificiation of verification (0.5 g/kg) had no effect on the pharmatokinetics of verification of verification of verification in a stable regimen did not exaggerate the psychomotor and psychometric effects induced by ethanol in these same subjects when they were ot receiving venlafaxine

7.2 Cimetidine

concomitant administration of cimetidine and venlafaxine in a steady-state study for both drugs resulted in inhibition of first-pass netabolism of venlafaxine in 18 healthy subjects. The oral clearance of venlafaxine was reduced by about 43%, and the exposure AUC) and maximum concentration (C_{mo}) of the drug were increased by about 60%. However, coadministration of cirrentidine had to apparent effect on the pharmacokinetics of ODV, which is present in much greater quantity in the circulation than venlafaxine. The overall pharmacological activity of venlafaxine plus ODV is expected to increase only slightly, and no dosage adjustment should e necessary for most normal adults. However, for patients with pre-existing hypertension, and for elderly patients or patients with repartic dystruction, the interaction associated with the concomitant use of venlafaxine and cimetidine is not known and potentially ould be more pronounced. Therefore, caution is advised with such patients.

'.3 Diazepam

nder steady-state conditions for venlafaxine administered at 150 mg/day, a single 10 mg dose of diazepam did not appear to The study state enhances to reinauxine and animateries in so my day, a single results of additional and the appendix fifteet the pharmacokinetics of either venalataxine or ODV in 18 healthy male subjects. Venalataxine also did not have any effect on the pharmacokinetics of diazepam or its active metabolite, desmethyldiazepam, or affect the psychomotor and psychometric ffects induced by diazepam.

7.4 Haloperidol

enlataxine administered under steady-state conditions at 150 mg/day in 24 healthy subjects decreased total oral-dose clearance CI/F) of a single 2 mg dose of haloperidol by 42%, which resulted in a 70% increase in haloperidol AUC. In addition, the haloperidol increased 88% when coadministered with venlafaxine, but the haloperidol elimination half-life (t, a) was unchanged. The echanism explaining this finding is unknown

.5 Lithium

The steady-state pharmacokinetics of venlafaxine administered at 150 mg/day were not affected when a single 600 mg oral dose of thium was administered to 12 healthy male subjects. ODV also was unaffected. Venlafaxine had no effect on the pharmacokinetics ithium (see also CNS-Active Drugs, below)

7.6 Drugs Highly Bound to Plasma Proteins /enlafaxine is not highly bound to plasma proteins; therefore, administration of venlafaxine extended-release tablets to a patient aking another drug that is highly protein bound should not cause increased free concentrations of the other drug

7.7 Drugs that Inhibit Cytochrome P450 Isoenzymes

(P2D6 Inhibitors: In vitro and in vivo studies indicate that venlafaxine is metabolized to its active metabolite, ODV, by CYP2D6 he isoenzyme that is responsible for the genetic polymorphism seen in the metabolism of many antidepressants. Therefore e potential exists for a drug interaction between drugs that inhibit CYP2D6-mediated metabolism of venlafaxine, reducing the he potential casts of vehicles and a drug metadom optimication angle of the metadom of vehicles in the potential casts of the potential c patients who are genetically CYP2D6 poor metabolizers [see Clinical Pharmacology (12.3)]. Therefore, no dosage adjustment is equired when vendataxine is coadministered with a CYP206 inhibitor. Ketoconazole: A pharmacokinetic study with ketoconazole 100 mg b.i.d. with a single dose of venlafaxine 50 mg in extensive netabolizers (EM; n=14) and 25 mg in poor metabolizers (PM;n=6) of CYP2D6 resulted in higher plasma concentrations of horizontation (cm, 1=+7 and 2 or mg in poor inclusionization) in most subjects following administration of ketoconazole. Venlatavine (CDV) in most subjects following administration of ketoconazole. Venlatavine (CDV) in most subjects following administration of ketoconazole. Venlatavine (CDV) in most subjects for ODV increased by 26% in EM subjects and 48% in PM subjects.

espectively. nlafaxine AUC increased by 21% in EM subjects and 70% in PM subjects (range in PM's -2% to 206%), and AUC values for ODV ncreased by 23% and 33% in EM and PM (range in PM's -38% to 105%) subjects, respectively. Combined AUC's of venlafaxine and

DV increased on average by approximately 23% in EM's and 53% in PM's, (range in PM's 4% to 134%). Concomitant use of CVP3A4 hinhibitors and venlafaxine may increase levels of venlafaxine and ODV. Therefore, caution is advised if a patient's therapy includes a CVP3A4 inhibitor and venlafaxine concomitantly.

7.8 Drugs Metabolized by Cytochrome P450 Isoenzymes

YP2D6

In the hyperbolic problem in the problem of the pro lextromethorphan to dextrorphan.

mipramine - Venlafaxine did not affect the pharmacokinetics of imipramine and 2-OH-imipramine. However, desipramine AUC r_{max} and C_{ma} increased by about 35% in the presence of venlafaxine. The 2-OH-desipramine AUC's increased by at least 2.5 fold with venlafaxine 37.5 mg q12h). Imipramine did not affect the pharmacokinetics of enlafaxine and ODV. The clinical significance of elevated 2-OH-desipramine levels is unknown.

Aetoprolol - Concomitant administration of venlafaxine (50 mg every 8 hours for 5 days) and metoprolol (100 mg every 24 purs for 5 days) to 18 healthy male subjects in a pharmacokinetic interaction study for both drugs resulted in an increase to be a subject of heating material subjects in a prantamound of methods and the plasma concentrations of metoprolo by approximately 30-40% without altering the plasma concentrations of its active metabolite, α -hydroxymetoprolol. Metoprolol did not alter the pharmacokinetic profile of venlafaxine or its active metabolite -desmethylvenlafaxine

Venlafaxine appeared to reduce the blood pressure lowering effect of metoprolol in this study. The clinical relevance of this finding or hypertensive patients is unknown. Caution should be exercised with co-administration of venlafaxine and metoprolol.

Venlafaxine treatment has been associated with dose-related increases in blood pressure in some patients. It is recommended that patients receiving venlafaxine extended-release tablets have regular monitoring of blood pressure [see Warnings and Precautions (5.3).

Risperidone - Venlafaxine administered under steady-state conditions at 150 mg/day slightly inhibited the CYP2D6-mediated insperiodic verification administered under stady stady stady stady stady stady stady stady stady in the off 20 ministered and the off 20 ministered pharmacokinetic profile of the total active moiety (risperidone plus 9-hydroxyrisperidone)

CYP3A4 Venlafaxine did not inhibit CYP3A4 in vitro. This finding was confirmed in vivo by clinical drug interaction studies in which

venlafaxine did not inhibit the metabolism of several CYP3A4 substrates, including alprazolam, diazepam, and terfenadine. Indinavir - In a study of 9 healthy volunteers, venlafaxine administered under steady-state conditions at 150 mg/day resulted in a

28% decrease in the AUC of a single 800 mg oral dose of indinavir and a 36% decrease in indinavir C_{max}. Indinavir did not affect the pharmacokinetics of venlafaxine and ODV. The clinical significance of this finding is unknown CYP1A2

Venlafaxine did not inhibit CYP1A2 in vitro. This finding was confirmed in vivo by a clinical drug interaction study in which venlafaxine did not inhibit the metabolism of caffeine a CYP1A2 substrate CYP2C9

faxine did not inhibit CYP2C9 in vitro. In vivo, venlafaxine 75 mg by mouth every 12 hours did not alter the pharmacokinetics of a single 500 mg dose of tolbutamide or the CYP2C9 mediated formation of 4-hydroxy-tolbutamid

CYP2C19 Venlafaxine did not inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam above) 7.9 Monoamine Oxidase Inhibitors (MAOIs)

[see Dosage and Administration (2.6 and 2.7), Contraindications (4.1), and Warnings and Precautions (5.2).] 7.10 Serotonergic Drugs

[see Dosage and Administration (2.6 and 2.7), Contraindications (4.1), and Warnings and Precautions (5.2).] sis (e.g., NSAID's, Aspirin, and Wa 7.11 Drugs that Interfere with He

9.2 Abuse

While venlafaxine has not been systematically studied in clinical trials for its potential for abuse, there was no indication of drugto be that a the technical trials. However, it is not possible to predict on the basis of premarking experience the extent to which a CNS active drug will be misused, diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of enlafaxine (e.g., development of tolerance, incrementations of dose, drug-seeking beha 9.3 Dependence

In vitro studies revealed that venlafaxine has virtually no affinity for opiate, benzodiazepine, phencyclidine (PCP), or N-methyl-D-

aspartic acid (NMDA) receptors. Venlafaxine was not found to have any significant CNS stimulant activity in rodents. In primate drug discrimination studies, venlafaxine showed no significant stimulant or depressant abuse liability.

continuation effects have been reported in patients receiving venlafaxine [see Dosage and Administration (2.4) and Warnings and Precautions (5.5)].

10 OVERDOSAGE **10.1 Human Experience**

Among the patients included in the premarketing evaluation of venlafaxine hydrochloride extended-release capsules, there were 2 reports of acute overdosage with venlativitien hydrochloride extended-release capsules in major depressive disorder trials, either alone or in combination with other drugs. One patient took a combination of 6 g of venlafaxine hydrochloride extended-release capsules and 2.5 mg of lorazepam. This patient was hospitalized, treated symptomatically, and recovered without any untoward ects. The other patient took 2.85 g of venlafaxine hydrochloride extended-release capsules. This patient reported paresthesia of all four limbs but recovered without sequelae.

There were no reports of acute overdose with venlafaxine hydrochloride extended-release capsules in Social Anxiety Disorder trials. Among the patients included in the premarketing evaluation with venlafaxine hydrochloride immediate-release tablets, there were

14 reports of acute overdose with venlafaxine, either alone or in combination with other drugs and/or alcohol. The majority of the reports in older ingestion in which the total dose of veniatavine taken was estimated to be no more than several-fold higher than the usual therapeutic dose. The 3 patients who took the highest doses were estimated to have ingested approximately 6.75 g, 2.75 g, and 2.5 g. The resultant peak plasma levels of venlafaxine for the latter 2 patients were 6.24 and 2.35 ug/mL, respectively, and g, and 2.9 g. The section of the sec symptoms. Among the remaining patients, somnolence was the most commonly reported symptom. The patient who ingested 2.75 go five hards a non-grade to have 2 generalized consultions and a prolongation of QTc to 500 msec, compared with 405 msec at baseline. Mild sinus tachycardia was reported in 2 of the other patients.

In postmarketing experience, overdose with venlafaxine has occurred predominantly in combination with alcohol and/or other drugs. The most commonly reported reactions in overdosage include tachycardia, changes in level of consciousness (ranging from somnolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (e.g., prolongation of QT interval, bundle branch block, QRS prolongation), ventricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been reported.

Published retrospective studies report that venlafaxine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSRI antidepressant products, but lower than that for tricvclic antidepressants. Epidemiological patients to that observe with vehicle and the patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the toxicity of vehiclear in overdosage as opposed to some characteristic(s) of venlafaxine-treated patients is not clear. Prescriptions for venlafaxine lease tablets should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

10.2 Management of Overdosage

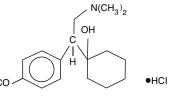
Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway oxygenation and ventilation Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic natients

Activated charcoal should be administered. Due to the large volume of distribution of this drug forced diuresis dialysis nemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for venlafaxine are know

In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference® (PDR).

11 DESCRIPTION

afaxine extended-release tablets (venlafaxine hydrochloride) are extended-release tablets for oral administration that contain venlafaxine hydrochloride, a structurally novel antidepressant. Venlafaxine hydrochloride is a selective serotonin and norepinephrine reuptake inhibitor (SNRI). It is designated (R/S)-1-[2-(dimethylamino)-1-(4-methoxyphenyl)ethyl] cyclohexanol hydrochloride or (±)-1-[α-[(dimethylamino)methyl]-p-methoxybenzyl] cyclohexanol hydrochloride and has the empirical formula of C₁₇H_{zz}NO₂ HCI. Its molecular weight is 313.87. The structural formula is shown below.



venlafaxine hydrochloride

axine hydrochloride is a off-white to white crystalline solid with a solubility of 572 mg/mL in water (adjusted to ionic strength of 0.2 M with sodium chloride). Its octanol:water (0.2 M sodium chloride) partition coefficient is 0.43.

Venlafaxine extended-release tablets are formulated as extended-release tablet for once-a-day oral administration. Venlafaxine voltation categories and the second s a semipermeable membrane. The unitary tablet core is composed of the drug and excipients (including the osmotically active components). There is a precision-laser drilled orifice in the semipermeable membrane on the side of the tablet. In an aqueous environment, such as the gastrointestinal tract, water permeates through the membrane into the tablet core, causing the drug to dissolve and the osmotic components to expand. This expansion pushes the drug out through the orifice. The semipermeable membrane controls the rate at which water permeates into the tablet core, which in turn controls the rate of drug delivery. The controlled rate of drug delivery into the gastrointestinal lumen is thus independent of pH or gastrointestinal motility. The function of venlafaxine extended-release tablets depends on the existence of an osmotic gradient between the contents of the core and the fluid in the gastrointestinal tract. Since the osmotic gradient remains constant, drug delivery remains ess The biologically inert components of the tablet remain intact during gastrointestinal transit and are eliminated in the feces as an

insoluble shell. Tablets contain venlafaxine hydrochloride, USP equivalent to 37.5 mg, 75 mg, 150 mg, or 225 mg venlafaxine. Inactive ingredients

consist of mannitol, microcrystalline cellulose, povidone, polyethylene glycol, colloidal silicon dioxide, magnesium stearate, ellulose acetate, hypromellose, titanium dioxide and talc. Each tablet strength also contains black iron oxide, hypromellose and propylene glycol as imprinting ink.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynar

The mechanism of the antidepressant action of venlafaxine in humans is believed to be associated with its potentiation of neurotransmitter activity in the CNS. Preclinical studies have shown that venlafaxine and its active metabolite, O-desmethylyenlafaxine (ODV) are potent inhibitors of neuronal serotonin and noreninephrine reuptake and weak inhibitors of dopamine reuptake

Venlafaxine and its active metabolite, O-desmethylvenlafaxine (ODV) have no significant affinity for muscarinic cholinergic, H₁histominergic or α -adrenergic recentors in vitro Pharmacologic activity at these recentors is hypothesized to be associated with he various anticholinergic, sedative, and cardiovascular effects seen with other psychotropic drugs. Venlafaxine and ODV do not possess monoamine oxidase (MAO) inhibitory activity.

Patients should be advised that taking venlafaxine can cause mild pupillary dilation, which in susceptible individuals, can lead to an episode of angle closure glaucoma. Pre-existing glaucoma is almost always open-angle glaucoma because angle closure

glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle closure glaucoma. Patients may wish to be examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible. *[see Warnings and Precautions (5.4)]*

Patients should be advised to notify their physician if they are breast-feeding an infant.

be advised to avoid alcohol while taking venlafaxine

Clinical Global Impressions (CGI) Severity of Illness item, and the CGI Global Improvement item. In both studies, venlafaxine hydrochloride extended-release capsules were also significantly better than placebo for certain factors of the HAM-D, including he anxiety/somatization factor, the cognitive disturbance factor, and the retardation factor, as well as for the psychic anxiety scor A 4-week study of inpatients meeting DSM-III-R criteria for major depressive disorder with melancholia utilizing venlafaxine hydrochloride immediate-release tablets in a range of 150 to 375 mg/day (t.i.d. schedule) demonstrated superiority of venlafaxine hydrochloride immediate-release tablets over placebo. The mean dose in completers was 350 mg/day.

Examination of gender subsets of the population studied did not reveal any differential responsiveness on the basis of gender. In one longer-term study, adult outpatients meeting DSM-IV criteria for major depressive disorder who had responded during n 8-week open trial or venlafaxine hydrochloride extended-release capsules (75, 150, or 225 mg, qAM) were randomized to continuation of their same venlafaxine hydrochloride extended-release capsules dose or to placebo, for up to 26 weeks of observation for relapse.

Response during the open phase was defined as a CGI Severity of Illness item score of <3 and a HAM-D-21 total score of <10. The points of the descent of the de of Illness item scores of >4, or (3) a final CGI Severity of Illness item score of >4 for any patient who withdrew from the study for any reason. Patients received with a mark of events of mines men score of 24 for any patient with windness from the study for any reason. Patients receiving continued vehilation hydrochloride extended -release capsules treatment experienced significantly lower relapse rates over the subsequent 26 weeks compared with those receiving placebo.

In a second longer-term trial, adult outpatients meeting DSM-III-R criteria for major depressive disorder, recurrent type, who had responded (HAM-D-21 total score <12 at the day 56 evaluation) and continued to be improved [defined as the following criteria being met for days 56 through 180: (1) no HAM-D-21 total score >20; (2) no more than 2 HAM-D-21 total scores >0.0, and (3) no single CGI Severity of Illness item score >4 (moderately ill)] during an initial 26 weeks of treatment on venlafaxine hydrochloride immediate-release tablets (100 to 200 mg/day, on a b.i.d. schedule) were randomized to continuation of their same dose of venlafaxine hydrochloride immediate-release tablets or to placebo. The follow-up period to observe patients for relapse, defined as a CGI Severity of Illness item score ≥4, was for up to 52 weeks. Patients receiving continued treatment with venlafaxine hydrochloride immediate-release tablets experienced significantly lower relapse rates over the subsequent 52 weeks compared with those receiving placebo.

14.2 Social Anxiety Disorder (Social Phobia)

The efficacy of venlafaxine hydrochloride extended-release capsules as a treatment for Social Anxiety Disorder (also known as Social Phobia) was established in two double-blind, parallel group, 12-week, multicenter, placebo-controlled, flexible-dose studies in adult outpatients meeting DSM-IV criteria for Social Anxiety Disorder. Patients received doses in a range of 75 to 225 mg/day. Efficacy was assessed with the Liebowitz Social Anxiety Scale (LSAS). In these two trials, venlafaxine hydrochloride extendedrelease capsules were significantly more effective than placebo on change from baseline to endpoint on the LSAS total score. Examination of subsets of the population studied did not reveal any differential responsiveness on the basis of gender. There was

insufficient information to determine the effect of age or race on outcome in these studies.

16 HOW SUPPLIED/STORAGE AND HANDLING

enlafaxine extended-release tablets 37.5 mg are white to off white, film coated, round biconvex tablets printed with "392" in black ink. They are supplied as follows:

Unit of Use Bottles of 30 Tablets NDC 31722-123-30 Unit of Use Bottles of 90 Tablets NDC 31722-123-90

Venlafaxine extended-release tablets 75 mg are white to off white, film coated, round biconvex tablets printed with "393" in black ink. They are supplied as follows: Unit of Use Bottles of 30 Tablets NDC 31722-124-30

Unit of Use Bottles of 90 Tablets NDC 31722-125-90 Venlafaxine extended-release tablets 225 mg are white to off white, film coated, round biconvex tablets printed with "395" in black

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

Prescribers or other health or professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with venlafaxine extended-release tablets and should counsel them in its appropriate use. A patient

Medication Guide about "Antidepressant Medicines. Depression and Other Serious Mental Illness, and Suicidal Thoughts or Actions"

is available for vehicasine excitation (all excitations) being some of the other and the second some and the second some of the

the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The

and opportunity to blocks the optical is reprinted at the end of this document. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking venlafaxine

Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual

changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the does is adjusted up or down. Families and caregivers of patients should be advised to look for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health

professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close mon

Clinical studies were performed to examine the effects of venlafaxine on behavioral performance of healthy individuals. The

results revealed no clinically significant impairment of psychomotor, continue, complex behavior performance. However, since any psychoactive drug may impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous

machinery, including automobiles, until they are reasonably certain that venlafaxine therapy does not adversely affect their ability

17.3 Concomitant Medication Patients should be advised to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs,

Patients should be cautioned about the risk of serotonin syndrome with the concomitant use of venlafaxine extended-release

Habits and the calculated additional the rate of external minimum with a concentration of the concentration of the calculated additional structure and the calculated additional structure additing structure additional structur

Patients should be cautioned about the concomitant use of venlafaxine extended-release tablets and NSAID's, aspirin, warfarin

or other drugs that affect coagulation since combined use of psychotropic drugs that interfere with serotopin rejutake and these

agents has been associated with an increased risk of bleeding [see Warnings and Precautions (5.13) and Drug Interactions (7.11)].

Although venlafaxine has not been shown to increase the impairment of mental and motor skills caused by alcohol, patients should

Patients should be advised to notify their physician if they develop a rash, hives, or a related allergic phenomenor

Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy.

including herbal preparations and nutritional supplements, since there is a potential for interactions.

Unit of Use Bottles of 90 Tablets NDC 31722-124-90

Unit of use bottles of 90 fabres in 00 51722-124-90 Venlafaxine extended-release tablets 150 mg are white to off white, film coated, round biconvex tablets printed with "394" in black ink. They are supplied as follows:

Unit of Use Bottles of 30 Tablets NDC 31722-125-30

Unit of Use Bottles of 30 Tablets NDC 31722-126-30 Unit of Use Bottles of 90 Tablets NDC 31722-126-90

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

ink They are supplied as follows:

17 PATIENT COUNSELING INFORMATION

17.1 Clinical Worsening and Suicide Risk

and possibly changes in the medication.

to engage in such activities.

17.4 Alcohol

17.6 Pregnancy

17.7 Nursing

17.5 Allergic Reactions

17.2 Interference with Cognitive and Motor Performance

moisture and humidity

extended-release tablets.

extension trials had a mean final on-therapy increase in total cholesterol of 9.1 mg/dL compared with a decrease of 7.1 mg/dL among placebo-treated patients. This increase was duration dependent over the study period and tended to be greater with higher doses. Clinically relevant increases in serum cholesterol, defined as 1) a final on-therapy increase in serum cholesterol ≥50 mg/ dL from baseline and to a value \geq 261 mg/dL, or 2) an average on-therapy increase in serum cholesterol \geq 50 mg/dL from baseline and to a value \geq 261 mg/dL, were recorded in 5.3% of venlafaxine-treated patients and 0.0% of placebo-treated patients [see Warnings and Precautions (5.14)

Serum Triglycerides

chloride extended-release capsules treatment for up to 12 weeks in pooled premarketing trials was associated with a mean final on-therapy increase in fasting serum triglyceride concentration of approximately 8.2 mg/dl, compared with a mean final increase of 0.4 mg/dl for placebo.

ECG Changes

In a flexible-dose MDD study with doses of venlafaxine hydrochloride immediate-release tablets in the range of 200 to 375 mg/day and mean dose greater than 300 mg/day, the mean change in heart rate was 8.5 beats per minute compared with 1.7 beats per minute for placebo. [See Warnings and Precautions (5.16)]

Other Adverse Reactions Observed During the Premarketing Evaluation of Venlafaxine Hydrochloride Immediate-Release Tablets

and Venlafaxine Hydrochloride Extended-Release Capsules

During its premarketing assessment, multiple doses of venlafaxine hydrochloride extended-release capsules were administered burning is premarkening assessment, multiple does of vernational environment extended release capables were administered to 705 patients in Phase 3 major depressive disorder studies and venlataxine hydrochloride immediate-release tablets was administered to 96 patients. During its premarketing assessment, multiple does of venlafaxine hydrochloride extended-release capsules were also administered to 3514 patients in other Phase 3 studies. In addition, in premarketing assessment of venlafaxine hydrochloride immediate-release tablets, multiple doses were administered to 2897 patients in Phase 2 to Phase 3 studies for major depressive disorder. The conditions and duration of exposure to venlafaxine in both development programs varied greatly and included (in overlapping categories) open and double-blind studies, uncontrolled and controlled studies, inpatient (venlafaxine hydrochloride immediate-release tablets only) and outpatient studies, fixed-dose, and titration studies. Adverse reactions associated with this exposure were recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse reactions without first grouping similar types of untoward events into a smaller number of standardized reaction categories.

In the tabulations that follow, reported adverse reactions were classified using a standard COSTART-based Dictionary terminology. The frequencies presented, therefore, represent the proportion of the 7212 patients exposed to multiple doses of either formulation of ventafaxine who experienced a reaction of the type cited on at least one occasion while receiving ventafaxine. All reported reactions are included except those already listed in Tables 6 and 7 and those reactions for which a drug cause was remote.

If the COSTART term for a reaction was so general as to be uninformative, it was replaced with a more informative term. It is important to emphasize that, although the reactions reported occurred during treatment with venlafaxine, they were not necessarily caused by it.

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

Body as a whole - Frequent: chest pain substernal, chills, fever, neck pain; Infrequent: face edema, intentional injury, malaise moniliasis, neck rigidity, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacteremia, cellulitis, granuloma.

Cardiovascular system - Frequent: migraine, tachycardia; Infrequent: angina pectoris, bradycardia, extrasystoles, hypoter peripheral vascular disorder (mainly cold feet and/or cold hands), postural hypotension, syncope; Rare: aortic aneurysm, arteritis, first-degree atrioventricular block, bigeminy, bundle branch block, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, hematoma, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infarct, pallor, sinus arrhythmia, thrombophlebitis.

Digestive system - Frequent: increased appetite; Infrequent: bruxism, colitis, dysphagia, tongue edema, eructation, esophagitis gastritis, gastrointestinal ulcer, gingivitis, glossitis, rectal hemorhage, hemorhoids, melena, oral moniliais, stomatitis, mouth ulceration; Rare: abdominal distension, biliary pain, cheilitis, cholecystitis, cholelithiasis, esophageal spasms, duodenitis, hematemesis, gastroesophageal reflux disease, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, ileitis, jaundice, intestinal obstruction, liver tenderness, parotitis, periodontitis, proctitis, salivary gland enlargement, increased salivation soft stools, tongue discoloration

Endocrine system - Rare: galactorrhoea, goiter, hyperthyroidism, hypothyroidism, thyroid nodule, thyroiditis

Hemic and lymphatic system - Frequent: ecchymosis; Infrequent: anemia, leukocytosis, leukopenia, lymphadenopathy, thrombocythemia; Rare: basophilia, bleeding time increased, cyanosis, eosinophilia, lymphocytosis, multiple myeloma, purpura, thrombocytopenia.

Metabolic and nutritional - Frequent: edema, weight gain; Infrequent: alkaline phosphatase increased, dehydration plesteremia, hyperglycemia, hyperlipidemia, hypokalemia, SGOT (AST) increased, SGPT (ALT) increased, thirst; Rare: alcohol intolerance, bilirubinemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal hemochromatosis, hypercalcinuria, hyperkalemia, hyperphosphatemia, hyperuricemia, hypocholest emia, hypoglycemia hyponatremia, hypophosphatemia, hypoproteinemia, uremia.

Musculoskeletal system - Infrequent: arthritis, arthrosis, bone spurs, bursitis, leg cramps, myasthenia, tenosynovitis; Rare: pathological fracture, muscle cramp, muscle spasms, musculoskeletal stiffness, myopathy, osteoporosis, osteosclerosis, plantar fasciitis, rheumatoid arthritis, tendon rupture.

Nervous system - Frequent: amnesia, confusion, depersonalization, hypesthesia, trismus, vertigo; Infrequent: akathisia, apathy ataxia, circumoral paresthesia, CNS stimulation, emotional lability, euphoria, hallucinations, hostility, hyperesthesia, hyperkinesia hypotonia, incoordination, libido increased, manic reaction, myoclonus, neuralgia, neuropathy, psychosis, seizure, stupor, suicidal ideation; Rare: akinesia, alcohol abuse, aphasia, bradykinesia, buccoglossal syndrome, cerebrovascular accident, feeling drunk, loss of consciousness, delusions, dementia, dystonia, energy increased, facial paralysis, abnormal gait, Guillain-Barre Syndrome, homicidal ideation, hyperchlorhydria, hypokinesia, hysteria, impulse control difficulties, motion sickness, neuritis, nystagmus, paranoid reaction, paresis, psychotic depression, reflexes decreased, reflexes increased, torticollis.

Respiratory system - Frequent: cough increased, dyspnea; Infrequent: asthma, chest congestion, epistaxis, hyperventilation laryngismus, laryngitis, pneumonia; Rare: atelectasis, hemoptysis, hypoventilation, hypoxia, larynx edema, pleurisy, pulmonary embolus, sleep apnea.

Skin and appendages - Frequent: pruritus; Infrequent: acne, alopecia, contact dermatitis, dry skin, eczema, maculopapular rash psoriasis, urticaria; Rare: brittle nails, erythema nodosum, exfoliative dermatitis, lichenoid dermatitis, furunculosis, hirsutism leukoderma, miliaria, petechial rash, pruritic rash, pustular rash, vesiculobullous rash, seborrhea, skin atrophy, skin hypertrophy, skin striae, sweating decreased.

Special senses - Frequent: abnormality of accommodation, mydriasis, taste perversion; Infrequent: conjunctivitis, diplopia, dry eyes, otitis media, parosmia, photopholia, taste loss; Rare: blepharitis, cataract, chromatopsia, conjunctival edema, corneal lesion, deafness, exophthalmos, eye hemorrhage, angle-closure glaucoma, retinal hemorrhage, subconjunctival hemorrhage, hyperacusis, keratitis, labyrinthitis, miosis, papilledema, decreased pupillary reflex, otitis externa, scleritis, uveitis, visual field defect.

Urogenital system - Frequent: albuminuria, urination impaired; Infrequent: amenorrhea,* cystitis, dysuria, hematuria, kidney calculus, kidney pain, leukorrhea,* menorrhagia,* metrorrhagia,* nocturia, breast pain, polyuria, pyuria, prostatic disorder (prostatitis, enlarged prostate, and prostate irritability),* urinary incontinence, urinary retention, urinary urgency, vaginal hemorrhage,* vaginitis*; Rare: abortion,* anuria, breast discharge, breast engorgement, balanitis,* breast enlargement, endometriosis,* female lactation,* fibrocystic breast, calcium crystalluria, cervicitis,* orchitis,* ovarian cyst,* bladder pain prolonged erection,* gynecomastia (male),* hypomenorrhea,* mastitis, menopause,* pyelonephritis, oliguria, salpingitis,* urolithiasis, uterine hemorrhage,* uterine spasm,* vaginal dryness.*

* Based on the number of men and women as appropriate.

6.2 Post-Marketing Experience

Voluntary reports of other adverse reactions temporally associated with the use of venlafaxine have been received since market introduction. Because these reactions are reported from a population of uncertain size, it is not always possible to reliably estimat

4296 Package Insert for Venlafaxine Extended-Release Tablets (Ascent-Camber) 126-10-2021.indd 2

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychological statistic protonic register and the control and cont potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRI's and extended-release tablets are initiated or discontinued. [see Warnings and Precautions (5.13).]

7.12 Electroconvulsive Therapy

There are no clinical data establishing the benefit of electroconvulsive therapy combined with venlafaxine extended-release tablets

7.13 Postmarketing Spontaneous Drug Interaction Reports

here have been reports of elevated clozapine levels that were temporally associated with adverse reactions, including seizures, following the addition of venlafaxine.

There have been reports of increases in prothrombin time, partial thromboplastin time, or INR when venlafaxine was given to patients receiving warfarin therapy.

7.14 Drug-Laboratory Test Interactions

False-positive urine immunoassay screening tests for phencyclidine (PCP) and amphetamine have been reported in patients taking ventataxine. This is due to lack of specificity of the screening tests. False positive test results may be expected for several days following discontinuation of ventafaxine therapy. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish venlafaxine from PCP and amphetamine.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects Pregnancy Category C

faxine did not cause malformations in offspring of rats or rabbits given doses up to 2.5 times (rat) or 4 times (rabbit) the maximum recommended human daily dose on a mg/m² basis.

However, in rats, there was a decrease in pup weight, an increase in stillborn pups, and an increase in pup deaths during the first 5 days of lactation, when doising began during pregnant models in sumourn pape, and an inclusion in pape data suming the maximum human daily dose. The no effect dose for rat pup mortality was 0.25 times the human dose on a mg/m2 basis. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Non-Teratogenic Effects

Neonates exposed to veniafaxine hydrochloride extended-release cansules other SNRIs (Serotonin and Noreninenbrine Beuntake Inhibitors), or SSRs (Selective Serotonia Reuptake Inhibitors), late in the third times (checked and the second clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hypertonia, hypertonia, there is a solution of the soluti cases, the clinical picture is consistent with serotonin syndrome [see Warnings and Precautions (5.2)]. When treating a pregnant woman with venlafaxine extended-release tablets during the third timester, the physician should carefully consider the potential risks and benefits of treatment [see Dosage and Administration (2]].

8.2 Labor and Delivery

The effect of venlafaxine on labor and delivery in humans is unknown

8.3 Nursing Mothers

nlafaxine and ODV have been reported to be excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from venlafaxine extended-release tablets, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. 8.4 Pediatric Use afety and effectiveness in the pediatric population have not been established [see BOXED WARNING and Warnings and Precaution (5.1)]. Two placebo-controlled trials in 766 pediatric patients with MDD and two placebo-controlled trials in another disorder in 793

pediatric patients have been conducted with venlafaxine hydrochloride extended-release capsules, and the data were not sufficient support a claim for use in pediatric patients Anyone considering the use of venlafaxine extended-release tablets in a child or adolescent must balance the potential risks with

the clinical need.

Although no studies have been designed to primarily assess impact of venlafaxine hydrochloride extended-release capsules on the growth, development, and maturation of children and adolescents the studies that have been done suggest that venifaxine extended-release tablets may adversely affect weight and height [see Warnings and Precautions (5.7, 5.8, and 5.9]]. Should the decision be made to treat a pediatric patient with venlafaxine extended-release tablets, regular monitoring of weight and height is recommended upring treatment, particularly if it is to be continued long term. The safety of venlation extended release tables, regular monormal or negative extended release tables treatment for pediatric patients has not been systematically assessed for chronic treatment longer than six months in duration.

In the studies conducted in pediatric patients (ages 6-17), the occurrence of blood pressure and cholesterol increases considered to be clinically relevant in pediatric patients was similar to that observed in adult patients. Consequently, the precautions for adults apply to pediatric patients [see Warnings and Precautions (5.3 and 5.14]]

8.5 Geriatric Us

Approximately 4% (14/357) and 2% (6/277) of patients treated with venlafaxine hydrochloride extended-release capsules in placebo-controlled premarketing major depressive disorder and Social Anxiety Disorder trials, respectively, were 65 years of age or over. Of 2,897 patients treated with ventasive hydrochloride immediate-release tablets in premarketing phase may depressive disorder studies, 12% (357) were 65 years of age or over. No overall differences in effectiveness or safety were observed between geriatric patients and younger patients, and other reported clinical experience generally has not identified differences in response gonation patients and younger patients, and where reported the state sensitivity of some older individuals cannot be ruled out. SSRIs and SNRIs, including venlafaxine hydrochloride extended-release capsules 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 (5.11)].

The pharmacokinetics of venlafaxine and ODV are not substantially altered in the elderly [see Clinical Pharmacology (12.3)]. No ment is reco nended for the elderly on the basis of age alone, although other clinical circu may be more common in the elderly, such as renal or hepatic impairment, may warrant a dose reduction [see Dosage and Administration (2.3)

8.6 Patients with Hepatic Impairment

In patients with cirrhosis of the liver, the clearances of venlafaxine and its active metabolite (ODV) were decreased, thus prolonging the elimination half-lives of these substances. A large degree of intersubject variability was noted. [see Clinical Pharmacology (12.3).1 A lower dose and individualization of dosing may be necessary [see Dosage and Administration (2.3)]. Venlafaxine extended ease tablets, like all drugs effective in the treatment of major depressive disorder, should be used with caution in such patients

8.7 Patients with Renal Impairment

In patients with renal impairment (GFR = 10 to 70 mL/min), the clearances of venlafaxine and its active metabolites were decreased, thus prolonging the elimination half-lives of these substances [see Clinical Pharmacology (12.3]]. It is recommended that the total daily does be reduced by 25% to 50% in patients with renal impairment. Because there was much individual variability in clearance between patients with renal impairment, individualization of dosage may be desirable in some patients. In patients undergoing hemodialysis, it is recommended that the total daily dose be reduced by 50%. [see Dosage and Administration (2,3).] kine extended-release tablets, like all drugs effective in the treatment of major depressive disorder, should be used with caution in such patients.

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

faxine extended-release tablets (venlafaxine hydrochloride) are not a controlled substance.

12.3 Pharmacokinetics

Steady-state concentrations of venlafaxine and 0-desmethylvenlafaxine (ODV) in plasma are attained within 3 days of oral autiple does therapy. Venlafaxine and ODV exhibited linear kinetics over the does range of 75 to 450 mg/day. The mean ± SD apparent elimination half-life for venlafaxine and ODV after administration of 75 mg venlafaxine extended-release tablets under fed conditions were 10.7±3.2 hours and 12.5±3.0 hours respectively. Venlafaxine and ODV are minimally bound at therapeutic concentrations to plasma proteins (27% and 30%, respectively)

Absorption and Distribution

Veniafaxine is well absorbed and extensively metabolized in the liver. ODV is the only major active metabolite. On the basis of mass balance studies, at least 92% of a single oral dose of veniafaxine is absorbed. The absolute bioavailability of veniafaxine is about 45%. Administration of 75 mg venlafaxine extended-release tablets under fed conditions resulted in mean ± SD venlafaxine about 45%. Administration of 75 mg ventadaxine extended-release tablets inder ted conductor resoluted in mean \pm 50 ventadaxine C_{max} 62,6 \pm 13,4 ng/mL and AUC of 153.6 \pm 496.8 ng-hr/mL. T_{max} was 6.3 \pm 2.3 hours. ODV mean \pm 50 C_{max} AUC, T_{max} flat diministration of 75 mg ventadaxine extended-release tablets under fed conditions were 97.9 \pm 29.4 ng/mL, 2926.0 \pm 746.1 ng-hr/ ml and 11.6 + 2.9 hours respectively

Administration of venlafaxine hydrochloride extended-release capsules (150 mg g24 hours) generally resulted in lower C (150 Autimised and investigation of the extension of the exte Tmax's were 2 hours for venlafaxine and 3 hours for ODV). When equal daily doses of venlafaxine were administered as either an immediate relases tablet or the extended-release form of venlafaxine and ODV venlafaxine and ODV venlafaxine and ODV venlafaxine extended-release tablets would, therefore, provide a slower rate of absorption, but the same extent of absorption compared with the immediate release tablet.

Food did not affect the pharmacokinetic parameters ALIC C and T of venlafaxine or its active metabolite ODV after faxine extended-release tablets. Time of administration (AM vs PM) would not affect the pharmacokinetics of venlafaxine and ODV.

Equal doses of venlafaxine extended-release tablets are bioequivalent to Effexor XR capsules when administered under fed conditions.

Metabolism and Excretion

Following absorption, venlafaxine undergoes extensive presystemic metabolism in the liver, primarily to ODV, but also to N-desmethylvenlafaxine, N,O-didesmethylvenlafaxine, and other minor metabolites. *In vitro* studies indicate that the formation of ODV is catalyzed by CYP2D6: this has been confirmed in a clinical study showing that patients with low CYP2D6 levels ("poor or ovis catalyzed by CT2DO, this has been committed in a clinical study showing that platents with new CT2DO levels (poor metabolizers) had increased levels of venafaxine and reduced levels of ODV compared to people with normal CYP2DG ("extensive metabolizers"). The differences between the CYP2DG poor and extensive metabolizers, however, are not expected to be clinically important because the sum of venlafaxine and ODV is similar in the two groups and venlafaxine and ODV are pharmacologically approximately equiactive and equipotent.

Approximately 87% of a venlafaxine dose is recovered in the urine within 48 hours as unchanged venlafaxine (5%), unconjugated ODV (29%), conjugated ODV (26%), or other minor inactive metabolites (27%). Renal elimination of venlafaxine and its metabolites is thus the primary route of excretion.

Special Populations

Age and Gender: A population pharmacokinetic analysis of 404 venlafaxine-treated patients from two studies involving both b.i.d. and t.i.d. regimens showed that dose-normalized trough plasma levels of either venlafaxine or ODV were unaltered by age or gender differences. Dosage adjustment based on the age or gender of a patient is generally not necessary [see Dosage and ninistration (2)].

Extensive/Poor Metabolizers: Plasma concentrations of venlafaxine were higher in CYP2D6 poor metabolizers than extensive metabolizers. Because the total exposure (AUC) of venlafaxine and ODV was similar in poor and extensive metabolizer groups, however, there is no need for different venlafaxine dosing regimens for these two groups.

Liver Disease: In 9 subjects with hepatic cirrhosis, the pharmacokinetic disposition of both venlafaxine and ODV was significantly aftered after oral administration of ventatione. Ventation half-life was prolonged by about 30%, and clearance decreased by about 50% in cirrhotic subjects compared to normal subjects. ODV elimination half-life was prolonged by about 60% and clearance decreased by about 30% in cirrhotic subjects compared to normal subjects. A large degree of intersubject bility was noted. Three patients with more severe cirrhosis had a more substantial decrease in venlafaxine clearance (about 90%) compared to normal subjects.

In a second study, venlafaxine was administered orally and intravenously in normal (n = 21) subjects, and in Child-Pugh A (n = 8) and Child-Puoh B (n = 11) subjects (mildly and moderately impaired, respectively). Venlafaxine oral bioavailability was increased 2 to 3 fold, oral elimination half-life was approximately twice as long and oral clearance was reduced by more than half, compared to normal subjects. In hepatically impaired subjects, ODV oral elimination half-life was prolonged by about 40%, while oral clearance for ODV was similar to that for normal subjects. A large degree of intersubject variability was noted.

Dosage adjustment is necessary in these hepatically impaired patients [see Dosage and Administration (2.3) and Use in Specific Populations (8.6)]

Renal Disease: In a renal impairment study, venlafaxine elimination half-life after oral administration was prolonged by about 50% and clearance was reduced by about 24% in renally impaired patients (GFR=10 to 70 mL/min), compared to normal subjects. In dialysis patients, venlafaxine elimination half-life was prolonged by about 180% and clearance was reduced by about 57% compared to normal subjects. Similarly, ODV elimination half-life was prolonged by about 40% although clearance was unchanged in patients with renal impairment (GFR=10 to 70 mL/min) compared to normal subjects. In dialysis patients, ODV elimination half-life was prolonged by about 142% and clearance was reduced by about 56% compared to normal subjects. A large degree intersubject variability was noted. Dosage adjustment is necessary in these patients [see Dosage and Administration (2.3) and Use in Specific Populations (8.7).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Venlafaxine was given by oral gavage to mice for 18 months at doses up to 120 mg/kg per day, which was 1.7 times the maximum recommended human dose on a mg/m² basis. Venlafaxine was also given to rats by oral gavage for 24 months at doses up to 120 mg/kg per day. In rats receiving the 120 mg/kg dose, plasma concentrations of venlafaxine at necropsy were 1 times (male rats) and 6 times (female rats) the plasma concentrations of patients receiving the maximum recommended human dose. Plasma levels of the 0-desmethyl metabolite were lower in rats than in patients receiving the maximum recommended dose. Tumors were not increased by venlafaxine treatment in mice or rats.

Mutagenesis

Venlafaxine and the major human metabolite, 0-desmethylvenlafaxine (ODV), were not mutagenic in the Ames reverse mutation assay in Salmonella bacteria or the Chinese hamster ovary/HGPRT mammalian cell forward gene mutation assay. Venlafaxine was also not mutagenic or clastogenic in the in vitro BALB/c-3T3 mouse cell transformation assay, the sister chromatid exchange was also not interaction to the second in the original of the original of the original of the second s vivo chromosomal aberration assay in rat bone marrow.

Impairment of Fertility

Reproduction and fertility studies in rats showed no effects on male or female fertility at oral doses of up to 2 times the maximum recommended human dose on a mg/m² basis

14 CLINICAL STUDIES

14.1 Major Depressive Disorde

The efficacy of venlafaxine hydrochloride extended-release capsules as a treatment for major depr in two placebo-controlled, short-term, flexible-dose studies in adult outpatients meeting DSM-III-R or DSM-IV criteria for major depressive disorder.

A 12-week study utilizing venlafaxine hydrochloride extended-release capsules doses in a range 75 to 150 mg/day (mean dose for completers was 136 mg/day) and an 8-week study utilizing venlafaxine hydrochinide extended release capsules does in a range 75 to 225 mg/day (mean does for completers was 177 mg/day) both demonstrated superiority of venlafaxine hydrochloride 1-release capsules doses in a ded-release capsules over placebo on the HAM-D total score. HAM-D Depressed Mood Item, the MADRS total score, the

17.9 Sexual Dysfunctio

17.8 Angle Closure Glaucoma

Advise patient that use of venlafaxine extended-release 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 (5.18)]

Manufactured by:

Ascent Pharmaceuticals, Inc Central Islin NY 11722

Manufactured for:

Camber Pharmaceuticals, Inc Piscataway, NJ 08854

Rev: 10/21

by your physician.

are new, worse, or worry you:

thoughts about suicide or dying

attempts to commit suicide

· feeling very agitated or restless

• acting aggressive, being angry, or violent

medicine suddenly can cause other symptom

prescribed for you or your family member.

healthcare provider for more information.

Symptoms in males may include:

Decreased sex drive

Decreased sex drive

provider can suggest.

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extended-release tablets, may cause sexual problems.

Delayed orgasm or inability to have an orgasm

Problems getting or keeping an erection nptoms in females may include:

Delayed ejaculation or inability to have an ejaculation

Medication Guide available at <u>http://camberpharma.com/medication-guides</u>

vour healthcare provider.

are at risk and receive preventative treatment if you are.

treatment choices with the healthcare provider, not just the use of antidepressants.

trouble sleeping (insomnia)

new or worse irritability

new or worse depression

new or worse anxiety

panic attacks

Antidon

1. Antidepres

Medication Guide Venlafaxine Extended-Release Tablets (ven-luh-fak-seen)

Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions Read the Medication Guide that comes with your or your family member's antidepressant medicine. This Medication Guide is only about the risk of suicidal thoughts and actions with antidepressant medicines. Talk to your, or your family member's, healthcare provider about:

Do not take an MAOI within 7 days of stopping venlafaxine extended-release tablets unless directed to do so by your physician

Do not start venlafaxine extended-release tablets if you stopped taking an MAOI in the last 2 weeks unless directed to do so

sant medicines may increase suicidal thoughts or actions in some children, teenagers, and young adults

What is the most important information I should know about antidepressant medicines, depression and other serious

2. Depression and other serious mental illnesses are the most important causes of suicidal thoughts and actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a

Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important

Call the healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings. Keep all follow-up visits with the healthcare provider as scheduled. Call the healthcare provider between visits as needed,

· acting on dangerous impulses

an extreme increase in activity and talking (mania)

Visual Problems: Eye pain, change in vision, swelling or redness around eye

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• other unusual changes in behavior or mood

Call a healthcare provider right away if you or your family member has any of the following symptoms, especially if they

What else do I need to know about antidepressant medicines?
Never stop an antidepressant medicine without first talking to a healthcare provider. Stopping an antidepressant

Visual Problems. Only some people are at risk for these problems. You may want to undergo an eye examination to see if you

Artidepression and also the risks of not treating it. Patients and their families or other caregivers should discuss all

Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine

takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with

Not all antidepressant medicines prescribed for children are FDA approved for use in children. Talk to your child's

Sexual problems (dysfunction). Taking serotonin and norepinephrine reuptake inhibitors (SNRIs), including venlafaxine

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 venlafaxine extended-release tablets. There may be treatments your healthcare

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

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

ressant medicines can interact with other medicines. Know all of the medicines that you or your family member

amily history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.

when an antidepressant medicine is started or when the dose is changed.

3. How can I watch for and try to prevent suicidal thoughts and actions in myself or a family men

- all risks and benefits of treatment with antidepressant medicines
- all treatment choices for depression or other serious mental illness Who should not take venlafaxine extended-release tablets?
- take a monoamine oxidase inhibitor (MAOI). Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including the antibiotic linezolid.

mental illnesses, and suicidal thoughts or actions?

especially if you have concerns about symptoms.

within the first few months of treatment.



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Customer Rep:			
Date Submitted:			
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HIGHLIGHTS OF PRESCRIBING INFORMATION

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- Angle Closure Glaucoma: Angle closure glaucoma has occurred in patients with un with antidepressants, (5.4)
- Abrupt discontinuation or dose reduction: Discontinuation symptoms may occur (generally self-limiting; serious symptoms

lafaxine Extended-Release Tablets (venlafaxine hydrochloride) for Oral use Initial U.S. Approval: 1993

WARNING: Suicidality and Antidepressants See full prescribing information for complete boxed warning. Increased risk of suicidal thinking and behavior in children, adolescents and young adults taking antidepress

approved for use in pediatric patients. (5.1) se tablets are no -RECENT MAJOR CHANGES-

These highlights do not include all the information needed to use Venlafaxine Extended-Release Tablets safely and effectively. See full prescribing information for Venlafaxine Extended-Release Tablets.

Warning and Precautions (5.18)

8/2021 -INDICATIONS AND USAGE-Venlafaxine extended-release tablets are a selective serotonin and norepinephrine reuptake inhibitor (SNRI) indicated for:

Major Depressive Disorder (MDD) (1.1)

 Social Anxiety Disorder (SAD) (1.2) DOSAGE AND ADMINISTRATION Initial Treatment (2.1)

Indication	Starting Dose	Dose Increase	Maximum Dose
Major Depressive Disorder	75 mg/day (in some patients, 37.5 mg/day for 4-7 days)	75 mg/day increments at intervals of 4 days or longer	225 mg/day
Social Anxiety Disorder	75 mg/day	No benefit at higher doses	75 mg/day

Venlafaxine extended-release tablets should be taken as a single daily dose with food in either the morning or evening at the

• Discontinuation: Gradual; individualized as necessary. (2.4) --DOSAGE FORMS AND STRENGTHS

37.5 mg, 75 mg, 150 mg, and 225 mg tablets (3)

--CONTRAINDICATIONS

- Serotonin Syndrome and MAOIs: Do not use MAOI's intended to treat psychiatric disorders with venlafaxine extended-release tablets or within 7 days of stopping treatment with venlafaxine extended-release tablets. Do not use venlafaxine extendedrelease tablets within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start venlafaxine xtended-release tablets in a patient who is being treated with linezolid or intravenous methylene blue (4.1). -----WARNINGS AND PRECAUTIONS----
- Serotonin Syndrome: Sertotonin syndrome has been reported with SSRIs and SNRIs, including venlafaxine extended-release tablets, both when taken alone, but especially when co-administered with other serotonergic agents (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort). If such symptoms occur, discontinue venlafaxine extended-release tablets and initiate supportive treatment. If concomitant use of venlafaxine extended-release tablets with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. (5.2).
- Suicidality: Monitor for clinical worsening and suicide risk. (5.1)

FULL PRESCRIBING INFORMATION: CONTENTS*

2.3 Special Populations 2.4 Discontinuing Venlafaxine Extended-Release Tablets

INDICATIONS AND USAGE

1.2 Social Anxiety Disorder

2 DOSAGE AND ADMINISTRATION

2.2 Maintenance Treatment

4.1 Monoamine Oxidase Inhibitors (MAOIs) 5 WARNINGS AND PRECAUTIONS

5.3 Sustained Hypertension

5.6 Insomnia and Nervousness

5.10 Activation of Mania/Hypomania 5.11 Hyponatremia

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1.1 Major Depressive Disorder

 Sustained hypertension may occur. Blood pressure monitoring reco mended (5.3)

2.5 Switching Patients from Venlafaxine Hydrochloride Immediate-Release Tablets

5.4 Angle Closure Glaucoma 5.5 Discontinuation of Treatment with Venlafaxine Extended-Release Tablets

2.7 Use of Venlafaxine Extended-Release Tablets with Other MAOIs, Such as Linezolid or Methylene Blue **ODSAGE FORMS AND STRENGTHS** 2.6 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

possible). Dose reduction recommended to be gradual. (5.5)

Activation of Mania/Hypomania has occurred. (5.10)

- Symptomatic hyponatremia may occur. (5.11)
- Seizures have been reported. Use with caution in patients with seizure history. (5.12) Abnormal bleeding (most commonly ecchymosis) has been reported. (5.13)
- Serum cholesterol: Clinically relevant cholesterol increases may occur. Cholesterol measurements should be considered during ong-term therapy. (5.14)
- Interstitial lung disease and eosinophilic pneumonia have been reported. (5.15)
- Major Depressive Disorder-Adverse events in short-term studies that occurred in at least 5% of the patients receiving venlafaxine which Depressive disorder-Auterise events in sind real in source and occur in a reast of or the patients deciving vernation extended -release capsules and at a rate a least twice that of the placebo group were abnormal ejaculation, gastrointestii complaints (nausea, dry mouth, and anorexia), CNS complaints (dizziness, somnolence, and abnormal dreams), and sweating. Social Anxiety Disorder-Adverse events in short-term studies that occurred in at least 5% of the patients receiving venlafaxing extended-release capsules and at a rate at least twice that of the placebo group were asthenia, gastrointestinal complaints (anorexia, dry mouth, nausea), CNS complaints (anxiety, insomnia, libido decreased, nervousness, somnolence, dizziness), anormalities of sexual function (abnormal islanding, organic dystanction, importence), yawn, sweating, and abnormalities of sexual function (abnormal vision. To report SUSPECTED ADVERSE REACTIONS, contact Camber Pharmaceuticals, Inc., at 1-866-495-8330 or FDA at 1-800-
- FDA-1088 or www.fda.gov/medwatch. --DRUG INTERACTIONS-• MAOI's: concomitant use contraindicated (4). Avoid MAOI's 14 days before starting venlafaxine and 7 days after stopping
- Cimetidine: Caution in patients with pre-existing hypertension, in elderly patients and patients with hepatic dysfunction. (7.2)
- Haloperidol: Increase in Haloperidol AUC and C_{max} (7.4) Ketoconazole: Increase in venlafaxine and 0-desmethyly enlafaxine AUC and C____. Caution when using venlafaxine with
- substances that inhibit both CYP2D6 and CYP3A4. (7.7) Metoprolo: Possibly reduced blood-pressure lowering effect despite increased metoprolol plasma levels. Caution should be exercised with co-administration of venlafaxine and metoprolol. (7.8)
- CNS-active drugs: Caution when using venlafaxine with such drugs. (7.10) Serotonergic drugs (e.g., triptans, SSRIs, other SNRIs, linezolid, lithium, tramadol, or St. John's Wort): Potential for serotonin
- syndrome. Careful patient observation advised. (7.10)
- Tryptophan supplements: Concomitant use not recommended. (7.10) USE IN SPECIFIC POPULATIONS-
- Pregnancy: Use during pregnancy only if clearly needed. Neonates exposed to venlafaxine in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Benefits and risk of venlafaxine use in the third trimester should be carefully considered. (2.3: 8.1) lursing: Potential for serious adverse reactions in the infant. Discontinue nursing or drug, considering the importance of the
- drug to the mother. (8.3) Pediatric use: Not approved for use in pediatric patients. When considering use in a child or adolescent, balance potential risks
- with clinical need. (8.4) Henatic impairment. Reduction of total daily dose by 50% recommended in patients with mild to moderate impairment. In
- patients with cirrhosis, further reduction may be necessary and dosing individualization may be desirable. (2.3; 8.6) Renal impairment: Reduction of daily dose by 25-50% recommended. Dosing individualization may be necessary. (2.3; 8.7)
- Hemodialysis: Reduction of daily dose by 50%, (2.3: 8.7)
- See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide

7.11 Drugs that Interfere with Hemostasis (e.g., NSAID's, Aspirin, and Warfarin)

7.8 Drugs Metabolized by Cytochrome P450 Isoenzymes

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7.9 Monoamine Oxidase Inhibitors (MAOIs)

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irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers.

Prescriptions for venlafaxine extended-release tablets should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/ control dual) that retain soft an opposed with a matching to the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that venlafaxine extended-release tablets are not approved for use in treating bipolar depression

5.2 Serotonin Syndrome

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The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs including ventafaxine extended-release tablets, alone but particularly with commandate of other serotonersitic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, busipirone, amphetamines, and St. John's Wort), and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, yomiting rrhea). Patients should be monitored for the emergence of serotonin syndrome

The concomitant use of venlafaxine extended-release tablets with MAOIs intended to treat psychiatric disorders is contraindicated. Venlafaxine extended-release tablets should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved nous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the admi istration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses.

There may be circumstances when it is necessary to initiate treatment with a MAOI such as linezolid or intravenous methylene blue in a patient taking venlafaxine extended-release tablets. Venlafaxine extended-release tablets should be discontinued before initiating treatment with the MAOI. [see Contraindications (4.1) and Dosage and Administration (2.6 and 2.7)].

If concomitant use of venlafaxine extended-release tablets with other serotonergic drugs including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, buspirone, tryptophan, amphetamines, and St. John's Wort is clinically warranted, patients should be aware of a potential increased risk for serotonin syndrome particularly during treatment initiation and dose increases Treatment with venlafaxine extended-release tablets and any concomitant serotonergic agents should be discontinued immediately

if the above events occur and supportive symptomatic treatment should be initiated

5.3 Sustained Hypertension

/enlafaxine hydrochloride extended-release capsule treatment is associated with sustained hypertension (defined as treatmentemergent supine diastolic blood pressure (SDBP) \geq 90 mm Hg and \geq 10 mm Hg above baseline for 3 consecutive on-therapy visits) (see Table 2).

An analysis for patients in venlafaxine hydrochloride immediate-release tablet studies meeting criteria for sustained hypertension revealed a dose-dependent increase in the incidence of sustained hypertension for immediate-release venlafaxine hydrochloride

(see Table 3). An insufficient number of patients received mean doses of ventafaxine hydrochloride extended-release cansules over 300 mo/day to fully evaluate the incidence of sustained increases in blood pressure at these higher doses.

Table 2: Number (9/) of Sustained Elevations in SDBD in Venlafeving Hydrophlaride Extended Deleges Consule Dramarkatin

Studies by Indication				
Major Depressive Disorder (75-375 mg/day)	Other Clinical Trials (75-225 mg/day)			
19/705 (3)	5/771 (0.6)			

Table 3: Incidence (%) of Sustained Elevations in SDRP in Venlafaxine Hydrochloride Immediate-Belease Tablet Studies

Venlafaxine mg/day	Incidence
<100	3%
>100 to ≤200	5%
>200 to ≤300	7%
>300	13%

In premarketing major depressive disorder studies, 0.7% (5/705) of the venlafaxine hydrochloride extended-release capsuletreated patients discontinued treatment because of elevated blood pressure. Among these patients, most of the blood pressure increases were in a modest range (12 to 16 mm Hg, SDBP). In other clinical studies, 0.6% (5/771) of the venlafaxine hydrochloride extended-release capsule-treated patients discontinued treatment because of elevated blood pressure. In these patients, the blood sure increases were modest (1 to 24 mm Hg, SDBP).

Sustained increases of SDBP could have adverse consequences. Cases of elevated blood pressure requiring immediate treatment have been reported in post marketing experience. Pre-existing hypertension should be controlled before treatment with venlafaxine. It is recommended that patients receiving

in blood pressure while receiving ventafaxine, either dose reduction or discontinuation should be considered.

Elevations in Systolic and Diastolic Blood Pressure

In placebo-controlled premarketing studies, there were changes in mean blood pressure (see Table 4 for mean change in supine systolic and supine diastolic blood pressure). Across most indications, a dose-related increase in supine systolic and diastolic blood pressure was evident in venlafaxine hydrochloride extended-release capsule-treated patients.

Table 4: Final On-Therapy Mean Changes from Baseline in Supine Systolic and Diastolic Blood Pressure (mm Hg) Results by Indication, Study Duration, and Dose in Placebo-Controlled Trials

	- T					
	Venlafaxine	Venlafaxine Hydrochloride Extended-Release Capsules mg/day			Placebo	
	≤	≤75		>75		
	SSBP ¹	SDBP ²	SSBP	SDBP	SSBP	SDBP
Major Depressive Disorder 8-12 weeks	-0.28	0.37	2.93	3.56	-1.08	-0.10
Other Clinical Trials 12 weeks	-0.29	-1.26	1.18	1.34	-1.96	-1.22

¹Supine Systolic Blood Pressure ine Diastolic Blood Pres

Across all clinical trials, 1.4% of patients in the venlafaxine hydrochloride extended-release capsule-treated groups experienced $a \ge 15$ mm Ha increase in supine diastolic blood pressure with blood pressure ≥ 105 mm Ha compared to 0.9% of patients in the bo groups. Similarly, 1% of patients in the venlafaxine hydro

During premarketing major depressive disorder studies, mania or hypomania occurred in 0.3% of patients treated with venlafaxine hydrochloride extended-release capsules and 0.0% placebo patients. In premarketing Social Anxiety Disorder studies, no patients hydrobinnice create release tables and conspilee practice particles in promaticing obtaining between the status, in planting treated with veniafaxine hydrocholoride extended-release capsules and no placebo-treated patients experienced maina or hypomania. In all premarketing major depressive disorder trials with venlafaxine hydrocholoride immediate-release tablets, mania or hypomania occurred in 0.5% of venlafaxine-treated patients compared with 0% of placebo patients. Mania/hypomania has also been reported in a small proportion of patients with mod disorders who were treaded with other marketed drugs to treat major depressive disorder. As with all drugs effective in the treatment of major depressive disorder, venlafaxine extended-release tablets should be used cautiously in patients with a history of mania

5.11 Hyponatremia

Hyponatremia may occur as a result of treatment with SSRI's and SNRI's, including venlafaxine extended-release tablets. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported. Elderly patients may be at greater risk of developing hyponatremia with SSNIs and SNRIs. Also, patients taking diuretics or who are otherwise voluence depleted may be at greater risk [see Use in Specific Populations (8.5]]. Discontinuation of venlafaxine extended-release tablets should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

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

5.12 Seizures

During premarketing experience, no seizures occurred among 705 patients treated with venlafaxine hydrochloride extended-release capsules in the major depressive disorder studies or among 277 patients treated with venlafaxine hydrochloride extended-release capsules in Social Anxiety Disorder studies. In all premarketing major depressive disorder trials with venlafaxine hydrochloride immediate-release tablets, seizures were reported at various doses in 0.3% (8/3082) of venlafaxine-treated patients. Venlafaxine avtander disease tablets, weizures were reported at various doses in 0.3% (8/3082) of venlafaxine-treated patients. Venlafaxine extended-release tablets, like many antidepressants, should be used cautiously in patients with a history of seizures and should be discontinued in any patient who develops seizures.

5.13 Abnormal Bleeding

SSRis and SMRs, including venlafaxine extended-release tablets, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory 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 epideminological sources (case-control and conor design) have demonstrated an association reverse role of digs that interfere with servicin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to SSRs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of venlafaxine extended-release tablets and NSAIDs, aspirin, or other drugs that affect coagulation

5.14 Serum Cholesterol Elevation

Clinically relevant increases in serum cholesterol were recorded in 5.3% of venlafaxine-treated patients and 0.0% of placebotreated patients treated for at least 3 months in placebo-controlled trials [see Adverse Reactions (6.1]]. Measurement of serum holesterol levels should be considered during long-term treatment.

5.15 Interstitial Lung Disease and Eosinophilic Pneumonia Interstitial lung disease and eosinophilic pneumonia associated with venlafaxine therapy have been rarely reported. The possibility of these adverse reactions should be considered in venlafaxine-treated patients who present with progressive dyspneal courds or chest discomfort. Such patients should undergo a prompt medical evaluation, and discontinuation of venlafaxine therapy should be considered.

5.16 Use in Patients With Heart Disease

Premarketing experience with venlafaxine in patients with concomitant systemic illness is limited. Caution is advised in administering venlafaxine extended-release tablets to patients with diseases or conditions that could affect hemody responses.

Venlafaxine has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable hear disease. Patients with these diagnoses were systematically excluded from many clinical studies during ventations of premarketing testing. The electrocardiograms were analyzed for 275 patients who received ventafaxine hydrochloride extendedrelease capsules and 220 patients who received placebo in 8 to 12 week double-blind, placebo-controlled trials in major depressive disorder as well as for 195 patients who received venlafaxine hydrochloride extended-release capsules and 228 patients who received placebo in 12-week double-blind, placebo-controlled trials in Social Anxiety Disorder. The mean change from baseline in corrected OT interval (OTc) for patients treated with venlafaxine hydrochloride extended-release cansules in major depressive disorder studies was increased relative to that for placeho-treated patients (increase of 4.7 msec for venlataxine hydrochoride extended-release capsules and decrease of 1.9 msec for placebo). The mean change from baseline in QTc for patients treated with venlafaxine hydrochloride extended-release capsules in the Social Anxiety Disorder studies was increased relative to that for placebo-treated patients (increase of 2.8 msec for venlafaxine hydrochloride extended-release capsules and decrease of 2.0 msec for placebo).

In these same trials, the mean change from baseline in heart rate for patients treated with venlafaxine hydrochloride extended release capsules in the major depressive disorder studies was significantly higher than that for placebo (a mean increase of 4 beats per minute for venlafaxine hydrochloride extended-release capsules and 1 beat per minute for placebo). The mean change from baseline in heart rate for patients treated with venlafaxine hydrochloride extended-release capsules in the Social Anxiety Disorder studies was significantly higher than that for placebo (a mean increase of 5 beats per minute for venlafaxine hydrochloride xtended-release capsules and no change for placebo).

In a flexible-dose study, with doses of venlafaxine hydrochloride immediate-release tablets in the range of 200 to 375 mg/day and mean dose greater than 300 mg/day, patients treated with venlafaxine hydrochloride immediate-release tablets had a mean increase in heart rate of 8.5 beats per minute compared with 1.7 beats per minute in the placebo group.

As increases in heart rate were observed, caution should be exercised in patients whose underlying medical conditions might be compromised by increases in heart rate (e.g., patients with hyperthyroidism, heart failure, or recent myocardial infarct

Evaluation of the electrocardiograms for 769 patients who received venlafaxine hydrochloride immediate-release tablets in 4 to 6 week double-blind, placebo-controlled trials showed that the incidence of trial-emergent conduction abnormalities did not differ from that with placebo.

5.17 Laboratory Tests

e are no specific laboratory tests recommended. 5.18 Sexual Dysfunction

Use of SNRIs, including venlafaxine extended-release tablets, may cause symptoms of sexual dysfunction *[see Adverse Reactions*] 6.1). In many metaling formation overload tables, may cause symptoms of sector systemation (sector) and tables and the sector and the sector

It is important for prescribers to inquire about sexual function prior to initiation of venlafaxine extended-release tablets and to Induces the second second second second second the second se second sec sexual symptoms may have other causes, including the underlying psychiatric disorder. Discuss potential management strategies to support patients in making informed decisions about treatmen

The information included in subsection "Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Venlafaxing

Hydrochloride Extended-Relase Capsules" is based on data from a pool of three 8 and 12 week controlled clinical trials in major depressive disorder (includes two U.S. trials and one European trial), and on data up to 12 weeks from a pool of two controlled

clinical trials in Social Anxiety Disorder. Information on additional adverse reactions associated with venlafaxine hydrochloride

extended-release capsules in the entire development program for the formulation and with venlataxine hydrocholoide immediate-release tablets is included in the subsection "Other Adverse Reactions Observed During the Premarketing Evaluation of Venlafaxine

Hydrochloride Immediate-Release Tablets and Venlafaxine Hydrochloride Extended-Release Capsules" [see also Warnings and

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

Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Venlafaxine Hydrochloride Extended-Release Capsules

6 ADVERSE REACTIONS 6.1 Clinical Studies Experience

Data Sources

FULL PRESCRIBING INFORMATION

WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in childrer adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatri disorders. Anyone considering the use of venlafaxine extended-release tablets or any other antidepressant in a child, ent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24: there was a reduction in nts compared to placebo in adults aged 65 and older. Depress isorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started o ant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and lication with the prescriber. Venlafaxine extended-release tablets are not approved for use in pediatric tients. [see Warnings and Precautions (5.1) and Patient Counseling Information (17.1)]

1 INDICATIONS AND USAGE

1.1 Major Depressive Disorder

Venlafaxine extended-release tablets are indicated for the treatment of major depressive disorder (MDD).

Efficacy of venlafaxine in MDD was shown in both short-term trials and a longer-term trial in MDD [see Clinical Studies (14.1)]. A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depres mood or the loss of interest or pleasure in nearly all activities, representing a change from previous functioning, and includes the presence of at least five of the following nine symptoms during the same two-week period: depressed mood, markedly diminished interest or pleasure in usual activities, significant change in weight and/or appetite, insomnia or hypersonnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, a suicide attempt or suicidal ideation

1.2 Social Anxiety Disorder

ded-release tablets are indicated for the treatment of Social Anxiety Disorder (SAD), also known as Social Phobia, as defined in DSM-IV

Social Anxiety Disorder (DSM-IV) is characterized by a marked and persistent fear of 1 or more social or performance situations in which the person is exposed to unfamiliar people or to possible scrutiny by others. Exposure to the feared situation almost invariably provokes anxiety, which may approach the intensity of a panic attack. The feared situations are avoided or endured with intense anxiety or distress. The avoidance, anxious anticipation, or distress in the feared situation(s) interferes significantly with the person's normal routine, occupational or academic functioning, or social activities or relationships, or there is a marked distress about having the phobias. Lesser degrees of performance anxiety or shyness generally do not require psychopharmacological

Efficacy of venlafaxine extended-release in the treatment of SAD was established in short-term SAD trials [see Clinical Studies (14.2).

2 DOSAGE AND ADMINISTRATION

Venlafaxine extended-release tablets should be administered in a single dose with food either in the morning or in the evening at nately the same time each day. Each tablet should be swallowed whole with fluid and not divided, crushed, chewed, or placed in water.

2.1 Initial Treatment

Major Depressive Disorder

For most patients, the recommended starting dose for venlafaxine extended-release tablets is 75 mg/day, administered in a single dose. In the clinical trials establishing the efficacy of venlafaxine hydrochloride extended-release capsules in mod putpatients, the initial dose of venlafaxine was 75 mg/day. For some patients, it may be desirable to start at 37.5 mg/day for 4 to 7 days, to allow new patients to adjust to the medication before increasing to 75 mg/day. While the relationship between dose and antidepressant response for venlafaxine hydrochloride extended-release capsules has not been adequately explored, patients not responding to the initial 75 mg/day dose may benefit from dose increases to a maximum of approximately 225 mg/day. Dose ases should be in increments of up to 75 mg/day, as needed, and should be made at intervals of not less than 4 days, since steady state plasma levels of venlafaxine and its major metabolites are achieved in most patients by day 4. In the clinical trials establishing efficacy, upward titration was permitted at intervals of 2 weeks or more; the average doses were about 140 to 180 mg/day [see Clinical Studies (14)].

It should be noted that, while the maximum recommended dose for moderately depressed outpatients is also 225 mg/day for lafaxine hydrochloride immediate-release tablets, more severely depressed inpatients in one study of the development program for that product responded to a mean dose of 350 mg/day (range of 150 to 375 mg/day). Whether or not higher doses of venlafaxine extended-release tablets are needed for more severely depressed patients is unknown; however, the experience with ver hydrochloride extended-release capsule doses higher than 225 mg/day is very limited. [see Warnings and Precautions (5.17] Social Anxiety Disorder (Social Phobia)

The recommended dose is 75 mg/day, administered in a single dose. There was no evidence that higher doses confer any additional benefit. [see Warnings and Precautions (5.17)]

2.2 Maintenance Treatment

There is no body of evidence available from controlled trials to indicate how long patients with major depressive disorder should be treated with venlafaxine extended-release tablets.

It is generally agreed that acute episodes of major depressive disorder require several months or longer of sustained pharmacological therapy beyond response to the acute episode. In one study, in which patients responding during 8 weeks of acute treatment with venlafaxine hydrochloride extended-release capsules were assigned randomly to placebo or to the same dose of venlafaxine hydrochloride extended-release capsules (75, 150, or 225 mg/day, qAM) during 26 weeks of maintenance treatment as they had received during the acute stabilization phase, longer-term efficacy was demonstrated. A second longer-term study has demonstrated the efficacy of venlafaxine hydrochloride immediate-release tablets in maintaining a response in patients with recurrent major depressive disorder who had responded and continued to be improved during an initial 26 weeks of treatment and were then randomly assigned to placebo or venlafaxine hydrochloride immediate-release tablets for periods of up to 52 weeks on the same dose (100 to 200 mg/day, on a b.i.d. schedule) [see Clinical Studies (14)]. Based on these limited data, it is not known whether or not the dose of venlafaxine extended-release tablets needed for maintenance treatment is identical to the dose needed to achieve an initial response. Patients should be periodically reassessed to determine the need for maintenance treatment and the appropriate dose for such treatment

2.3 Special Populations

ment of Pregnant Women During the Third Trimester Neonates exposed to venlafaxine hydrochloride extended-release capsules, other SNRIs, or SSRIs, late in the third trimester have

developed complications requiring prolonged hospitalization, respiratory support, and tube feeding [see Use in Specific Populations (8.1]]. When treating pregnant women with venafaxine extended-release tablets during the third trimester, the physician should carefully consider the potential risks and benefits of treatment.

Patients with Hepatic Impairment

Given the decrease in clearance and increase in elimination half-life for both venlafaxine and ODV that is observed in patients with nepatic cirrhosis and mild and moderate hepatic impairment compared with normal subjects [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3), it is recommended that the total daily dose be reduced by 50% in patients with mild to moderate hepatic impairment. Since there was much individual variability in clearance between patients with cirrhosis, it may be necessary to reduce the dose even more than 50%, and individualization of dosing may be desirable in some patients.

Patients with Renal Impairment

Given the decrease in clearance for venlafaxine and the increase in elimination half-life for both venlafaxine and ODV that is observed in patients with renal impairment (GFR = 10 to 70 mL/min) compared with normal subjects [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3], it is recommended that the total daily dose be reduced by 25% to 50%.

In patients undergoing hemodialysis, it is recommended that the total daily dose be reduced by 50%. Because there was much individual variability in clearance between patients with renal impairment, individualization of dosage may be desirable in some patients.

Elderly Patients

No dose adjustment is recommended for elderly patients solely on the basis of age. As with any drug for the treatment of major depressive disorder or Social Anxiety Disorder, however, caution should be exercised in treating the elderly. When individualizing the dosage, extra care should be taken when increasing the dose.

2.4 Discontinuing Venlafaxine Extended-Release Tablets

Symptoms associated with discontinuation of venlafaxine hydrochloride extended-release capsules, other SNRI's, and SSRI's

have been reported [see Warnings and Precautions (5.5]]. Patients should be monitored for these symptoms when discontinuing treatment. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate. In clinical trials with venlafaxine hydrochloride extended-release capsules, tapering was achieved by reducing the daily dose by 75 mg at 1 week intervals. Individualization of tapering may be necessary.

2.5 Switching Patients from Venlafaxine Hydrochloride Immediate-Release Tablets

* Sections or subsections omitted from the full prescribing information are not listed.

Depressed patients who are currently being treated at a therapeutic dose with venlafaxine hydrochloride immediate-release tablets nay be switched to venlafaxine extended-release tablets at the nearest equivalent dose (mg/day), e.g., 37.5 mg venlafaxine two

imes-a-day to 75 mg venlafaxine extended-release tablets once daily. However, individual dosage adjustments may be necessary. 2.6 Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with venlafaxine extended-release tablets. Conversely, at least 7 days should be allowed after stopping venlafaxine extended release tablets before starting an MAOI intended to treat psychiatric disorders [see Contraindications (4.1)].

2.7 Use of Venlafaxine Extended-Release Tablets with Other MAOIs, Such as Linezolid or Methylene Blue

Do not start venlafaxine extended-release tablets in a patient who is being treated with linezolid or intravenous methylene blue because there is increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.1)].

In some cases, a patient already receiving venlafaxine extended-release tablets therapy may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, venlafaxine extended-release tablets should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for 7 days or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with venlafaxine extended-release tablets nay be resumed 24 hours after the last dose of linezolid or intravenous methylene blue [see Warnings and Precautions (5.2]]. The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with venlafaxine extended-release tablets is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use [see Warnings and Precautions (5.2)].

3 DOSAGE FORMS AND STRENGTHS afaxine extended-release tablets are available as:

37.5 mg tablets (White to off white, film coated, round biconvex tablets printed with "392" in black ink) 75 mg tablets (White to off white, film coated, round biconvex tablets printed with "393" in black ink) 150 mg tablets (White to off white, film coated, round biconvex tablets printed with "394" in black ink

225 mg tablets (White to off white, film coated, round biconvex tablets printed with "395" in black ink) 4 CONTRAINDICATIONS

.1 Monoamine Oxidase Inhibitors (MAOIs)

The use of MAOI's intended to treat psychiatric disorders with venlafaxine extended-release tablets or within 7 days of stopping treatment with venlafaxine extended-release tablets is contraindicated because of an increased risk of serotonin syn use of venlafaxine extended-release tablets within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated. [see Dosage and Administration (2.6) and Warnings and Precautions (5.2)].

Starting venlafaxine extended-release tablets in a patient who is being treated with MAOIs such as linezolid or intravenous lene blue is also contraindicated because of an increased risk of serotonin syndrome [see Dosage and Administration (2.7) and Warnings and Precautions (5.2).

5 WARNINGS AND PRECAUTIONS

5.1 Clinical Worsening and Suicide Risk

Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/ or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Shortterm studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients

for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs placebo), however, were relatively stable within age strata and across indications hese risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1

Table 1

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 additional cases
	Decreases Compared to Placebo
25-64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the

All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal

class min between the energy of seer symptons and class the versioning of expension and on the energy activity of the series of the energy of whose depression is persistently worse or who are experiencing emergent suicidality or symptoms that might be precursors to ssion or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms [see Dosage and Administration (2.5) and Warnings and

Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation,

placebo groups. 5.4 Angle Closure Glaucoma

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

a \geq 20 mm Hg increase in supine systolic blood pressure with blood pressure \geq 180 mm Hg compared to 0.3% of patients in the

5.5 Discontinuation of Treatment with Venlafaxine Extended-Release Tablets

Discontinuation symptoms have been systematically evaluated in patients taking venlafaxine, to include prospective analyses of clinical trials and retrospective surveys of trials in major depressive disorder and social anxiety disorder. Abrupt discontinuation or dose reduction of venlafaxine at various doses has been found to be associated with the appearance of new symptoms, the frequency of which increased with increased dose level and with longer duration of treatment. Reported symptoms include agitation, anorexia, anxiety, confusion, impaired coordination and balance, diarthea, dizziness, dry mouth, dysphoric mood, fasciculation, fatigue, headaches, hypomania, insomnia, nausea, nervousness, nightmares, sensory disturbances (including shocklike electrical sensations), somnolence, sweating, tremor, vertigo, and vomiting.

During marketing of venlafaxine hydrochloride extended-release capsules, other SNRI's (Serotonin and Norepinephrine Reuptake During intervent of vertratavine injurocritoritie extended release capsules, other Sirvi's (sectionin and order) interprinter neuplake Inhibitors), and SSRI's (selective Serotonin Reuptake Inhibitors), there have been spontaneous reports of adverse reactions occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g. paresthesias such as electric shock sensations), anxiety, confusion, headache agration, dizzites, sensory disturbances (e.g. parestresids such as electric shock sensatoris), anxiety, confusion, readache lethargy, emotional lability, insomnia, hypomania, tinnitus, and seizures. While these reactions are generally self-limiting, there have been reports of serious discontinuation symptoms.

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

5.6 Insomnia and Nervousness

Treatment-emergent insomnia and nervousness were more commonly reported for patients treated with venlafaxine hydrochloride extended-release capsules than with placebo in pooled analyses of short-term major depressive disorder and other clinical studies, as shown in Table 5.

Table 5 Incidence of Insomnia and Nervousness in Placebo-Controlled Maior Depressive Disorder and Other Trials

	Major Depressive Disorder		Other Trials	3	
	Venlafaxine Hydrochloride Extended-Release Capsules	Placebo	Venlafaxine Hydrochloride Extended-Release Capsules	Placebo	
Symptom	n = 357	n = 285	N = 819	n = 695	
Insomnia	17%	11%	24%	8%	
Norwouonooo	10%	E0/	109/	E0/	

Insomnia and nervousness each led to drug discontinuation in 0.9% of the patients treated with venlafaxine hydrochloride extended-release capsules in major depressive disorder studies.

In other clinical trials, insomnia and nervousness led to drug discontinuation in 2% and 1%, respectively, of the patients treated th venlafaxine hydrochloride extended-release capsules up to 12 weeks.

5.7 Changes in Weight

Adult Patients: A loss of 5% or more of body weight occurred in 7% of patients treated with venlafaxine hydrochloride extended release capsules and 2% of placebo-treated patients in the short-term placebo-controlled major depressive disorder trials. The discontinuation rate for weight loss associated with venlafaxine hydrochloride extended-release capsules was 0.1% in major depressive disorder studies. In other placebo-controlled trials, 4% of the patients treated with venlafaxine hydrochloride extended release capsules and 1% of the placebo-treated patients sustained a loss of 7% or more of body weight during up to 6 months nt. None of the patients receiving venlafaxine hydrochloride extended-release capsules in other stud for weight loss.

The safety and efficacy of venlafaxine therapy in combination with weight loss agents, including phentermine, have not been established. Co-administration of venlafaxine extended-release tablets and weight loss agents is not recommended. Venlafaxine extended-release tablets are not indicated for weight loss alone or in combination with other products.

Pediatric Patients: Weight loss has been observed in pediatric patients (ages 6-17) receiving venlafaxine hydrochloride extended release capsules. In a pooled analysis of four eight-week, double-blind, placebo-controlled, flexible dose outpatient trials for major depressive disorder (MDD) and another disorder, patients treated with veniafaxine hydrochloride extended-release capsules lost an average of 0.45 kg (n = 333), while placebo-treated patients gained an average of 0.77 kg (n = 333). More patients treated with venlafaxine hydrochloride extended-release capsules than with placebo experienced a weight loss of at least 3.5% in the studies (18% of patients treated with venlafaxine hydrochloride extended-release capsules vs. 3.6% of placebo-treated patients; p<0.001) (10 % of patients treated with remaining hydrochoide extended release capsules vs. 20% of patients updated by patients, p-0.007). In a 16-week, double-blind, placebo-crotholled, flexible does outpatient study for another disorder, venlafaxine hydrochoide extended-release capsule-treated patients lost an average of 0.75 kg (n=137), while placebo-treated patients gained an average of 0.76 kg (n=148). More patients treated with venlafaxine hydrochloride extended-release capsules than with placebo experienced a weight loss of at least 3.5% in the study (47% of patients treated with venlafaxine hydrochloride extended vs. 14% of placebo-treated patients; p<0.001). Weight loss was not limited to patients with treatment-emergent anorexia [see

The risks associated with longer-term use of venlafaxine hydrochloride extended-release capsules were assessed in an open-label MD study of children and adolescents who received ventataxine hydrochloride extended-release capsules for up to six months. The children and adolescents in the study had increases in weight that were less than expected based on data from age-and sexmatched peers. The difference between observed weight gain and expected weight gain was larger for children (<12 years old) han for adolescents (≥12 years old).

5.8 Changes in Height

Pediatric Patients: During an eight-week, placebo-controlled non-MDD study, venlafaxine hydrochloride extended-release capsuletreated patients (ages 6-17) grew an average of 0.3 cm (n=122), while placebo-treated patients grew an average of 1.0 cm (n=132); p=0.041. This difference in height increase was most notable in patients younger than twelve. During the eight-week placebo-controlled MDD studies, venlafaxine hydrochloride extended-release capsule-treated patients grew an average of 0.8 cm (n = 146), while placebo-treated patients grew an average of 0.7 cm (n = 147). During a 16-week, placebo-controlled non-MDD study, both the venlafaxine hydrochloride extended-release capsule-treated patients (n=109) and the placebo-treated (n=112) patients each grew an average of 1.0 cm. In the six-month, open-label MDD study, children and adolescents had height increases that were less than expected based on data from age-and sex-matched peers. The difference between observed growth rates and expected growth rates was larger for children (<12 years old) than for adolescents (≥12 years old)

5.9 Changes in Appetite

Adult Patients: Treatment-emergent anorexia was more commonly reported for patients treated with venlafaxine hydrochloride extended-release capsules (8%) than for placebo-treated patients (4%) in the pool of short-term, double-blind, placebo-controlled major depressive disorder studies. The discontinuation rate for anorexia associated with venlafaxine hydrochloride extended-release capsules was 1.0% in major depressive disorder studies. Treatment-emergent anorexia was more commonly reported for patients treated with venlafaxine hydrochloride extended-release capsules (20%) than for placebo-treated patients (2%) in the pool f short-term, double-blind, placebo-controlled Social Anxiety Disorder studies. The discontinuation rate for anorexia was 0.4% for patients receiving venlafaxine hydrochloride extended-release capsules for up to 12 weeks in Social Anxiety Disorder studies. Pediatric Patients: Decreased appetite has been observed in pediatric patients receiving venlafaxine hydrochloride extendedrelease capsules. In placebo-controlled trials in MDD and another disorder, 10% of patients aged 6-17 treated with venlafaxing ydrochloride extended-release capsules for up to eight weeks and 3% of patients treated with placebo reported tre emergent anorexia (decreased appetite). None of the patients receiving venlafaxine hydrochloride extended-release capsules discontinued for anorexia or weight loss.

In a placebo-controlled non-MDD trial, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with venlafaxing hydrochloride extended-release capsules and placebo, respectively, reported treatment-emergent anorexia (decreased appetite). The discontinuation rates for anorexia were 0.7% and 0.0% for patients receiving venlafaxine hydrochloride extended-release capsules and placebo, respectively; the discontinuation rates for weight loss were 0.7% for patients receiving either venlafaxine hydrochloride extended-release capsules or placebo. 5.10 Activation of Mania/Hypomania

Major Depressive Disorder: App 11% of the 357 patients wh capsules in placebo-controlled clinical trials for major depressive disorder discontinued treatment due to an adverse reaction compared with 6% of the 285 placebo-treated patients in those studies. Adverse reactions that led to treatment discontinuation in a least 2% of drug-treated patients were nausea, dizziness, and somnolence.

Social Anxiety Disorder: Approximately 17% of the 277 patients who received venlafaxine hydrochloride extended-release capsules in placebo-controlled clinical trials for Social Anxiety Disorder discontinued treatment due to an adverse reaction, compared with 5% of the 274 placebo-treated patients in those studies. Adverse reactions that led to treatment discontinuation in a least 2% of drug-treated patients were nausea, insomnia, impotence, headache, dizziness, and somnolence.

Adverse Reactions Occurring at an Incidence of 5% or More

Adverse Reactions Associated with Discontinuation of Treatment

Major Depressive Disorder: Note in particular the following adverse reactions that occurred in at least 5% of the patients receiving veniataxine bedreast betradet - release to how may average the total of the placebo group for all placebo controlled trials for the major depressive disorder indication (see Table 6): Abnormal ejaculation, gastrointestinal complaints (nausea, dry nouth and anorexia) CNS complaints (dizziness, somnolence, and abnormal dreams), and sweating

In the two U.S. placebo-controlled trials, the following additional reactions occurred in at least 5% of patients treated with venlafaxine hydrochloride extended-release capsules (n = 192) and at a rate at least twice that of the placebo group: Abnormalities of sexual function (impotence in men, anorgasmia in women, and libido decreased), gastrointestinal complaints (constipation and flatulence), CNS complaints (insomnia, nervousness, and tremor), problems of special senses (abnormal vision), cardiovase effects (hypertension and vasodilatation), and yawning.

Social Anxiety Disorder: Note in particular the following adverse reactions that occurred in at least 5% of the patients receiving venlafaxine hydrochloride extended-release capsules and at a rate at least twice that of the placebo group for the 2 placebo controlled trials for the Social Anxiety Disorder indication (see Table 7). Asthenia, gastrointestinal complexity constipation, dry mouth, nausea), CNS complaints (dizziness, insomnia, libido decreased, nervousness, somolence), abnormalities of sexual function (abnormal ejaculation, impotence, libido decreased, orgasmic dysfunction), yawn, sweating, and abnormal vision.

Adverse Reactions Occurring at an Incidence of 2% or More Among Patients Treated with Venlafaxine Hydrochloride Extended

Tables 6 and 7 enumerate the incidence, rounded to the nearest percent, of adverse reactions that occurred during acute therapy of major depressive disorder (up to 12 weeks; dose range of 75 to 225 mg/day) and of Social Anxiety Disorder (up to 12 weeks; dose range of 75 to 225 mg/day), respectively, in 2% or more of patients treated with venlafaxine hydrochloride extended-release capsules where the incidence in patients treated with ventafaxine hydrochloride extended release greater than the incidence for the respective placebo-treated patients. The table shows the percentage of patients in each group who had at least one episode of a reaction at some time during their treatment. Reported adverse reactions were classified using a standard COSTART-based Dictionary terminology.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse reactions in the course of usual medical practice where patient characteristics and other factors differ from those which prevailed in the clinical trials Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse reaction incidence rate in the population studied.

Table 6 Treatment-Emergent Adverse Reaction Incidence in Short-Term Placebo-Controlled Clinical Trials with Venlafaxine Hydrochloride Extended-Release Capsules in Patients with Major Depressive Disorder¹²

Body System Preferred Term	% Reporti	% Reporting Reaction	
	Venlafaxine Hydrochloride Extended-Release Capsules (n=357)	Placebo (n=285)	
Body as a whole		(200)	
Asthenia	8%	7%	
Cardiovascular System			
Vasodilation ³	4%	2%	
Hypertension	4%	1%	
Digestive System			
Nausea	31%	12%	
Constipation	8%	5%	
Anorexia	8%	4%	
Vomiting	4%	2%	
Flatulence	4%	3%	
Metabolic/Nutritional			
Weight Loss	3%	0%	
Nervous System			
Dizziness	20%	9%	
Somnolence	17%	8%	
Insomnia	17%	11%	
Dry Mouth	12%	6%	
Nervousness	10%	5%	
Abnormal Dreams ⁴	7%	2%	
Tremor	5%	2%	
Depression	3%	<1%	
Paresthesia	3%	1%	
Libido Decreased	3%	<1%	
Agitation	3%	1%	
Respiratory System			
Pharyngitis	7%	6%	
Yawn	3%	0%	
Skin			
Sweating	14%	3%	
Special Senses			
Abnormal Vision ⁵	4%	<1%	
Urogenital System			
Abnormal Ejaculation (male)6,7	16%	<1%	
Impotence ⁷	4%	<1%	
Anorgasmia (female) ^{8,9}	3%	<1%	

1 Incidence, rounded to the nearest %, for reactions reported by at least 2% of patients treated with venlafaxine hydrochloride extended-release capsules, except for reactions which had an incidence equal to or less than placebo $^{\rm 2}$ <1% indicates an incidence greater than zero but less than 1%.

Mostly "hot flashes.

Warnings and Precautions (5.9).