-ADVERSE REACTIONS-Major Depressive Disorder - Adverse events in short-term studies that occurred in at least 5% of the patients receiving veniafaxine extended-release capsules and at a rate at least twice that of the placebo group were abnormal ejaculation, gastrointestinal complaints (nausea, dry mouth, and anorexia), CNS complaints (dizziness, somnolence, and abnormal dreams), and sweating. (6.1) Social Anxiety Disorder - Adverse events in short-term studies that occurred in at least 5% of the patients receiving veniafaxine 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), abnormalities of sexual function (abnormal ejaculation, orgasmic dysfunction, impotence), yawn, sweating, and abnormal vision. (6.1) Warning and Precautions (5.2, 5.13) 9/2023 -----INDICATIONS AND USAGE------(enlafaxine extended-release tablets are a selective serotonin and norepinephrine reuptake inhibitor (SNRI) Maior Depressive Disorder (MDD) (1.1) Social Anxiety Disorder (SAD) (1.2) To report SUSPECTED ADVERSE REACTIONS, contact Edenbridge Pharmaceuticals, LLC at Telephone: 1-877-381-3336 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. ----- DOSAGE AND ADMINISTRATION ------Initial Treatment (2.1) Dose Increase Maximum Dose Indication Starting Dose Major Depressive 75 mg/day (in some patients, 75 mg/day increments at 225 mg/day for 4-7 days) intervals of 4 days or longer hepatic dysfunction. (7.2) Haloperidol: Increase in haloperidol AUC and C_{max}. (7.4) Social Anxiety enlafaxine with substances that inhibit both CYP2D6 and CYP3A4. (7.7) 75 mg/day No benefit at higher doses 75 mg/day Disorder Metoprolol: Possibly reduced blood pressure lowering effect despite increased metoprolol plasma levels. Caution should be exercised with co-administration of venlataxine and metoprolol. (7.8) CNS-active drugs: Caution when using venlataxine 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) 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 ------75 mg tablets (3) -----CONTRAINDICATIONS----------- USE IN SPECIFIC POPULATIONS ------Serotonin Syndrome and MAOIs: Do not use MAOIs 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 extended-release 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). 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) Podiative but nerved for use in explicit extinct. 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) 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

Who is being treated with line2olid or intravenous methylene blue (4.1).
 Serotonin Syndrome: Serotonin 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. If such symptoms occur, discontinue venlafaxine extended-release tablets and initiate supportive treatment. If concomitant use of 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)
 Sustained hypertension may occur. Blood pressure monitoring recommended. (5.3)
 Angle Closure Glaucoma: Angle closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.4)

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: 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 antidepressants for major depressive disorder (MDD) and other psychiatric disorders. Venlafaxine extended-release tablets are not approved for use in pediatric patients. (5.1)

------RECENT MAJOR CHANGES------

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nitial U.S. Approval: 1993

VENLAFAXINE extended-release tablets, for oral use.

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ADVERSE REACTIONS DRUG INTERACTIONS

7.6 Drugs Highly Bound to Plasma Proteins

FULL PRESCRIBING INFORMATION afaxine extended-release tablets (venlafaxine hydrochloride)

WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, 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, adolescent, 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 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)*]. WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

I INDICATIONS AND USAGE 1.1 Maior Depressive Disorder

-release tablets (venlafaxine hydrochloride) 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)] ive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least

A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depressed 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 apetitie, insomia or hypersonmia, 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** Venifaxine extended-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. 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 ot require psychopharmacological treatment Efficacy of venlafaxine extended release in the treatment of SAD was established in short-term SAD trials [see

2 DOSAGE AND ADMINISTRATION

ded-release tablets should be administered in a single dose with food either in the morning o in the evening at approximately 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

2.1 Initial reasons. Major Depressive Disorder For most patients, the recommended starting dose for venlafaxine extended-release set administered in a single dose. In the clinical trials establishing the efficacy of venlafaxine hydrochloride extended-release capsules in moderately depressed outpatients, 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 venlafaxin

hydrochloride extended-release capsules has not been adequately explored, patients not responding to the initial

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)

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

7.7 Drugs that Inhibit Cytochrome P450 Isoenzymes 7.8 Drugs Metabolized by Cytochrome P450 Isoenzymes 7.9 Monoamine Oxidase Inhibitors (MAOIs) 7.10 Other Serotonergic Drugs 7.11 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, and Warfarin) 7.12 Electroconvulsive Therapy 7.13 Postmarketing Spontaneous Drug Interaction Reports 7.14 Drug-Laboratory Test Interactions

-----ADVERSE REACTIONS------

nay be desirable. (2.3; 8.6)

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I7.1 Clinical Worsening and Suicide Risk I7.2 Interference with Cognitive and Motor Performance I7.3 Concomitant Medication I7.4 Alcohol I7.5 Allergic Reactions I7.6 Pregnancy I7.7 Nursion

Abrupt discontinuation or dose reduction: Discontinuation symptoms may occur (generally self-limiting

hydrochloride extended-release capsules has not been adequately explored, patients not responding to the initial 75 mg/day core 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, and ended, 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 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 tor moderately depressed outpatients is also 225 mg/day for veniafaxine hydrochloride immediate-release tablets, more severely depressed outpatients 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 venifaxine extended-release tablets are need 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. Social Anxiety Disorder (Social Phobia) There commended dose is 75 mg/day, administered in a single dose. There was no evidence that higher doses confer any additional benefit.

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

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 per day, qAM) during 26 weeks of maintenance treatment as they had received during the acute stabilizatio 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 m/day, on a b.i.d. schedule) *isee Clinical Studies (14)*. Based on these limited data, it is not known whether or not the dose of venlafaxine extended-release tablets needed fo aintenance treatment is identical to the dose needed to achieve an initial response. Patients should be periodically assessed to determine the need for maintenance treatment and the aporopriate dose for such treatment.

2.3 Special Populations

pecial ropulations ment of Pregnant Women During the Third Trimester ates exposed to venlafaxine hydrochloride extended-release capsules, other SNRIs, or SSRIs, late in the third nates exposed to ventataxine hydrochloride extended-release capsules, other SNRIs, or SSRIs, late in the third ster have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding *Use in Specific Populations (8.1)*! When treating pregnant women with ventataxine extended-release tablets g the third trimester, the physician should carefully consider the potential risks and benefits of treatment. Ints with Hepatic Impairment 1the decrease in clearance and increase in elimination half-life for both ventataxine and ODV that is observed tients with hepatic introduced and moderate benefits of the statement of the terms with the statement.

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 bility 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.

ents 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 does be reduced by CBF to EDBP. 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 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 SNRIs, and SSRIs 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** Depressed patients who are currently being treated at a therapeutic dose with venlafaxine hydrochloride immediate-release tablets may be switched to venlafaxine extended-release tablets at the nearest equivalent dose (mg/day), e.g., ease tablets 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, indi

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 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 veniafaxine extended-release tablets with Other MAOIs, Such as Linezolid or intravenous methylene Blue Do not start veniafaxine 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 retartment of a psychiatric condition, other interventions, including hospitalization, should be considered [see Contraindications (4.1)]. In some cases, a patient already receiving veniafaxine 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 indiged to outweigh the risks of serotonin syndrome in a patient veniafaxine extended-release tablets therapy may require urgent treatment of 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 veniafaxine 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 blue blue (see Warnings and Precautions (5.2)). The risk of administering methylene blue blue y non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with veniafaxine 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)]. 2.7 Use of venlafaxine extended-release tablets with Other MAOIs. Such as Linezolid or Methylene Blue

DOSAGE FORMS AND STRENGTHS

/enlafaxine extended-release tablets are available as: 75 mg tablets (white to off-white, mottled round shaped coated tablets, imprinted with blue ink "75" on one side) CONTRAINDICATIONS

4 CONTRAINDICATIONS 4.1 Monoamine Oxidase Inhibitors (MAOIs) The use of MAOIs 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 syndrome. The 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 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 Bisk

Revised: 09/2023

And Administration (2.7) and warmings 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 suicidal the emergence of suicidality in certain patients during these arty 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 dif 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-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (DCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 7,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients to ralmost all drugs studied. There were differences in aboutter sik of suicidality across the different indications, with the highest incidence in MDD. Ther risk differences (drug ys placebo), however, were relatively stable within age 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

,000 patients treated) are provided in Table 1. Table 1

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1,000
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 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			

Autor 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 are adout the requirement of depresents.

an delay the recurrence of depression. Il 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 ssion and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms

The second se 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 ight be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onse

r were not part of the patient's presenting symptoms. the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but nition that abrupt discontinuation can be associated with certain symptoms [see Dosage and Adr Narnings and Precautions (5.5)].

Win recognition that ability discontinuation can be associated with certain symptoms [see Dosage and Administration [2.5] and Warnings and Precautions [5.5]]. 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, 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 and man emay increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of 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, and depression. It should be noted that venlafaxine extended-release tablets are not approved for use in treating bipolar depression. 5.2 Serotonin Syndrome 5.2 Serotonin Svndrome

or placebo-treated patients; p<0.001). Weight loss was not limited to patients with treatment-emergent anorexia (see Warnings and Precatitions (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 who received venlafaxine hydrochloride extended-release capsules for up to six months. The children and adolescents who received venlafaxine hydrochloride extended-release capsules that expected based on data from age- and exe-matched 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 0.3 cm (n=122), while placebo-treated patients grew an average of 0.3 cm (n=122), placebo-controlled mon-MDD study, but he venlafaxine hydrochloride extended-release capsule-treated patients (ages 6-17) grew an average of 0.3 cm (n=122), while placebo-created patients grew an average of 0.3 cm (n=132), pallotebb controlled non-MDD study, but he venlafaxine hydrochloride extended-release capsule-treated patients (ages 6-17) grew an average of 0.3 cm (n=122), while blacebb-controlled non-MDD study, but he venlafaxine hydrochloride extended-release capsule-treated patients grew an average of 0.3 cm (n=146), while placebb-created patients grew an average of 0.7 cm (n=147). During a 16-week, placebb-controlled non-MDD study, both the venlafaxine hydrochloride extended-release capsule-treated patients (n=102) and the placebb-treated patients each grew an average of 0.7 cm (n=147). During a 16-week, placebb-controlled non-MDD study, both the venlafaxine hydrochloride extended-release caps otonin-norepinephrine reuptake inhibitors (SNRIs), including venlafaxine extended-release tablets, can precipitate serotonin syndrome, a potentially life-threatening condition. The risk is increased with concomitant use of other serotonergi drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, meperidine, methadone irone, amphetamines, and St. John's Wort), and with drugs that impair metabolism of serotonin, i.e., MAOIs [see Contraindications (4), Drug Interactions (7.1)]. Serotonin syndrome can also occur when these drugs are used alone Servition syndrome signs and symptoms may include mental status changes (e.g., agitation, hall and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flush ations. delirium. resis flushing hype neuromusc ar symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, inc

symptoms (e.g., nausea, vomiting, diarrhea). The concomitant use of venlafaxine extended-release tablets with MAOIs is contraindicated. In addition, do not initiate 5.9 Changes in Appetite Adult Patients: Treatment-emergent anorexia was more commonly reported for patients treated with venlafaxine capsules was 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. Reportec The Concommand to do or versataxine extended the save tables with mAOIs such as inecolid and indicated in advantage. The advantage tables is a patient being treated with MAOIs such as inecolid or intravenous methylene blue No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) If it is necessary to initiate treatment with an MAOI such as intercolid or intravenous methylene blue in a patient being tables as the save of the other tables or local tissue injection) 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 adverse reactions were classified using a standard COSTART-based Dictionary terminology he prescriber should be aware that these figures cannot be used to predict the incidence of adverse reactions in the with venlafaxine hydrochloride extended-release capsules was 1.0% in major depressive disorder studies. Treatment course of usual medical practice where patient characteristics and other factors differ from those which prevailed in th In this necessary to initiate treatment with an initial state of a sine schedule of initial relation taking venlafaxine extended-release tablets, discontinue venlafaxine extended-release tablets before initiating treatment with the MAOI [see Contraindications (4), Drug Interactions (7.9)]. Monitor all patients taking venlafaxine extended-release tablets for the emergence of serotonin syndrome. Discontinue treatment with venlafaxine extended-release tablets and any concomitant serotonergic agents immediately if the above symptoms occur, and initiate supportive symptomatic treatment. If concomitant use of venlafaxine extended-release tablets with other serotonergic drugs is clinically warranted, inform patients of the increased risk for serotonin syndrome and exortic for curpotenes. clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigation emergent anorexia was more commonly reported for patients treated with venlafaxine hydrochloride extended-releas prolying different treatments uses and investigators. The cited figures however, do provide the prescribing physicial es (20%) than for placebo-treated patients (2%) in the pool of short-term, double-blind, placebo-controlled Soci Anxiety Disorder studies. The discontinuation rate for anorexia was 0.4% for patients receiving venlafaxine hydrochlorid with some basis for estimating the relative contribution of drug and nondrug factors to the adverse reaction extended-release cansules for up to 12 weeks in Social Anxiety Disorder studies rate in the nonulation studied Table 6: Treatment-Emergent Adverse Reaction Incidence in Short-Term Placebo-Controlled Clinical Trials with Venlafaxine Hydrochloride Extended-Release Capsules in Patients with Maior Depressive Disorder^{1,2} 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 venlataxine hydrochloride extended-release capsules for up to eight weeks and 3% of patients treated with p eported treatment-emergent anorexia (decreased appetite). None of the patients receiving venlafaxine hydroc 5.3 Sustained Hypertension % Reporting Reaction Body System ment-emergent anorexia (decre victored relative capsules discontinued for anorexia or weight loss. n a placebo-controlled non-MDD trial, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with venlafaxine

5.3 Sustained Hypertension Venlafaxine hydrochloride extended-release capsule treatment is associated with sustained hypertension (defined as treatment-emergent 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 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 venlafaxine hydrochloride extended-release capsules over

300 mg/day to fully evaluate the incidence of sustained increases in blood pressure at these higher doses. Тэ

able 2: Number (%) of Sustained Elevations in SDBP in Venlataxine Hydrochlori Capsule Premarketing Studies by Indication			
Major Depressive Disorder (75-375 mg/day)	Other Clinical Trials (75-2		
19/705 (3)	5/771 (0.6)		



Venlafaxine extended-release tablets Rx only

de Extended-Releas -225 mg/day)

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).

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

ablets have regular monitoring of blood pressure. For patients who experience a sustained increase in blood pre Is nave regular monitoring or blood pressure. For patients who experience a sustained increase in blood pressure receiving venafaxine, either dose reduction or discontinuation should be considered. ations in Systolic and Diastolic Blood Pressure cebo-controlled premarketing studies, there were changes in mean blood pressure (see Table 4 for mean change in e systolic and supine diastolic blood pressure). Across most indications, a dose-related increase in supine systolic 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 Pressur (mm Hg) Results by Indication, Study Duration, and Dose in Placebo-Controlled Trials Venlafaxine Hydrochloride Extended-Release

	Capsules mg/day					
	≤75		>75			
	SSBP ¹	SDBP ²	SSBP	SDBP	SSBP	SDBF
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

ine Systolic Blood Press

Across all clinical trials, 1.4% of patients in the venlafaxine hydrochloride extended-release capsule-treated groups experienced a ≥15 mm Hg increase in supine diastolic blood pressure with blood pressure storado dopand tractor groups are to 0.9% of patients in the placebo groups. Similarly, 1% of patients in the venlafaxine hydrochloride extended-release capsule-treated groups experienced a ≥20 mm Hg increase in supine systolic blood pressure with blood pressure ≥180 mm Hg compared to 0.3% of patients in the placebo groups. 5.4 Angle Closure Glaucoma

ure Glaucoma: The pupillary dilation that occurs following use of many antidepressant drugs including venlafaxing

5.4 Angle Closure Glaucoma Angle-Closure Glaucoma: The pupillary dilation that occurs following use of many antidepressant drugs including ventafaxine may trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy. 5.5 Discontinuation of Treatment with ventafaxine extended-release tablets Discontinuation symptoms have been systematically evaluated in patients taking ventafaxine, 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 ventafaxine 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, fasciculation, fatigue, headaches, hypomania, insomnia, nausea, nervousness, nightmares, sensory disturbances (including shock-like electrical sensations), somolence, sweating, tremor, vertigo, and vomiting. During marketing of venitataxine hydrochloride extended-release capsules, other SNRIB (Serotonin and Norepinephrine Reuptake Inhibitors), and SSRIS (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, 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 discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physic

rochloride extended-release capsules than with placebo in pooled analyses of short-term major depressive disorde 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 Other Trials

ingle Depresence Diservel					
	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%	
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.

treated with veniafaxine 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 veniafaxine 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 veniafaxine 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 veniafaxine hydrochloride extended-release capsules was 0.1% in major depressive disorder studies. In other placebo-created patients sustained a loss of 7% or more of body weight during up to 6 months of treatment. None of the patients receiving venifaxine hydrochloride extended-release capsules in other studies discontinued for weight loss. The safety and efficacy of venifaxine therapy in combination with weight loss agents, including phentermine, have not been established. Co-administration of venifaxine extended-release tablets and weight loss agents in otre commended. Venifaxine 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 patients gained an average of 0.77 kg (n = 333). More patients treated with venifaxine hydrochloride experienced a weight loss of at least 3.5% in the studies (18% of placebo-created patients gained an average of 0.77 kg (n = 333). More patients treated with venifaxine hydrochloride extended-experienced a weight loss of at least 3.5% in the studies (18% of platients treated with venifatiane hydrochloride extended-torchloride 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 extende release capsules vs. 3.6% of placebo-treated patients; p<0.001). In a 16-week, double-blind, placebo-controlled, flexible dose outpatient study for another disorder, veniafaxine hydrochloride 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 ings and Precautions (5.9)].

sex-matched peers. The difference between observed growth rates and expected growth rates was larger for (<12 years old) than for adolescents (≥12 years old).

In a placebo-controlled non-MDD trial, 22% and 3% of patients aged 6-17 treated for up to 16 weeks with venlafaxine 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** 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 treated with venlafaxine hydrochloride extended-release capsules and no placebo-treated patients experienced mania or hypomania. In all premarketing major depressive disorder trials with venlafaxine hydrochloride 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 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 should be used cautiously in patients with a history of mania. **5.11 Hyponatremia**

Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including venlafaxine extended-release Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, 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 SSRIs 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 symptomatic hyponatremia and appropriate medical intervention should be instituted.

intervention should be instituted. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which may lead to falls. Signs and symptoms associated with more severe and/or acute cases have included hallucination, syncope, seizure, coma, respiratory arrest, and death. 5.12 Seizures

3.12 Setures 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 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 Increased Risk of Bleeding SSRIs and SNRIs, including venialfaxine extended-release tablets, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs (NSAIDs), warfarin, and other anticoagulants may add to this risk.

Use of aspirit, nonservoidar anti-inflammatory drugs (NSANDS), warnahi, and other anticodoptiants may add to this risk. Case reports and epidemiological studies (case-control and cohurch design) have demonstrated an association between use of drugs that interfere with servotinin reuptake and the occurrence of gastrointestinal bleeding. Based on data from the published observational studies, exposure to SNRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Use in Specific Populations (8.1)]. Bleeding events related to SSRIs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages. Patients should be cautioned about the increased risk of bleeding associated with the concomitant use of venlafaxine evtended relacea toblet and NSAIDs.

d-release tablets and NSAIDs, aspirin, or other drugs that affect coagul

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 placebo-treated patients treated for at least 3 months in placebo-controlled trials [see Adverse Reactions (6.1)]. Measurement of serum cholesterol 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-treated patients who present with progressive dyspnea, cough or chest discomfort. Such patients should undergo a prompt medical evaluation, and discontinuation of venlafaxine therapy should be considered. of venlafaxine therapy should be considered 5.16 Use in Patients With Heart Disease

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

veniafaxine has not been evaluated or used to any appreciable extent in patients with a recent history of myocardia infarction or unstable heart disease. Patients with these diagnoses were systematically excluded from many clinica studies during ventafaxine's premarketing testing. The electrocardiograms were analyzed for 275 patients who received ventafaxine hydrochloride 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 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 (Orc) for patients treated with ventafaxine hydrochloride extended-release capsules in major depressive disorder studies was patients treated with vehicatability of control extended release capsules in high depiction of the studies was increased relative to that for placebo-treated patients (increase of 4.7 msec for vehicataxine hydrochloride extended-release capsules and decrease of 1.9 msec for placebo). The mean change from baseline in QTc for patients treated with vehicataxine 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 vehicataxine hydrochloride extended-release capsules of the social Anxiety of the studies of the social Anxiety of the social Anx

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). In a flexible-dose study, with doses of venlafaxine hydrochloride extended-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 mean increase in heart rate of 8.5 beats per minute compared with 1.7 beats per minute in the placebo might be compromised by increases in heart rate (e.g., patients with hyperthyroidism, heart failure, or recent myocardial infarction).

valuation 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

ere 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 male patients, SNRI use may result in ejaculatory delay or failure, decreased libido, and erectile dysfunction. In female patients, SNRI use may result in decreased libido and delayed or absent orgasm. It is important for prescribers to inquire about sexual function prior to initiation of venlafaxine extended-release tablets. and to inquire specifically about changes in sexual function during treatment, because sexual function may not be spontaneously reported. When evaluating changes in sexual function, obtaining a detailed history (including timing of symptom onset) is important because sexual symptoms may have other causes, including the underlying psychiatric ential management strategies to support patients in making informed decisions about treatment 6 ADVERSE REACTIONS

6.1 Clinical Studies Experience

6.1 Clinical Studies Experience Data Sources The information included in subsection "Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Veniataxine Hydrochloride 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 veniafaxine hydrochloride extended-release capsules in the entire development program for the formulation and with veniafaxine hydrochloride immediate-release tablets is included in the subsection "Other Adverse Reactions Observed During the Premarketing Evaluation of Veniafaxine Hydrochloride Extended-Release Capsules" *(see also Warnings and Precautions (5))*. 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.

observed in practice. Adverse Findings Observed in Short-Term, Placebo-Controlled Studies with Venlafaxine Hydrochloride Extended

Release Capsules Adverse Reactions Associated with Discontinuation of Treatment <u>Major Depressive Disorder</u>: 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 a least 2% of drug-treated patients in those studies, and somnolence. Social Anxiety Disorder: Approximately 17% of the 277 patients who received venlataxine hydrochloride extended-release capsules in placebo-controlled clinical trials for Social Anxiety Disorder discontinued treatment due to an Telease capsules in practice of the 2r4 place between the provider interest and the second and t dizziness, and somnolence.

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 venlataxine 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 mouth, 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

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), cardiovascular effects (hypertension and vascolitation), and yawning. <u>Social Anxiety Disorder</u>: Note in particular the following adverse reactions that occurred in at least 5% of the patients receiving venifations (arborder the Social Anxiety Disorder indication) (see Table 7). Sthenia, gastrointestinal complaints (anorexia, constipation, dry mouth, nausea), CNS complaints (dizziness, insomnia, 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-Rielease Capsules*

Extended-Release Capsules ables 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 venlafaxine hydrochloride extended-releas

ouy oyotom	// hepoting neaction		
Preferred Term	Venlafaxine Hydrochloride Extended-Release Capsules (n = 357)	Placebo (n = 285)	
3ody as a Whole Asthenia	8%	7%	
Cardiovascular System Vasodilatation ³	4%	2%	
Hypertension	4%	1%	
Digestive System Nausea Constipation	31% 8%	12% 5%	
and the second			

5.11 Hyponatremia

0 Patients Treated

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 Vision⁵	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 venlaf ydrochloride extended-release capsules, except for reactions which had an incidence equal to or less than placebo c1% indicates an incidence greater than zero but less than 1%. Meath: "thet leade or "

Mostly "vivid dreams," "nightmares," and "increased dreaming." Mostly "blurred vision" and "difficulty focusing eyes."

Mostly "delayed ejaculation." Incidence is based on the number of male patients.

Mostly "delayed orgasm" or "anorgasmia.

Table 7: Treatment-Emergent Adverse Reaction Incidence in Short-Term Placebo-Controlled Clinical Trials with Venlafaxine Hydrochloride Extended-Release Capsules in Social Anxiety Disorder Patients¹,

Body System	% Reporting Reaction			
Preferred Term	Venlafaxine Hydrochloride Extended-Release Capsules (n=277)	Placebo (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%		
Vasodilatation 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 Ejaculation ^{7,8}	16%	1%		
	10%	1%		
	10%	170		

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

8%

0%

Orgasmic Dysfunction9,10

ostly "decreased appetite" and "loss of appetite." 'increased dreaming " "nightmares," and

⁶ Mostly "vivid dreams,¹" nightmares," and "increased dreaming."
 ⁶ Mostly "blurred vision."
 ⁷ Includes "delayed ejaculation" and "anorgasmia."
 ⁸ Percentage based on the number of males (venlafaxine hydrochloride extended-release capsules = 158, placebo = 153).
 ¹⁰ Percentage based on the number of females (venlafaxine hydrochloride extended-release capsules = 119, placebo = 100, placebo = 100

Vital Sign Changes Treatment with venlafaxine hydrochloride extended-release capsules treatment for up to 12 weeks in premark

Iterative in the intervention of the interventing of the interventing of the interventing of the intervent

Precautions (5.3) for effects on blood pressure]. n a flexible-dose study in MDD, 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 pulse was increased by about 2 beats per minute compared with a 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 hydrochl

chloride extended-release capsules treatment for up to 12 weeks in premarketing placebo-controlled Volinatizame ingridomonoto subjectivado rotezio capadiati administri to a plo la velovisi ne formanoaring prazovo controlled trials for major depressive disorder was associated with a 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. Venlafaxim hydrochloride extended-release capsules treatment for up to 12 weeks in other premarketing placebo-controlled rials was associated with mean final on-therapy increases in serum cholesterol concentration of approximately 7.9

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. Patients treated with veniafaxine hydrochloride immediate-release tablets for at least 3 months in placebo-controlled 12-month 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 ∠50 mg/dL from baseline and to a value ≥261 mg/dL, or 2) an average on-therapy increase in serum cholesterol ≥50 mg/dL from baseline and to a value ≥261 mg/dL, or 2) an average 5.3% of veniafaxine-treated patients and 0.0% of placebo-treated patients *[see Warnings and Precautions (5.14)]*. Serum Triolverides Serum Triglycerides prochloride 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 to 705 patients in Phase 3 major depressive disorder studies and venlafaxine hydrochloride immediate-release tablets were administered to 96 patients.

elease tablets were administered to 96 patients.

release tablets were administered to 50 patients. During its premarketing assessment, multiple doses of venlafaxine hydrochloride extended-release capsules were also administered to 3,514 patients in other Phase 3 studies. In addition, in premarketing assessment of venlafaxine hydrochloride immediate-release tablets, multiple doses were administered to 2,897 patients in Phase 2 to Phase 3 studies for major depressive disorder. The conditions Were administered to 2,897 patients in Phase 2 to Phase 3 studies for major depressive disorder. The conditions and duration of exposure to ventafaxine in both development programs varied greatly, and included (in overlapping categories) open and double-blind studies, uncontrolled and controlled studies, inpatient (ventafaxine 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 7,212 patients exposed to multiple doses of either formulation. All 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 ventafaxine, they were not necessarily caused by it. Reactions are fulled and as those occurring on ne or more occasions in at least 1/100 patients; Infrequent thar 1/1,000 patients.

ccurring in fewer than 1/1,000 patients. ody as a whole - **Frequent:** chest pain substernal, chills, fever, neck pain; **Infrequent:** face edema, intentiona 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,

hypotension, 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), muccoutaneous hemorrhage, myocardial infarct, pallor, sinus arrhythmia, thrombophlebitis.

stive system - Frequent: increased appetite; Infrequent: bruxism, colitis, dysphagia, tongue edema, eructation, esophagitis, gastritis, gastroenteritis, gastrointestinal ulcer, gingivitis, glossitis, rectal hemorrhage, hemorrhoids, melena, oral moniliasis, stomatitis, mouth ulceration; Rare: abdominal distension, biliary pain, cheilitis, cholecystitis, olelithiasis, esophageal spasms, duodenitis, hematemesis, gastroesophageal reflux disease, gastrointestina morrhage, gum hemorrhage, hepatitis, ileitis, jaundice, intestinal obstruction, liver tenderness, parotitis, periodontitis roctitis, salivary gland enlargement, increased salivation, soft stools, tongue discoloration. ndocrine system - **Rare:** galactorrhoea, goiter, hyperthyroidism, hypothyroidism, thyroid nodule, thyroiditis.

Hemic and lymphatic system - Frequent: ecchy mosis: Infrequent: anemia, leukocytosis, leukopenia, lymphad mia; Rare: basophilia, bleeding time increased, cyanosis, eosinophilia, lymphocytosis, multipl veloma, purpura, thro cvtopenia.

thrombocythemia; **Hare**: basophilla, bleeding time increased, cyanosis, eosinophilia, lymphocytosis, multiple myeloma, purpura, thrombocytopenia. Metabolic and nutritional - **Frequent**: edema, weight gain; **Infrequent**: alkaline phosphatase increased, dehydration, hypercholesteremia, hyperglycemia, hypertpildemia, hypokalemia, SGOT (AST) increased, GSPT (ALT) increased, thirtist, **Bare**: alcohol intolerance, bilirubinemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcinuria, hypoproteinemia, hypopratemia, hypoproteinemia, uremia. Musculoskeletal system - **Infrequent**: arthritis, arthrosis, bone spurs, bursitis, leg cramps, myasthenia, tenosynovitis; **Rare**: pathological fracture, muscle cramp, muscle spasms, musculoskeletal sitifness, myopathy, osteoporosis, osteosclerosis, plantar fascitiis, rheumatoid arthritis, tendor nutputre. Nervous system - **Frequent**: amnesia, corfusion, depersonalization, hypesthesia, trismus, vertigo; **Infrequent**: akathisia, apathy, ataxia, circumoral paresthesia, incordination, libido increased, maic reaction, myoclonus, neuralgia, neuropathy, psychosis, seizure, stupor, suicidal ideation; **Rare**: akinesia, alcohol abuse, aphasia, bradykinesia, hyporkois, seizure, stupor, suicidal ideation; **Rare**: Syndrome, homicidal ideation, hyperchorhydria, hypokasi, spychotic depression, reflexes decreased, reflexes increased, functiola ideation, hyperchorhydria, hypokniesia, hypestine a, myteression, reflexes decreased, reflexes increased, torciouse. Respuestion, peristaxis, hyperchorid, increased, reflexes increased, torticollis. Respiratory system - **Frequent**: cough increased, reflexes increased, torticollis. Respiratory system - **Frequent**: cough increased, reflexes increased, torticollis. Respiratory system - **Frequent**: cough increased, reflexes increased, torticollis. Respiratory system - **Frequent**: cough increased, reflexes increased, torticollis. Respiratory system - **Frequent**: cough increased, reflexes increas

hyperventiliation, laryngismus, laryngitis, pneumonia, **Rare:** alectasis, hemoptysis, hypoventilation, hypoxia, larynx edema, pleurisy, pulmonary embolus, sleep apnea. Skin and appendages - **Frequent**: puritus; **Infrequent**: acne, alopecia, contact dermatitis, dry skin, eczema, maculopapular rash, psoriasis, urticaria, **Rare**: britle nails, erythema nodosum, extoliative dermatitis, lichenoid dermatitis, furunculosis, hirsuitism, 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, photophobia, taste loss; **Rare**: blepharitis, cataract, chromatopsia, conjunctival edema, corneal lesion, deafness, exophthalmos, eye hemorrhage, angle-closure glaucoma, retinal hemorrhage, subconjunctival hemorrhage, hyperacusis, keratitis, labyrinthits, miosis, papilledema, decreased pupillary reflex, otitis externa, scleritis, uveitis, visual field defect. Urogenital system - **Frequent**: albuminuria, urination impaired; **Infrequent**: amenorrhae, "cystitis, dysuria, hematuria, kidney calculus, kidney pain, leukorthea," menorrhagia, "metrorrhagia," nocturia, breast pain, polyuria, prostatic disorder (prostatitis, enlarged prostate; and prostate irritability)," urinary incontinence, urinary retention, urinary urgency, vaginal hemorrhage, terma scleritis, suterine hemorrhage, breast enlargegement, balamitis, breast enlargegment, endometriosis, "female lactation," fibrocystic breast, calcium crystalluria, cervicitis, "orchitis, ovarian cyst," bladder pain, prolonged erection," gynecomastia (male)," hypomenorhea," mastitis, menopause," "Based on the number of men and women as appropriate. **6.2 Post-Marketing Experience**

[•] 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 estimate their frequency or establish a causal relationship to drug exposure. These reports include the following reactions: agranulocytosis, anaphylaxis, anosmia, 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 e niderman lenerolvisi/Stevens-Johnso Syndrome, exrythema multiforme, extraovramidal torsade de pointes; toxic epidermal necrolysis/Stevens-Johnson Syndrome, erythema multiforme, extrayramidal symptoms (including dyskinesia and tardive dyskinesia), angle-closure glaucoma, hemorrhage (including eye and gastrointestinal bleeding), hyposmia, hepatic reactions (including GGT elevation; abnormalities of unspecified liver function tests; liver damage, necrosis, or failure; and fatty liver), interstitial lung disease, involuntary movements, LDH increased, neuroleptic malignant syndrome-like reactions (including a case of a 10-year-old who may have heart tortige methodenegities and the supercent of the supercent o been taking methylphenidate, was treated and recovered), neutropenia, night sweats, pancreatitis, pancytopenia panic, prolactin increased, renal failure, rhabdomyolysis, serotonin syndrome, shock-like electrical sensations of initus (in some cases, subsequent to the discontinuation of venlafaxine or tapering of dose), and syndrome o tic hormone secretion (usually in the elderly) DRUG INTERACTIONS

1 Alcoho single dose of ethanol (0.5 g/kg) had no effect on the pharmacokinetics of venlafaxine or O-desmethylvenlafaxine (ODV) when venlafaxine was admin istered at 150 mg/day in 15 healthy male subjects. Additionally, admi of venlafaxine in a stable regimen did not exaggerate the psychomotor and psychometric effects induced by ethanol n these same subjects when they were not receiving venlafaxine.

nitant administration of cimetidine and venlafaxine in a steady-state study for both drugs resulted in inhibitio Concomitant administration of cimetidine and venlafaxine in a steady-state study for both drugs resulted in inhibition of first-pass metabolism of venlafaxine in 18 healthy subjects. The oral clearance of venlafaxine was reduced by about 43%, and the exposure (AUC) and maximum concentration (C_{max}) of the drug were increased by about 60%. However, coadministration of cimetidine had no apparent effect on the pharmacological activity of venlafaxine plus ODV is expected to increase only slightly, and no dosage adjustment should be necessary for most normal adults. However, for patients with pre-existing hypertension, and for elderly patients or patients with hepatic dysfunction, the interaction associated with the concomitant use of venlafaxine and cimetidine is not known and potentially could be more pronounced. Therefore, caution is advised with such patients. 7.3 Diazepam

Under steady-state conditions for venlafaxine administered at 150 mg/day, a single 10 mg dose of diazepam did not appear to affect the pharmacokinetics of either venlafaxine or ODV in 18 healthy male subjects. Venlafaxine also did not have any effect on the pharmacokinetics of diazepam or its active metabolite, desmethyldiazepam, or affect the psychomotor and psychometric effects induced by diazepam. 7.4 Haloperidol

afaxine administered under steady-state conditions at 150 mg/day in 24 healthy subjects decreased total oraldose clearance (CI/F) of a single 2 mg dose of haloperidol by 42%, which resulted in a 70% increase in haloperido AUC. In addition, the haloperidol C_{max} increased 88% when coadministered with venlataxine, but the haloperidol elimination half-life (t%) was unchanged. The mechanism explaining this finding is unknown. 7.5 Lithium

The steady-state pharmacokinetics of venlafaxine administered at 150 mg/day were not affected when a single 600 mg oral dose of lithium was administered to 12 healthy male subjects. ODV also was unaffected. Venlafaxine had no effect on the pharmacokinetics of lithium (see also CNS-Active Drugs, below). **7.6 Drugs Highly Bound to Plasma Proteins**

Ab Drugs Highly Bound to Plasma Proteins. Venlafaxine is not highly bound to plasma proteins; therefore, administration of venlafaxine extended-release tablets to a patient taking 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

7.7 Drugs that Inhibit Cytochrome P450 Isoenzymes CYP2D6 Inhibitors: *In vitro* and *in vivo* studies indicate that venlafaxine is metabolized to its active metabolite, ODV, by CYP2D6, the isoenzyme that is responsible for the genetic polymorphism seen in the metabolism of many antidepressants. Therefore, the potential exists for a drug interaction between drugs that inhibit CYP2D6-mediated metabolism of venlafaxine, reducing the metabolism of venlafaxine to ODV, resulting in increased plasma concentrations of venlafaxine and decreased concentrations of the active metabolite. CYP2D6 inhibitors such as quindine would be expected to to this, but the effect would be similar to what is seen in patients who are genetically CYP2D6 provide metabolizers [see Clinical Pharmacology (12.3)]. Therefore, no dosage adjustment is required when venlafaxine is coadministered with a CYP2D6 inhibitor. Ketoconazole: A bharmacokinetic study with ketoconazole 100 me b i.d. with a single dose of inselfativity. To exist.

coadministered with a CYP2D6 inhibitor. Ketoconazole: A pharmacokinetic study with ketoconazole 100 mg b.i.d. with a single dose of venlafaxine 50 mg in extensive metabolizers (EM; n=14) and 25 mg in poor metabolizers (PM; n=6) of CYP2D6 resulted in higher plasma concentrations of both venlafaxine and O-desmethylvenlafaxine (ODV) in most subjects following administration of ketoconazole. Venlafaxine Cmax increased by 26% in EM subjects and 48% in PM subjects. Cmax values for ODV increased by 14% and 29% in EM and PM subjects, respectively. Venlafaxine AUC increased by 21% in EM subjects, and 70% in PM subjects (range in PMs -2% to 206%), and AUC

values for ODV increased by 23% and 33% in EM and PM (range in PMs -38% to 105%) subjects, respectively. Combined AUCs of venlafaxine and ODV increased on average by approximately 23% in EMs and 53% in PMs, (range in PMs 4% to 134%).

tant use of CYP3A4 inhibitors and venlafaxine may increase levels of venlafaxine and ODV. Therefore,

caution is advised if a patient's therapy includes a CYP3A4 inhibitor and venlafaxine concomitantly. 78 Drugs Metabolized by Cytochrome P450 Isoenzymes

tudies indicate that venlafaxine is a relatively weak inhibitor of CYP2D6. These findings have been in a clinical drug interaction study comparing the effect of venlafaxine with that of fluoxetine on the CYP2D6-mediated metabolism of dextromethorphan to dextrorphan. Imipramine - venlafaxine did not affect the pharmacokinetics of imipramine and 2-OH-imipramine. However,

desipramine AUC, Cmax, and Cmin increased by about 35% in the presence of venlafaxine. The 2-OH-desipramin AUCs increased by at least 2.5 fold (with venlafaxine 37.5 mg q12h) and by 4.5 fold (with venlafaxine 75 mg q12h) Impramine did not affect the pharmacokinetics of venlafaxine and ODV. The clinical significance of elevated 2-OH esipramine levels is unknown. esiprannine levels is unknown. letoprolol - Concomitant administration of venlafaxine (50 mg every 8 hours for 5 days) and metoprolol (100 mg every

24 hours for 5 days) to 18 healthy male subjects in a pharmacokinetic interaction study for both drugs resulted in an increase of plasma concentrations of metoprolol by approximately 30-40% without altering the plasma concentrations of its active metabolite, -hydroxymetoprolol. Metoprolol did not alter the pharmacokinetic profile of venlafaxine or its active metabolite, 0-desmethylvenlafaxine. enlafaxine appeared to reduce the blood pressure lowering effect of metoprolol in this study. The clinical relevance

of this finding for hypertensive patients is unknown. Caution should be exercised with co-administration of venlafaxir and metop Venlafaxine treatment has been associated with dose-related increases in blood pressure in some patients. It is

Veniarakine treatment has been associated with dose-related increases in blood pressure in some patients. It is recommended that patients receiving veniafaxine extended-release tablets have regular monitoring of blood pressure [see Warnings and Precautions (5.3)]. Risperidone - veniafaxine administered under steady-state conditions at 150 mg/day slightly inhibited the CYP2D6-mediated metabolism of risperidone (administered as a single 1 mg oral dose) to its active metabolite, 9-hydroxyrisperidone, resulting in an approximate 32% increase in risperidone AUC. However, veniafaxine coadministration did not significantly after the pharmacokinetic profile of the total active moiety (risperidone plus 9-hydroxyrisperidone). CYP3A4

A axine did not inhibit CYP3A4 *in vitro.* This finding was confirmed *in vivo* by clinical drug interaction studies ir venlafaxine did not inhibit the metabolism of several CYP3A4 substrates, including alprazolam, diazepam

and terfenadine. Indinavir - In a studv of 9 healthy volunteers, venlafaxine administered under steady-state conditions at 150 mg/da resulted in a 28% decrease in the AUC of a single 800 mg oral dose of indinavir and a 36% decrease in indinavir Cma Indinavir did not affect the pharmacokinetics of venlafaxine and ODV. The clinical significance of this finding is unknown CYP1A2

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

Venlafaxine 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-tolbutamide YP2C19 afaxine did not inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam above).

7.9 Monoamine Oxidase Inhibitors (MAOIs) Dosage and Administration (2.6 and 2.7), Contraindications (4.1), and Warnings and Precautions (5.2).]

[See Dosage and Administration (2.6 and 2.7), Contrainfuications (4.7), and trainings and receasions (5.2), 7.10 Other Serotonergic Drugs The concomitant use of serotonergic drugs (including other SNRIs, SSRIs, triptans, tricyclic antidepressants, opioids, lithium, buspirone, amphetamines, tryptophan, and St. John's Wort) with venafaxine extended-release tablets increases the risk of serotonin syndrome. Monitor patients for signs and symptoms of serotonin syndrome, particularly during treatment initiation and dosage increases. If serotonin syndrome occurs, consider discontinuation of venlafaxine extended-release tablets and/or concomitant serotonergic drugs [see Warrings and Precautions (5.2)] 7.11 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, and Warfarin) Serotonin release by nlatelets plays an important role in hemostasis. Epidemiological studies of the case-control and

7.11 Drugs that interfere with Hemostasis (e.g., NSAIDs, Aspirin, and Warrarin) 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 psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding. These studies have also shown that concurrent use of an NSAID or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs and SNRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when venlafaxine extended-release tablets are initiated or discontinued [see Warnings and Percautions (5.13)] Warnings and Precautions (5.13)]. 7.12 Electroconvulsive Therapy

here are no clinical data establishing the benefit of electroconvulsive therapy combined with venlafaxine extended ase tablets treatment.

7.13 Postmarketing Spontaneous Drug Interaction Reports There 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 ng warfarin therapy

False-positive urine immunoassay screening tests for phencyclidine (PCP) and amphetamine have been reported in patients taking venlafaxine. This is due to lack of specificity of the screening tests. False positive test results may be expected for several days following discontinuation of venlafaxine therapy. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish venlafaxine from PCP and amphetamine. 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy Based on data from published observational studies, exposure to SNRIs, particularly in the month before delivery, has been associated with a less than 2-fold increase in the risk of postpartum hemorrhage [see Warnings and Precautions (5.13) and Clinical Considerations].

eratogenic Effects enalgenie and the 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 decreas in pup weight, an increase in stillborn pups, and an increase in pup deaths during the first 5 days of lactation, wher dosing began during pregnancy and continued until weaning. The cause of these deaths is not known. These effects occurred at 2.5 times (mg/m²) the maximum human daily dose. The no effect dose for rat pup mortality was 0.25 mes the human dose on a mg/m² basis. There are no adequate and well-cont lled studies in prear 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

Non-Teratogenic Effects Neonates exposed to venlafaxine hydrochloride extended-release capsules, other SNRIs (Serotonin and Norepinephrine Reuptake Inhibitors), or SSRIs (Selective Serotonin Reuptake Inhibitors), late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hyperfetika, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome *[see Warnings and Precautions [5:2]*. When treating a pregnant woman with vendataxine extended-release tablets during the third trimester the physician should carefully consider voman with venlafaxine extended-release tablets during the third trimester, the physician should carefully conside the potential risks and benefits of treatment. Maternal Adverse Reactions

Exposure to venlafaxine extended-release tablets in mid to late pregnancy may increase the risk of preeclampsia, and posure to venlafaxine extended-release tablets in the month before delivery may be associated with an increased k of postpartum hemorrhage [see Warnings and Precautions (5.13)]. 8.2 Labor and Delivery

nlafaxine on labor and delivery in humans is unknown 8.3 Nursing Mothers

afaxine and ODV have been reported to be excreted in human milk. Because of the potential for serious resereactions in nursing infants from ventatavine extended release to blate a device the test that the second s is in nursing infants from venlafaxine extended-release tablets, a decision should be made whe irsing or to discontinue the drug, taking into account the importance of the drug to the mother

8.4 Pediatric Use Safety and effectiveness in the pediatric population have not been established (see BOXED WARNING and Warnings and Precautions (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 to 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 reterior idition with the dising need in the data were not sufficient to support a claim for use in pediatric patients.

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 uggest that venlafaxine 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 ex Precations (5.7, 5.8, and 5.9). Should the decision be made to treat a peolatic patient with vehiataxine extended-release tablets, regular monitoring of weight and height is recommended during treatment, particularly if it is to be continued long term. The safety of venlafaxine extended-release tablets 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 Lee

Approximately 4% (14/357) and 2% (6/277) of patients treated with venlafaxine hydrochloride extended-releas 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 venlafaxine hydrochloride immediate-release tablets in

remarketing phase major depressive disorder studies, 12% (357) were 65 years of age or over. No overall difference in effectiveness or safety were observed between geriatric patients and younger patients, and other reported clinical experience generally has not identified differences in response between the elderly and younger patients. However, greater sensitivity of some older individuals cannot be ruled out. SSRIs and SNRIs, including venlafaxine hydrochloride greant straining or some store international scaling to these sets our software in the international regions into the strained set and the set and the straining termitation of regions in the set and the set and

(12.3)] No dose adjustment is recommended for the elderly on the basis of age alone, although other clinical circumstances, some of which may be more common in the elderly, such as renal or hepatic impairment, may warrant

circumstances, some of which 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 elpatic Impairment In patients with circhosis 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)]. A lower dose and individualization of dosing may be necessary [see Dosage and Administration (2.3)]. Venlafaxine extended-release 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)].

vere decreased, thus prolonging the elimination half-lives of these substances [see Clinical Pharmacology (12.3)]. t is recommended that the total daily dose 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 or 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)]. Venlafaxine extended-release tablets, like nent of major depressive disorder, should be used with caution in such patients 9 DRUG ABUSE AND DEPENDENCE 9 1 Controlled Substance

axine extended-release tablets (venlafaxine hydrochloride) are not a controlled substance. 9.2 Abuse

While venlafaxine has not been systematically studied in clinical trials for its potential for abuse, there was no indication of drug-seeking behavior in the clinical trials. However, it is not possible to predict on the basis of

premarketing 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 venlafaxine (e.g., development of tolerance, incrementations of dose, drug-seeking behavior).

9.3 Dependence 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. Discontinuation effects have been reported in patients receiving venlafaxine [see Dosage and Administration (2.4) and Warnings and Precautions (5.5)]. 10 OVERDÖSAGE

10.1 Human Experience

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 venlafaxine 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 effects. 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 Anvite Ubisorder trials.

mong the patients included in the premarketing evaluation with venlafaxine hydrochloride immediate-r there were 14 reports of acute overdose with venlafaxine, either alone or in combination with other drugs and/o alcohol. The majority of the reports involved ingestion in which the total dose of venlafaxine 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 mated to have ingested approximately 6.75 g, 2.75 g, and 2.5 g. The resultant peak plasma levels of venlafaxine fo the latter 2 patients were 6.24 and 2.35 µg/mL, respectively, and the peak plasma levels of O-desmethylvenlafaxine were 3.37 and 1.30 µg/mL, respectively. Plasma venlafaxine levels were not obtained for the patient who ingested

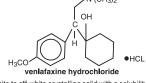
were 3.37 and 1.30 µg/mL, respectively. Plasma venlafaxine levels were not obtained for the patient who ingested 6.75 g of venlafaxine. All 14 patients recovered without sequelae. Nost patients reported no symptoms. Among the remaining patients, somolence was the most commonly reported symptom. The patient who ingested 2.75 g of venlafaxine was observed to have 2 generalized convulsions and a prolongation of QT to 500 msec, compared with 405 msec at baseline. Mild sinus tactive are ported 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 commolere 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 tricyclic antidepressants. Epidemiological studies have shown that venlafaxine-treated patients have a higher pre-existing burden of suicide risk factors than SSRI Intreated patients. The extent to which the finding of an increased risk of tatal outcomes compared to that boxing to venlafaxine in overdosage as opposed to some characteristic(s)

fatal outcomes can be attributed to the toxicity of venlafaxine in overdosage as opposed to some characteristic(s) of venlafaxine-treated patients is not clear. Prescriptions for venlafaxine extended-release tablets should be written or the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose 10.2 Management of Overdosage

10.2 management of Overoosage 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 large bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon afte gestion or in symptomatic patients.

Ingestion or in symptomatic patients. Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for venlafaxine are known. 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*). DESCRIPTION

lafaxine extended-release tablets (venlafaxine hydrochloride) are extended-release tablets for oral adn 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 (\pm)-1-(α - [(dimethylamino)methyl]-p-methoxybenzyl] cyclohexanol hydrochloride and has the empirical formula of $C_7H_{27}NO_2$ HCl. Its molecular weight is 313.87. The structural formula is shown below. N (CH₃)₂



Venlafaxine hydrochloride is a white to off-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 nlafaxine extended-release tablets are formulated as extended-release tablet for once-a-day oral adminis nlafaxine extended-release tablets use matrix core and extended release coating to deliver venlafaxine hydroc at a controlled rate over approximately 24 hours. The unitary tablet core is composed of the drug and excipient

at a controlled rate over approximately 24 hours. The unitary tablet core is composed of the drug and excipients (including the matrix forming components). In an aqueous environment, such as the gastrointestinal tract, water permeates slowly through the coating into the tablet core, causing the hydrophilic matrix polymer to expand and to form a gel layer on the surface of the tablet. This gel acts as a barrier to the drug release; the drug is dissolved and is released by slow diffusion and erosion of the gel. The extended release coating layer controls the rate at which water permeates into the tablet core, which in turn controls also the rate of drug delivery. The controlled rate of drug delivery into the gastrointestinal montily. Tablets contain venilation of orgastrointestinal motily. Tablets contain venilativine hydrochloride equivalent to 75 mg venlafaxine. Inactive ingredients consist of dibasic calcium phosphate dihydrate, hypromellose, methacrylic acid copolymer, colloidal silicon dioxide, magnesium stearate, polyvinyl acctate dispersion, talc, polyvinyl slactoh graft polyethylene glycol copolymer, povidone, triethyl citrate, macrogol stearyl ether, sodium lauryl sulfate, carnauba wax, titanium dioxide, propylene glycol and FD&C blue #1. 12 CLINCAL PHARMACOLOGY 12.1 Mechanism of Action

12.1 Mechanism of Action

he 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-desmethylvenlafaxine (ODV), are potent inhibitors of neuronal serotonin and norepinephrine reuptake and weak itors of dopamine reuptake 12.2 Pharmacodyn

vine and its active metabolite. O-desmethylvenlafaxine (ODV) have no significant affinity for muscarinic Continuer in the second metabolitie, Considering the second secon

2.3 Pharmacokinetics beady-state concentrations of venlafaxine and O-desmethylvenlafaxine (ODV) in plasma are attained within 3 days of oral multiple dose therapy. Venlafaxine and ODV exhibited linear kinetics over the dose range of 75 to 450 mg day. The mean ± SD apparent elimination half-life for venlafaxine and ODV after administration of 75 mg venlafa extended release tablets under fed conditions were 10.7±3.2 hours and 12.5±3.0 hours respectively. Venlafa and ODV are minimally bound at therapeutic concentrations to plasma proteins (27% and 30%, respectively) protion and Distribution and associated 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 venlafaxine is absorbed. The absolute bioavailability of venlafaxine is about 45%. Administration of 75 mg venlafaxine extended-release tablets under fed conditions resulted in mean ± SD venlafaxine Cmax of 26.9 ± 13.4 ng/mL and AUC of 1,536.3 ± 496.8 ng-hr/mL. Tma was 6.3 ± 2.3 hours. ODV mean ± SD Cmax, AUC, Tmax after administration of 75 mg venlafaxine extended-release was 6.3 \pm 2.3 hours. ODV mean \pm SD C_{max}, AUC, T_{max} after administration of 75 mg venlafaxine extended-release tablets under fed conditions were 97.9 \pm 29.4 ng/mL, 2,926.0 \pm 746.1 ng-hr/mL, and 11.6 \pm 2.9 hours, respectively. Administration of venlafaxine hydrocholroide extended-release capsules (150 mg q24 hours) generally resulted in lower C_{max} (150 ng/mL for venlafaxine and 260 ng/mL for ODV) and later T_{max} (5.5 hours for venlafaxine and 9 hours for ODV) than for immediate release venlafaxine tablets (C_{max} 5 for immediate release 75 mg q12 hours were 225 ng/mL for venlafaxine and 290 ng/mL for ODV; T_{max}'s were 2 hours for venlafaxine and 3 hours for ODV). When equal daily doses of venlafaxine were administered as either an immediate release tablet or the extended-release form of venlafaxine, the exposure to both venlafaxine and ODV would be similar for the two treatments. Venlafaxine extended-release tablets would, therefore, provide a slower rate of absorption, but the same extent of absorption compared with the immediate release tablet ompared with the immediate release tablet. ood did not affect the pharmacokinetic parameters AUC, Cmax, and Tmax of venlafaxine or its active metabolite, ODV

after administration of venlafaxine extended-release tablets. Time of administration (AM vs PM) would not affect the pharmacokinetics of venlafaxine and ODV. Equal doses of venlafaxine hydrochloride extended-release tablets are ioequivalent 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 the formation of ODV is catalyzed by CYP2D6; this has been confirmed in a clinical study showing that patients with low CYP2D6 levels ("poor metabolizers") had increased levels of venlafaxine and reduced levels of ODV compared to people with normal CYP2D6 ("estensive metabolizers"). The differences between the CYP2D6 poor and extensive metabolizers, however, are not expected to be clinically important because the sum of ventation and the compared to compare the sum of ventations and extensive metabolizers. to people with normal CYP2D6 (extensive metabolizers). In editterences between the CYP2D6 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 (28%), 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 involv 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 Administration (2)]. Extensive/Poor Metabolizers: Plasma concentrations of venlafaxine were higher in CYP2D6 poor metabolizers than

xtensive 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 altered after oral administration of venlafaxine. Venlafaxine elimination half-life was prolor by about 30%, and clearance decreased by about 50% in cirrhotic subjects compared to normal subjects. ODV 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 variability 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-Pugh B (n = 11) subjects (mild) 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, veniafaxine 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 180% and clearance 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 57% compared to normal subjects. A large derree of intersubject variability was noted. Dosage educed by about 56% compared to normal subjects. A large degree of intersubject variability was noted. Dosage adjustment is necessary in these patients [see Dosage and Administration (2.3) and Use in Specific Populations (8.7)]. IS NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

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

agenesis afaxine and the major human metabolite, O-desmethylvenlafaxine (ODV), were not mutagenic in the Ames reverse windatakie all windowindowie and the second mpairment of Fertility oduction and fertility studies in rats showed no effects on male or female fertility at oral doses of up to 2 times

ended human dose on a mɑ/m² basis 14 CLINICAL STUDIES

14 CLinicAL STORES The efficacy of venlafaxine hydrochloride extended-release capsules as a treatment for major depressive disorder was established in two placebo-controlled, short-term, flexible-dose studies in adult outpatients meeting DSM-III-R

was established 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 hydrochloride extended-release capsules doses in a range 75 to 125 mg/day (mean dose for completers was 177 mg/day) both demonstrated superiority of venlafaxine hydrochloride extended-release capsules over placebo on the HAM-D total score, HAM-D Depressed Mood Item, the MADRS total score, the Clinical Global Impressions (CGI) Severity of Illness item, and the CGI Global Improvement item. In both studies, venlafaxine hydrochloride extended-release capsules over elaso significantly better than placebo for certain factors of the HAM-D, including the anxiety/somatization factor, the conditive disturbance factor, and the retardation factor as well as for the psychic anxiety score.

cognitive disturbance factor, and the retardation factor, as well as for the psychic anxiety score. 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 (1.i.d. schedule) demonstrated superiority of venlafaxine hydrochloride immediate-release tablets over placebo. The mean dose in completers was 350 mg/day was soo injudy. Examination of gender subsets of the population studied did not reveal any differential responsiveness on the

pasis of gende er-term study, adult outpatients meeting DSM-IV criteria for major depressive disorder who had responded In one longer-term study, adult outpatients meeting USM-IV criteria for major depressive disorder who had responded during an 8-week open trial on 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 at the day 56 evaluation. Relapse during the double-blind phase was defined as follows: (1) a reappearance of major depressive disorder as defined by DSM-IV criteria and a CGI Severity of Illness item score of ≥ 4 (moderately ill), (2) 2 consecutive CGI Severity 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 receiving continued venlarkine hydrochloride extended-release capsules terment experienced significantly lower

receiving continued venlafaxine 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 s 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 >10, 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 lacebo. The follow-up period to observe patients for relapse, defined as a CGI Severity of Illness item score ≥4, was or up to 52 weeks. Patients receiving continued treatment with venlafaxine hydrochloride immediate-release tablets ed significantly lower relapse rates over the subsequent 52 weeks compared with those receiving placebo 14.2 Social Anxiety Disorder (Social Phobia)

Experienced significantly lower lengtse relates to the subsequent 22 weeks compared with those receiving pracedo.
14.2 Social Anxiety Disorder (Social Phobia)
The efficacy of ventafaxine hydrochloride extended-release capsules as a treatment for Social Anxiety Disorder (Social Phobia)
Calso known as Social Phobia) was established in two double-bind, 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 Social (SAS). In these two trials, ventafaxine hydrochloride extended-release 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 75 mg are white to off-white mottled round coated tablets imprinted in blue

with "75" on one side. They are supplied as follows: Unit of Use Bottles of 30 Tablets NDC 42799-961-01

Unit of Use Bottles of 90 Tablets NDC 42799-961-02 Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature].

7 PATIENT COUNSELING INFORMATION

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide). Prescribers or other health 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 venlafaxine extended-release tablets. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide is reorinted at the end of this document. le 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

17.1 Clinical Worsening and Suicide Risk

17.1 Clinical worsening and Succee Hisk Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, paric attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and succidal ideation, especially arly during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patient 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 prescriber or health professional, especially if they are severe, with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly benerging the approximation of the advisor of the patient's prescriber of the second of the patient of the patient of the patient of the second of the second of the patient s in the medication

erence with Cognitive and Motor Performance

17.2 Interference with Cognitive and Motor Performance 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, cognitive, or 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 to engage in such activities. 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, including herbal preparations and nutritional supplements, since there is a potential for interactions. Patients should be cautioned about the risk of serotonin syndrome with the concomitant use of venlafaxine extended-release tablets and triptans, tricyclic antidepressants, opioids, lithium, amphetamines, tryptophan, buspirone, and St. John's Wort supplements or other serotonergic agents [see Warnings and Precautions (5.2) and Drug Interactions Patients should be cautioned about the concomitant use of venlafaxine extended-release tablets and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation since combined use of psychotropic drugs that interfere with nin reuptake and these agents has been associated with an increased risk of bleeding [see Warnings and utions (5.13) and Drug Interactions (7.11)]. 17.4 Alcoho

enlafaxine has not been shown to increase the impairment of mental and motor skills caused by alcohol, patients should be advised to avoid alcohol while taking venlafaxine. **17.5 Allergic Reactions**

Patients should be advised to notify their physician if they develop a rash, hives, or a related allergic phenomenon. **17.6 Pregnancy** Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during

treatment with venlafaxine extended-release tablets. Advise patients that venlafaxine extended-release tablets use during mid to late pregnancy may lead to an increased risk for preeclampsia and may increase the risk for neonatal complications requiring prolonged hospitalization, respiratory support, and tube feeding. Advise patients has the free ding. Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to venlafaxine extended-release tablets during pregnancy [see Use in Specific Populations (8.1)]. 17.7 Nursing

uld be advised to notify their physician if they are breast-feeding an infant. 17.8 Angle Closure Glaucoma

17.8 Angle Closure Glaucoma
 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 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)].

 17.9 Sexual Dysfunction

17.9 Sexual Uystunction 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: Dexcel Pharma Technologies Ltd.

10 Hakidma St., Yokneam 2069200, Israel

Distributed by: Edenbridge Pharmaceuticals, LLC.

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