#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use VIIBRYD $^{\rm M}$  safely and effectively. See full prescribing information for VIIBRYD.

VIIBRYD (vilazodone HCl) Tablets for oral administration Initial U.S. Approval: 2011

### WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

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 (5.1).

VIIBRYD is not approved for use in pediatric patients (8.4).

#### INDICATIONS AND USAGE

VIIBRYD is indicated for the treatment of major depressive disorder (MDD). The efficacy of VIIBRYD was established in two 8-week, placebo-controlled trials in adult patients with MDD (1, 14).

### - DOSAGE AND ADMINISTRATION

- The recommended dose for VIIBRYD is 40 mg once daily (2.1).
- VIIBRYD should be titrated to the 40 mg dose, starting with an initial
  dose of 10 mg once daily for 7 days, followed by 20 mg once daily for an
  additional 7 days, and then increased to 40 mg once daily (2.1).
- VIIBRYD should be taken with food. Administration without food can result in inadequate drug concentrations and may diminish effectiveness (2.1, 12.3).
- When discontinuing treatment, reduce the dose gradually (2.4).

#### — DOSAGE FORMS AND STRENGTHS

VIIBRYD is available as 10 mg, 20 mg and 40 mg tablets (3).

#### --- CONTRAINDICATIONS -

 Monoamine Oxidase Inhibitors: Do not use VIIBRYD concomitantly with an MAOI or within 14 days of stopping or starting an MAOI (4.1).

#### - WARNINGS AND PRECAUTIONS-

Clinical Worsening/Suicide Risk: Monitor patients for clinical worsening and suicidal thinking or behavior (5.1).

**Serotonin Syndrome or Neuroleptic Malignant (NMS)-like Syndrome:** Can occur with treatment. Discontinue and initiate supportive treatment (5.2). **Seizures:** Can occur with treatment. Use with caution in patients with a seizure disorder (5.3).

**Abnormal Bleeding:** Treatment can increase the risk of bleeding. Use with caution in association with nonsteroidal anti-inflammatory drugs (NSAIDs), aspirin, or other drugs that affect coagulation (5.4).

**Activation of Mania/Hypomania:** Can occur with treatment. Screen patients for bipolar disorder (5.5).

**Discontinuation of Treatment with VIIBRYD**: A gradual reduction in dose is recommended rather than an abrupt cessation (5.6).

**Hyponatremia:** Can occur in association with the syndrome of inappropriate antidiuretic hormone secretion (SIADH) (5.7).

#### -ADVERSE REACTIONS-

The most common adverse reactions (incidence  $\geq$  5% and at least twice the rate of placebo) are: diarrhea, nausea, vomiting, and insomnia (6).

To report SUSPECTED ADVERSE REACTIONS, contact Forest Laboratories, Inc. at 1-800-678-1605 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### -DRUG INTERACTIONS-

**MAOIs:** Do not use VIIBRYD concomitantly with an MAOI or within 14 days of stopping or starting an MAOI (4.1, 7.1).

**CYP3A4 inhibitors:** The VIIBRYD dose should be reduced to 20 mg when co-administered with CYP3A4 strong inhibitors (7.3).

**CYP3A4 inducers**: Concomitant use of VIIBRYD with inducers of CYP3A4 can result in inadequate drug concentrations and may diminish effectiveness. The effect of CYP3A4 inducers on systemic exposure of vilazodone has not been evaluated (7.3).

#### USE IN SPECIFIC POPULATIONS

**Pregnancy**: There are no controlled human data regarding VIIBRYD use during pregnancy. Use only if the potential benefits outweigh the potential risks (2.3, 8.1).

**Nursing Mothers:** There are no human data regarding VIIBRYD concentrations in breast milk. Women should breast feed only if the potential benefits outweigh the potential risks (8.3, 2.3).

**Pediatric Use**: The safety and efficacy of VIIBRYD in pediatric patients have not been studied (2.3, 8.4).

**Geriatric Use:** No dose adjustment is recommended on the basis of age (8.5). **Hepatic Impairment:** No dose adjustment is recommended in patients with mild or moderate hepatic impairment. VIIBRYD has not been studied in patients with severe hepatic impairment (2.3, 8.6).

**Renal Impairment**: No dose adjustment is recommended in patients with mild, moderate, or severe renal impairment. (2.3, 8.7).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: April 2011

#### FULL PRESCRIBING INFORMATION: CONTENTS\*

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#### FULL PRESCRIBING INFORMATION

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 VIIBRYD or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Shortterm studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction 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. VIIBRYD is not approved for use in pediatric patients [see Warnings and Precautions (5.1), Use in Specific Populations (8.4), and Patient Counseling Information (17.1)]

### 1 INDICATIONS AND USAGE

VIIBRYD is indicated for the treatment of major depressive disorder (MDD). The efficacy of VIIBRYD was established in two 8-week, randomized, double-blind, placebo-controlled trials in adult patients with a diagnosis of MDD [see Clinical Studies (14)].

Major depressive disorder consists of one or more major depressive episodes. A major depressive episode (DSM-IV-TR) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depressed or dysphoric mood that usually interferes with daily functioning, and includes at least 5 of the following 9 symptoms: depressed mood, loss of interest in usual activities, significant change in weight and/or appetite, insomnia or hypersomnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, or a suicide attempt or suicidal ideation.

# 2 DOSAGE AND ADMINISTRATION

# 2.1 Initial Treatment of Major Depressive Disorder

The recommended dose for VIIBRYD is 40 mg once daily. VIIBRYD should be titrated, starting with an initial dose of 10 mg once daily for 7 days, followed by 20 mg once daily for an additional 7 days, and then an increase to 40 mg once daily. VIIBRYD should be taken with food. VIIBRYD blood concentrations (AUC) in the fasted state can be decreased by approximately 50% compared to the fed state, and may result in diminished effectiveness in some patients [see Clinical Pharmacology (12.3)].

#### 2.2 Maintenance/Continuation/Extended Treatment

The efficacy of VIIBRYD has not been systematically studied beyond 8 weeks. It is generally agreed that acute episodes of major depressive disorder require several months or longer of sustained pharmacologic therapy. Patients should be reassessed periodically to determine the need for maintenance treatment and the appropriate dose for treatment.

#### 2.3 Dosing in Special Populations

*Pregnant Women*: Neonates exposed to serotonergic antidepressants late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. When treating pregnant women with VIIBRYD, consider whether the potential benefits outweigh the potential risks of treatment [see Use in Specific Populations (8.1)].

*Nursing Mothers*: There are no clinical data regarding the effect of VIIBRYD on lactation and nursing [see Use in Specific Populations (8.3)]. Breastfeeding in women treated with VIIBRYD should be considered only if the potential benefit outweighs the potential risk.

Pediatric Patients: The safety and efficacy of VIIBRYD have not been studied in pediatric patients [see Use in Specific Populations (8.4)].

Geriatric Patients: No dose adjustment is recommended on the basis of age [see Use in Specific Populations (8.5)].

Hepatic Impairment: No dose adjustment is recommended in patients with mild or moderate hepatic impairment. VIIBRYD has not been studied in severe hepatic impairment [see Use in Specific Populations (8.6)].

Renal Impairment: No dose adjustment is recommended in patients with mild, moderate, or severe renal impairment [see Use in Specific Populations (8.7)].

Gender: No dose adjustment is recommended on the basis of gender [see Use in Specific Populations (8.8)].

#### 2.4 Discontinuing Treatment

Discontinuation symptoms have been reported with discontinuation of serotonergic drugs such as VIIBRYD. Gradual dose reduction is recommended, instead of abrupt discontinuation, whenever possible. Monitor patients for these symptoms when discontinuing VIIBRYD. If intolerable symptoms occur following a dose decrease or upon discontinuation of treatment, consider resuming the previously prescribed dose and decreasing the dose at a more gradual rate [see Warnings and Precautions (5.6)].

### 2.5 Monoamine Oxidase Inhibitors (MAOI)

At least 14 days must elapse between discontinuation of an MAOI and initiation of therapy with VIIBRYD. In addition, at least 14 days must be allowed after stopping VIIBRYD before starting an MAOI [see Contraindications (4.1) and Drug Interactions (7.1)].

## 3 DOSAGE FORMS AND STRENGTHS

VIIBRYD Tablets are available as 10 mg, 20 mg and 40 mg immediate-release, film-coated tablets.

10 mg pink, oval tablet, debossed with 10 on one side 20 mg orange, oval tablet, debossed with 20 on one side 40 mg blue, oval tablet, debossed with 40 on one side

# 4 CONTRAINDICATIONS

# 4.1 Monoamine Oxidase Inhibitors

VIIBRYD must not be used concomitantly in patients taking MAOIs or in patients who have taken MAOIs within the preceding 14 days due to the risk of serious, sometimes fatal, drug interactions with serotonergic drugs. These interactions have been associated with symptoms that include tremor, myoclonus, diaphoresis, nausea, vomiting, flushing, dizziness, hyperthermia with features resembling neuroleptic malignant syndrome, seizures, rigidity, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. Allow at least 14 days after stopping VIIBRYD before starting an MAOI [see Drug Interactions (7.1)].

### 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

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predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled studies of antidepressant drugs (selective serotonin reuptake inhibitors [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 MDD and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled studies in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term studies of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled studies in adults with MDD or other psychiatric disorders included a total of 295 short-term studies (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1.

Table 1

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

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

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

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

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

Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms [see Warnings and Precautions (5.6) and Dosage and Administration (2.4)].

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 healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for VIIBRYD should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose [see also Patient Counseling Information (17.1)].

# Screening patients for bipolar disorder

A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled studies) that treating such an episode with an antidepressant alone may 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; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that VIIBRYD is not approved for use in treating bipolar depression.

# 5.2 Serotonin Syndrome or Neuroleptic Malignant Syndrome (NMS)-like Reactions

The development of a potentially life-threatening serotonin syndrome or Neuroleptic Malignant Syndrome (NMS)-like reactions has been reported with antidepressants alone, but particularly with concomitant use of serotonergic drugs (including triptans) with drugs that impair metabolism of serotonin (including MAOIs), or with antipsychotics or other dopamine antagonists. Symptoms of serotonin syndrome were noted in 0.1% of patients treated with VIIBRYD. Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g., hyperreflexia, incoordination) and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Serotonin syndrome, in its most severe form can resemble NMS, which includes hyperthermia, muscle rigidity, autonomic instability with possible rapid fluctuation of vital signs, and mental status changes. Patients should be monitored for the emergence of serotonin syndrome or NMS-like signs and symptoms.

The concomitant use of VIIBRYD with MAOIs intended to treat depression is contraindicated [see Contraindications (4.1)].

If concomitant treatment of VIIBRYD with a 5-hydroxytryptamine receptor agonist (triptan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases [see Drug Interactions (7.1)].

The concomitant use of VIIBRYD with serotonin precursors (such as tryptophan) is not recommended [see Drug Interactions (7.1)].

Treatment with VIIBRYD and any concomitant serotonergic (SSRI, serotonin–norepinephrine reuptake inhibitor [SNRI], triptan, buspirone, tramadol, etc.) or antidopaminergic drugs, including antipsychotics, should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.

#### 5.3 Seizures

VIIBRYD has not been systematically evaluated in patients with a seizure disorder. Patients with a history of seizures were excluded from clinical studies. Like other antidepressants, VIIBRYD should be prescribed with caution in patients with a seizure disorder.

#### 5.4 Abnormal Bleeding

The use of drugs that interfere with serotonin reuptake inhibition, including VIIBRYD, 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. Case reports and epidemiological studies (case-control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to SSRIs have ranged from ecchymosis, hematoma, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of VIIBRYD and NSAIDs, aspirin, or other drugs that affect coagulation or bleeding.

#### 5.5 Activation of Mania/Hypomania

Symptoms of mania/hypomania were reported in 0.1% of patients treated with VIIBRYD in clinical studies. Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorder who were treated with other antidepressants. As with all antidepressants, use VIIBRYD cautiously in patients with a history or family history of bipolar disorder, mania, or hypomania.

#### 5.6 Discontinuation of Treatment with VIIBRYD

There have been reports of adverse events occurring upon discontinuation of serotonergic antidepressants, particularly when discontinuation is abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesia, such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, hypomania, tinnitus, and seizures. While these events are generally self-limiting, there have been reports of serious discontinuation symptoms.

Monitor patients for these symptoms when discontinuing VIIBRYD. Reduce the dose gradually whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, consider resuming the previously prescribed dose. Subsequently, the dose may be decreased, but at a more gradual rate [see Dosage and Administration, (2.4)].

## 5.7 Hyponatremia

Although no cases of hyponatremia resulting from VIIBRYD treatment were reported in the clinical studies, hyponatremia has occurred as a result of treatment with SSRIs and SNRIs. In many cases, 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. Also, patients taking diuretics or who are otherwise volume depleted can be at greater risk. Discontinuation of VIIBRYD in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which can lead to falls. Signs and symptoms associated with more severe and/or acute cases have included hallucination, syncope, seizure, coma, respiratory arrest, and death.

#### 6 ADVERSE REACTIONS

#### 6.1 Clinical Studies Experience

The most commonly observed adverse reactions in VIIBRYD-treated MDD patients in placebo-controlled studies (incidence ≥ 5% and at least twice the rate of placebo) were: diarrhea, nausea, vomiting, and insomnia.

#### **Patient Exposure**

The safety of VIIBRYD was evaluated in 2,177 patients (18-70 years of age) diagnosed with MDD who participated in clinical studies, representing 552 patient-years of exposure. In an open-label 52 week study at 40 mg daily, 599 patients were exposed to VIIBRYD for a total of 348 patient-years.

The information presented in these sections was derived from studies of VIIBRYD 40 mg daily in major depressive disorder including: 1) 2 placebo-controlled 8-week studies in 861 patients, including 436 receiving vilazodone; and 2) an open-label 52-week study of 599 patients. These studies included a titration period of 10 mg daily for 7 days followed by 20 mg daily for 7 days. In these clinical trials, VIIBRYD was administered with food.

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

Adverse reactions reported as reasons for discontinuation of treatment In the placebo-controlled studies of MDD there was no single adverse reaction leading to discontinuation in > 1% of the patients. Overall, 7.1% of the patients who received VIIBRYD discontinued treatment due to an adverse reaction, compared with 3.2% of placebo-treated patients in these studies.

#### Common adverse reactions in placebo-controlled MDD studies

Table 2 shows the incidence of common adverse reactions that occurred in ≥ 2% of VIIBRYD-treated MDD patients (and greater than in placebo-treated patients) in the placebo-controlled studies.

Table 2: Common Adverse Reactions Occurring in ≥2% of VIIBRYD-treated Patients and > Placebo-treated Patients

| treated Patients and > Placebo-treated Patien System Organ Class | VIIBRYD   | Placebo  |
|--|-----------|----------|
| Preferred Term   | 40 mg/day | 1 lacebo |
|  | N = 436   | N = 433  |
| Gastrointestinal disorders                                       |           |          |
| Diarrhea   | 28        | 9        |
| Nausea   | 23        | 5        |
| Dry mouth  | 8         | 5        |
| Vomiting   | 5         | 1        |
| Dyspepsia  | 3         | 2        |
| Flatulence   | 3         | 2        |
| Gastroenteritis  | 3         | <1       |
| Nervous system disorders   |           |          |
| Dizziness  | 9         | 5        |
| Somnolence   | 3         | 2        |
| Paresthesia  | 3         | 1        |
| Tremor   | 2         | 0        |
| Psychiatric disorders  |           |          |
| Insomnia   | 6         | 2        |
| Abnormal dreams  | 4         | 1        |
| Libido decreased   | 4         | <1       |
| Restlessness *   | 3         | <1       |
| Orgasm abnormal**  | 3         | 0        |
| General disorders  |           |          |
| Fatigue  | 4         | 3        |
| Feeling jittery  | 2         | <1       |
| Cardiac disorders  |           |          |
| Palpitations   | 2         | <1       |
| Musculoskeletal and connective tissue disorders                  |           |          |
| Arthralgia   | 3         | 2        |
| Reproductive system and breast disorders                         |           |          |
| Delayed ejaculation***   | 2         | 0        |
| Erectile dysfunction***  | 2         | 1        |

| Metabolism and nutrition disorders |   |   |
|------------------------------------|---|---|
| Increased appetite                 | 2 | 1 |

<sup>\*</sup>Includes restlessness, akathisia, and restless legs syndrome

Table 3: Sexual Adverse Reactions: Percentage in the Placebo-Controlled Studies

|                       | Males             |                   | Females          |                  |
|-----------------------|-------------------|-------------------|------------------|------------------|
| Preferred<br>Term     | VIIBRYD<br>N= 170 | Placebo<br>N= 182 | VIIBRYD<br>N=266 | Placebo<br>N=251 |
| Decreased<br>libido   | 5                 | 0                 | 3                | <1               |
| Abnormal orgasm*      | 4                 | 0                 | 2                | 0                |
| Delayed ejaculation   | 2                 | 0                 | -                | -                |
| Erectile dysfunction  | 2                 | 1                 | -                | _                |
| Sexual<br>dysfunction | 2                 | 0                 | <1               | <1               |

<sup>-</sup> Not applicable

#### **Laboratory Tests**

VIIBRYD has not been associated with any clinically important changes in laboratory test parameters in serum chemistry (including liver function tests), hematology and urinalysis, as measured in placebo-controlled studies. These studies include analysis of (1) mean change from baseline and (2) the proportion of patients meeting criteria for potentially clinically significant changes from baseline. Results from a 52-week open-label study were consistent with the findings from the placebo-controlled studies.

#### ECG

VIIBRYD has not been associated with any clinically significant effect on ECG parameters, including QT, QTc, PR and QRS intervals, or with any arrhythmogenic potential. ECGs were evaluated in a thorough QTc study at doses up to 80 mg daily with food and in the placebo-controlled studies [see Clinical Pharmacology (12.2)].

#### **Vital Signs**

VIIBRYD has not been associated with any clinically significant effect on vital signs, including systolic and diastolic blood pressure and heart rate, as measured in placebo-controlled studies. These studies included analyses of (1) change from baseline, and (2) the proportion of patients meeting criteria for potentially clinically significant changes from baseline. Results from a 52-week open-label study were consistent with the findings from the placebo-controlled studies.

# Weight

VIIBRYD had no effect on body weight as measured by the mean change from baseline in the 8-week, placebo-controlled studies. The mean changes in weight were +0.16 kg in the VIIBRYD group and +0.18 kg in the placebo group. The proportions of patients with a weight gain  $\geq 7\%$  were 0.9% in the VIIBRYD group and 1.2% in the placebo group. The proportions of patients with a weight decrease  $\geq 7\%$  were 1.4% in the VIIBRYD group and 1.4% in the placebo group.

### Other adverse reactions observed in clinical studies

The following listing does not include reactions: 1) already listed in previous tables or elsewhere in labeling, 2) for which a drug cause was remote, 3) which were so general as to be uninformative, 4) which were not considered to have significant clinical implications, or 5) which occurred at a rate equal to or less than placebo.

Reactions are categorized by body system according to the following definitions: *frequent* adverse reactions are those occurring in at least 1/100 patients; *infrequent* adverse reactions are those occurring in 1/100 to 1/1000 patients; *rare* reactions are those occurring in fewer than 1/1000 patients:

Cardiac disorders: infrequent: ventricular extrasystoles

Eye disorders: frequent: vision blurred, dry eye; infrequent: cataracts

General disorders: infrequent: feeling abnormal

Metabolism and nutrition disorders: frequent: decreased appetite

Nervous System: frequent: sedation, migraine; infrequent: dysgeusia

Psychiatric disorders: infrequent: panic attack, mania

Renal and Urinary disorder: infrequent: pollakiuria

Skin and subcutaneous tissue disorders: frequent: hyperhidrosis, night sweats

#### 7 DRUG INTERACTIONS

#### 7.1 Central Nervous System (CNS)-Active Agents

The risk of using VIIBRYD in combination with other CNS-active drugs has not been systematically evaluated. Consequently, use caution when VIIBRYD is prescribed in combination with other CNS-active drugs.

#### Monoamine Oxidase Inhibitors (MAOI)

Adverse reactions, some of which are serious or fatal, can develop in patients who use MAOIs or who have recently been discontinued from a MAOI and started on antidepressant(s) with pharmacological properties similar to VIIBRYD (e.g. SSRIs), or who have recently had SSRI therapy discontinued prior to initiation of an MAOI. Do not prescribe VIIBRYD concomitantly with an MAOI or within 14 days of discontinuing or starting an MAOI [see Contraindications (4.1)].

### Serotonergic Drugs

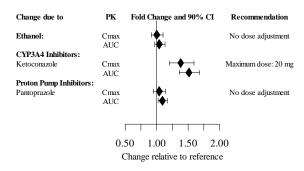
Based on the mechanism of action of VIIBRYD and the potential for serotonin toxicity, also known as serotonin syndrome, caution is advised when VIIBRYD is coadministered with other drugs that may affect the serotonergic neurotransmitter systems (e.g., MAOI, SSRIs, SNRIs, triptans, buspirone, tramadol, and tryptophan products etc.) [see Warnings and Precautions (5.2)].

# 7.2 Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, and Warfarin)

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of case-control and cohort design 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 VIIBRYD is initiated or discontinued [see Warnings and Precautions (5.4)].

#### 7.3 Potential for Other Drugs to Affect Vilazodone

Figure 1. Impact of other drugs on Vilazodone PK



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<sup>\*\*</sup>Includes orgasm abnormal and anorgasmia

<sup>\*\*\*</sup>Male patients only (Placebo n=182; VIIBRYD n=170)

<sup>\*</sup>Includes anorgasmia

#### **Inhibitors of CYP3A4**

Metabolism by CYP3A4 is a major elimination pathway for vilazodone. Concomitant use of VIIBRYD and strong inhibitors of CYP3A4 (e.g., ketoconazole) can increase vilazodone plasma concentrations by approximately 50% (see Figure 1). The VIIBRYD dose should be reduced to 20 mg if co-administered with a strong inhibitor of CYP3A4. During co-administration with moderate inhibitors of CYP3A4 (e.g., erythromycin), the VIIBRYD dose should be reduced to 20 mg for patients with intolerable adverse events. No dose adjustment is recommended when VIIBRYD is co-administered with mild inhibitors of CYP3A4 (e.g., cimetidine).

#### **Inducers of CYP3A4**

Concomitant use of VIIBRYD with inducers of CYP3A4 has the potential to reduce vilazodone systemic exposure. However, the effect of CYP3A4 inducers on vilazodone plasma concentrations has not been evaluated.

#### Inhibitors of other CYP enzymes

Concomitant administration of VIIBRYD with inhibitors of CYP2C19 and CYP2D6 is not expected to alter plasma concentrations of vilazodone. These isoforms are minor elimination pathways in the metabolism of vilazodone. *In vitro* studies have shown that CYP1A2, CYP2A6, CYP2C9 and CYP2E1 have minimal contribution to the metabolism of vilazodone.

#### 7.4 Potential for Vilazodone to Affect Other Drugs

# Drugs metabolized by CYP1A2, CYP2C9, CYP2D6, CYP3A4 or CYP2C19.

Coadministration of VIIBRYD with substrates for CYP1A2, CYP2C9, CYP3A4, or CYP2D6 is unlikely to result in clinically significant changes in the concentrations of the CYP substrates. A study in healthy subjects found that VIIBRYD (20 mg/day for 8-10 days) had no effect on the pharmacokinetics of caffeine, flurbiprofen, nifedipine or debrisoquine, probes for CYP1A2, CYP2C9, CYP3A4, and CYP2D6, respectively. VIIBRYD coadministration with mephenytoin to healthy subjects resulted in a small (11%) increase in mephenytoin biotransformation, suggestive of a minor induction of CYP2C19. *In vitro* studies have shown that VIIBRYD is a moderate inhibitor of CYP2C19 and CYP2D6.

## Drugs metabolized by CYP2C8

Coadministration of VIIBRYD with a CYP2C8 substrate may lead to an increase in concentration of the other drug. *In vitro* studies suggest that VIIBRYD may inhibit the biotransformation of substrates of CYP2C8. The effect of VIIBRYD on CYP2C8 activity has not been tested *in vivo*.

#### Induction of CYP isoforms

VIIBRYD did not induce CYP1A1, 1A2, 2A6, 2B6, 2C9, 2C19, 2D6, 2E1, 3A4 or 3A5 in an *in vitro* study in cultured human hepatocytes. Chronic administration of vilazodone is unlikely to induce the metabolism of drugs metabolized by these major CYP isoforms.

#### 7.5 Drugs Highly Bound to Plasma Protein

The interaction between vilazodone and other highly protein-bound drugs has not been evaluated. Because vilazodone is highly bound to plasma protein, administration of VIIBRYD to a patient taking another drug that is highly protein bound may cause increased free concentrations of the other drug.

#### 8 USE IN SPECIFIC POPULATIONS

#### 8.1 Pregnancy

#### **Teratogenic Effects**

Pregnancy Category C

Vilazodone caused some developmental toxicity in rats, but was not teratogenic in rats or rabbits. There are no adequate and well-controlled studies of VIIBRYD in pregnant women. When treating pregnant women with VIIBRYD, carefully consider whether the potential benefits outweigh the potential risks of treatment.

No teratogenic effects were observed when vilazodone was given to pregnant rats or rabbits during the period of organogenesis at oral doses up to 200 and 36 mg/kg/day, respectively. These doses are 48 and 17 times, in rats and rabbits, respectively, the maximum recommended human dose (MRHD) of 40 mg on a mg/m² basis. Fetal body weight gain was reduced, and skeletal

ossification was delayed in both rats and rabbits at these doses; these effects were not observed at doses up to 10 times the MRHD in rats or 4 times the MRHD in rabbits.

When vilazodone was administered to pregnant rats at an oral dose of 30 times the MRHD during the period of organogenesis and throughout pregnancy and lactation, the number of live born pups was decreased. There was an increase in early postnatal pup mortality, and among surviving pups there was decreased body weight, delayed maturation, and decreased fertility in adulthood. There was some maternal toxicity at this dose. These effects were not seen at 6 times the MRHD.

#### Nonteratogenic Effects

Neonates exposed to serotonergic antidepressants late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of serotonergic antidepressants 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)].

#### 8.2 Labor and Delivery

The effect of VIIBRYD on labor and delivery in humans is unknown. VIIBRYD should be used during labor and delivery only if the potential benefit outweighs the potential risk.

#### 8.3 Nursing Mothers

Vilazodone is excreted into the milk of lactating rats. The effect of VIIBRYD on lactation and nursing in humans is unknown. Breast feeding in women treated with VIIBRYD should be considered only if the potential benefit outweighs the potential risk to the child.

#### 8.4 Pediatric Use

Clinical studies on the use of VIIBRYD in pediatric patients have not been conducted; therefore, the safety and effectiveness of VIIBRYD in the pediatric population have not been established. VIIBRYD is not approved for use in pediatric patients [see Box Warning and Warnings and Precautions (5.1)].

#### 8.5 Geriatric Use

No dose adjustment is recommended on the basis of age (see Figure 2). Results from a single-dose (20 mg) pharmacokinetic study in elderly (> 65 years-old) vs. young (24-55 years-old) subjects demonstrated that the pharmacokinetics were generally similar between the two age groups.

Of the 2177 patients in clinical studies with VIIBRYD, 37 (1.7%) were 65 years of age or older, and 272 (12.5%) were 55 to 64 years of age.

Greater sensitivity of some older individuals cannot be ruled out [see Dosage and Administration (2.3)].

Serotonergic antidepressants have been associated with cases of clinically significant hyponatremia in elderly patients, who may be at greater risk for this adverse event [see Warnings and Precautions (5.7)].

#### 8.6 Hepatic Impairment

Vilazodone is eliminated primarily by hepatic metabolism. In mild and moderate hepatic impairment, no dose adjustment is necessary (see Figure 2). VIIBRYD has not been studied in patients with severe hepatic impairment [see Dosage and Administration (2.3)].

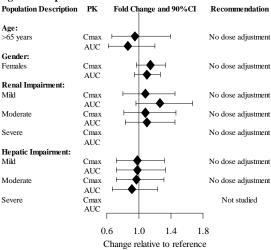
### 8.7 Renal Impairment

In mild, moderate, and severe renal impairment, no dose adjustment is necessary (see Figure 2 below) [see Dosage and Administration (2.3)].

### 8.8 Gender Effect

After adjustment for body weight, the systemic exposures between males and females are similar (see Figure 2) [see Dosage and Administration (2.3)].

Figure 2. Impact of Intrinsic Factors on Vilazodone PK



The data shown for elderly subjects (>65 years) are relative to younger subjects (24-55 years). The data shown for female subjects are relative to male subjects.

The data shown for renal and hepatic impairment are relative to subjects with normal renal and hepatic function, respectively.

#### 9 DRUG ABUSE AND DEPENDENCE

#### 9.1 Controlled Substance

VIIBRYD is not a controlled substance.

#### 9.2 Abuse and Dependence

VIIBRYD has been systematically studied in animals and did not demonstrate abuse or dependence potential. While VIIBRYD has not been systematically studied in humans for its potential for abuse, there was no suggested evidence of drug-seeking behavior in the clinical studies. However, it is not possible to predict on the basis of clinical 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 a history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of VIIBRYD (e.g., development of tolerance, drug-seeking behavior, increases in dose).

#### 10 OVERDOSAGE

#### 10.1 Human Experience

There is limited clinical experience regarding human overdosage with VIIBRYD. Four patients and 1 patient's child experienced an overdose of VIIBRYD; all recovered. The adverse reactions associated with overdose of VIIBRYD at doses of 200-280 mg as observed in clinical trials included serotonin syndrome, lethargy, restlessness, hallucinations, and disorientation.

#### 10.2 Management of Overdose

Consult a Certified Poison Control Center for up-to-date guidance and advice. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference® (PDR). No specific antidotes for vilazodone are known. In case of an overdose, provide supportive care, including close medical supervision and monitoring. Treatment should consist of those general measures employed in the management of overdosage with any drug. Consider the possibility of multiple drug overdose. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Gastric lavage with a large-bore orogastric tube with appropriate airway protection, if needed, may be considered. Removal of vilazodone by dialysis has not been studied; however, the high volume of distribution of vilazodone suggests that dialysis will not be effective in reducing vilazodone plasma concentrations.

#### 11 DESCRIPTION

VIIBRYD Tablets for oral administration contain polymorph Form IV vilazodone hydrochloride (HCl), a selective serotonin reuptake inhibitor and a  $5\mathrm{HT}_{1A}$  receptor partial agonist.

Vilazodone HCl is 2-benzofurancarboxamide, 5-[4-[4-(5-cyano-1*H*-indol-3-yl)butyl]-1-piperazinyl]-, hydrochloride (1:1). Its molecular weight is 477.99. The structural formula is:

In addition to the active ingredient, VIIBRYD Tablets contain lactose monohydrate, microcrystalline cellulose, magnesium stearate, colloidal silicon dioxide, polyvinyl alcohol, titanium dioxide, polyethylene glycol, talc, FD&C Blue #1 (40 mg only), FD&C Yellow #6 (20 mg only) and FD&C Red #40 (10 mg only).

#### 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of action

The mechanism of the antidepressant effect of vilazodone is not fully understood but is thought to be related to its enhancement of serotonergic activity in the CNS through selective inhibition of serotonin reuptake. Vilazodone is also a partial agonist at serotonergic 5-HT $_{\rm IA}$  receptors; however, the net result of this action on serotonergic transmission and its role in vilazodone's antidepressant effect are unknown.

#### 12.2 Pharmacodynamics

Vilazodone binds with high affinity to the serotonin reuptake site (Ki= 0.1 nM), but not to the norepinephrine (Ki=56 nM) or dopamine (Ki=37 nM) reuptake sites. Vilazodone potently and selectively inhibits reuptake of serotonin (IC $_{50}$ = 1.6 nM). Vilazodone also binds selectively with high affinity to 5-HT $_{1A}$  receptors (IC $_{50}$ =2.1 nM) and is a 5-HT $_{1A}$  receptor partial agonist.

Thorough QT Study: Treatment with VIIBRYD did not prolong the QTc interval. The effect of vilazodone (20, 40, 60, and 80 mg) on the QTc interval was evaluated in a randomized, placebo-, and active-controlled (moxifloxacin 400 mg), parallel-group, thorough QTc study in 157 healthy subjects. The study demonstrated an ability to detect small effects. The upper bound of the 90% confidence interval for the largest placebo-adjusted, baseline-corrected QTc interval was below 10 msec, based on the individual correction method (QTcI). This is below the threshold for clinical concern. However, it is unknown whether 80 mg is adequate to represent a high clinical exposure condition.

# 12.3 Pharmacokinetics

Vilazodone activity is due primarily to the parent drug. The pharmacokinetics of vilazodone (5 mg - 80 mg) are dose-proportional. Accumulation of vilazodone is predictable from single dose data, does not vary with dose, and steady-state is achieved in about 3 days. Elimination of vilazodone is primarily by hepatic metabolism with a terminal half-life of approximately 25 hours. At steady-state, after daily dosing of VIIBRYD 40 mg under fed conditions, the mean  $C_{\rm max}$  value is 156 ng/mL, and the mean AUC ( $_{0\text{-}24\,hours}$ ) value is 1645 ng·h/mL.

#### Absorption

Vilazodone concentrations peak at a median of 4-5 hours ( $T_{max}$ ) after administration and decline with a terminal half-life of approximately 25 hours. The absolute bioavailability of vilazodone is 72% with food. Administration of VIIBRYD with food (high fat or light meal) increases oral bioavailability ( $C_{max}$  increased by approximately 147-160%, and AUC increased by approximately 64-85%).

Coadministration of VIIBRYD with ethanol or with a proton pump inhibitor (pantoprazole) did not affect the rate or extent of vilazodone absorption [see Drug Interactions (7.3, Figure 1)]. In addition, neither the  $T_{max}$  nor terminal elimination rate of vilazodone was altered by coadministration with either pantoprazole or ethanol.

Absorption is decreased by approximately 25% if vomiting occurs within 7 hours of ingestion; no replacement dose is needed.

#### Distribution

Vilazodone is widely distributed and approximately 96-99% protein-bound

# Metabolism and Elimination

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VIIBRYD is extensively metabolized through CYP and non-CYP pathways (possibly by carboxylesterase), with only 1% of the dose recovered in the urine and 2% of the dose recovered in the feces as unchanged vilazodone. CYP3A4 is primarily responsible for its metabolism among CYP pathways, with minor contributions from CYP2C19 and CYP2D6. *In vitro* studies with human microsomes and human hepatocytes indicate that vilazodone is unlikely to inhibit or induce the metabolism of other CYP (except for CYP2C8) substrates; and an *in vivo* study with probe substrates for CYP2C19, 2D6 and 3A4 showed vilazodone did not alter the pharmacokinetics of the probe substrates. However, an *in vivo* study with probe substrate for CYP2C19 demonstrated a minor induction of CYP2C19. Strong inhibitors of CYP3A4 (e.g., ketoconazole) can reduce the metabolism of vilazodone *in vivo* and increase exposure. Conversely, inducers of CYP3A4 can decrease vilazodone exposure [see Drug Interactions (7.3)].

The presence of mild or moderate renal impairment, or mild or moderate hepatic impairment did not affect the apparent clearance of vilazodone.

#### 13 NONCLINICAL TOXICOLOGY

# 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenesis

Carcinogenicity studies were conducted in which B6C3F1mice and Wistar rats were given oral doses of vilazodone up to 135 and 150 mg/kg/day, respectively, for 2 years. These doses are approximately 16.5 and 36 times the maximum recommended human dose (MRHD) of 40 mg, respectively, on a mg/m² basis.

In mice, the incidence of hepatocellular carcinomas was increased in males at 16.5 times the MRHD; this finding was not observed at 5.5 times the MRHD. The incidence of malignant mammary gland tumors was numerically increased in females at 5.5 and 16.5 times the MRHD, with statistical significance at 16.5 the MHRD; this finding was not observed at 1.8 times the MRHD. Elevated prolactin levels were observed in a 2-week study of vilazodone administered at 5.5 and 33 times the MRHD. Increases in prolactin levels are known to cause mammary tumors in rodents.

In the rat study, vilazodone was not carcinogenic in either sex at doses up to 36 times the MRHD.

### Mutagenesis

Vilazodone was not mutagenic in the *in vitro* bacterial reverse mutation assay (Ames test). Vilazodone was negative in the *in vitro* V79/HGRPT mammalian cell forward mutation assay. Vilazodone was clastogenic in two *in vitro* mammalian cell chromosome aberration assays. However, vilazodone was negative for clastogenic activity in both an *in vivo* rat bone marrow chromosome aberration assay and a micronucleus test. Vilazodone was also negative in an *in vivo/in vitro* unscheduled DNA synthesis assay in rats.

#### **Impairment of Fertility**

Treatment of rats with vilazodone at a dose of 125 mg/kg, which is 30 times the maximum recommended human dose (MRHD) of 40 mg on a mg/m² basis, caused impairment of male fertility with no effect on female fertility. Impaired male fertility was not observed at 6 times the MRHD.

#### 14 CLINICAL STUDIES

The efficacy of VIIBRYD as a treatment for major depressive disorder was established in two 8-week, multicenter, randomized, double-blind, placebo-controlled studies in adult (18-70 years of age) outpatients who met the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV-TR) criteria for MDD. In these studies, patients were titrated over 2 weeks to a dose of 40 mg of VIIBRYD with food (n=436) or placebo (n = 433) once daily. VIIBRYD was superior to placebo in the improvement of depressive symptoms as measured by the mean change from baseline to Week 8 in the Montgomery-Asberg Depression Rating Scale (MADRS) total score. Examination of population subgroups based on age (there were few patients over 65), gender, and race did not reveal any clear evidence of differential responsiveness

Table 4. Summary of Results for the Primary Efficacy Endpoint

| Study Number | Primary Endpoint | LS Mean (95% CI) a<br>difference from |
|--------------|------------------|---------------------------------------|
|              |                  | placebo in change from                |

|   |       | baseline          |
|---|-------|-------------------|
| 1 | MADRS | -3.2 (-5.2, -1.3) |
| 2 | MADRS | -2.5 (-4.4, -0.6) |

<sup>&</sup>lt;sup>a</sup> Least Squares Mean (95% Confidence Interval)

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

#### 16.1 How Supplied

VIIBRYD (vilazodone HCl) Tablets are supplied in the following configurations:

**10 mg, pink, oval tablet, debossed with 10 on one side** 0456-1110-30: 30-count bottles

**20 mg, orange, oval tablet, debossed with 20 on one side** 0456-1120-30: 30-count bottles

**40 mg, blue, oval tablet, debossed with 40 on one side** 0456-1140-30: 30-count bottles

#### **Patient Starter Kit**

0456-1100-31: blister card containing 30 tablets:

10 mg, pink, oval, debossed with 10 on one side: 7 tablets 20 mg, orange, oval, debossed with 20 on one side: 7 tablets 40 mg, blue, oval, debossed with 40 on one side: 16 tablets

#### 16.2 Storage

VIIBRYD (vilazodone HCl) Tablets should be stored at 25°C (77°F) with excursions permitted to  $15^{\circ}$ C -  $30^{\circ}$ C (59°F -  $86^{\circ}$ F) [see USP Controlled Room Temperature].

# 17 PATIENT COUNSELING INFORMATION

See Medication Guide (17.2).

#### 17.1 Information for Patients

Advise patients and their caregivers about the benefits and risks associated with treatment with VIIBRYD and counsel them in its appropriate use. Advise patients and their caregivers to read the Medication Guide and assist them in understanding its contents. The complete text of the Medication Guide is reprinted at the end of this document.

#### Suicide Risk

Advise patients and caregivers to look for the emergence of suicidality, especially early during treatment and when the dose is adjusted up or down [see Box Warning and Warnings and Precautions (5.1)].

#### **Dosing and Administration**

Instruct patients to take VIIBRYD with food. When initiating treatment with VIIBRYD the dose should be titrated, starting with a dose of 10 mg once daily for 7 days, followed by 20 mg once daily for an additional 7 days, and then increased to 40 mg once daily.

#### **Concomitant Medication**

Instruct patients not to take VIIBRYD with an MAOI or within 14 days of stopping an MAOI and to allow 14 days after stopping VIIBRYD before starting an MAOI [see Contraindications (4.1)].

#### Serotonin Syndrome or Neuroleptic Malignant Syndrome (NMS)-like Reactions

Caution patients about the risk of serotonin syndrome or Neuroleptic Malignant Syndrome (NMS)-like reactions, particularly with the concomitant use of VIIBRYD and triptans, tramadol, tryptophan supplements, other serotonergic agents, or antipsychotic drugs [see Warnings and Precautions (5.2) and Drug Interactions (7.1)].

#### Seizures

Caution patients about using VIIBRYD if they have a history of a seizure disorder [see Warnings and Precautions (5.3)]. Patients with a history of seizures were excluded from clinical studies.

#### **Abnormal Bleeding**

Caution patients about the concomitant use of VIIBRYD and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation since combined use of psychotropic drugs that interfere with serotonin reuptake and these agents has

been associated with an increased risk of abnormal bleeding [see Warnings and Precautions (5.4)].

#### Activation of Mania/Hypomania

Advise patients and their caregivers to observe for signs of activation of mania/hypomania [see Warnings and Precautions (5.5)].

#### **Discontinuation of Treatment**

Advise patients not to stop taking VIIBRYD without talking first with their healthcare provider. Patients should be aware that discontinuation effects may occur when suddenly stopping VIIBRYD [see Warnings and Precautions (5.6)].

#### Hyponatremia

Advise patients that if they are treated with diuretics, or are otherwise volume depleted, or are elderly, they may be at greater risk of developing hyponatremia while taking VIIBRYD [see Warnings and Precautions (5.7)].

#### Alcohol

Advise patients to avoid alcohol while taking VIIBRYD [see Drug Interactions (7.3)].

#### **Allergic Reactions**

Advise patients to notify their healthcare provider if they develop an allergic reaction such as rash, hives, swelling, or difficulty breathing.

#### Pregnancy

Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during therapy with VIIBRYD [see Use in Specific Populations (8.1)].

#### **Nursing Mothers**

Advise patients to notify their healthcare provider if they are breastfeeding an infant and would like to continue or start VIIBRYD [see Use in Specific Populations (8.3)].

#### **Interference with Cognitive and Motor Performance**

Caution patients about operating hazardous machinery, including automobiles, until they are reasonably certain that VIIBRYD therapy does not adversely affect their ability to engage in such activities.

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