

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use olanzapine orally disintegrating tablets, USP safely and effectively. See full prescribing information for olanzapine orally disintegrating tablets, USP.

Olanzapine Orally Disintegrating Tablets, USP For Oral Use

Initial U.S. Approval: 1996

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
See full prescribing information for complete boxed warning.

- Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Olanzapine is not approved for the treatment of patients with dementia-related psychosis. (1.1, 1.2, 17.2)
- When using olanzapine and fluoxetine in combination, also refer to the **Black Warning section of the package insert for Symbyax**®.

RECENT MAJOR CHANGES

Warnings and Precautions:
 Metabolic Changes (5.4) 12/2014
 Orthostatic Hypotension (5.6) 07/2015
 Hypertension (5.13) 12/2014

INDICATIONS AND USAGE
 Olanzapine orally disintegrating tablets, USP are an atypical antipsychotic indicated:

As oral formulation of the:
 • Treatment of schizophrenia (1.1)
 • Treatment of schizophrenia (1.1)
 • Adults: Efficacy was established in three clinical trials in patients with schizophrenia: two 6-week trials and one maintenance trial (14.1).
 • Adolescents (ages 13 to 17): Efficacy was established in one 6-week trial in patients with schizophrenia (14.1). The increased potential in adolescents compared with adults for weight gain and dyslipidemia may lead clinicians to consider prescribing other drug first in adolescents (14.1).
 • Acute treatment of manic or mixed episodes associated with bipolar I disorder and maintenance treatment of bipolar I disorder (1.2)
 • Adults: Efficacy was established in three clinical trials in patients with manic or mixed episodes of bipolar I disorder: two 6- to 12-week trials and one maintenance trial (12.1).
 • Adolescents (ages 13 to 17): Efficacy was established in one 3-week trial in patients with manic or mixed episodes associated with bipolar I disorder (14.2). The increased potential in adolescents compared with adults for weight gain and dyslipidemia may lead clinicians to consider prescribing other drug first in adolescents (14.2).
 • Medication therapy for pediatric patients with schizophrenia or bipolar I disorder should be undertaken only after a thorough diagnostic evaluation and with careful consideration of the potential risks. (3)
 • Acute or maintenance treatment of depressive episodes associated with bipolar I disorder (1.2).
 • Efficacy was established in two 6-week clinical trials in adults (14.2). Maintenance efficacy has not been systematically evaluated.

As Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination for the:
 • Treatment of depressive episodes associated with bipolar I disorder (1.3)
 • Efficacy was established with Symbyax® (olanzapine and fluoxetine in combination), refer to the product label for Symbyax®.

DOSE AND ADMINISTRATION

Schizophrenia in adults (2.1) Oral. Start at 5 to 10 mg once daily. Target: 10 mg daily.
 Schizophrenia in adolescents (2.1) Oral. Start at 2.5 to 10 mg once daily. Target: 10 mg daily.
 Bipolar I disorder (manic or mixed episodes) in adults (2.2) Oral. Start at 5 to 10 mg once daily.
 Bipolar I disorder (manic or mixed episodes) in adolescents (2.2) Oral. Start at 2.5 to 10 mg once daily. Target: 10 mg daily.
 Bipolar I disorder (manic or mixed episodes) with lithium or valproate in adults (2.2) Oral. Start at 10 mg once daily.
 Depressive episodes associated with bipolar I disorder in adults (2.5) Oral. Start at 5 mg once daily. Target: 5 mg of olanzapine and 20 mg of fluoxetine once daily.

• Lower starting dose recommended in debilitated or pharmacodynamically sensitive patients or patients with predisposition to hypotension or with postures or related medications. (2.1)
 • Olanzapine may be given without regard to meals. (2.1)
 • Olanzapine Orally Disintegrating Tablets and Fluoxetine in Combination:
 • Dosage adjustments, if indicated, should be made with the individual components according to efficacy and tolerability. (2.5)
 • Olanzapine monotherapy is not indicated for the treatment of depressive episodes associated with bipolar I disorder. (2.5)
 • Safety of co-administration of doses above 15 mg olanzapine with 75 mg fluoxetine has not been evaluated in adults. (2.5)

DOSE FORMS AND STRENGTHS
 • Orally Disintegrating Tablets (post scored): 5 mg, 10 mg, 15 mg, 20 mg (3)

CONTRAINDICATIONS
 • None with olanzapine monotherapy.
 • When using olanzapine and fluoxetine in combination, also refer to the Contraindications section of the package insert for Symbyax®.

• When using olanzapine in combination with lithium or valproate, refer to the Contraindications section of the package inserts for those products (4.1)

WARNINGS AND PRECAUTIONS

- Elderly Patients with Dementia-Related Psychosis: Increased risk of death and increased incidence of adverse events (e.g., stroke, transient ischemic attack). (5.1)
- Potential for Abuse: Olanzapine is a Schedule V controlled substance. In patients with bipolar I disorder, and close supervision of high-risk patients should accompany drug therapy, when used in combination with fluoxetine, also refer to the **Black Warning and Warnings and Precautions sections of the package insert for Symbyax**®. (5.2)
- Neuroleptic Malignant Syndrome: Manage with attention to olanzapine and fluoxetine combination. (5.3)
- Metabolic Changes: Atypical antipsychotic drugs have been associated with metabolic changes including hyperglycemia, dyslipidemia, and weight gain. (5.4)
- Myocardial Infarction: Myocardial Infarction: In some cases extreme and associated with ketosis or hyperosmolar coma or death, has been reported in patients taking olanzapine. Patients taking olanzapine should be monitored for symptoms of hyperglycemia and undergo fasting blood glucose testing at the beginning of, and periodically during, treatment. (5.4)
- Potential for Abuse and Posture-Related Medication: Aggressive clinical monitoring is recommended, including fasting blood glucose testing at the beginning of, and periodically during, treatment. (5.4)
- Weight Gain: Potential consequences of weight gain should be considered. Patients receiving routine monitoring of weight. (5.4)
- Hypotension: Olanzapine is clinically hypotensive. (5.5)
- Orthostatic Hypotension: Orthostatic hypotension associated with dizziness, tachycardia, and, in some patients, syncope, may occur especially during initial dose titration. Use caution in patients with cardiovascular disease, cardiovascular disease, and/or dehydration. (5.6)
- Leukopenia, Neutropenia, and Agranulocytosis: Has been reported with antipsychotics, including olanzapine. Patients with a history of clinically significant low white blood cell count (WBC) or drug induced leukopenia/agranulocytosis should have their complete blood count (CBC) checked frequently during the first 6 months of therapy. Olanzapine should be discontinued if the WBC is significantly decreased or if a clinically significant decrease in WBC in the absence of other causative factors. (5.7)
- Serious Use Cautions: Use with caution in patients with a history of seizures with conditions that potentially lower the seizure threshold. (5.9)
- Potential for Abuse and Posture-Related Medication: Aggressive clinical monitoring, timing, and motor skills. Use caution when operating machinery. (5.10)
- Hyperglycemia: May elevate prostatic risks. (5.13)
- Myocardial Infarction: Myocardial Infarction: In some cases extreme and associated with ketosis or hyperosmolar coma or death, has been reported in patients taking olanzapine. Patients taking olanzapine should be monitored for symptoms of hyperglycemia and undergo fasting blood glucose testing at the beginning of, and periodically during, treatment. (5.4)
- Potential for Abuse and Posture-Related Medication: Aggressive clinical monitoring is recommended, including fasting blood glucose testing at the beginning of, and periodically during, treatment. (5.4)
- Weight Gain: Potential consequences of weight gain should be considered. Patients receiving routine monitoring of weight. (5.4)
- Hypotension: Olanzapine is clinically hypotensive. (5.5)
- Orthostatic Hypotension: Orthostatic hypotension associated with dizziness, tachycardia, and, in some patients, syncope, may occur especially during initial dose titration. Use caution in patients with cardiovascular disease, cardiovascular disease, and/or dehydration. (5.6)
- Leukopenia, Neutropenia, and Agranulocytosis: Has been reported with antipsychotics, including olanzapine. Patients with a history of clinically significant low white blood cell count (WBC) or drug induced leukopenia/agranulocytosis should have their complete blood count (CBC) checked frequently during the first 6 months of therapy. Olanzapine should be discontinued if the WBC is significantly decreased or if a clinically significant decrease in WBC in the absence of other causative factors. (5.7)
- Serious Use Cautions: Use with caution in patients with a history of seizures with conditions that potentially lower the seizure threshold. (5.9)
- Potential for Abuse and Posture-Related Medication: Aggressive clinical monitoring, timing, and motor skills. Use caution when operating machinery. (5.10)
- Hyperglycemia: May elevate prostatic risks. (5.13)

ADVERSE REACTIONS
 Most common adverse reactions (≥5% and at least twice that for placebo) associated with:
 • Olanzapine Monotherapy:
 • Schizophrenia (Adults)—postural hypotension, increased weight gain, dizziness, personality disorder, akathisia (6.1)
 • Olanzapine and Fluoxetine in Combination: sedation, weight increased, headache, increased appetite, dizziness, abdominal pain, in extremity, dry mouth (6.2)
 • Manic or Mixed Episodes, Bipolar I Disorder (Adults)—asthenia, dry mouth, constipation, increased appetite, somnolence, dizziness, dry mouth (6.3)
 • Manic or Mixed Episodes, Bipolar I Disorder (Adolescents)—sedation, weight increased, increased appetite, headache, fatigue, dizziness, dry mouth, abdominal pain, in extremity (6.5)

• Olanzapine and Fluoxetine in Combination: asthenia, dry mouth, constipation, increased appetite, dizziness, back pain, constipation, speech disorder, increased salivation, asthenia, parosmia (6.1)

USE IN SPECIFIC POPULATIONS
 • Pregnancy: Olanzapine should be used during pregnancy only if the potential benefits justifies the potential risk to the fetus. (8.1)
 • Nursing Mothers: Breastfeeding should be avoided. (8.2)
 • Pediatric Use: Safety and effectiveness of olanzapine in children <13 years of age have not been established. Safety and effectiveness of olanzapine and fluoxetine in combination in children <10 years of age have not been established. (8.4)
 • Pediatric Use: Safety and effectiveness information for pediatric patients (10 to 17 years) is approved for Eli Lilly and Company's olanzapine tablets and olanzapine orally disintegrating tablets. However, due to Eli Lilly and Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

See 17 for **PATIENT COUNSELING INFORMATION** and FDA-approved Medication Guide.

Full Prescribing Information

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS

1. INDICATIONS AND USAGE

1.1 Schizophrenia
 1.2 Bipolar I Disorder (Manic or Mixed Episodes)
 1.3 Special Considerations in Treating Pediatric Schizophrenia and Bipolar I Disorder
 1.4 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 1.5 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder

2. DOSAGE AND ADMINISTRATION

2.1 Schizophrenia
 2.2 Bipolar I Disorder (Manic or Mixed Episodes)
 2.3 Administration of Olanzapine Orally Disintegrating Tablets
 2.4 Olanzapine Orally Disintegrating Tablets and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 2.5 Olanzapine Orally Disintegrating Tablets and Fluoxetine in Combination: Dosing in Special Populations

3. DOSAGE FORMS AND STRENGTHS

4. CONTRAINDICATIONS

5. WARNINGS AND PRECAUTIONS

5.1 Elderly Patients with Dementia-Related Psychosis
 5.2 Suicide
 5.3 Neuroleptic Malignant Syndrome (NMS)
 5.4 Metabolic Changes
 5.5 Tardive Dyskinesia
 5.6 Orthostatic Hypotension
 5.7 Leukopenia, Neutropenia, and Agranulocytosis
 5.8 Postage
 5.9 Seizures
 5.10 Potential for Cognitive and Motor Impairment
 5.11 Body Temperature Regulation
 5.12 Use in Patients with Concurrent Illnesses
 5.13 Hyperglycemia
 5.14 Use in Combination with Fluoxetine, Lithium, or Valproate
 5.15 Laboratory Tests

6. ADVERSE REACTIONS

6.1 Clinical Trials Experience
 6.2 Extrapyramidal Symptoms
 6.3 Other Adverse Reactions
 6.4 Postmarketing Experience

7. DRUG INTERACTIONS

7.1 Potential for Abuse: Drug to Affect Olanzapine
 7.2 Potential for Abuse: Drug to Affect Other Drugs

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
 8.2 Labor and Delivery
 8.3 Nursing Mothers
 8.4 Pediatric Use
 8.5 Geriatric Use

9. DRUG ABUSE AND DEPENDENCE

9.1 Abuse and Dependence

10. OVERDOSAGE

10.1 Human Experience
 10.2 Management of Overdose

11. DESCRIPTION

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
 12.2 Pharmacodynamics
 12.3 Pharmacokinetics

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
 13.2 Animal Toxicology and/or Pharmacology

14. CLINICAL STUDIES

14.1 Schizophrenia
 14.2 Bipolar I Disorder (Manic or Mixed Episodes)
 14.3 Special Considerations in Treating Pediatric Schizophrenia and Bipolar I Disorder
 14.4 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 14.5 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Dosing in Special Populations

15. PATENT COUNSELING INFORMATION

15.1 Information on Medication Log
 15.2 Elderly Patients with Dementia-Related Psychosis: Increased Mortality and Cardiovascular Adverse Events (CVAE), including Stroke
 15.3 Neuroleptic Malignant Syndrome (NMS)
 15.4 Hypoglycemia and Diabetes Mellitus
 15.5 Dyslipidemia
 15.6 Weight Gain
 15.7 Orthostatic Hypotension
 15.8 Potential for Cognitive and Motor Impairment
 15.9 Body Temperature Regulation
 15.10 Concomitant Medication
 15.11 Alcohol
 15.12 Postmarketing
 15.13 Use in Specific Populations
 15.14 Use for Compulsive Treatment Program in Pediatric Patients

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

FULL PRESCRIBING INFORMATION

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
 Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Analysis of overall mortality in patients taking olanzapine orally disintegrating tablets, USP compared to placebo-treated patients revealed a rate of death in drug-treated patients of between 1.6 to 1.7 times the risk of death in placebo-treated patients. Over the course of 12 to 18 weeks of treatment, the rate of death in drug-treated patients was about 4.5% compared to a rate of about 2.5% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. Observational studies suggest that, similar to atypical antipsychotic drugs, treatment with conventional antipsychotic drugs may increase mortality. The extent to which findings of increased mortality in observational studies may be attributed to the antipsychotic drug as opposed to some characteristic(s) of the patients is not clear. Olanzapine is not approved for the treatment of patients with dementia-related psychosis. (See **Warnings and Precautions (5.1, 5.2) and Patient Counseling Information (17.2)**.)

When using olanzapine and fluoxetine in combination, also refer to the Black Warning section of the package insert for Symbyax®.

1. INDICATIONS AND USAGE

1.1 Schizophrenia
 Olanzapine orally disintegrating tablets, USP are indicated for the treatment of schizophrenia. Efficacy was established in three clinical trials in patients with schizophrenia: two 6-week trials and one maintenance trial. In adolescent patients with schizophrenia (ages 13 to 17), efficacy was established in one 6-week trial (see *Clinical Studies (14.1)*).
 When deciding among the alternative treatments available for schizophrenia, clinicians should consider the increased potential in adolescents compared with adults for weight gain and dyslipidemia. Clinicians should consider the potential long-term risks when prescribing to adolescents, and in many cases this may lead them to consider prescribing other drugs first in adolescents (see **Warnings and Precautions (5.4)**).

1.2 Bipolar I Disorder (Manic or Mixed Episodes)
 Olanzapine—Olanzapine orally disintegrating tablets, USP are indicated for the acute treatment of manic or mixed episodes associated with bipolar I disorder and maintenance treatment of bipolar I disorder. Efficacy was established in three clinical trials in adult patients with manic or mixed episodes of bipolar I disorder: two 6- to 12-week trials and one maintenance maintenance trial. In adolescent patients with manic or mixed episodes associated with bipolar I disorder (ages 13 to 17), efficacy was established in one 3-week trial (see *Clinical Studies (14.2)*).
 When deciding among the alternative treatments available for adolescents, clinicians should consider the increased potential in adolescents compared with adults for weight gain and dyslipidemia. Clinicians should consider the potential long-term risks when prescribing to adolescents, and in many cases this may lead them to consider prescribing other drugs first in adolescents (see **Warnings and Precautions (5.4)**).

1.3 Special Considerations in Treating Pediatric Schizophrenia and Bipolar I Disorder
 Pediatric Schizophrenia: Olanzapine orally disintegrating tablets, USP are indicated for the treatment of manic or mixed episodes associated with bipolar I disorder as an adjunct to lithium or valproate. Efficacy was established in two 6-week clinical trials in adolescents with bipolar I disorder. The effectiveness of olanzapine therapy for longer term has not been systematically evaluated (see *Controlled Trials (see Clinical Studies (14.2))*).

1.4 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 Olanzapine orally disintegrating tablets, USP and fluoxetine in combination are indicated for the treatment of depressive episodes associated with bipolar I disorder. Efficacy was established in two 6-week clinical studies. When using olanzapine orally disintegrating tablets, USP and fluoxetine in combination, also refer to the **Black Warning section of the package insert for Symbyax**®.

1.5 Olanzapine Orally Disintegrating Tablets, USP and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 Olanzapine orally disintegrating tablets, USP monotherapy is not indicated for the treatment of depressive episodes associated with bipolar I disorder.

2. DOSAGE AND ADMINISTRATION

2.1 Schizophrenia
Adults
 Dose Selection—Oral olanzapine should be administered on a once-a-day schedule without regard to meals, generally beginning with 5 to 10 mg orally, with a target dose of 10 mg daily with several days. Further dosage adjustments, if indicated, should generally occur at intervals of not less than 1 week. Since steady state for olanzapine would not be achieved for approximately 7 to 10 days in the typical patient, the above dosing adjustments are necessary, dose increases/decreases of 5 mg QD are recommended.
 Dosage in Special Populations—The recommended starting dose is 5 to 10 mg daily in clinical trials. However, doses above 10 mg were not demonstrated to be more efficacious than the 10 mg/day dose. An increase to a dose greater than the target dose of 10 mg (i.e., to a dose of 15 mg daily), subjects who received olanzapine 10 mg daily, was not associated with an increase in efficacy.
 Dosing in Social Populations—The recommended starting dose is 5 to 10 mg daily in clinical trials. However, doses above 10 mg were not demonstrated to be more efficacious than the 10 mg/day dose. An increase to a dose greater than the target dose of 10 mg (i.e., to a dose of 15 mg daily), subjects who received olanzapine 10 mg daily, was not associated with an increase in efficacy.
 Pediatric Schizophrenia—The recommended starting dose is 2.5 to 10 mg daily in clinical trials. However, doses above 10 mg were not demonstrated to be more efficacious than the 10 mg/day dose. An increase to a dose greater than the target dose of 10 mg (i.e., to a dose of 15 mg daily), subjects who received olanzapine 10 mg daily, was not associated with an increase in efficacy.
 Maintenance Treatment—The effectiveness of olanzapine 10 mg daily to 20 mg daily in maintaining treatment response in schizophrenic patients who had been stable on olanzapine orally disintegrating tablets for approximately 8 weeks and were then followed for relapse has been demonstrated in a placebo-controlled trial (see *Clinical Studies (14.1)*). The physician may wish to use olanzapine orally disintegrating tablets for extended periods should periodically reevaluate the long-term usefulness of the drug for the individual patient.

2.2 Bipolar I Disorder (Manic or Mixed Episodes)
Adults
 Dose Selection—Oral olanzapine should be administered on a once-a-day schedule without regard to meals with a recommended starting dose of 5 to 10 mg orally, with a target dose of 10 mg daily. Efficacy in adolescents with bipolar I disorder (manic or mixed episodes) was demonstrated based on a flexible dose range of 2.5 to 20 mg daily in clinical trials, with a mean modal dose of 10.7 mg daily (mean dose of 8.9 mg daily). When dosage adjustments are necessary, dose increases/decreases of 2.5 to 5 mg are recommended.
 The safety and effectiveness of doses above 20 mg/day have not been evaluated in clinical trials (see *Clinical Studies (14.2)*).
 Maintenance Treatment—The efficacy of olanzapine orally disintegrating tablets for the maintenance treatment of adult patients in the adolescent population has not been systematically evaluated, however, maintenance efficacy can be extrapolated from adult data along with the safety and effectiveness of doses above 20 mg/day have not been evaluated in clinical trials (see *Clinical Studies (14.2)*). The safety of doses above 20 mg/day has not been evaluated in clinical trials.

2.3 Administration of Olanzapine Orally Disintegrating Tablets
 Peak back to 10 mg. Do not push tablets back. Immediately upon opening the blister, using dry hands, remove tablet and place entire olanzapine orally disintegrating tablet in the mouth. Tablet disintegration occurs rapidly in saliva so it can be easily swallowed with or without fluid.

2.4 Olanzapine Orally Disintegrating Tablets and Fluoxetine in Combination: Depressive Episodes Associated with Bipolar I Disorder
 When using olanzapine orally disintegrating tablets and fluoxetine in combination, also refer to the Clinical Studies section of the package insert for Symbyax®.

2.5 Olanzapine Orally Disintegrating Tablets and Fluoxetine in Combination: Dosing in Special Populations
Adults
 Oral olanzapine should be administered in combination with fluoxetine only daily in the evening, without regard to meals, generally beginning with 5 mg of olanzapine and 20 mg of fluoxetine. Dosage adjustments, if indicated, can be made according to efficacy and tolerability within dose ranges of oral olanzapine 5 to 12.5 mg and fluoxetine 20 to 50 mg. Antipsychotic efficacy was demonstrated with olanzapine 5 mg and fluoxetine 20 mg. The safety and effectiveness of doses above 18 mg olanzapine with 75 mg fluoxetine has not been evaluated in clinical studies.

Children and Adolescents (10 to 17 years of age)
 Dosage and Administration Information for Pediatric Patients (10 to 17 years) is approved for Eli Lilly and Company's olanzapine tablets and olanzapine orally disintegrating tablets. However, due to Eli Lilly and Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

3. DOSAGE FORMS AND STRENGTHS
 Olanzapine orally disintegrating tablets are yellow, round, flat beveled edge, and debossed tablets. Tablets are not scored. The tablets are available as follows:

Olanzapine Orally Disintegrating Tablets	TABLET STRENGTH			
	5 mg	10 mg	15 mg	20 mg
	DL020	DL040	DL060	DL080

4. CONTRAINDICATIONS
 • None with olanzapine monotherapy.
 • When using olanzapine and fluoxetine in combination, also refer to the Contraindications section of the package insert for Symbyax®.
 • For specific information about the contraindications of lithium or valproate, refer to the Contraindications section of the package inserts for those other products.

5. WARNINGS AND PRECAUTIONS
 When using olanzapine and fluoxetine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax®.

5.1 Elderly Patients with Dementia-Related Psychosis
Increased Mortality—Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Olanzapine is not approved for the treatment of patients with dementia-related psychosis (see **Boxed Warning, Warnings and Precautions (5.1)**, and **Patient Counseling Information (17.2)**).

In placebo-controlled clinical trials of elderly patients with dementia-related psychosis, the incidence of death in olanzapine-treated patients was significantly greater than placebo-treated patients (3.5% vs 1.5%, respectively).

Cardiovascular Adverse Events (CVAE), Including Stroke—Cardiovascular adverse events (e.g., stroke, transient ischemic attack), including fatalities, were reported in trials of olanzapine in elderly patients with dementia-related psychosis. In placebo-controlled trials, there was a significantly higher incidence of cardiovascular adverse events in patients treated with olanzapine compared to patients treated with placebo. Olanzapine is not approved for the treatment of patients with dementia-related psychosis (see **Boxed Warning and Patient Counseling Information (17.2)**).

5.2 Suicide
 The possibility of a suicide attempt is inherent in schizophrenia and in bipolar I disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions for olanzapine should be written for the smallest quantity of tablets consistent with good patient management in order to reduce the risk of overdose.

5.3 Neuroleptic Malignant Syndrome (NMS)
 A potentially fatal neuroleptic syndrome sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs, including olanzapine. Clinical manifestations of NMS are hyperreflexia, muscle rigidity, altered mental status and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis and cardiac dysrhythmias). Additional signs may include elevated creatine phosphokinase, myoglobinuria (hemosuria and myoglobinuria), and acute renal failure. The diagnosis is complicated in patients who are being treated for a diagnosis. It is important to exclude causes of the clinical presentation includes both serious medical illness (e.g., pneumonia, systemic infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever, and primary central nervous system pathology.

The management of NMS should include: 1) immediate discontinuation of olanzapine and other drugs not essential to concurrent therapy; 2) intensive symptomatic treatment and medical monitoring; and 3) treatment of any concomitant serious problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for NMS. If a patient receives antipsychotic drug treatment after recovery from NMS, the potential reinitiation of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported (see **Patient Counseling Information (17.2)**).

5.4 Metabolic Changes
 Atypical antipsychotic drugs have been associated with metabolic changes including hyperglycemia, dyslipidemia, and weight gain. Metabolic abnormalities are complicated by the possibility of an increased background risk of diabetic mellitus in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Epidemiological studies suggest an increased risk of treatment-emergent hyperglycemia-related events in patients treated with the atypical antipsychotics. While relative risk estimates are inconsistent, the association between atypical antipsychotics and increases in glucose levels appears to fall on a continuum and olanzapine appears to have a greater association than some other atypical antipsychotics.

Mean increase in blood glucose have been observed in patients treated (median exposure of 9.2 months) with olanzapine in the phase of the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE). The mean increase of serum glucose (fasting and nonfasting samples) from baseline to the average of the 2 highest serum measurements was 15.0 mg/dL.

In a study of healthy volunteers, subjects who received olanzapine (N=20) for 3 weeks had a mean increase compared to baseline in fasting blood glucose of 2.3 mg/dL. Placebo-treated subjects (N=19) had a mean increase in fasting blood glucose compared to baseline of 0.34 mg/dL.

Olanzapine Monotherapy in Adults—In an analysis of 5 placebo-controlled atypical antipsychotic monotherapy studies with a median treatment duration of approximately 3 weeks, olanzapine was associated with a greater mean change in fasting glucose levels compared to placebo (2.8 mg/dL versus 0.1 mg/dL). The difference in mean change between olanzapine and placebo was greater in patients with evidence of hyperglycemia at baseline (patients diagnosed with diabetes mellitus or related glucose reactions). Patients treated with anti-diabetic agents, patients with a baseline random glucose level >200 mg/dL, and/or a baseline fasting glucose level >126 mg/dL. Olanzapine-treated patients had a greater mean HbA_{1c} increase from baseline of 0.04% (median exposure 21 days), compared to a mean HbA_{1c} increase of 0.06% in placebo-treated subjects (median exposure 17 days).

In an analysis of 8 placebo-controlled studies (median treatment exposure 4.5 weeks), 6.1% of olanzapine-treated patients (N=852) had treatment-emergent glucose increases compared to 2.8% of placebo-treated patients (N=509). Table 2 shows short-term and long-term changes in fasting glucose levels from adult olanzapine monotherapy studies.

Table 2: Changes in Fasting Glucose Levels from Adult Olanzapine Monotherapy Studies

Laboratory Analyte	Category Change (at least once from Baseline)	Up to 12 weeks exposure		At least 24 weeks exposure		
		N	Patients (%)	N	Patients (%)	
Fasting Glucose	Normal to High (<100 mg/dL to >126 mg/dL)	Olanzapine	343	2.2%	345	12.8%
	Placebo	283	2.4%	NA*	NA*	
Fasting Glucose (borderline to high)	Normal to High (<100 mg/dL to >126 mg/dL)	Olanzapine	178	17.4%	127	26.8%
	Placebo	96	11.9%	NA*	NA*	

*Not Applicable.

The mean change in fasting glucose for patients exposed at least 48 weeks was 4.2 mg/dL (N=487). In patients who completed ≥12 months of olanzapine therapy, mean change in fasting and nonfasting glucose levels continued to increase over time.

5.5 Tardive Dyskinesia
 Olanzapine, like other antipsychotics, is associated with an increased risk of tardive dyskinesia (TD) which has not been established in patients under the age of 13 years. In an analysis of 3 placebo-controlled olanzapine monotherapy studies of adolescent patients, including those with schizophrenia (6 weeks) or bipolar I disorder (manic or mixed episodes) (3 weeks), olanzapine was associated with a greater mean change from baseline (0.2%) to 0.2% (N=20) with an atypical, acute effect, but low long-term risk of tardive dyskinesia. In patients who completed their entire blood count (CBC) monitored frequently during the first few months of therapy and discontinuation of olanzapine should be considered at the first sign of a clinically significant decline in WBC in the absence of other causative factors.

† Signs and symptoms of tardive dyskinesia appear in a patient on olanzapine, drug discontinuation should be considered. However, some patients may require treatment with olanzapine or lithium or valproate, refer to the Warnings section of the package inserts for these other products.

Table 3: Changes in Fasting Lipid Levels from Adult Olanzapine Monotherapy Studies

Laboratory Analyte	Category Change (at least once from Baseline)	Up to 12 weeks exposure		At least 24 weeks exposure		
		N	Patients (%)	N	Patients (%)	
Fasting Total Cholesterol	Normal to High (<200 mg/dL to >240 mg/dL)	Olanzapine	392	2.8%	284	13.6%
	Placebo	297	2.8%	NA*	NA*	
Fasting LDL Cholesterol	Normal to High (<160 mg/dL to >190 mg/dL)	Olanzapine	112	12.2%	NA*	NA*
	Placebo	118	20.0%	73	70.7%	

*Not Applicable.

In long-term studies (at least 24 weeks), patients had increases from baseline in mean fasting total cholesterol, LDL cholesterol, and triglycerides (1.8 mg/dL, 0.2 mg/dL, and 2.8 mg/dL, respectively) compared to decreases from baseline in mean fasting total cholesterol, LDL cholesterol, and triglycerides (6.1 mg/dL, 4.3 mg/dL, and 10.7 mg/dL, respectively) for placebo-treated patients. For fasting HDL cholesterol, no clinically meaningful differences were observed between olanzapine and placebo-treated patients. However, olanzapine-treated patients were greater in patients without evidence of lipid dysregulation at baseline, when lipid dysregulation was defined as patients diagnosed with dyslipidemia or related adverse reactions, patients treated with lipid lowering agents, or patients with lipid levels below the normal range.

In long-term studies (at least 48 weeks), patients had increases from baseline in mean fasting total cholesterol, LDL cholesterol, and triglycerides (1.8 mg/dL, 0.2 mg/dL, and 2.8 mg/dL, respectively) compared to decreases from baseline in mean fasting total cholesterol, LDL cholesterol, and triglycerides (6.1 mg/dL, 4.3 mg/dL, and 10.7 mg/dL, respectively) for placebo-treated patients. For fasting HDL cholesterol, no clinically meaningful differences were observed between olanzapine and placebo-treated patients.

5.6 Weight Gain
 Potential consequences of weight gain should be considered prior to starting olanzapine. Patients receiving olanzapine should receive regular monitoring of weight (see *Patient Counseling Information (17.2)*).

Olanzapine Monotherapy in Adults—In an analysis of 13 placebo-controlled olanzapine monotherapy studies, olanzapine-treated patients gained an average of 2.6 kg (5.7) compared to an average of 0.3 kg (0.6 lb) weight loss in placebo-treated patients with a median exposure of 2 weeks. 22% of olanzapine-treated patients gained at least 7% of their baseline weight, compared to 3% of placebo-treated patients, with a median exposure of 8 weeks. 4.2% of olanzapine-treated patients gained at least 15% of their baseline weight, compared to 0.3% of placebo-treated patients, with a median exposure of over 12 weeks. Clinically significant weight gain was observed across all baseline Body Mass Index (BMI) categories. Discontinuation due to weight gain occurred in 0.2% of olanzapine-treated patients and in 0% of placebo-treated patients.

In long-term studies (at least 24 weeks), the mean weight gain was 5.6 kg (12.3 lb) (median exposure of 573 days, N=2021). The percentages of patients who gained at least 7% of their baseline weight were 15.0% vs 2.9% (olanzapine vs placebo), respectively. Discontinuation due to weight gain occurred in 0.4% of olanzapine-treated patients and in 0% of placebo-treated patients.

Table 6 includes data on adult weight gain with olanzapine pooled from 86 clinical trials. The data in this column represent data for those patients who completed treatment through to the duration specified.

Table 5: Changes in Fasting Lipid Values from Adult Olanzapine Monotherapy Studies

Laboratory Analyte	Category Change (at least once from Baseline)	Up to 6 weeks exposure		At least 24 weeks exposure		
		N	Patients (%)	N	Patients (%)	
Fasting Total Cholesterol	Normal to High (>200 mg/dL to >240 mg/dL)	Olanzapine	138	37.0%	122	45.9%
	Placebo	86	15.2%	NA*	NA*	
Fasting LDL Cholesterol	Normal to High (>160 mg/dL to >190 mg/dL)	Olanzapine	67	17.6%	NA*	NA*
	Placebo	28	10.0%	NA*	NA*	

*Not Applicable.

Weight Gain
 Potential consequences of weight gain should be considered prior to starting olanzapine. Patients receiving olanzapine should receive regular monitoring of weight (see *Patient Counseling Information (17.2)*).

Olanzapine Monotherapy in Adults—In an analysis of 13 placebo-controlled olanzapine monotherapy studies, olanzapine-treated patients gained an average of 2.6 kg (5.7) compared to an average of 0.3 kg (0.6 lb) weight loss in placebo-treated patients with a median exposure of 2 weeks. 22% of olanzapine-treated patients gained at least 7% of their baseline weight, compared to 3% of placebo-treated patients, with a median exposure of 8 weeks. 4.2% of olanzapine-treated patients gained at least 15% of their baseline weight, compared to 0.3% of placebo-treated patients, with a median exposure of over 12 weeks. Clinically significant weight gain was observed across all baseline Body Mass Index (BMI) categories. Discontinuation due to weight gain occurred in 0.2% of olanzapine-treated patients and in 0% of placebo-treated patients.

In long-term studies (at least 24 weeks), the mean weight gain was 5.6 kg (12.3 lb) (median exposure of 573 days, N=2021). The percentages of patients who gained at least 7% of their baseline weight were 15.0% vs 2.9% (olanzapine vs placebo), respectively. Discontinuation due to weight gain occurred in 0.4% of olanzapine-treated patients and in 0% of placebo-treated patients.

Table 6 includes data on adult weight gain with olanzapine pooled from 86 clinical trials. The data in this column represent data for those patients who completed treatment through to the duration specified.

Table 6: Weight Gain with Olanzapine Use in Adults

Amount Gained (kg)	N	6 Weeks (N=745)	6 Months (N=1412)	12 Months (N=1345)	24 Months (N=474)	36 Months (N=147)
<0	29	24	24	23	23	17.0

