ARIPIPRAZOLE- aripiprazole tablet **Apotex Corp**

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use ARIPIPRAZOLE TABLETS
safely and effectively. See full prescribing information for ARIPIPRAZOLE TABLETS.

ARIPIPRAZOLE tablets for oral use. Initial U.S. Approval: 2002

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS and SUICIDAL THOUGHTS AND BEHAVIORS WITH ANTIDEPRESSANT DRUGS

See full prescribing information for complete boxed warning.

- see run prescribing information for complete boxed warning.

 Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Aripiprazole is not approved for the treatment of patients with dementia-related psychosis. (5.1) Increased risk of suicidal thinking and behavior in children, adolescents, and young addits taking antidepressants. Monitor for worsening and emergence of suicidal thoughts and behaviors. (5.3) Aripiprazole tablets are an atypical antipsychotic. The oral formulation is indicated for:

 • Schizophrenia (14.1)

 • Irritability Associated with Autistic Disorder (14.4)

 • Treatment of Tourette's disorder (14.5)

..... DOSAGE AND ADMINISTRATION

		Initial Dose	Recommended Dose	Maximum Dose
Schizophrenia - adults (2.1)		10 to 15mg/day	10 to 15 mg/day	30 mg/day
Schizophrenia - adolescents (2.1)		2 mg/day	10 mg/day	30 mg/day
Irritability associated with autistic disorder – pediatric patients (2.4)		2 mg/day	5 to 10 mg/day	15mg/day
Tourette's disorder - (2.5)	Patients < 50 kg	2 mg/day	5 mg/day	10mg/day
Tourette's disorder - (2.5)	Patients ≥ 50 kg	2 mg/day	10 mg/day	20mg/day

- Oral formulations: Administer once daily without regard to meals (2)
 Known CYP2D6 poor metabolizers: Half of the usual dose (2.7)

DOSAGE FORMS AND STRENGTHS
 Tablets: 2 mg, 5 mg, 10 mg, 15 mg, 20 mg, and 30 mg (3)

CONTRAINDICATIONS Known hypersensitivity to aripiprazole (4)

- Dyslipidemia: Undesirable alterations in lipid levels have been observed in patients treated with
- atypical antipsychotics (5.6)

 Weight Gain: Weight gain has been observed with atypical antipsychotic use. Monitor weight (5.6)

 Pathological Gambling and Other Compulsive Behaviors: Consider dose reduction or discontinuation
- Pathological Gambling and Other Compulsive Behaviors: Consider dose reduction or discontinuation (5.7)
 Orthostatic Hypotension: Monitor heart rate and blood pressure and warm patients with known cardiovascular or cerebrovascular disease, and risk of dehydration or syncope (5.8)
 Leukopenia, Neutropenia, and Agranulocytosis: have been reported with antipsychotics including aripiprazole. Patients with a history of a clinically significant low white blood cell count (MBC) or a drug-induced leukopenia/neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and discontinuation of anipiprazole should be considered at the first sign of a clinically significant decline in MBC in the absence of other causative factors (5.1)
 Seizures/Convulsions: Use cautiously in patients with a history of seizures or with conditions that lower the seizure threshold (5.11)
 Potential for Cognitive and Motor Impairment: Use caution when operating machinery (5.12)
 Suicide: The possibility of a suicide attempt is inherent in schizophrenia. Closely supervise high-risk patients (5.14)

ADVERSE REACTIONS Commonly observed adverse reactions (incidence ≥5% and at least twice that for placebo) were (6.1): Adult patients with schizophrenia: akathisia Pediatric patients (13 to 17 years) with schizophrenia: extrapyramidal disorder, somnolence, and tremor.

- tremor

 Pediatric patients (6 to 17 years) with autistic disorder: sedation, fatigue, vomiting, somnolence, tremor, pyrexia, drooling, decreased appetite, salivary hypersecretion, extrapyramidal disorder, and lethargy

 Pediatric patients (6 to 18 years) with Tourette's disorder: sedation, somnolence, nausea, headache, nasopharyngitis, fatigue, increased appetite

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

DRUG INTERACTIONS

Dosage adjustment due to drug interactions (7.1)

Factors	Dosage Adjustments for Aripiprazole
Known CYP2D6 Poor Metabolizers	Administer half of usual dose
Known CYP2D6 Poor Metabolizers and strong CYP.	3A4 inhibitors Administer a quarter of usual dose
Strong CYP2D6 or CYP3A4 inhibitors	Administer half of usual dose
Strong CYP2D6 and CYP3A4inhibitors	Administer a quarter of usual dose
Strong CYP3A4 inducers	Double usual dose over 1 to 2 weeks

USE IN SPECIFIC POPULATIONS
 Pregnancy: May cause extrapyramidal and/or withdrawal symptoms in neonates with third trimester exposure (8.1)

Additional pediatric use information is approved for Otsuka America
Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America
Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2023

FULL PRESCRIBING INFORMATION: CONTENTS*
WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS and SUICIDAL THOUGHTS AND BEHAVIORS WITH ANTIDEPRESSANT DRUGS

1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION

- 2.1 Schizophrenia 2.4 Irritability Associated with Autistic Disorder
- 2.5 Tourette's Disorder
 2.7 Dosage Adjustments for Cytochrome P450 Considerations
- 2.8 Dosing of Oral Solution
 3 DOSAGE FORMS AND STRENGTHS
 4 CONTRAINDICATIONS
- 5 WARNINGS AND PRECAUTIONS

- 5.1 Increased Mortality in Elderly Patients with Dementia-Related Psychosis
- 5.2 Cerebrovascular Adverse Events, Including Stroke
- 5.3 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults 5.4 Neuroleptic Malignant Syndrome (NMS)
- 5.5 Tardive Dyskinesia 5.6 Metabolic Changes
- 5.7 Pathological Gambling and Other Compulsive Behaviors 5.8 Orthostatic Hypotension
- 5.9 Falls
- 5.10 Leukopenia, Neutropenia, and Agranulocytosis
- 5.11 Seizures/Convulsions
- 5.12 Potential for Cognitive and Motor Impairment
- 5.13 Body Temperature Regulation
- 5.14 Suicide 5.15 Dysphagia

- 6 ADVERSE REACTIONS 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience
 7 DRUG INTERACTIONS

- 7.1 Drugs Having Clinically Important Interactions with Aripiprazole
 7.2 Drugs Having No Clinically Important Interactions with Aripiprazole
 8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use 8.5 Geriatric Use
- 8.6 CYP2D6 Poor Metabolizers 8.7 Hepatic and Renal Impairment
- 8.8 Other Specific Populations
 9 DRUG ABUSE AND DEPENDENCE

- 9.1 Controlled Substance9.2 Abuse9.3 Dependence

10 OVERDOSAGE

- 10.1 Human Experience 10.2 Management of Overdosage 11 DESCRIPTION

12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action

- 12.2 Pharmacodynamics12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

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

14 CLINICAL STUDIES

- 14.1 Schizophrenia
- 14.4 Irritability Associated with Autistic Disorder 14.5 Tourette's Disorder

16 HOW SUPPLIED/STORAGE AND HANDLING 16.1 How Supplied

17 PATIENT COUNSELING INFORMATION

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 and SUICIDAL THOUGHTS AND BEHAVIORS WITH ANTIDEPRESSANT DRUGS

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Aripiprazole is not approved for the treatment of patients with dementia-related psychosis [see Warnings and Precautions (5.1)].

Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term studies. These studies did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in patients over age 24; there was a reduction in risk with antidepressant use in patients aged 65 and older [see Warnings and Precautions (5.3)].

In patients of all ages who are started on antidepressant therapy, monitor closely for worsening, and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber [see Warnings and Precautions (5.3)].

1 INDICATIONS AND USAGE

Aripiprazole tablets are indicated for the treatment of:

- Schizophrenia [see Clinical Studies (14.1)]
- Irritability Associated with Autistic Disorder [see Clinical Studies (14.4)]
- Treatment of Tourette's Disorder [see Clinical Studies (14.5)]

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole)

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2 DOSAGE AND ADMINISTRATION

2.1 Schizophrenia

The recommended starting and target dose for aripiprazole is $10\ \text{or}\ 15\ \text{mg/day}$ administered on a once-a-day schedule without

regard to meals. Aripiprazole has been systematically evaluated and shown to be effective in a dose range of 10 to 30 $\,$

mg/day, when administered as the tablet formulation; however, doses higher than 10 or 15 mg/day were not more effective than 10 or 15 mg/day. Dosage increases should generally not be made before 2 weeks, the time needed to achieve steady-state [see Clinical Studies (14.1)].

Maintenance Treatment: Maintenance of efficacy

in schizophrenia was demonstrated in a trial involving patients with schizophrenia who had been symptomatically stable on other antipsychotic medications for periods of 3 months or longer.

These patients were discontinued from those medications and randomized to either aripiprazole tablets 15 mg/day or placebo, and observed for relapse [see Clinical Studies (14.1)]. Patients should be periodically reassessed to determine the continued need for maintenance treatment.

Adolescents

The recommended target dose of aripiprazole

tablets is 10 mg/day. Aripiprazole was studied in adolescent patients 13 to 17 years of age with schizophrenia

at daily doses of 10 mg and 30 mg. The starting daily dose of the tablet formulation in these patients was 2 mg, which was thrated to 5 mg after 2 days and to the target dose of 10 mg after 2 additional days. Subsequent dose increases should be administered in 5 mg increments. The 30 mg/day dose was not shown to be more efficacious than the 10 mg/day dose. Aripiprazole tablets can be administered without regard to meals [see

Clinical Studies (14.1)]. Patients should be periodically reassessed to determine the need for maintenance treatment.

Switching from Other Antipsychotics

There are no systematically collected data to specifically address switching patients with schizophrenia from other antipsychotics to aripiprazole or concerning concomitant administration with other antipsychotics. While immediate discontinuation of the previous antipsychotic treatment may be acceptable for some patients with schizophrenia, more gradual discontinuation may be most appropriate for others. In all cases, the period of overlapping antipsychotic administration should be minimized.

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2.4 Irritability Associated with Autistic Disorder

Pediatric Patients (6 to 17 years)

The recommended dosage range for the treatment of pediatric patients with irritability associated with autistic disorder is 5 to 15 mg/day.

Dosing should be initiated at 2 mg/day. The dose should be increased to 5 mg/day, with subsequent increases to 10 or 15 mg/day if needed. Dose adjustments of up to 5 mg/day should occur gradually, at intervals of no less than 1 week [see Clinical Studies (14.4)]. Patients should be periodically reassessed to determine the continued need for maintenance treatment

2.5 Tourette's Disorder

Pediatric Patients (6 to 18 years)

The recommended dosage range for Tourette's Disorder is 5 to 20 mg/day.

For patients weighing less than 50 kg, dosing should be initiated at 2 mg/day with a target dose of 5 mg/day after 2 days. The dose can be increased to 10 mg/day in patients who do not achieve optimal control of tics. Dosage adjustments should occur gradually at intervals of no less than 1 week.

For patients weighing 50 kg or more, dosing should be initiated at 2 mg/day for 2 days, and then increased to 5 mg/day for 5 days, with a target dose of 10 mg/day on day 8. The dose can be increased up to 20 mg/day for patients who do not achieve optimal control of tics. Dosage adjustments should occur gradually in increments of 5 mg/day at intervals of no less than 1 week. [see Clinical Studies (14.5)].

Patients should be periodically reassessed to determine the continued need for

2.7 Dosage Adjustments for Cytochrome P450 Considerations

Dosage adjustments are recommended in patients who are known CYP2D6 poor bosage adjustments are recommended in patients who are known CTP2Do poor metabolizers and in patients taking concomitant CYP3A4 inhibitors or CYP2D6 inhibitors or strong CYP3A4 inducers (see Table 2). When the coadministered drug is withdrawn from the combination therapy, aripiprazole dosage should then be adjusted to its original level. When the coadministered CYP3A4 inducer is withdrawn, aripiprazole dosage should be reduced to the original level over 1 to 2 weeks. Patients who may be receiving a combination of strong, moderate, and weak inhibitors of CYP3A4 and CYP2D6 (e.g., a strong CYP3A4 inhibitor and a moderate CYP2D6 inhibitor or a moderate CYP3A4 inhibitor with a moderate CYP2D6 inhibitor), the dosing may be reduced to one-quarter (25%) of the usual dose initially and then adjusted to achieve a favorable clinical response.

Table 2: Dose Adjustments for Aripiprazole in Patients who are known CYP2D6 Poor Metabolizers and Patients Taking Concomitant CYP2D6 Inhibitors, 3A4 Inhibitors, and/or CYP3A4 Inducers

Factors	Dosage Adjustments for Aripiprazole
Known CYP2D6 Poor Metabolizers	Administer half of usual dose
Known CYP2D6 Poor Metabolizers taking concomitant strong CYP3A4 inhibitors (e.g., itraconazole, clarithromycin)	Administer a quarter of usual dose
Strong CYP2D6 (e.g., quinidine, fluoxetine, paroxetine) or CYP3A4 inhibitors (e.g., itraconazole, clarithromycin)	Administer half of usual dose
Strong CYP2D6 and CYP3A4 inhibitors	Administer a quarter of usual dose
Strong CYP3A4 inducers (e.g., carbamazepine, rifampin)	Double usual dose over 1 to 2 weeks

2.8 Dosing of Oral Solution

The oral solution can be substituted for tablets on a mg-per-mg basis up to the 25 mg dose level. Patients receiving 30 mg tablets should receive 25 mg of the solution [see Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

Aripiprazole tablets. USP are available as described below.

2 mg tablets: green, rectangular, slightly biconvex tablets, engraved "2" on one side and "A" on the other side.

5 mg tablets: blue, rectangular, slightly biconvex tablets, engraved "5" on one side and "A" on the other side.

10 mg tablets: pink, rectangular, slightly biconvex tablets, engraved "10" on one side and "A" on the other side.

15 mg tablets: yellow, round, slightly biconvex tablets, engraved "ARI" over "15" on one side and "APO" on the other side.

20 mg tablets: white to off-white, round, slightly biconvex tablets, engraved "ARI" over "20" on one side and "APO" on the other side

30 mg tablets: pink, round, slightly biconvex tablets, engraved "ARI" over "30" on one

4 CONTRAINDICATIONS

Aripiprazole tablets are contraindicated in patients with a history of a hypersensitivity reaction to aripiprazole. Reactions have ranged from pruritus/urticaria to anaphylaxis [see ADVERSE REACTIONS (6.2]].

5 WARNINGS AND PRECAUTIONS

5.1 Increased Mortality in 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. Aripiprazole is not approved for the treatment of patients with dementia-related psychosis [see Boxed Warning].

Safety Experience in Elderly Patients with Psychosis Associated with Alzheimer's Disease

In three, 10-week, placebo-controlled studies of aripiprazole in elderly patients with psychosis associated with Alzheimer's disease (n=938; mean age: 82.4 years; range: 56

associated with Alzheimer's disease (n=938; mean age: 82.4 years; range: 56 to 99 years), the adverse reactions that were reported at an incidence of ≥3% and aripiprazole incidence at least twice that for placebo were lethargy [placebo 2%, aripiprazole 5%], somnolence (including sedation) [placebo 3%, aripiprazole 8%], and incontinence (primarily, urinary incontinence) [placebo 1%, aripiprazole 5%], excessive salivation [placebo 0%, aripiprazole 4%], and lightheadedness [placebo 1%, aripiprazole 4%].

The safety and efficacy of aripiprazole in the treatment of patients with psychosis associated with dementia have not been established. If the prescriber elects to treat such patients with aripiprazole, assess for the emergence of difficulty swallowing or excessive somnolence, which could predispose to accidental injury or aspiration [see Boxed Warning].

5.2 Cerebrovascular Adverse Events, Including Stroke

In placebo-controlled clinical studies (two flexible dose and one fixed dose study) of dementia-related psychosis, there was an increased incidence of cerebrovascular adverse events (e.g., stroke, transient ischemic attack), including fatalities, in aripiprazole-treated patients (mean age: 84 years; range: 78 to 88 years). In the fixed-dose study, there was a statistically significant dose response relationship for cerebrovascular adverse events in patients treated with aripiprazole. Aripiprazole is not approved for the treatment of patients with dementia-related psychosis [see Boxed Warning].

5.3 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults

Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of the heir depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term, placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18 to 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 trials in children and adolescents with MDD, Obsessive Compulsive Disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1,000 patients treated) are provided in Table 5.

Table 5:

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1,000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18 to 24	5 additional cases
	Decreases Compared to Placebo
25 to 64	1 fewer case
≥65	6 fewer cases

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

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

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

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for MDD 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.

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 aripiprazole should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

It should be noted that aripiprazole is not approved for use in treating depression in the pediatric population.

5.4 Neuroleptic Malignant Syndrome (NMS)

A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) may occur with administration of antipsychotic drugs, including aripiprazole. Rare cases of NMS occurred during aripiprazole treatment in the worldwide clinical database. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure

The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is important to exclude cases where the clinical presentation includes both serious medical illness (e.g., pneumonia, systemic infection) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticolinergic toxicity, heat stroke, drug fever, and primary central nervous system pathology.

The management of NMS should include: 1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; 2) intensive symptomatic treatment and medical monitoring; and 3) treatment of any concomitant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for uncomplicated NMS.

If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully nonitored, since recurrences of NMS have been reported.

5.5 Tardive Dyskinesia

A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown.

The risk of developing tardive dyskinesia and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase. However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses.

Tardive dyskinesia may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment, itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and, thereby, may possibly mask the underlying process. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown.

Given these considerations, aripiprazole should be prescribed in a manner that is most likely to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic lilness that (1) is known to respond to antipsychotic drugs and (2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically.

If signs and symptoms of tardive dyskinesia appear in a patient on aripiprazole, drug discontinuation should be considered. However, some patients may require treatment with aripiprazole despite the presence of the syndrome.

5.6 Metabolic Changes

Atypical antipsychotic drugs have been associated with metabolic changes that include hyperglycemia/diabetes mellitus, dyslipidemia, and body weight gain. While all drugs in the class have been shown to produce some metabolic changes, each drug has its own specific risk profile.

Hyperglycemia/Diabetes Mellitus

Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics. There have been reports of hyperglycemia in patients treated with aripiprazole [see Adverse Reactions (6.1, 6.2)]. Assessment of the relationship between atypical antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes mellitus in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Given these confounders, the relationship between atypical antipsychotic use and hyperglycemia-related adverse events is not completely understood. However, epidemiological studies suggest an increased risk of hyperglycemia-related adverse reactions in patients treated with the atypical antipsychotics. Because aripiprazole was not marketed at the time these studies were performed, it is not known if aripiprazole is associated with this increased risk. Precise risk estimates for hyperglycemia-related adverse reactions in patients treated with atypical antipsychotics are not available.

Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family history of diabetes) who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Any patient treated with atypical antipsychotics should be monitored for symptoms of hyperglycemia including polydipsia, polyuria, polyphagia, and weakness. Patients who develop symptoms of hyperglycemia during treatment with atypical antipsychotics should undergo fasting blood glucose testing. In some cases, hyperglycemia has resolved when the atypical antipsychotic was discontinued; however, some patients required continuation of anti-diabetic treatment despite discontinuation of the suspect drug.

Adults

In an analysis of 13 placebo-controlled monotherapy trials in adults, primarily with schizophrenia or another indication, the mean change in fasting glucose in aripiprazole-treated patients (+4.4 mg/dL; median exposure 25 days; N=1057) was not significantly different than in placebo-treated patients (+2.5 mg/dL; median exposure 22 days; N=799). Table 6 shows the proportion of aripiprazole-treated patients with normal and borderline fasting glucose at baseline (median exposure 25 days) that had treatment-emergent high fasting glucose measurements compared to placebo-treated patients (median exposure 22 days).

Table 6: Changes in Fasting Glucose From Placebo-Controlled Monotherapy Trials in Adult Patients

	CategoryChange (at least once) from Baseline	Treatment A	rmn/N °	%
FastingGiucose	Normal to High (<100 mg/dL to ≥126 mg/dL)	Aripiprazole	31/8223	3.8
		Placebo	22/605	3.6
	Borderline to High (≥100 mg/dL and <126 mg/dL to	Aripiprazole	31/176	17.6
	≥126 mg/dL)	Placebo	13/1429	9.2

At 24 weeks, the mean change in fasting glucose in aripiprazole-treated patients was not significantly different than in placebo-treated patients [+2.2 mg/dL (n=42) and +9.6 mg/dL (n=28), respectively].

Pediatric Patients and Adolescents

In an analysis of two placebo-controlled trials in adolescents with schizophrenia (13 to 17 years) and pediatric patients with other indication (10 to 17 years), the mean change in fasting glucose in aripiprazole-treated patients (+4.8 mg/dL; with a median exposure of 43 days; N=259) was not significantly different than in placebo-treated patients (+1.7 mg/dL; with a median exposure of 42 days; N=123).

In an analysis of two placebo-controlled trials in pediatric and adolescent patients with irritability associated with autistic disorder (6 to 17 years) with median exposure of 56 days, the mean change in fasting glucose in aripiprazole-treated patients (-0.2 mg/dL; N=83) was not significantly different than in placebo-treated patients (-0.6 mg/dL; N=33).

In an analysis of two placebo-controlled trials in pediatric and adolescent patients with Tourette's disorder (6 to 18 years) with median exposure of 57 days, the mean change in fasting glucose in aripiprazole-treated patients (0.79 mg/dL; N=90) was not significantly different than in placebo-treated patients (-1.66 mg/dL; N=58).

Table 8 shows the proportion of patients with changes in fasting glucose levels from the pooled adolescent schizophrenia and another indication (median exposure of 42 to 43 days), from two placebo-controlled trials in pediatric patients (6 to 17 years) with irritability associated with autistic disorder (median exposure of 56 days), and from the two placebo-controlled trials in pediatric patients (6 to 18 year) with Tourette's Disorder (median exposure 57 days).

Table 8: Changes in Fasting Glucose From Placebo-Controlled Trials in Pediatric and Adolescent Patients

Category Change (at least once) from Baseline	Indication	Treatment Arm	n/N	%
Fasting Glucose Normal to High (<100 mg/dL to ≥126 mg/dL)	Pooled	Aripiprazole	2/236	0.8
	Schizophrenia and Another Indication	Placebo	2/110	1.8
	Irritability Associated	Aripiprazole	0/73	0
	with Autistic Disorder	Placebo	0/32	0
	Tourette's Disorder	Aripiprazole	3/88	3.4
	Tourette's Disorder	Placebo	1/58	1.7
	Pooled	Aripiprazole	1/22	4.5
Fasting Glucose	Schizophrenia and Another Indication	Placebo	0/12	0
Borderline to High	Irritability Associated	Aripiprazole	0/9	0
(≥100 mg/dL and <126 mg/dL to ≥126 mg/dL)	with Autistic Disorder	Placebo	0/1	0
	Tourette's Disorder	Aripiprazole	0/11	0
	Tourette's Disorder	Placebo	0/4	0

At 12 weeks in the pooled adolescent schizophrenia and other indication trials, the mean change in fasting glucose in aripiprazole-treated patients was not significantly different than in placebo-treated patients [+2.4 mg/dL (n=81) and +0.1 mg/dL (n=15), respectively].

Dyslipidemia

Undesirable alterations in lipids have been observed in patients treated with atypical antipsychotics.

There were no significant differences between aripiprazole- and placebo-treated patients in the proportion with changes from normal to clinically significant levels for fasting/nonfasting total cholesterol, fasting triglycerides, fasting LDLs, and fasting/nonfasting HDLs. Analyses of patients with at least 12 or 24 weeks of exposure were limited by small numbers of patients.

<u>Adults</u>

Table 9 shows the proportion of adult patients, primarily from pooled schizophrenia and other indication monotherapy placebo-controlled trials, with changes in total cholesterol (pooled from 17 trials; median exposure 21 to 25 days), fasting triglycerides (pooled from eight trials; median exposure 42 days), fasting LDL cholesterol (pooled from eight trials; median exposure 39 to 45 days, except for placebo-treated patients with baseline normal fasting LDL measurements, who had median treatment exposure of 24 days) and HDL cholesterol (pooled from nine trials; median exposure 40 to 42 days).

Table 9: Changes in Blood Lipid Parameters From Placebo-Controlled Monotherapy Trials in Adults

	Treatment Arm	n/N	%
Total Cholesterol			
Normal to High	Aripiprazole	34/1357	2.5
(<200 mg/dL to ≥240/mg/dL)	Placebo	27/973	2.8
Fasting Triglycerides			
Normal to High	Aripiprazole	40/539	7.4
(<150 mg/dL to ≥200 mg/dL)	Placebo	30/431	7.0

Fasting LDL Cholesterol			
Normal to High	Aripiprazole	2/332	0.6
(<100 mg/dL to ≥160 mg/dL)	Placebo	2/268	0.7
HDL Cholesterol			
Normal to Low	Aripiprazole	121/1066	11.4
(≥40 mg/dL to <40 mg/dL)	Placebo	99/794	12.5

In monotherapy trials in adults, the proportion of patients at 12 weeks and 24 weeks with changes from Normal to High in total cholesterol (fasting/nonfasting), fasting triglycerides, and fasting LDL cholesterol were similar between aripiprazole- and placebotreated patients: at 12 weeks, Total Cholesterol (fasting/nonfasting), 1/71 (1.4%) vs. 3/74 (4.1%); Fasting Triglycerides, 8/62 (12.9%) vs. 5/37 (13.5%); Fasting LDL Cholesterol, 0/34 (0%) vs. 1/25 (4.0%), respectively; and at 24 weeks, Total Cholesterol (fasting/nonfasting), 1/42 (2.4%) vs. 3/37 (8.1%); Fasting Triglycerides, 5/34 (14.7%) vs. 5/20 (25%); Fasting LDL Cholesterol, 0/22 (0%) vs. 1/18 (5.6%), respectively.

Pediatric Patients and Adolescents

Table 11 shows the proportion of adolescents with schizophrenia (13 to 17 years) and other indication (10 to 17 years) with changes in total cholesterol and HDL cholesterol (pooled from two placebo-controlled trials; median exposure 42 to 43 days) and fasting triglycerides (pooled from two placebo-controlled trials; median exposure 42 to 44 days).

Table 11: Changes in Blood Lipid Parameters From Placebo-Controlled Monotherapy Trials in Pediatric and Adolescent Patients in Schizophrenia and Other Indication

	Treatment Arm	n/N	%
Total Cholesterol			
Normal to High	Aripiprazole	3/220	1.4
(<170 mg/dL to ≥200/mg/dL)	Placebo	0/116	0
Fasting Triglycerides			
Normal to High	Aripiprazole	7/187	3.7
(<150 mg/dL to ≥200 mg/dL)	Placebo	4/85	4.7
HDL Cholesterol			
Normal to Low	Aripiprazole	27/236	11.4
(≥40 mg/dL to <40 mg/dL)	Placebo	22/109	20.2

In monotherapy trials of adolescents with schizophrenia and pediatric patients with another indication, the proportion of patients at 12 weeks and 24 weeks with changes from Normal to High in total cholesterol (fasting/nonfasting), fasting triglycerides, and fasting LDL cholesterol were similar between aripiprazole- and placebo-treated patients: at 12 weeks, Total Cholesterol (fasting/nonfasting), 0/57 (0%) vs. 0/15 (0%); Fasting Triglycerides, 2/72 (2.8%) vs. 1/14 (7.1%), respectively; and at 24 weeks, Total Cholesterol (fasting/nonfasting), 0/36 (0%) vs. 0/12 (0%); Fasting Triglycerides, 1/47 (2.1%) vs. 1/10 (10.0%), respectively.

Table 12 shows the proportion of patients with changes in total cholesterol (fasting/nonfasting) and fasting triglycerides (median exposure 56 days) and HDL cholesterol (median exposure 55 to 56 days) from two placebo-controlled trials in pediatric patients (6 to 17 years) with irritability associated with autistic disorder.

Table 12: Changes in Blood Lipid Parameters From Placebo-Controlled Trials in Pediatric Patients with Autistic Disorder

	Treatment Arm	n/N	%
Total Cholesterol	Aripiprazole	1/95	1.1
Normal to High (<170 mg/dL to ≥200 mg/dL)	Placebo	0/34	0
Fasting Triglycerides	Aripiprazole	0/75	0
Normal to High (<150 mg/dL to ≥200 mg/dL)	Placebo	0/30	0
HDL Cholesterol	Aripiprazole	9/107	8.4
Normal to Low (≥40 mg/dL)	Placebo	5/49	10.2

Table 13 shows the proportion of patients with changes in total cholesterol (fasting/nonfasting) and fasting triglycerides (median exposure 57 days) and HDL cholesterol (median exposure 57 days) from two placebo-controlled trials in pediatric patients (6 to 18 years) with Tourette's Disorder.

Table 13: Changes in Blood Lipid Parameters From Placebo-Controlled Trials in Pediatric Patients with Tourette's Disorder

	Treatment Arm	n/N	%
Total Cholesterol	Aripiprazole	1/85	1.2
Normal to High (<170 mg/dL to ≥200 mg/dL)	Placebo	0/46	0
Fasting Triglycerides	Aripiprazole	5/94	5.3
Normal to High (<150 mg/dL to ≥200 mg/dL)	Placebo	2/55	3.6
HDL Cholesterol	Aripiprazole	4/108	3.7
Normal to Low (≥40 mg/dL)	Placebo	2/67	3

Weight Gain

Weight gain has been observed with atypical antipsychotic use. Clinical monitoring of weight is recommended.

Adults

In an analysis of 13 placebo-controlled monotherapy trials, primarily from pooled schizophrenia and another indication, with a median exposure of 21 to 25 days, the mean change in body weight in aripiprazole-treated patients was +0.3 kg (N=1,673) compared to -0.1 kg (N=1,100) in placebo-controlled patients. At 24 weeks, the mean change from baseline in body weight in aripiprazole-treated patients was -1.5 kg (n=73) compared to -0.2 kg (n=46) in placebo-treated patients.

Table 14 shows the percentage of adult patients with weight gain ${\ge}7\%$ of body weight by indication.

Table 14: Percentage of Patients From Placebo-Controlled Trials in Adult Patients with Weight Gain ≥7% of Body Weight

	Indication	Treatment Arm	N	Patientsn (%)
Weight gain ≥ 7% ofbody	Schizophrenia*	Aripiprazole	852	69 (8.1)
weight	Schizophrenia	Placebo	379	12 (3.2)
		Placebo	598	16(2.7)
	Other	Aripiprazole	719	16 (2.2)
	Indication [‡]	Placebo	598	16 (2.7)
*4 to 6 weeks duration. †3 weeks	duration.	•		•

Pediatric Patients and Adolescents

In an analysis of two placebo-controlled trials in adolescents with schizophrenia (13 to 17 years) and pediatric patients with another indication (10 to 17 years) with median exposure of 42 to 43 days, the mean change in body weight in aripiprazole-treated patients was +1.6 kg (N=381) compared to +0.3 kg (N=187) in placebo-treated patients. At 24 weeks, the mean change from baseline in body weight in aripiprazole-treated patients was +5.8 kg (n=62) compared to +1.4 kg (n=13) in placebo-treated patients

In two short-term, placebo-controlled trials in patients (6 to 17 years) with irritability associated with autistic disorder with median exposure of 56 days, the mean change in body weight in aripiprazole-treated patients was +1.6 kg (n=209) compared to +0.4 kg (n=98) in placebo-treated patients.

In two short-term, placebo-controlled trials in patients (6 to 18 years) with Tourette's Disorder with median exposure of 57 days, the mean change in body weight in aripiprazole-treated patients was +1.5 kg (n=105) compared to +0.4 kg (n=66) in placebo-treated patients.

Table 15 shows the percentage of pediatric and adolescent patients with weight gain \geq 7% of body weight by indication.

Table 15: Percentage of Patients From Placebo-Controlled Monotherapy Trials in Pediatric and Adolescent Patients with Weight Gain ≥7% of Body Weight

	Indication	Treatment Arm	N	Patientsn (%)		
Weight gain ≥ 7%	Pooled Schizophrenia and Other	Aripiprazole	381	20 (5.2)		
ofbody weight	Indication*	Placebo	187	3 (1.6)		
		Aripiprazole	209	55 (26.3)		
	Autistic Disorder [†]	Placebo	98	7 (7.1)		
	Tourette's Disorder‡	Aripiprazole	105	21 (20)		
	Tourette's Disorder+	Placebo	66	5 (7.6)		
*4 to 6 weeks duration. †	*4 to 6 weeks duration. † 8 weeks duration. ‡ 8 to 10 weeks duration.					

In an open-label trial that enrolled patients from the two placebo-controlled trials of adolescents with schizophrenia (13 to 17 years) and pediatric patients with another indication (10 to 17 years), 73.2% of patients (238/325) completed 26 weeks of therapy with aripiprazole. After 26 weeks, 32.8% of patients gained ≥7% of their body weight, not adjusted for normal growth. To adjust for normal growth, z-scores were derived (measured in standard deviations [SD]), which normalize for the natural growth of pediatric patients and adolescents by comparisons to age- and gender-matched population standards. A z-score change <0.5 SD is considered not clinically significant. After 26 weeks, the mean change in z-score was 0.09 SD.

In an open-label trial that enrolled patients from two short-term, placebo-controlled trials, patients (6 to 17 years) with irritability associated with autistic disorder, as well as de novo patients, 60.3% (199/330) completed one year of therapy with aripiprazole. The mean change in weight z-score was 0.26 SDs for patients receiving >9 months of treatment.

When treating pediatric patients for any indication, weight gain should be monitored and assessed against that expected for normal growth.

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

5.7 Pathological Gambling and Other Compulsive Behaviors

Post-marketing case reports suggest that patients can experience intense urges, particularly for gambling, and the inability to control these urges while taking aripiprazole. Other compulsive urges, reported less frequently, include: sexual urges, shopping, eating or binge eating, and other impulsive or compulsive behaviors. Because patients may not recognize these behaviors as abnormal, it is important for prescribers to ask patients or their caregivers specifically about the development of new or intense gambling urges, compulsive sexual urges, compulsive shopping, binge or compulsive eating, or other urges while being treated with aripiprazole. It should be noted that impulse-control symptoms can be associated with the underlying disorder. In some cases, although not all, urges were reported to have stopped when the dose was reduced or the medication was discontinued. Compulsive behaviors may result in harm to the patient and others if not recognized. Consider dose reduction or stopping the medication if a patient develops such urges.

5.8 Orthostatic Hypotension

Aripiprazole may cause orthostatic hypotension, perhaps due to its α_1 -adrenergic receptor antagonism. The incidence of orthostatic hypotension-associated events from short-term, placebo-controlled trials of adult patients on oral aripiprazole (n=2467) included (aripiprazole incidence, placebo incidence) orthostatic hypotension (1%, 0.3%), postural dizziness (0.5%, 0.3%), and syncope (0.5%, 0.4%); of pediatric patients 6 to 18 years of age (n=732) on oral aripiprazole included orthostatic hypotension (0.5%, 0%), postural dizziness (0.4%, 0%), and syncope (0.2%, 0%) [see Adverse Reactions (6.1)].

The incidence of a significant orthostatic change in blood pressure (defined as a decrease in systolic blood pressure ≥ 20 mmHg accompanied by an increase in heart rate ≥ 25 bpm when comparing standing to supine values) for aripiprazole was not meaningfully different from placebo (aripiprazole incidence, placebo incidence): in adult oral aripiprazole-treated patients (4%, 2%), in pediatric oral aripiprazole-treated patients aged 6 to 18 years (0.4%, 1%).

Aripiprazole should be used with caution in patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease, or conditions which would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications) [see Drug Interactions (7.1)].

Antipsychotics, including aripiprazole, may cause somnolence, postural hypotension, motor and sensory instability, which may lead to falls and, consequently, fractures or other injuries. For patients with diseases, conditions, or medications that could exacerbate these effects, complete fall risk assessments when initiating antipsychotic treatment and recurrently for patients on long-term antipsychotic therapy.

5.10 Leukopenia, Neutropenia, and Agranulocytosis

In clinical trials and/or postmarketing experience, events of leukopenia and neutropenia have been reported temporally related to antipsychotic agents, including aripiprazole. Agranulocytosis has also been reported.

Possible risk factors for leukopenia/neutropenia include pre-existing low white blood cell count (WBC)/absolute neutrophil count (ANC) and history of drug-induced leukopenia/neutropenia. In patients with a history of a clinically significant low WBC/ANC or drug-induced leukopenia/neutropenia, perform a complete blood count (CBC) frequently during the first few months of therapy. In such patients, consider discontinuation of aripiprazole at the first sign of a clinically significant decline in WBC in the absence of other causative factors.

Monitor patients with clinically significant neutropenia for fever or other symptoms or signs of infection and treat promptly if such symptoms or signs occur. Discontinue aripiprazole in patients with severe neutropenia (absolute neutrophil count $<1,000/\text{mm}^3$) and follow their WBC counts until recovery.

In short-term, placebo-controlled trials, patients with a history of seizures excluded seizures/convulsions occurred in 0.1% (3/2,467) of undiagnosed adult patients treated with oral aripiprazole, in 0.1% (1/732) of pediatric patients (6 to 18 years).

As with other antipsychotic drugs, aripiprazole should be used cautiously in patients with a history of seizures or with conditions that lower the seizure threshold. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older.

5.12 Potential for Cognitive and Motor Impairment

Aripiprazole, like other antipsychotics, may have the potential to impair judgment, thinking, or motor skills. For example, in short-term, placebo-controlled trials, somnolence (including sedation) was reported as follows (aripiprazole incidence, placebo incidence): in adult patients (n=2,467) treated with oral aripiprazole (11%, 6%), in pediatric patients ages 6 to 17 (n=611) (24%, 6%). Somnolence (including sedation) led to discontinuation in 0.3% (8/2,467) of adult patients and 3% (20/732) of pediatric patients (6 to 18 years) on oral aripiprazole in short-term, placebo-controlled trials

Despite the relatively modest increased incidence of these events compared to placebo, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that therapy with aripiprazole does not affect them adversely

5.13 Body Temperature Regulation

Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing aripiprazole for patients who will be experiencing conditions which may contribute to an elevation in core body temperature, (e.g., exercising strenuously, exposure to extreme heat, receiving concomitant medication with anticholinergic activity, or being subject to dehydration) [see Adverse Reactions (6.2)].

5.14 Suicide

The possibility of a suicide attempt is inherent in psychotic illnesses, and close supervision of high-risk patients should accompany drug therapy. Prescriptions for aripiprazole should be written for the smallest quantity consistent with good patient management in order to reduce the risk of overdose [see Adverse Reactions (6.1, 6.2)].

5.15 Dysphagia

Esophageal dysmotility and aspiration have been associated with antipsychotic drug use, including aripiprazole. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia. Aripiprazole and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia [see Warnings and Precautions (5.1) and Adverse Reactions (6.2)1.

6 ADVERSE REACTIONS

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

The following adverse reactions are discussed in more detail in other sections of the labeling:

- Increased Mortality in Elderly Patients with Dementia-Related Psychosis [see Boxed Warning and Warnings and Precautions (5.1)]
 Cerebrovascular Adverse Events, Including Stroke [see Warnings
- and Precautions (5.2)1
- Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults [see Boxed Warning and Warnings And Precautions (5.3)]
 Neuroleptic Malignant Syndrome (NMS) [see Warnings and Precautions (5.4)]

- Tardive Dyskinesia [see Warnings and Precautions (5.5)]
 Metabolic Changes [see Warnings and Precautions (5.6)]
 Pathological Gambling and Other Compulsive Behaviors [see Warnings and Precautions (5.7)1
- Orthostatic Hypotension [see Warnings and Precautions (5.8)]
- Falls [see Warnings and Precautions (5.9)]
- Leukopenia, Neutropenia, and Agranulocytosis [see Warnings and Precautions (5.10)]
- Seizures/Convulsions [see Warnings and Precautions (5.11)]
 Potential for Cognitive and Motor Impairment [see Warnings and Precautions (5.12)]
- Body Temperature Regulation [see Warnings and Precautions (5.13)]
- Suicide [see Warnings and Precautions (5.14)]
- Dysphagia [see Warnings and Precautions (5.15)]

The most common adverse reactions in adult patients in clinical trials (\geq 10%) were nausea, vomiting, constipation, headache, dizziness, akathisia, anxiety, insomnia, and restlessness.

The most common adverse reactions in the pediatric clinical trials (≥10%) were somnolence, headache, vomiting, extrapyramidal disorder, fatigue, increased appetite, insomnia, nausea, nasopharyngitis, and weight increased.

Aripiprazole has been evaluated for safety in 13,543 adult patients who participated in multiple-dose, clinical trials in schizophrenia, other indications, Dementia of the Alzheimer's type, Parkinson's disease, and alcoholism, and who had approximately 7619 patient-years of exposure to oral aripiprazole. A total of 3390 patients were treated with oral aripiprazole for at least 180 days and 1933 patients treated with oral aripiprazole had at least 1 year of exposure.

Aripiprazole has been evaluated for safety in 1,686 patients (6 to 18 years) who

participated in multiple-dose, clinical trials in schizophrenia, other indications, autistic disorder, or Tourette's disorder and who had approximately 1,342 patient-years of exposure to oral aripiprazole. A total of 959 pediatric patients were treated with oral aripiprazole for at least 180 days and 556 pediatric patients treated with oral aripiprazole had at least 1 year of exposure.

The conditions and duration of treatment with aripiprazole included (in overlapping categories) double-blind, comparative and noncomparative open-label studies, inpatient and outpatient studies, fixed- and flexible-dose studies, and short- and longer-term exposure.

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

6.1 Clinical Trials Experience

Adult Patients with Schizophrenia

The following findings are based on a pool of five placebo-controlled trials (four 4-week and one 6-week) in which oral aripiprazole was administered in doses ranging from 2 to 30 mg/day.

Commonly Observed Adverse Reactions

The only commonly observed adverse reaction associated with the use of aripiprazole in patients with schizophrenia (incidence of 5% or greater and aripiprazole incidence at least twice that for placebo) was akathisia (aripiprazole 8%; placebo 4%).

Less Common Adverse Reactions in Adults

Table 17 enumerates the pooled incidence, rounded to the nearest percent, of adverse reactions that occurred during acute therapy (up to 6 weeks in schizophrenia and up to 3 weeks in another indication), including only those reactions that occurred in 2% or more of patients treated with aripiprazole (doses ≥ 2 mg/day) and for which the incidence in patients treated with aripiprazole was greater than the incidence in patients treated with placebo in the combined dataset.

Table 17: Adverse Reactions in Short-Term, Placebo-Controlled Trials in Adult Patients Treated with Oral Aripiprazole

Aripiprazole(n=1843) Placebo (n=116	System Organ		ntage of Patient	ts
Eye Disorders Blurred Vision 3 1 Gastrointestinal Disorders Nausea 15 11 Constipation 11 7 Vomiting 11 6 Dyspepsia 9 7 Dry Mouth 5 4 Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 Stomach Discomfort 3 2 Fatigue 6 4 2 Pain 2 Conditions 2 Fatigue 6 4 2 Pain in Extremity 4 2 Musculoskeletal and Connective Tissue Disorders 3 2 Musculoskeletal Stiffness 4 3 Musculoskeletal Stiffness 4 3 Musculoskeletal Stiffness 4 2 Musculoskeletal Stiffness 2 1 Merous System Disorders 27 23 <t< th=""><th>Class Preferred Term</th><th></th><th></th><th>Placebo (n=1166)</th></t<>	Class Preferred Term			Placebo (n=1166)
Gastrointestinal Disorders Nausea 15 11 Constipation 11 7 Vomiting 11 6 Dyspepsia 9 7 Dry Mouth 5 4 Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 General Disorders and Administration Site Conditions 6 4 Fatigue 6 4 Pain 3 2 Musculoskeletal and Connective Tissue Disorders Musculoskeletal Stiffness 4 3 Musculoskeletal Stiffness 4 3 3 Pain in Extremity 4 2 4 Myalgia 2 1 4 Musculoskeletal Stiffness 2 1 4 Plaziness 2 1 2 Nervous System Disorders 2 1 2 Nervous System Disorders 2 7 2 Headache <th>Eve Disorders Blurred Vision</th> <th></th> <th> uzoic(-1045)</th> <th></th>	Eve Disorders Blurred Vision		uzoic(-1045)	
Constipation		_		=
Vomiting 11 6 Dyspepsia 9 7 Dry Mouth 5 4 Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 General Disorders and Administration Site Conditions 4 Fatigue 6 4 Pain 3 2 Musculoskeletal and Connective Tissue Disorders 4 Musculoskeletal Stiffness 4 3 Pain in Extremity 4 2 Myalgia 2 1 Muscle Spasms 2 1 Nervous System Disorders 27 23 Headache 10 7 Dizziness 10 7 Akathisia 10 4 Sedation 7 4 Extrapyramidal Disorder 5 3 Tremor 5 3 Somnolence 5 3 Psychiatric Disorders Agitation 19	Nausea	15		11
Vomiting 11 6 Dyspepsia 9 7 Dry Mouth 5 4 Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 General Disorders and Administration Site Conditions Fatigue 6 4 Pain 3 2 Musculoskeletal and Connective Tissue Disorders Musculoskeletal Stiffness 4 3 2 Musculoskeletal Stiffness 4 3 3 Pain in Extremity 4 2 4 Myalgia 2 1 1 Muscle Spasms 2 1 1 Nervous System Disorders 27 23 Headache 10 7 4 Dizziness 10 7 4 Kathisia 10 4 5 Sedation 7 4 5 Tremor 5 3 3 Somnolence 5 <td>Constipation</td> <td>11</td> <td></td> <td>7</td>	Constipation	11		7
Dyspepsia 9 7 Dry Mouth 5 4 Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 General Disorders and Administration Site Conditions 4 Fatigue 6 4 Pain 3 2 Musculoskeletal and Connective Tissue Disorders Wisculoskeletal Stiffness 4 Wasculoskeletal Stiffness 4 3 Pain in Extremity 4 2 Myaslgia 2 1 Muscle Spasms 2 1 Nervous System Disorders 27 23 Nervous System Disorders 10 7 Headache 10 4 Dizziness 10 7 Akathisia 10 4 Sedation 7 4 Extrapyramidal Disorder 5 3 Tremor 5 3 Somnolence 5 3 Psy		11		6
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Toothache 4 3 Abdominal Discomfort 3 2 Stomach Discomfort 3 2 General Disorders and Administration Site Conditions 4 Fatigue 6 4 Pain 2 2 Musculoskeletal and Connective Tissue Disorders Wisculoskeletal Stiffness 4 Pain in Extremity 4 2 Myalgia 2 1 Muscele Spasms 2 1 Nervous System Disorders 27 23 Headache 7 23 Dizziness 10 7 Akathisia 10 4 Sedation 7 4 Extrapyramidal Disorder 5 3 Tremor 5 3 Somnolence 5 3 Psychiatric Disorders Agitation 19 17 Insomnia 18 13 Anxiety 17 13 Restlessness 8 3 Respira	Dry Mouth	5		4
Stomach Discomfort 3 2 General Disorders and Administration Site Conditions 4 Fatigue 6 4 Pain 3 2 Musculoskeletal and Connective Tissue Disorders Wisculoskeletal Stiffness 4 3 Musculoskeletal Stiffness 4 3 2 Pain in Extremity 4 2 Myalgia 2 1 1 Merous System Disorders 2 1 2 Nervous System Disorders 10 7 23 Headache 10 7 4 2 Nakathisia 10 4 2 2 Sedation 7 4 2 2 3		4	3	
General Disorders and Administration Site Conditions Fatigue	Abdominal Discomfort	3	2	
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Restlessness 5 3 Respiratory, Thoracic, and Mediastinal Disorders Pharyngolaryngeal Pain 3 2				
Respiratory, Thoracic, and Mediastinal Disorders Pharyngolaryngeal Pain 3 2	Anxiety		13	
Pharyngolaryngeal Pain 3 2		-	_	
Cough 3 2 *Adverse reactions reported by at least 2% of patients treated with oral aripiprazole.		-	_	

^{*}Adverse reactions reported by at least 2% of patients treated with oral aripiprazole, except adverse reactions which had an incidence equal to or less than placebo.

An examination of population subgroups did not reveal any clear evidence of differential adverse reaction incidence on the basis of age, gender, or race.

Pediatric Patients (13 to 17 years) with Schizophrenia

The following findings are based on one 6-week, placebo-controlled trial in which oral aripiprazole was administered in doses ranging from 2 to 30 mg/day.

${\it Adverse Reactions Associated with Discontinuation of Treatment}$

The incidence of discontinuation due to adverse reactions between aripiprazole-treated and placebo-treated pediatric patients (13 to 17 years) was 5% and 2%, respectively.

Commonly Observed Adverse Reactions

Commonly observed adverse reactions associated with the use of aripiprazole in adolescent patients with schizophrenia (incidence of 5% or greater and aripiprazole incidence at least twice that for placebo) were extrapyramidal disorder, somnolence, and tremor.

Pediatric Patients (6 to 17 years) with Autistic Disorder

The following findings are based on two 8-week, placebo-controlled trials in which oral aripiprazole tablets was administered in doses of 2 to 15 mg/day.

Adverse Reactions Associated with Discontinuation of Treatment

The incidence of discontinuation due to adverse reactions between aripiprazole-treated and placebo-treated pediatric patients (6 to 17 years) was 10% and 8%, respectively.

Commonly Observed Adverse Reactions

^{*} Adverse reactions reported by at least 2% of patients treated with oral aripiprazole, except adverse reactions which had an incidence equal to or less than placebo.

Commonly observed adverse reactions associated with the use of aripiprazole tablets in pediatric patients with autistic disorder (incidence of 5% or greater and aripiprazole incidence at least twice that for placebo) are shown in Table 20.

Table 20: Commonly Observed Adverse Reactions in Short-Term, Placebo-Controlled Trials of Pediatric Patients (6 to 17 years) with Autistic Disorder Treated with Oral Aripiprazole

Preferred Term	Percentage of Patients Reporting Reaction		
Preferred Term	Aripiprazole(n=212)	Placebo (n=101)	
Sedation	21	4	
Fatigue	17	2	
Vomiting	14	7	
Somnolence	10	4	
Tremor	10	0	
Pyrexia	9	1	
Drooling	9	0	
Decreased Appetite	7	2	
Salivary Hypersecretion	6	1	
Extrapyramidal Disorder	6	0	
Lethargy	5	0	

Pediatric Patients (6 to 18 years) with Tourette's Disorder

The following findings are based on one 8-week and one 10-week, placebo-controlled trials in which oral aripiprazole tablets was administered in doses of 2 to 20 mg/day.

Adverse Reactions Associated with Discontinuation of Treatment

The incidence of discontinuation due to adverse reactions between aripiprazole-treated and placebo-treated pediatric patients (6 to 18 years) was 7% and 1%, respectively.

Commonly Observed Adverse Reactions

Commonly observed adverse reactions associated with the use of aripiprazole tablets in pediatric patients with Tourette's disorder (incidence of 5% or greater and aripiprazole incidence at least twice that for placebo) are shown in Table 21.

Table 21: Commonly Observed Adverse Reactions in Short-Term, Placebo-Controlled Trials of Pediatric Patients (6 to 18 years) with Tourette's Disorder Treated with Oral Aripiprazole

Preferred Term	Percentage of Patients Reporting Reaction		
Freieneu Teim	Aripiprazole(n=121)	Placebo (n=72)	
Sedation	13	6	
Somnolence	13	1	
Nausea	11	4	
Headache	10	3	
Nasopharyngitis	9	0	
Fatigue	8	0	
Increased Appetite	7	1	

<u>Less Common Adverse Reactions in Pediatric Patients (6 to 18 years) with Schizophrenia, Autistic Disorder, Tourette's Disorder or Other Indications</u>

Table 22 enumerates the pooled incidence, rounded to the nearest percent, of adverse reactions that occurred during acute therapy (up to 6 weeks in schizophrenia, up to 4 weeks in one indication, up to 8 weeks in autistic disorder, and up to 10 weeks in Tourette's disorder, including only those receiptors that occurred

disorder), including only those reactions that occurred in 2% or more of pediatric patients treated with aripiprazole (doses ≥2 mg/day) and for which the incidence in patients treated with aripiprazole was greater than the incidence in patients treated with placebo.

Table 22: Adverse Reactions in Short-Term, Placebo-Controlled Trials of Pediatric Patients (6 to 18 years) Treated with Oral Aripiprazole

System Organ ClassPreferred	Percentage of Patien Reaction*	ts Reporting
Term	Aripiprazole(n=732)	Placebo(n=370)
Eye Disorders		•
Blurred Vision	3	0
Gastrointestinal Disorders		
Abdominal Discomfort	2	1
Vomiting	8	7
Nausea	8	4
Diarrhea	4	3
Salivary Hypersecretion	4	1
Abdominal Pain Upper	3	2
Constipation	2	2
General Disorders and Administr	ation Site Conditions	
Fatigue	10	2
Pyrexia	4	1
Irritability	2	1
Asthenia	2	1
Infections and Infestations		
Nasopharyngitis	6	3
Investigations		
Weight Increased	3	1
Metabolism and Nutrition Disord	ers	
Increased Appetite	7	3
Decreased Appetite	5	4
Musculoskeletal and Connective	Tissue Disorders	
Musculoskeletal Stiffness	2	1
Muscle Rigidity	2	1
Nervous System Disorders		
Somnolence	16	4
Headache	12	10
Sedation	9	2
Tremor	9	1
Extrapyramidal Disorder	6	1
Akathisia	6	4
Drooling	3	0
Lethargy	3	0
Dizziness	3	2
Dystonia	2	1
Respiratory, Thoracic, and Media	astinal Disorders	1
Epistaxis	2	1
Skin and Subcutaneous Tissue D	isorders	

*Adverse reactions reported by at least 2% of pediatric patients treated with oral aripiprazole, except adverse reactions which had an incidence equal to or less than

Dose-Related Adverse Reactions

Dose response relationships for the incidence of treatment-emergent adverse events were evaluated from four trials in adult patients with schizophrenia comparing various fixed doses (2, 5, 10, 15, 20, and 30 mg/day) of oral aripiprazole to placebo. This analysis, stratified by study, indicated that the only adverse reaction to have a possible dose response relationship, and then most prominent only with 30 mg, was somnolence [including sedation]; (incidences were placebo, 7.1%; 10 mg, 8.5%; 15 mg, 8.7%; 20 mg, 7.5%; 30 mg, 12.6%).

In the study of pediatric patients (13 to 17 years of age) with schizophrenia, three common adverse reactions appeared to have a possible dose response relationship: extrapyramidal disorder (incidences were placebo, 5.0%; 10 mg, 13.0%; 30 mg, 21.6%); somnolence (incidences were placebo, 6.0%; 10 mg, 11.0%; 30 mg, 21.6%); and tremor (incidences were placebo, 2.0%; 10 mg, 2.0%; 30 mg, 11.8%).

In a study of pediatric patients (6 to 17 years of age) with autistic disorder, one common adverse reaction had a possible dose response relationship: fatigue (incidences were placebo, 0%; 5 mg, 3.8%; 10 mg, 22.0%; 15 mg, 18.5%).

In a study of pediatric patients (7 to 17 years of age) with Tourette's disorder, no common adverse reaction(s) had a dose response relationship.

Extrapyramidal Symptoms

In short-term, placebo-controlled trials in schizophrenia in adults, the incidence of reported EPS-related events, excluding events related to akathisia, for aripiprazole-treated patients was 13% vs. 12% for placebo; and the incidence of akathisia-related events for aripiprazole-treated patients was 8% vs. 4% for placebo. In the short-term, placebo-controlled trial of schizophrenia in pediatric patients (13 to 17 years), the incidence of reported EPS-related events, excluding events related to akathisia, for aripiprazole-treated patients was 25% vs. 7% for placebo; and the incidence of akathisiarelated events for aripiprazole-treated patients was 9% vs. 6% for placebo.

Objectively collected data from those trials was collected on the Simpson Angus Rating Scale (for EPS), the Barnes Akathisia Scale (for akathisia), and the Assessments of Involuntary Movement Scales (for dyskinesias). In the adult schizophrenia trials, the objectively collected data did not show a difference between aripiprazole and placebo, with the exception of the Barnes Akathisia Scale (aripiprazole, 0.08; placebo, -0.05). In the pediatric (13 to 17 years) schizophrenia trial, the objectively collected data did not show a difference between aripiprazole and placebo, with the exception of the Simpson Angus Rating Scale (aripiprazole, 0.24; placebo, -0.29).

Similarly, in a long-term (26-week), placebo-controlled trial of schizophrenia in adults, objectively collected data on the Simpson Angus Rating Scale (for EPS), the Barnes Akathisia Scale (for akathisia), and the Assessments of Involuntary Movement Scales (for dyskinesias) did not show a difference between aripiprazole and placebo

In the short-term, placebo-controlled trials in autistic disorder in pediatric patients (6 to 17 years), the incidence of reported EPS-related events, excluding events related to akathisia, for aripiprazole-treated patients was 18% vs. 2% for placebo and the incidence of akathisia-related events for aripiprazole-treated patients was 3% vs. 9% for placebo.

In the pediatric (6 to 17 years) short-term autistic disorder trials, the Simpson Angus Rating Scale showed a significant difference between aripiprazole and placebo (aripiprazole, 0.1; placebo, -0.4). Changes in the Barnes Akathisia Scale and the Assessments of Involuntary Movement Scales were similar for the aripiprazole and placebo groups.

In the short-term, placebo-controlled trials in Tourette's disorder in pediatric patients (6 to 18 years), the incidence of reported EPS-related events, excluding events related to akathisia, for aripiprazole-treated patients was 7% vs. 6% for placebo and the incidence of akathisia-related events for aripiprazole-treated patients was 4% vs. 6% for placebo.

In the pediatric (6 to 18 years) short-term Tourette's disorder trials, changes in the Simpson Angus Rating Scale, Barnes Akathisia Scale and Assessments of Involuntary Movement Scale were not clinically meaningfully different for aripiprazole and placebo

Agitation Associated with Schizophrenia or Other Indication

In the placebo-controlled trials in patients with agitation associated with schizophrenia or other indication, the incidence of reported EPS-related events excluding events related to akathisia for aripiprazole-treated patients was 2% vs. 2% for placebo and the incidence of akathisia-related events for aripiprazole-treated patients was 2% vs. 0% for placebo. Objectively collected data on the Simpson Angus Rating Scale (for EPS) and the Barnes Akathisia Scale (for akathisia) for all treatment groups did not show a difference between aripiprazole and placebo.

Dystonia

Symptoms of dystonia, prolonged abnormal contractions of muscle groups, may occur in susceptible individuals during the first few days of treatment. Dystonic symptoms include: spasm of the neck muscles, sometimes progressing to tightness of the throat, swallowing difficulty, difficulty breathing, and/or protrusion of the tongue. While these symptoms can occur at low doses, they occur more frequently and with greater severity with high potency and at higher doses of first generation antipsychotic drugs. An elevated risk of acute dystonia is observed in males and younger age groups.

Additional Findings Observed in Clinical Trials

Adverse Reactions in Long-Term, Double-Blind, Placebo-Controlled Trials

The adverse reactions reported in a 26-week, double-blind trial comparing oral aripiprazole and placebo in patients with schizophrenia were generally consistent with those reported in the short-term, placebo-controlled trials, except for a higher incidence of tremor [8% (12/153) for aripiprazole vs. 2% (3/153) for placebo]. In this study, the majority of the cases of tremor were of mild intensity (8/12 mild and 4/12 moderate), occurred early in therapy (9/12 \leq 49 days), and were of limited duration (7/12 \leq 10 days). Tremor infrequently led to discontinuation (<1%) of aripiprazole. In addition, in a long-term (52 week), active-controlled study, the incidence of tremor was 5% (40/859) for aripiprazole.

Other Adverse Reactions Observed During the Premarketing Evaluation of Aripiprazole

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 1/1,000 patients; rare reactions are those occurring in fewer than 1/1,000 patients:

Adults - Oral Administration

Blood and Lymphatic System Disorders:

rare - thrombocytopenia

Cardiac Disorders:

infrequent – bradycardia, palpitations, rare – atrial flutter, cardio-respiratory arrest, atrioventricular block, atrial fibrillation, angina pectoris, myocardial ischemia, myocardial infarction, cardiopulmonary failure.

Eye Disorders:

infrequent - photophobia; rare - diplopia

Gastrointestinal Disorders:

infrequent - gastroesophageal reflux disease

General Disorders and Administration Site Conditions:

frequent - asthenia; infrequent - peripheral edema, chest pain; rare - face edema

Hepatobiliary Disorders:

rare - hepatitis, jaundice

Immune System Disorders:

rare - hypersensitivity

Injury, Poisoning, and Procedural Complications:

infrequent - fall; rare - heat stroke

Investigations:

frequent - weight decreased, infrequent - hepatic enzyme increased, blood glucose increased, blood lactate dehydrogenase increased, gamma glutamyl transferase increased; rare - blood prolactin increased, blood urea increased, blood creatinine increased, blood bilirubin increased, electrocardiogram QT prolonged, glycosylated hemoglobin increased

Metabolism and Nutrition Disorders:

frequent - anorexia; rare - hypokalemia, hyponatremia, hypoglycemia

Musculoskeletal and Connective Tissue Disorders:

 $\label{eq:continuous} \textit{infrequent} - \text{muscular weakness}, \, \text{muscle tightness}; \, \textit{rare} - \text{rhabdomyolysis}, \, \text{mobility decreased}$

Nervous System Disorders:

infrequent - parkinsonism, memory impairment, cogwheel rigidity, hypokinesia, bradykinesia; rare - akinesia, myocionus, coordination abnormal, speech disorder, Grand Mal convulsion; 21/10,000 patients - choreoathetosis

Psychiatric Disorders:

infrequent- aggression, loss of libido, delirium; rare- libido increased, anorgasmia, tic, homicidal ideation, catatonia, sleep walking

Renal and Urinary Disorders:

rare - urinary retention, nocturia

Reproductive System and Breast Disorders:

infrequent - erectile dysfunction; rare - gynaecomastia, menstruation irregular, amenorrhea, breast pain, priapism

Respiratory, Thoracic, and Mediastinal Disorders:

infrequent - nasal congestion, dyspnea

Skin and Subcutaneous Tissue Disorders:

<code>infrequent</code> - rash, hyperhidrosis, pruritus, photosensitivity reaction, alopecia; <code>rare</code> - urticaria

Vascular Disorders:

infrequent - hypotension, hypertension

Pediatric Patients - Oral Administration

Most adverse events observed in the pooled database of 1,686 pediatric patients, aged 6 to 18 years, were also observed in the adult population. Additional adverse reactions observed in the pediatric population are listed below.

Eve Disorders

infrequent - oculogyric crisis

Gastrointestinal Disorders:

 $\it infrequent$ -tongue dry, tongue spasm

Investigations:

frequent - blood insulin increased

Nervous System Disorders:

infrequent - sleep talking

Renal and Urinary Disorders:

frequent - enuresi

Skin and Subcutaneous Tissue Disorders:

infrequent - hirsutism

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of aripiprazole. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to establish a causal relationship to drug exposure: occurrences of allergic reaction (anaphylactic reaction, angioedema, laryngospasm, pruritus/urticaria, or oropharyngeal spasm), pathological gambling, hiccups, blood glucose fluctuation, oculogyric crisis, and drug reaction with eosinophilia and systemic symptoms (DRESS).

7 DRUG INTERACTIONS

7.1 Drugs Having Clinically Important Interactions with Aripiprazole

Table 25: Clinically Important Drug Interactions with Aripiprazole:

Concomitant Drug Name or Drug Class	Clinical Rationale	Clinical Recommendation
Strong CYP3A4 Inhibitors (e.g., itraconazole, clarithromycin) or strong CYP2D6 inhibitors (e.g., quinidine, fluoxetine, paroxetine)	The concomitant use of aripiprazole with strong CYP3A4 or CYP2D6 inhibitors increased the exposure of aripiprazole compared to the use of aripiprazole alone [see Clinical Pharmacology (12.3)].	With concomitant us of aripiprazole with a strong CYP3A4 inhibitor or CYP2D6 inhibitor, reduce the aripiprazole dosage [see Dosage and Administration (2.7]]. With concomitant us of aripiprazole with a strong CYP3A4 inducer, consider increasing the aripiprazole dosage [see Dosage and Administration (2.7)]. Monitor blood pressure and adjust dose accordingly [see Warnings and Precautions (5.8)].
Strong CYP3A4 Inducers (e.g., carbamazepine, rifampin)	The concomitant use of aripiprazole and carbamazepine decreased the exposure of aripiprazole compared to the use of aripiprazole alone [see Clinical Pharmacology (12.3)].	
Antihypertensive Drugs	Due to its alpha adrenergic antagonism, aripiprazole has the potential to enhance the effect of certain antihypertensive agents.	
Benzodiazepines(e.g. lorazepam)	The intensity of sedation was greater with the combination of oral aripiprazole and lorazepam as compared to that observed with aripiprazole alone. The orthostatic hypotension observed was greater with the combination as compared to that observed with lorazepam alone [see Warnings and Precautions (5.8)].	Monitor sedation and blood pressure.

7.2 Drugs Having No Clinically Important Interactions with Aripiprazok

Based on pharmacokinetic studies, no dosage adjustment of aripiprazole is required when administered concomitantly with famotidine, valproate, lithium, lorazepam.

In addition, no dosage adjustment is necessary for substrates of CYP2D6 (e.g., dextromethorphan, fluoxetine, paroxetine, or venlafaxine), CYP2C9 (e.g., warfarin), CYP2C19 (e.g., omeprazole, warfarin, escitalopram), or CYP3A4 (e.g., dextromethorphan) when co-administered with aripiprazole. Additionally, no dosage adjustment is necessary for valproate, lithium, lamotrigine, lorazepam, or sertraline when co-administered with aripiprazole. *[see Clinical Pharmacology (12.3)]*.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to atypical antipsychotics, including aripiprazole, during pregnancy. Healthcare providers are encouraged to register patients by contacting the National Pregnancy Registry for Atypical Antipsychotics at 1-866-961-2388 or visit http://womensmentalhealth.org/clinical-and-researchprograms/pregnancyregistry/.

Risk Summary

Neonates exposed to antipsychotic drugs, including aripiprazole, during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms following delivery (see Clinical Considerations). Overall available data from published epidemiologic studies of pregnant women exposed to aripiprazole have not established a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes (see Data). There are risks to the mother associated with untreated schizophrenia, other indication and with exposure to antipsychotics, including aripiprazole, during pregnancy (see Clinical Considerations).

In animal reproduction studies, oral and intravenous aripiprazole administration during organogenesis in rats and/or rabbits at doses 10 and 19 times, respectively, the maximum recommended human dose (MRHD) of 30 mg/day based on mg/m² body surface area, produced fetal death, decreased fetal weight, undescended testicles, delayed skeletal ossification, skeletal abnormalities, and diaphragmatic hernia. Oral and intravenous aripiprazole administration during the pre- and post-natal period in rats at doses 10 times the MRHD based on mg/m² body surface area, produced prolonged gestation, stillbirths, decreased pup weight, and decreased pup survival (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

There is a risk to the mother from untreated schizophrenia other indication, including increased risk of relapse, hospitalization, and suicide. Schizophrenia and other indication are associated with increased adverse perinatal outcomes, including preterm birth. It is not known if this is a direct result of the illness or other comorbid factors.

A prospective, longitudinal study followed 201 pregnant women with a history of other indication who were euthymic and taking antidepressants at the beginning of pregnancy.

The women who discontinued antidepressants during pregnancy were more likely to experience a relapse of major depression than women who continued antidepressants. Consider the risk of untreated depression when discontinuing or changing treatment with antidepressant medication during pregnancy and postpartum.

Fetal/Neonatal Adverse Reactions

Extrapyramidal and/or withdrawal symptoms, including agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, and feeding disorder have been reported in neonates who were exposed to antipsychotic drugs (including aripiprazole) during the third trimester of pregnancy. These symptoms have varied in severity. Monitor neonates for extrapyramidal and/or withdrawal symptoms, and manage symptoms appropriately. Some neonates recovered within hours or days without specific treatment; others required prolonged hospitalization.

Data

Human Data

Published data from observational studies, birth registries, and case reports on the use of atypical antipsychotics during pregnancy do not report a clear association with antipsychotics and major birth defects. A retrospective study from a Medicaid database of 9258 women exposed to antipsychotics during pregnancy did not indicate an overall increased risk for major birth defects.

Animal Data

In animal studies, aripiprazole demonstrated developmental toxicity, including possible teratogenic effects in rats and rabbits.

In pregnant rats treated orally with aripiprazole during organogenesis at doses of 3, 10, and 30 mg/kg/day, which are approximately 1, 3 and 10 times the MRHD of 30 mg/day based on mg/m² body surface area, a slight prolongation of gestation and delay in fetal development, as evidenced by decreased fetal weight and undescended testes, were observed at 10 times the MRHD. Delayed skeletal ossification was observed at 3 and 10 times the MRHD. Delivered offspring had increased incidences of hepatodiaphragmatic nodules and diaphragmatic hernia were observed at 10 times the MRHD (the other dose groups were not examined for these findings). Postnatally, delayed vaginal opening was seen at 3 and 10 times the MRHD. Impaired reproductive performance (decreased fertility rate, corpora lutea, implants, live fetuses, and increased post-implantation loss, likely mediated through effects on female offspring) were observed at 10 times the MRHD; however, there was no evidence to suggest that these developmental effects were secondary to maternal toxicity.

In pregnant rats injected intravenously with aripiprazole during organogenesis at doses of 3 mg/kg/day, 9 mg/kg/day, and 27 mg/kg/day, which are 1, 3, and 9 times the MRHD of 30 mg/day based on mg/m² body surface area, decreased fetal weight and delayed skeletal ossification were observed at 9 times the MRHD; this dose also caused maternal toxicity.

In pregnant rabbits treated or ally with arripiprazole during organogenesis at doses of 10, 30, and 100 mg/kg/day which are 6, 19, and 65 times the MRHD of 30 mg/day based on mg/m² body surface area, decreased maternal food consumption, and increased abortions as well as increased fetal mortality were observed at 65 times the MHRD. Decreased fetal weight and increased incidence of fused sternebrae were observed at 19 and 65 times the MRHD.

In pregnant rabbits injected intravenously with aripiprazole during organogenesis at doses of 3 mg/kg/day, 10 mg/kg/day, and 30 mg/kg/day, which are 2, 6, and 19 times the MRHD of 30 mg/day based on mg/m² body surface area, decreased fetal weight, increased fetal abnormalities (primarily skeletal), and decreased fetal skeletal ossification were observed at 19 times the MRHD; this dose also caused maternal toxicity. The fetal no-effect dose was 10 mg/kg/day, which is 6 times the MRHD.

In rats treated orally with aripiprazole peri- and post-natally from gestation day 17 through postpartum day 21 at doses of 3, 10, and 30 mg/kg/day which are 1, 3, and 10 times the MRHD of 30 mg/day based on mg/m² body surface area slight maternal toxicity and slightly prolonged gestation were observed at 10 times the MHRD. An increase in stillbirths and, decreases in pup weight (persisting into adulthood) and survival were also seen at this dose.

In rats injected intravenously with aripiprazole from gestation day 6 through lactation day 20 at doses of 3 mg/kg/day, 8 mg/kg/day, and 20 mg/kg/day, which are 1, 3, and 6 times the MRHD of 30 mg/day based on mg/m² body surface area, increased stillbirths were observed at 3 and 6 times the MRHD; and decreases in early postnatal pup weight and survival were observed at 6 times the MRHD; these doses also caused some maternal toxicity. There were no effects on postnatal behavioral and reproductive development.

8.2 Lactation

Risk Summary

Limited data from published literature report the presence of aripiprazole in human breast milk, at relative infant doses ranging between 0.7% to 8.3% of the maternal weight-adjusted dosage. There are reports of poor weight gain in breastfed infants exposed to aripiprazole and reports of inadequate milk supply in lactating women taking aripinrazole

The development and health benefits of breastfeeding should be considered along with the mother's clinical need for aripiprazole and any potential adverse effects on the breastfed infant from aripiprazole or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients with agitation associated with schizophrenia or other indication have not been established.

The pharmacokinetics of aripiprazole and dehydro-aripiprazole in pediatric patients, 10 to 17 years of age, were similar to those in adults after correcting for the differences in body weight [see Clinical Pharmacology (12.3)].

Schizophrenia

Safety and effectiveness in pediatric patients with schizophrenia were established in a 6-week, placebo-controlled clinical trial in 202 pediatric patients aged 13 to 17 years [see Dosage and Administration (2.1), Adverse Reactions (6.1), and Clinical Studies (14.1)]. Although maintenance efficacy in pediatric patients has not been systematically evaluated, maintenance efficacy can be extrapolated from adult data along the comparisons of aripiprazole pharmacokinetic parameters in adult and pediatric patients.

Irritability Associated with Autistic Disorder

Safety and effectiveness in pediatric patients demonstrating irritability associated with autistic disorder were established in two 8-week, placebo-controlled clinical trials in 212 pediatric patients aged 6 to 17 years [see Indications and Usage (1), Dosage and Administration (2.4), Adverse Reactions (6.1), and Clinical Studies (14.4)]. A maintenance trial was conducted in pediatric patients (6 to 17 years of age) with irritability associated with autistic disorder. The first phase of this trial was an open-label, flexibly dosed (aripiprazole 2 to 15 mg/day) phase in which patients were stabilized (defined as > 25% improvement on the ABC-I subscale, and a CGI-I rating of "much improved" or "very much improved") on aripiprazole for 12 consecutive weeks. Overall, 85 patients were stabilized and entered the second, 16-week, double-blind phase where they were randomized to either continue aripiprazole treatment or switch to placebo. In this trial,

the efficacy of aripiprazole for the maintenance treatment of irritability associated with autistic disorder was not established.

Tourette's Disorder

Safety and effectiveness of aripiprazole in pediatric patients with Tourette's Disorder were established in one 8-week (aged 7 to 17) and one 10-week trial (aged 6 to 18) in 194 pediatric patients [see Dosage and Administration (2.5), Adverse Reactions (6.1), and Clinical Studies (14.5)]. Maintenance efficacy in pediatric patients has not been systematically evaluated.

Information describing a clinical study in which efficacy was not demonstrated in patients ages 6 to 17 years is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole). Additional pediatric use information in patients ages 6 to 18 years is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that pediatric information.

Juvenile Animal Studies

Aripiprazole in juvenile rats caused mortality, CNS clinical signs, impaired memory and learning, and delayed sexual maturation when administered at oral doses of 10, 20, 40 mg/kg/day from weaning (21 days old) through maturity (80 days old). At 40 mg/kg/day, mortality, decreased activity, splayed hind limbs, hunched posture, ataxia, tremors and other CNS signs were observed in both genders. In addition, delayed sexual maturation was observed in males. At all doses and in a dose-dependent manner, impaired memory and learning, increased motor activity, and histopathology changes in the pituitary (atrophy), adrenals (adrenocortical hypetrophy), mammary glands (hypetrplasia and increased secretion), and female reproductive organs (vaginal mucification, endometrial atrophy, decrease in ovarian corpora lutea) were observed. The changes in female reproductive organs were considered secondary to the increase in prolactin serum levels. A No Observed Adverse Effect Level (NOAEL) could not be determined and, at the lowest tested dose of 10 mg/kg/day, there is no safety margin relative to the systemic exposures (AUCo₂4) for aripiprazole or its major active metabolite in adolescents at the maximum recommended pediatric dose of 15 mg/day. All drug-related effects were reversible after a 2-month recovery period, and most of the drug effects in juvenile rats were also observed in adult rats from previously conducted studies.

Aripiprazole in juvenile dogs (2 months old) caused CNS clinical signs of tremors, hypoactivity, ataxia, recumbency and limited use of hind limbs when administered orally for 6 months at 3, 10, 30 mg/kg/day. Mean body weight and weight gain were decreased up to 18% in females in all drug groups relative to control values. A NOAEL could not be determined and, at the lowest tested dose of 3 mg/kg/day, there is no safety margin relative to the systemic exposures (AUC $_{0.24}$) for aripiprazole or its major active metabolite in adolescents at the maximum recommended pediatric dose of 15 mg/day. All drug-related effects were reversible after a 2-month recovery period.

8.5 Geriatric Use

No dosage adjustment is recommended for elderly patients [see Boxed Warning, Warnings and Precautions (5.1), and Clinical Pharmacology (12.3)].

Of the 13,543 patients treated with oral aripiprazole in clinical trials, 1073 (8%) were \geq 65 years old and 799 (6%) were \geq 75 years old. Placebo-controlled studies of oral aripiprazole in schizophrenia, or other indications did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. []

Aripiprazole is not approved for the treatment of patients with psychosis associated with Alzheimer's disease [see Boxed Warning and Warnings and Precautions (5.1)].

8.6 CYP2D6 Poor Metabolizers

Dosage adjustment is recommended in known CYP2D6 poor metabolizers due to high aripiprazole concentrations. Approximately 8% of Caucasians and 3-8%

of Black/African Americans cannot metabolize CYP2D6 substrates and are classified as poor metabolizers (PM) [see Dosage And Administration (2.7) and Clinical Pharmacology (12.3)].

8.7 Hepatic and Renal Impairment

No dosage adjustment for aripiprazole is required on the basis of a patient's hepatic function (mild to severe hepatic impairment, Child-Pugh score between 5 and 15), or renal function (mild to severe renal impairment, glomerular filtration rate between 15 and 90 mL/minute) [see Clinical Pharmacology (12.3)].

8.8 Other Specific Populations

No dosage adjustment for aripiprazole is required on the basis of a patient's sex, race, or smoking status [see Clinical Pharmacology (12.3)].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Aripiprazole is not a controlled substance.

9.2 Abus

Aripiprazole has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. Consequently, patients should be evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of aripiprazole misuse or abuse (e.g., development of tolerance, increases in dose, drugseeking behavior).

9.3 Dependence

In physical dependence studies in monkeys, withdrawal symptoms were observed upon abrupt cessation of dosing. While the clinical trials did not reveal any tendency for any drug-seeking behavior, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed.

10 OVERDOSAGE

MedDRA terminology has been used to classify the adverse reactions.

10.1 Human Experience

In clinical trials and in postmarketing experience, adverse reactions of deliberate or accidental overdosage with oral aripiprazole have been reported worldwide. These include overdoses with oral aripiprazole alone and in combination with other substances. No fatality was reported with aripiprazole alone. The largest known dose with a known outcome involved acute ingestion of 1260 mg of oral aripiprazole (42 times the maximum recommended daily dose) by a patient who fully recovered. Deliberate or accidental overdosage was also reported in children (age 12 and younger) involving oral aripiprazole ingestions up to 195 mg with no fatalities.

Common adverse reactions (reported in at least 5% of all overdose cases) reported with

oral aripiprazole overdosage (alone or in combination with other substances) include vomiting, somnolence, and tremor. Other clinically important signs and symptoms observed in one or more patients with aripiprazole overdoses (alone or with other substances) include acidosis, aggression, aspartate aminotransferase increased, atrial fibrillation, bradycardia, coma, confusional state, convulsion, blood creatine phosphokinase increased, depressed level of consciousness, hypertension, hypokalemia, hypotension, lethargy, loss of consciousness, QRS complex prolonged, QT prolonged, pneumonia aspiration, respiratory arrest, status epilepticus, and tachycardia.

10.2 Management of Overdosage

No specific information is available on the treatment of overdose with aripiprazole. An electrocardiogram should be obtained in case of overdosage and if QT interval prolongation is present, cardiac monitoring should be instituted. Otherwise, management of overdose should concentrate on supportive therapy, maintaining an adequate airway, oxygenation and ventilation, and management of symptoms. Close medical supervision and monitoring should continue until the patient recovers.

Charcoal: In the event of an overdose of aripiprazole, an early charcoal administration may be useful in partially preventing the absorption of aripiprazole. Administration of 50 g of activated charcoal, one hour after a single 15 mg oral dose of aripiprazole, decreased the mean AUC and C_{max} of aripiprazole by 50%.

Hemodialysis: Although there is no information on the effect of hemodialysis in treating an overdose with aripiprazole, hemodialysis is unlikely to be useful in overdose management since aripiprazole is highly bound to plasma proteins.

11 DESCRIPTION

Aripiprazole is an atypical antipsychotic drug that is available as Aripiprazole Tablets. Aripiprazole is 7-[4-[4-(2,3-dichlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydrocarbostyril. The empirical formula is $C_{23}H_{27}Cl_2N_3O_2$ and its molecular weight is 448.39. The chemical structure is:

Aripiprazole Tablets, USP are available in 2 mg, 5 mg, 10 mg, 15 mg, 20 mg, and 30 mg strengths. Inactive ingredients include croscarmellose sodium, magnesium stearate, microcrystalline cellulose, and tartaric acid. Colorants include Indigotine Aluminum Lake (FD&C Blue no. 2) (for 2 mg and 5 mg), iron oxide red (for 10 mg and 30 mg) and iron oxide yellow (for 2 mg and 15 mg).

Meets USP Dissolution Test 2

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of aripiprazole in schizophrenia or other indication, is unclear. However, the efficacy of aripiprazole in the listed indications could be mediated through a combination of partial agonist activity at D_2 and 5-HT_{1A} receptors and antagonist activity at 5-HT_{2A} receptors.

12.2 Pharmacodynamics

Aripiprazole exhibits high affinity for dopamine D₂ and D₃, serotonin 5-HT_{1A} and 5-HT_{2A} receptors

(K_i values of 0.34 nM, 0.8 nM, 1.7 nM, and 3.4 nM, respectively), moderate affinity for dopamine D₄, serotonin 5-

 H_{TZ} and 5-HT7, alpha1-adrenergic and histamine H_1 receptors (K_i values of 44 nM, 15 nM, 39 nM, 57 nM, and 61 nM, respectively), and moderate affinity for the serotonin $reuptake\ site\ (K_i=98\ nM).\ Aripiprazole\ has\ no\ appreciable\ affinity\ for\ cholinergic\ muscarinic\ receptors\ (IC_{50}>1,000\ nM).$

12.3 Pharmacokinetics

Aripiprazole activity is presumably primarily due to the parent drug, aripiprazole, and to a lesser extent, to its major metabolite, dehydro-aripiprazole, which has been shown to have affinities for D_2 receptors similar to the parent drug and represents 40% of the parent drug exposure in plasma. The mean elimination half-lives are about 75 hours and 94 hours for aripiprazole and dehydro-aripiprazole, respectively. Steady-state concentrations are attained within 14 days of dosing for both active moieties. Aripiprazole accumulation is predictable from single-dose pharmacokinetics. At steadystate, the pharmacokinetics of aripiprazole is dose-proportional. Elimination of aripiprazole is mainly through hepatic metabolism involving two P450 isozymes, CYP2D6 and CYP3A4. For CYP2D6 poor metabolizers, the mean elimination half-life for aripiprazole is about 146 hours.

Pharmacokinetic studies showed that aripiprazole orally disintegrating tablets are bioequivalent to aripiprazole tablets.

ORAL ADMINISTRATION

Absorption

Tablet: Aripiprazole is well absorbed after administration of the tablet, with peak plasma concentrations occurring within 3 hours to 5 hours; the absolute oral bioavailability of the tablet formulation is 87%. Aripiprazole tablets can be administered with or without food. Administration of a 15 mg aripiprazole tablet with a standard high-fat meal did not significantly affect the C_{max} or AUC of aripiprazole or its active metabolite, dehydroaripiprazole, but delayed T_{max} by 3 hours for aripiprazole and 12 hours for dehydro-aripiprazole.

Oral Solution: Aripiprazole is well absorbed when administered orally as the solution. At equivalent doses, the plasma concentrations of aripiprazole from the solution were higher than that from the tablet formulation. In a relative bioavailability study comparing the pharmacokinetics of 30 mg aripiprazole as the oral solution to 30 mg aripiprazole tablets in healthy subjects, the solution to tablet ratios of geometric mean $C_{\rm max}$ and AUC values were 122% and 114%, respectively [see Dosage and Administration (2.6)]. The single-dose pharmacokinetics of aripiprazole were linear and dose-proportional between the doses of 5 mg to 30 mg.

Distribution

The steady-state volume of distribution of aripiprazole following intravenous administration is high (404 L or 4.9 L/kg), indicating extensive extravascular distribution. At therapeutic concentrations, aripiprazole and its major metabolite are greater than 99% bound to serum proteins, primarily to albumin. In healthy human volunteers administered 0.5 to 30 mg/day aripiprazole for 14 days, there was dose-dependent D_2 receptor occupancy indicating brain penetration of aripiprazole in humans

Metabolism and Elimination

Aripiprazole is metabolized primarily by three biotransformation pathways:

dehydrogenation, hydroxylation, and N-dealkylation. Based on *in vitro* studies, CYP3A4 and CYP2D6 enzymes are responsible for dehydrogenation and hydroxylation of aripiprazole, and N-dealkylation is catalyzed by CYP3A4. Aripiprazole is the predominant drug moiety in the systemic circulation. At steady-state, dehydro-aripiprazole, the active metabolite, represents about 40% of aripiprazole AUC in plasma.

Following a single oral dose of [14 C]-labeled aripiprazole, approximately 25% and 55% of the administered radioactivity was recovered in the urine and feces, respectively. Less than 1% of unchanged aripiprazole was excreted in the urine and approximately 18% of the oral dose was recovered unchanged in the feces.

Drug Interaction Studies

Effects of other drugs on the exposures of aripiprazole and dehydro-aripiprazole are summarized in Figure 1 and Figure 2, respectively. Based on simulation, a 4.5-fold increase in mean C_{max} and AUC values at steady-state is expected when extensive metabolizers of CYP2D6 are administered with both strong CYP2D6 and CYP3A4 inhibitors. A 3-fold increase in mean C_{max} and AUC values at steady-state is expected in poor metabolizers of CYP2D6 administered with strong CYP3A4 inhibitors.

Figure 1: The effects of other drugs on aripiprazole pharmacokinetics

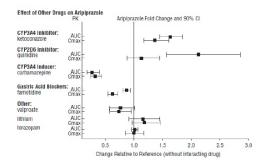
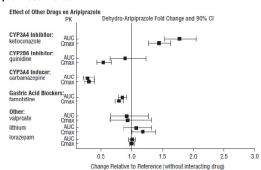
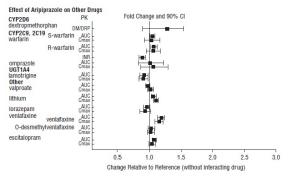


Figure 2: The effects of other drugs on dehydro-aripiprazole pharmacokinetics



The effects of aripiprazole on the exposures of other drugs are summarized in Figure 3.

Figure 3: The effects of aripiprazole on pharmacokinetics of other drugs ${f r}$



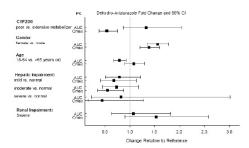
Studies in Specific Populations

Exposures of aripiprazole and dehydro-aripiprazole in specific populations are summarized in Figure 4 and Figure 5, respectively. In addition, in pediatric patients (10 to 17 years of age) administered with aripiprazole (20 mg to 30 mg), the body weight corrected aripiprazole clearance was similar to the adults.

Figure 4: Effects of intrinsic factors on aripiprazole pharmacokinetics

Special Populations PK Anppraced Fold Change and 50% CI CYP2DS poor 'ne extensive metabolizer AUC Change Gender Frenzie v. male ADE 18-64 vs. -95 years and AUC Change ADE 18-64 vs. -95 years and Change AUC Change AUC Change AUC Change Change AUC Change AUC Change Cha

Figure 5: Effects of intrinsic factors on dehydro-aripiprazole pharmacokinetics



13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Lifetime carcinogenicity studies were conducted in ICR mice, F344 rats, and Sprague-Dawley (SD) rats. Aripiprazole was administered for 2 years in the diet at doses of 1, 3, 10, and 30 mg/kg/day to ICR mice and 1, 3, and 10 mg/kg/day to F344 rats (0.2, 0.5, 2 and 5 times and 0.3, 1 and 3 times the MRHD of 30 mg/day based on mg/m² body surface area, respectively). In addition, SD rats were dosed orally for 2 years at 10, 20, 40, and 60 mg/kg/day, which are 3, 6, 13 and 19 times the MRHD based on mg/m² body surface area. Aripiprazole did not induce tumors in male mice or male rats. In female mice, the incidences of pituitary gland adenomas and mammary gland adenocarcinomas and adenoacanthomas were increased at dietary doses of 3 to 30 mg/kg/day (0.5 to 5 times the MRHD).

In female rats, the incidence of mammary gland fibroadenomas was increased at a dietary dose of 10 mg/kg/day (3 times the MRHD); and the incidences of adrenocortical carcinomas and combined adrenocortical adenomans/carcinomas were increased at an oral dose of 60 mg/kg/day (19 times the MRHD). An increase in mammary, pituitary, and endocrine pancreas neoplasms has been found in rodents after chronic administration of other antipsychotic drugs and is considered to be mediated by prolonged dopamine D2-receptor antagonism and hyperprolactinemia. Serum prolactin was not measured in the aripiprazole carcinogenicity studies. However, increases in serum prolactin levels were observed in female mice in a 13-week dietary study at the doses associated with mammary gland and pituitary tumors. Serum prolactin was not increased in female rats in 4-week and 13-week dietary studies at the dose associated with mammary gland tumors. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unclear.

<u>Mutagenesis</u>

The mutagenic potential of aripiprazole was tested in the *in vitro* bacterial reverse-mutation assay, the *in vitro* bacterial DNA repair assay, the *in vitro* forward gene mutation assay in mouse lymphoma cells, the *in vitro* chromosomal aberration assay in Chinese hamster lung (CHL) cells, the *in vivo* micronucleus assay in mice, and the unscheduled DNA synthesis assay in rats. Aripiprazole and a metabolite (2,3-DCPP) were clastogenic in the *in vitro* chromosomal aberration assay in CHL cells with and without metabolic activation. The metabolite, 2,3-DCPP, increased numerical aberrations in the *in vitro* assay in CHL cells in the absence of metabolic activation. A positive response was obtained in the *in vivo* micronucleus assay in mice; however, the response was due to a mechanism not considered relevant to humans.

Impairment of Fertility

Female rats were treated orally with aripiprazole from 2 weeks prior to mating through gestation day 7 at doses of 2, 6, and 20 mg/kg/day, which are 0.6, 2, and 6 times the MRHD of 30 mg/day based on mg/m² body surface area. Estrus cycle irregularities and increased corpora lutea were seen at all doses, but no impairment of fertility was seen. Increased pre-implantation loss was seen at 2 and 6 times the MRHD, and decreased fetal weight was seen at 6 times the MRHD.

Male rats were treated orally with aripiprazole from 9 weeks prior to mating through mating at doses of 20, 40, and 60 mg/kg/day, which are 6, 13, and 19 times the MRHD of 30 mg/day based on mg/m² body surface area. Disturbances in spermatogenesis were seen at 19 times the MRHD and prostate atrophy was seen at 13 and 19 times the MRHD without impairment of fertility.

13.2 Animal Toxicology and/or Pharmacology

Aripiprazole produced retinal degeneration in albino rats in a 26-week chronic toxicity study at a dose of 60 mg/kg/day and in a 2-year carcinogenicity study at doses of 40 and 60 mg/kg/day which are 13 and 19 times the MRHD of 30 mg/day based on mg/m² body surface area. Evaluation of the retinas of albino mice and of monkeys did not reveal evidence of retinal degeneration. Additional studies to further evaluate the mechanism have not been performed. The relevance of this finding to human risk is unknown.

14 CLINICAL STUDIES

Efficacy of the oral formulations of aripiprazole was established in the following adequate and well-controlled trials:

Four short-term trials and one maintenance trial in adult patients and one short-term

trial in adolescents (ages 13 to 17) with schizophrenia [see Clinical Studies (14.1)]

- Two short-term trials in pediatric patients (ages 6 to 17 years) for the treatment of irritability associated with autistic disorder [see Clinical Studies (14.4)]
- Two short-term trials in pediatric patients (ages 6 to 18 years) with Tourette's disorder [see Clinical Studies (14.5)]

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rig

Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

14.1 Schizophrenia

The efficacy of aripiprazole in the treatment of schizophrenia was evaluated in five short-term (4-week and 6-week), placebo-controlled trials of acutely relapsed inpatients who predominantly met DSM-III/I/V criteria for schizophrenia. Four of the five trials were able to distinguish aripiprazole from placebo, but one study, the smallest, did not. Three of these studies also included an active control group consisting of either risperidone (one trial) or haloperidol (two trials), but they were not designed to allow for a comparison of aripiprazole and the active comparators.

In the four positive trials for aripiprazole, four primary measures were used for assessing psychiatric signs and symptoms. Efficacy was evaluated using the total score on the

Positive and Negative Syndrome Scale (PANSS). The PANSS is a 30 item scale that measures positive symptoms of schizophrenia (7 items), negative symptoms of schizophrenia (7 items), and general psychopathology (16 items), each rated on a scale of 1 (absent) to 7 (extreme); total PANSS scores range from 30 to 210. The Clinical Global Impression (CGI) assessment reflects the impression of a skilled observer, fully familiar with the manifestations of schizophrenia, about the overall clinical state of the patient.

In a 4-week trial (n=414) comparing two fixed doses of aripiprazole (15 or 30 mg/day) to placebo, both doses of aripiprazole were superior to placebo in the PANSS total score (Study 1 in Table 26), PANSS positive subscale, and CGI-severity score. In addition, the 15 mg dose was superior to placebo in the PANSS negative subscale.

In a 4-week trial (n=404) comparing two fixed doses of aripiprazole (20 or 30 mg/day) to placebo, both doses of aripiprazole were superior to placebo in the PANSS total score (Study 2 in Table 26), PANSS positive subscale, PANSS negative subscale, and CGI-severity score.

In a 6-week trial (n=420) comparing three fixed doses of aripiprazole (10, 15, or 20 mg/day) to placebo, all three doses of aripiprazole were superior to placebo in the PANSS total score (Study 3 in Table 26), PANSS positive subscale, and the PANSS negative subscale.

In a 6-week trial (n=367) comparing three fixed doses of aripiprazole (2, 5, or 10 mg/day) to placebo, the 10 mg dose of aripiprazole was superior to placebo in the PANSS total score (Study 4 in Table 26), the primary outcome measure of the study. The 2 and 5 mg doses did not demonstrate superiority to placebo on the primary outcome

Thus, the efficacy of 10, 15, 20, and 30 mg daily doses was established in two studies for each dose. Among these doses, there was no evidence that the higher dose groups offered any advantage over the lowest dose group of these studies.

An examination of population subgroups did not reveal any clear evidence of differential responsiveness on the basis of age, gender, or race.

A longer-term trial enrolled 310 inpatients or outpatients meeting DSM-IV criteria for schizophrenia who were, by history, symptomatically stable on other antipsychotic medications for periods of 3 months or longer. These patients were discontinued from their antipsychotic medications and randomized to aripiprazole 15 mg/day or placebo for up to 26 weeks of observation for relapse. Relapse during the double-blind phase was defined as CGI-Improvement score of ≥ 5 (minimally worse), scores ≥ 5 (moderately severe) on the hostility or uncooperativeness items of the PANSS, or $\geq \! 20\%$ increase in the PANSS total score. Patients receiving aripiprazole 15 mg/day experienced a significantly longer time to relapse over the subsequent 26 weeks compared to those receiving placebo (Study 5 in Figure 6).

Pediatric Patients

The efficacy of aripiprazole in the treatment of schizophrenia in pediatric patients (13 to 17 years of age) was evaluated in one 6-week, placebo-controlled trial of outpatients who met DSM-IV criteria for schizophrenia and had a PANSS score 2-70 at baseline. In this trial (n=302) comparing two fixed doses of aripiprazole (10 or 30 mg/day) to placebo, aripiprazole was titrated starting from 2 mg/day to the target dose in 5 days in the 10 mg/day treatment arm and in 11 days in the 30 mg/day treatment arm. Both doses of aripiprazole were superior to placebo in the PANSS total score (Study 6 in Table 26), the primary outcome measure of the study. The 30 mg/day dosage was not shown to be more efficacious than the 10 mg/day dose. Although maintenance efficacy in pediatric patients has not been systematically evaluated, maintenance efficacy can be extrapolated from adult data along with comparisons of aripiprazole pharmacokinetic parameters in adult and pediatric patients.

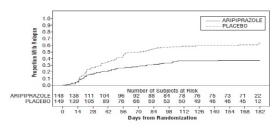
Table 26: Schizophrenia Studies

Study Number	Treatment Group	Primary Efficacy Measure: PANSS		
		Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo- subtracted Difference* (95% CI)
	Aripiprazole (15 mg/day) [†]	98.5 (17.2)	-15.5 (2.40)	-12.6 (-18.9, - 6.2)
Study 1	Aripiprazole (30 mg/day) [†]	99.0 (19.2)	-11.4 (2.39)	-8.5 (-14.8, - 2.1)
	Placebo	100.2 (16.5)	-2.9 (2.36)	-
	Aripiprazole (20 mg/day) [†]	92.6 (19.5)	-14.5 (2.23)	-9.6 (-15.4, - 3.8)
Study 2	Aripiprazole (30 mg/day) [†]	94.2 (18.5)	-13.9 (2.24)	-9.0 (-14.8, - 3.1)
	Placebo	94.3 (18.5)	-5.0 (2.17)	-
	Aripiprazole (10 mg/day) [†]	92.7 (19.5)	-15.0 (2.38)	-12.7 (-19.00, - 6.41)
Study 3	Aripiprazole (15 mg/day) [†]	93.2 (21.6)	-11.7 (2.38)	-9.4 (-15.71, - 3.08)
1	Arininrazolo	Į.		Į

	Ai ipipi azoie (20 mg/day) [†]	92.5 (20.9)	-14.4 (2.45)	-12.1 (-18.53, - 5.68)
	Placebo	92.3 (21.8)	-2.3 (2.35)	-
	Aripiprazole (2 mg/day) [†]	90.7 (14.5)	-8.2 (1.90)	-2.9 (-8.29, 2.47)
Study 4	Aripiprazole (5 mg/day)†	92.0 (12.6)	-10.6 (1.93)	-5.2 (-10.7, 0.19)
Study 4	Aripiprazole (10 mg/day) [†]	90.0 (11.9)	-11.3 (1.88)	-5.9 (-11.3, - 0.58)
	Placebo	90.8 (13.3)	-5.3 (1.97)	-
Study 6 (Pediatric.	Aripiprazole (10 mg/day) [†]	93.6 (15.7)	-26.7 (1.91)	-5.5 (-10.7, - 0.21)
13-17 years)	Aripiprazole (30 mg/day) [†]	94.0 (16.1)	-28.6 (1.92)	-7.4 (-12.7, - 2.13)
	Placebo	94.6 (15.6)	-21.2 (1.93)	-

SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval.

Figure 6: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Relapse (Schizophrenia Study 5)



14.4 Irritability Associated with Autistic Disorder

Pediatric Patients

The efficacy of aripiprazole in the treatment of irritability associated with autistic disorder was established in two 8-week, placebo-controlled trials in pediatric patients (6 to 17 years of age) who met the DSM-IV criteria for autistic disorder and demonstrated behaviors such as tantrums, aggression, self-injurious behavior, or a combination of these problems. Over 75% of these subjects were under 13 years of age.

Efficacy was evaluated using two assessment scales: the Aberrant Behavior Checklist (ABC) and the Clinical Global Impression-Improvement (CGI-I) scale. The primary outcome measure in both trials was the change from baseline to endpoint in the Irritability subscale of the ABC (ABC-I). The ABC-I subscale measured symptoms of irritability in autistic disorder.

The results of these trials are as follows:

In one of the 8-week, placebo-controlled trials, children and adolescents with autistic disorder (n=98), aged 6 to 17 years, received daily doses of placebo or aripiprazole 2 to 15 mg/day. Aripiprazole, starting at 2 mg/day with increases allowed up to 15 mg/day based on clinical response, significantly improved scores on the ABC-I subscale and on the CGI-I scale compared with placebo. The mean daily dose of aripiprazole at the end of 8-week treatment was 8.6 mg/day (Study 1 in Table 29).

In the other 8-week, placebo-controlled trial in children and adolescents with autistic disorder (n=218), aged 6 to 17 years, three fixed doses of aripiprazole (5 mg/day, 10 mg/day, or 15 mg/day) were compared to placebo. aripiprazole dosing started at 2 mg/day and was increased to 5 mg/day after one week. After a second week, it was increased to 10 mg/day for patients in the 10 and 15 mg dose arms, and after a third week, it was increased to 15 mg/day in the 15 mg/day treatment arm (Study 2 in Table 29). All three doses of aripiprazole significantly improved scores on the ABC-I subscale compared with placebo.

Table 29: Irritability Associated with Autistic Disorder Studies (Pediatric)

Study		Primary Effica	cy Measure: Measu	ıre: ABC-I
Number	Treatment Group	Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracted Difference* (95% CI)
Study 1	Aripiprazole (2 to 15 mg/day) † + Antidepressant Placebo + Antidepressant	29.6 (6.37) 30.2 (6.52)	-12.9 (1.44) -5.0 (1.43)	-7.9 (-11.7, -4.1)
Study 2	Aripiprazole (5 mg/day) † Aripiprazole (10 mg/day) † Aripiprazole (15 mg/day) †Placebo	28.6 (7.56) 28.2 (7.36) 28.9 (6.41) 28.0 (6.89)	-12.4 (1.36) -13.2 (1.25) -14.4 (1.31) -8.4 (1.39)	-4.0 (-7.7, -0.4) -4.8 (-8.4, -1.3) -6.0 (-9.6, -2.3)

SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval.

14.5 Tourette's Disorder

Pediatric Patients

The efficacy of aripiprazole in the treatment of Tourette's disorder was established in one 8-week (7 to 17 years of age) and one 10-week (6 to 18 years of age), placebocontrolled trials in pediatric patients (6 to 18 years of age) who met the DSM-IV criteria for Tourette's disorder and had a Total Tic score (TTS) \geq 20 -22 on the Yale Global Tic Severity Scale (YGTSS). The YGTSS is a fully validated scale designed to measure current

^{*} Difference (drug minus placebo) in least-squares mean change from baseline.

[†] Doses statistically significantly superior to placebo.

^{*} Difference (drug minus placebo) in least-squares mean change from baseline.

 $^{^\}dagger$ Doses statistically significantly superior to placebo.

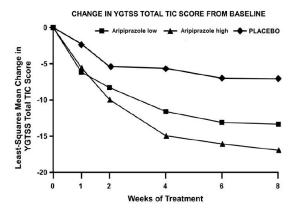
tic severity. Efficacy was evaluated using two assessment scales: 1) the Total Tic score (TTS) of the YGTSS and 2) the Clinical Global Impressions Scale for Tourette's Syndrome (CGI-TS), a clinician-determined summary measure that takes into account all available patient information. Over 65% of these patients were under 13 years of age.

The primary outcome measure in both trials was the change from baseline to endpoint in the TTS of the YGTSS. Ratings for the TTS are made along 5 different dimensions on a scale of 0 to 5 for motor and vocal tics each. Summation of these $10 \ \text{scores}$ provides a TTS (i.e., 0-50).

The results of these trials are as follows:

In the 8-week, placebo-controlled, fixed-dose trial, children and adolescents with Tourette's disorder (n=133), aged 7 to 17 years, were randomized 1:1:1 to low dose aripiprazole, high dose aripiprazole, or placebo. The target doses for the low and high dose aripiprazole groups were based on weight. Patients < 50 kg in the low dose aripiprazole group started at 2 mg per day with a target dose of 5 mg per day after 2 days. Patients ≥ 50 kg in the low dose aripiprazole group started at 2 mg per day with a target dose of 5 mg per day after 2 days. Patients ≥ 50 kg in the low dose aripiprazole group, started at 2 mg per day increased to 5 mg per day after 2 days, with a subsequent increase to a target dose of 10 mg per day at day 7. Patients <50 kg in the high dose aripiprazole group started at 2 mg per day increased to 5 mg per day after 2 days, with a subsequent increase to a target dose of 10 mg per day after 2 days, with a subsequent increase to a target dose of 10 mg per day at day 7. Patients ≥ 50 kg in the high dose aripiprazole group, started at 2 mg per day increased to 5 mg per day after 2 days, with a subsequent increase to a dose of 10 mg per day at day 7 and were allowed weekly increases of 5 mg per day up to a target dose 20 mg per day at Day 21. Aripiprazole (both high and low dose groups) demonstrated statistically significantly improved scores on the YGTSS TTS (Study 1 in Table 30) and on the CGI-TS scale compared with placebo. The estimated improvements on the YGTSS TTS over the course of the study are displayed in Figure 9.

Figure 9: Least Square Means of Change from Baseline in YGTSS TTS by Week (Tourette's Disorder Study 1)



In the 10-week, placebo-controlled, flexible-dose trial in children and adolescents with Tourette's disorder (n=61), aged 6 to 18 years, patients received daily doses of placebo or aripiprazole, starting at 2 mg/day with increases allowed up to 20 mg/day based on clinical response, aripiprazole demonstrated statistically significantly improved scores on the YGTSS TTS scale compared with placebo (Study 2 in Table 30). The mean daily dose of aripiprazole at the end of 10-week treatment was 6.54 mg/day.

Table 30: Tourette's Disorder Studies (Pediatric)

		Primary Efficacy Measure: YGTSS TTS		
Study Number		Mean Baseline Score (SD)		Placebo-subtracted Difference* (95% CI)
Study 1	Aripiprazole (low dose) †Aripiprazole (high dose) † Placebo	29.2 (5.63) 31.2 (6.40) 30.7 (5.95)	-13.4 (1.59) -16.9 (1.61) -7.1 (1.55)	-6.3 (-10.2, -2.3) -9.9 (-13.8, -5.9)
Study 2	Aripiprazole (2 to 20 mg/day) † Placebo	28.3 (5.51) 29.5 (5.60)	-15 (1.51) -9.6 (1.64)	-5.3 (-9.8, -0.9)

SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole) product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug

product is not labeled with that information.

16 HOW SUPPLIED/STORAGE AND HANDLING

Aripiprazole Tablets, USP 2 mg are available for oral administration as green, rectangular, slightly biconvex tablets, engraved "2" on one side and "A" on the other side.

Bottles of 30 (NDC 60505-3075-3) Bottles of 1,000 (NDC 60505-3075-8)

Aripiprazole Tablets, USP 5 mg are available for oral administration as blue, rectangular, slightly biconvex tablets, engraved "5" on one side and "A" on the other side.

Bottles of 30 (NDC 60505-2673-3) Bottles of 1,000 (NDC 60505-2673-8)

Aripiprazole Tablets, USP 10 mg are available for oral administration as pink, rectangular, slightly biconvex tablets, engraved "10" on one side and "A" on the other side.

Bottles of 30 (NDC 60505-2674-3) Bottles of 1.000 (NDC 60505-2674-8)

Aripiprazole Tablets, USP 15 mg are available for oral administration as yellow, round,

^{*} Difference (drug minus placebo) in least-squares mean change from baseline.

[†] Doses statistically significantly superior to placebo.

slightly biconvex tablets, engraved "ARI" over "15" on one side and "APO" on the other

Bottles of 30 (NDC 60505-2675-3) Bottles of 1.000 (NDC 60505-2675-8)

Aripiprazole Tablets, USP 20 mg are available for oral administration as white to offwhite, round, slightly biconvex tablets, engraved "ARI" over "20" on one side and "APO" on the other side.

Bottles of 30 (NDC 60505-2676-3) Bottles of 1,000 (NDC 60505-2676-8)

Aripiprazole Tablets, USP 30 mg are available for oral administration as pink, round, slightly biconvex tablets, engraved "ARI" over "30" on one side and "APO" on the other side.

Bottles of 30 (NDC 60505-2677-3) Bottles of 1,000 (NDC 60505-2677-8)

16.2 Storage

Tablets

Store at 20°C to 25°C (68°F to 77°F); excursions permitted from 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

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

Discuss the following issues with patients prescribed aripiprazole:

Clinical Worsening of Depression and Suicide Risk

Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to look for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication (see Warnings and Precautions (5.3)].

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with aripiprazole and should counsel them in its appropriate use. A patient Medication Guide including information about "Antidepressant Medicines, Depression and other Serious Mental Illness, and Suicidal Thoughts or Actions" is available for aripiprazole. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. It should be noted that aripiprazole is not approved as a single agent for treatment of depression and has not been evaluated in pediatric major depressive disorder.

Pathological Gambling and Other Compulsive Behaviors

Advise patients and their caregivers of the possibility that they may experience compulsive urges to shop, intense urges to gamble, compulsive sexual urges, binge eating and/or other compulsive urges and the inability to control these urges while taking aripiprazole. In some cases, but not all, the urges were reported to have stopped when the dose was reduced or stopped [see Warnings and Precautions (5.7)].

Interference with Cognitive and Motor Performance

Because aripiprazole may have the potential to impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that aripiprazole therapy does not affect them adversely [see Warnings and Precautions (5.12)].

Concomitant Medication

Patients should be advised to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for interactions [see Drug Interactions (7)].

Heat Exposure and Dehydration

Patients should be advised regarding appropriate care in avoiding overheating and dehydration [see Warnings and Precautions (5.13)].

Pregnancy

Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during treatment with aripiprazole. Advise patients that aripiprazole may cause extrapyramidal and/or withdrawal symptoms (agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, and feeding disorder) in a neonate. Advise patients that there is a pregnancy registry that monitors pregnancy outcomes in women exposed to aripiprazole during pregnancy [see Use in Specific Populations (8.1)].

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Dispense with Medication Guide available at https://www.apotex.com/products/us/mg.asp

APOTEX INC. ARIPIPRAZOLE TABLETS, USP 2 mg, 5 mg, 10 mg, 15 mg, 20 mg and 30 mg

Manufactured by	Manufactured for
Apotex Inc.	Apotex Corp.
Toronto, Ontario	Weston, Florida
Canada M9L 1T9	USA 33326

Revision: 23

MEDICATION GUIDE

Aripiprazole Tablets, USP

(ar-i-pip-ra-zole)

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

What is the most important information I should know about aripiprazole

(For other side effects, also see "What are the possible side effects of aripiprazole

Serious side effects may happen when you take aripiprazole tablets, including:

- Increased risk of death in elderly patients with dementia-related psychosis: Medicines like aripiprazole tablets can raise the risk of death in elderly people who have lost touch with reality (psychosis) due to confusion and memory loss (dementia). Aripiprazole tablets are not approved for the treatment of patients with dementia-related psychosis.
- Risk of suicidal thoughts or actions: Antidepressant medicines, depression and other serious mental illnesses, and suicidal thoughts or actions
- 1. Antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, and young adults within the first few months of
- 2. Depression and other serious mental illnesses are the most important causes of suicidal thoughts and actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a family history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.
- 3. How can I watch for and try to prevent suicidal thoughts and actions in
 - myself or a family member?

 Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important when an antidepressant medicine is started or when the dose is changed.
 - Call the healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.
 - Keep all follow-up visits with the healthcare provider as scheduled. Call the healthcare provider between visits as needed, especially if you have concerns about symptoms.

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

- · thoughts about suicide or dying
- · attempts to commit suicide
- · new or worse depression
- new or worse anxiety
- feeling very agitated or restlesspanic attacks
- trouble sleeping (insomnia)
- · new or worse irritability
- · acting aggressive, being angry, or violent
- acting on dangerous impulses
 an extreme increase in activity and talking (mania)
- other unusual changes in behavior or mo

What else do I need to know about antidepressant medicines?

- Never stop an antidepressant medicine without first talking to a **healthcare provider.** Stopping an antidepressant medicine suddenly can cause other symptoms.
- Antidepressants are medicines used to treat depression and other **illnesses.** It is important to discuss all the risks of treating depression and also the risks of not treating it. Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of antidepressants.
- Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine prescribed for you or your family
- · Antidepressant medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider
- Not all antidepressant medicines prescribed for children are FDA approved for use in children. Talk to your child's healthcare provider for more information

What are aripiprazole tablets?

- Aripiprazole tablets are prescription medicine used to treat:

 - irritability associated with autistic disorder
 - Tourette's disorder

It is not known if aripiprazole tablets are safe or effective in children:

- under 13 years of age with schizophrenia
- · under 6 years of age with irritability associated with autistic disorder
- · under 6 years of age with Tourette's disorder

Do not take aripiprazole tablets if you are allergic to aripiprazole or any of the ingredients in aripiprazole tablets. See the end of this Medication Guide for a complete list of ingredients in aripiprazole tablets.

Before taking aripiprazole tablets, tell your healthcare provider about all your medical conditions, including if you have or had:

- diabetes or high blood sugar in you or your family; your healthcare provider should check your blood sugar before you start aripiprazole tablets and also during therapy.
- seizurés (convulsions).
- · low or high blood pressure.
- · heart problems or stroke.
- · pregnancy or plans to become pregnant. It is not known if aripiprazole tablets will harm your unborn baby.
- If you become pregnant while receiving aripiprazole tablets, talk to your healthcare provider about registering with the National Pregnancy Registry for Atypical Antipsychotics. You can register by calling 1-866-961-2388 or go to http://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/
- breast-feeding or plans to breast-feed. Aripiprazole passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you receive aripiprazole tablets
- low white blood cell count

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

Aripiprazole tablets and other medicines may affect each other causing possible serious side effects. Aripiprazole tablets may affect the way other medicines work, and other medicines may affect how aripiprazole tablets work.

Your healthcare provider can tell you if it is safe to take aripiprazole tablets with your other medicines. Do not start or stop any medicines while taking aripiprazole tablets without talking to your healthcare provider first. Know the medicines you take. Keep a

list of your medicines to show your healthcare provider and pharmacist when you get a

How should I take aripiprazole tablets?

- Take aripiprazole tablets exactly as your healthcare provider tells you to take it. Do not change the dose or stop taking aripiprazole tablets yourself.
- Aripiprazole tablets can be taken with or without food.
- Aripiprazole tablets should be swallowed whole.
- If you miss a dose of aripiprazole tablets, take the missed dose as soon as you remember. If it is almost time for the next dose, just skip the missed dose and take your next dose at the regular time. Do not take two doses of aripiprazole tablets at the same time.
- If you take too much aripiprazole tablets, call your healthcare provider or poison control center at 1-800-222-1222 right away, or go to the nearest hospital emergency room.

What should I avoid while taking aripiprazole tablets?

- Do not drive, operate heavy machinery, or do other dangerous activities until you know how aripiprazole tablets affects you. Aripiprazole tablets may make you drowsy.
- Avoid getting over-heated or dehydrated.
- Do not over-exercise.
 In hot weather, stay inside in a cool place if possible.
- Stay out of the sun. Do not wear too much or heavy clothing.
- Drink plenty of water.

What are the possible side effects of aripiprazole tablets?

Aripiprazole tablets may cause serious side effects, including:

- See "What is the most important information I should know about
- Stroke in elderly people (cerebrovascular problems) that can lead to death
 Neuroleptic malignant syndrome (NMS). Tell your healthcare provider right away
- if you have some or all of the following symptoms: high fever, stiff muscles, confusion, sweating, changes in pulse, heart rate, and blood pressure. These may be symptoms of a rare and serious condition that can lead to death. Call your healthcare provider right away if you have any of these symptoms.
- Uncontrolled body movements (tardive dyskinesia). Aripiprazole tablets may
 cause movements that you cannot control in your face, tongue, or other
 body parts. Tardive dyskinesia may not go away, even if you stop receiving aripiprazole tablets. Tardive dyskinesia may also start after you stop receiving aripiprazole tablets.
- · Problems with your metabolism such as:
 - High blood sugar (hyperglycemia) and diabetes. Increases in blood sugar can happen in some people who take aripiprazole tablets. Extremely high blood sugar can lead to coma or death. If you have diabetes or risk factors for diabetes (such as being overweight or a family history of diabetes), your healthcare provider should check your blood sugar before you start aripiprazole tablets and during your treatment

Call your healthcare provider if you have any of these symptoms of high blood sugar while receiving aripiprazole tablets:

- feel very thirsty
- need to urinate more than usual
- feel very hungryfeel weak or tired
- feel sick to your stomach
- feel confused, or your breath smells fruity
 Increased fat levels (cholesterol and triglycerides) in your blood.
- · Weight gain. You and your healthcare provider should check your weight
- **Unusual urges.** Some people taking aripiprazole tablets have had unusual urges, such as gambling, binge eating or eating that you cannot control (compulsive), compulsive shopping and sexual urges.
- If you or your family members notice that you are having unusual urges or behaviors, talk to your healthcare provider
- Orthostatic hypotension (decreased blood pressure). Lightheadedness or fainting may happen when rising too quickly from a sitting or lying position.
 • Falls. Aripiprazole tablets may make you sleepy or dizzy, may cause a decrease in
- your blood pressure when changing position and can slow your thinking and motor skills which may lead to falls that can cause fractures or other injuries.
- Low white blood cell count
- Seizures (convulsions)
- Problems with control of your body temperature especially when you exercise a lot or are in an area that is very hot. It is important for you to drink water to avoid dehydration. See "What should I avoid while receiving aripiprazole tablets?
- Difficulty swallowing that can cause food or liquid to get into your lungs.

The most common side effects of aripiprazole tablets in adults include:

- nausea
- dizziness
- vomiting
- anxietv constipation
- insomnia
- headache
- restlessness
- · blurred vision upper respiratory illness
- inner sense of restlessness/need to move (akathisia)

The most common side effects of aripiprazole tablets in children include:

- feeling sleepyheadache
- vomiting
- fatique
- increased or decreased appetite
- increased saliva or drooling
- insomnia
- nausea · stuffy nose
- weight gain
- uncontrolled movement such as restlessness, tremor.
- muscle stiffness

These are not all the possible side effects of aripiprazole tablets.

Call your doctor for medical advice about side effects. You may report side effects to

FDA at 1-800-FDA-1088.

How should I store aripiprazole tablets?

• Store at 20°C to 25°C (68°F to 77°F).

Keep aripiprazole tablets and all medicines out of the reach of children.

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

 $\label{eq:medicines} \mbox{Medicines are sometimes prescribed for purposes other than those listed in a \mbox{Medication}$ Guide. Do not use aripiprazole tablets for a condition for which it was not prescribed. Do not give aripiprazole tablets to other people, even if they have the same symptoms you have. It may harm them. You can ask your healthcare provider or pharmacist for information about aripiprazole tablets that was written for healthcare professionals.

What are the ingredients in aripiprazole tablets?

Active ingredient: aripiprazole

Inactive ingredients:

croscarmellose sodium, magnesium stearate, microcrystalline cellulose, and tartaric acid. Colorants include Indigotine Aluminum Lake (FD&C Blue no. 2) (for 2 mg and 5 mg), iron oxide red (for 10 mg and 30 mg) and iron oxide yellow (for 2 mg and 15 mg).

Additional pediatric use information is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY® (aripiprazole)

product. However, due to Otsuka America Pharmaceutical, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

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

Call your doctor for medical advice about side effects. You may report side effects to Apotex Corp. at 1-800-706-5575 or to FDA at 1-800-FDA-1088.

All registered trademarks are the property of their respective owners.

APOTEX INC. ARIPIPRAZOLE TABLETS, USP

2 mg, 5 mg, 10 mg, 15 mg, 20 mg and 30 mg $\,$

Manufactured by	Manufactured for
Apotex Inc.	Apotex Corp.
Toronto, Ontario	Weston, Florida
Canada M9L 1T9	USA 33326

Revised: January 2023

Revision: 23

PRINCIPAL DISPLAY PANEL SECTION 2 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing):

PRINCIPAL DISPLAY PANEL - 2 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-3075-3

Aripiprazole Tablets 2 mg

Rx only

30 Tablets



PRINCIPAL DISPLAY PANEL SECTION 5 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing):

PRINCIPAL DISPLAY PANEL - 5 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-2673-3

Aripiprazole Tablets 5 mg

Rx only

30 Tablets



PRINCIPAL DISPLAY PANEL SECTION 10 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing): PRINCIPAL DISPLAY PANEL - 10 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-2674-3

Aripiprazole Tablets 10 mg

Rx only

30 Tablets



PRINCIPAL DISPLAY PANEL SECTION 15 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing):

PRINCIPAL DISPLAY PANEL - 15 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-2675-3

Aripiprazole Tablets 15 mg

Rx only

30 Tablets



PRINCIPAL DISPLAY PANEL SECTION 20 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing): PRINCIPAL DISPLAY PANEL - 20 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-2676-3

Aripiprazole Tablets 20 mg

Rx only

30 Tablets



PRINCIPAL DISPLAY PANEL SECTION 30 mg 30s bottle

Representative sample of labeling (see HOW SUPPLIED section for complete listing): PRINCIPAL DISPLAY PANEL - 30 MG BOTTLE LABEL

APOTEX CORP.

NDC 60505-2677-3

Aripiprazole Tablets 30 mg

Rx only

30 Tablets





Product Type		HUMAN PRES	SCRIPTION DRUG	Item Code (Source) NDC	:60505-3075
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Product Infoi Product Infoi Product Type Route of Admin Active Ingred MICROCRYSTALLI Adagnesium Stea Partaric Acid (UNI Proscarmellose Stobe Blue No. 2	rmation istration ient/Acti ing 82VFR53178 edients NE CELLUL 71: W4888115 iodium (UNI: 7 ic W4888115 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 4	ORAL Ve Moiety redient Name 3) (Aripiprazole - t Ingredie OSE (UNII: OPIR 0097M6I30) BH) I: M280L1HH48) 8R7DQK)	e UNII:82VFR53I78) ent Name	Basis of S	no sco	Strength 5 mg Strength
ripiprazole table Product Info Product Type Route of Admin Active Ingred Active Ingred MICROCRYSTALLI Magnesium Steal artaria Caid (UNII) EDEC BLUE NO. 2 Product Char Solope Slavor	rmation istration ient/Acti ing 82VFR53178 edients NE CELLUL 71: W4888115 iodium (UNI: 7 ic W4888115 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 4	ORAL Ve Moiety redient Name 3) (Aripiprazole - I Ingredie OSE (UNII: OPIR 00977M6130) 11: M280L1HH48) 887DQK) CS UE	ent Name 32061U) Score	Basis of S	trength :	Strength 5 mg Strength
ripiprazole table Product Info Product Type Route of Admin Active Ingred Active Ingred MICROCRYSTALLI Magnesium Steal artaria Caid (UNII) EDEC BLUE NO. 2 Product Char Solope Slavor	rmation istration ient/Acti ing 82VFR53178 edients NE CELLUL 71: W4888115 iodium (UNI: 7 ic W4888115 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 4	ORAL Ve Moiety redient Name 3) (Aripiprazole - I Ingredie OSE (UNII: OPIR 00977M6130) 11: M280L1HH48) 887DQK) CS UE	e unit:82vFR53i78) ent Name 32D61U) Score Size	Basis of S	no sco	Strength 5 mg Strength
ripiprazole table Product Infor Product Type Route of Admin Active Ingred MICROCRYSTALL Aggnesium Steal For Bull No. 2 Product Char Solor Schape Schape Contains	rmation istration ient/Acti ing 82VFR53178 edients NE CELLUL 71: W4888115 iodium (UNI: 7 ic W4888115 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 4	ORAL Ve Moiety redient Name 3) (Aripiprazole - I Ingredie OSE (UNII: OPIR 00977M6130) 11: M280L1HH48) 887DQK) CS UE	e unit:82vFR53i78) ent Name 32D61U) Score Size	Basis of S	no sco	Strength 5 mg Strength
Product Information of the Infor	rmation istration ient/Acti ing 82VFR53178 edients NE CELLUL 71: W4888115 iodium (UNI: 7 ic W4888115 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 2 iodium (UNI: 4	ORAL Ve Moiety redient Name 3) (Aripiprazole - I Ingredie OSE (UNII: OPIR 00977M6130) 11: M280L1HH48) 887DQK) CS UE	ent Name 32061U) Score Size Imprint C	Basis of S	no sco 9mm 5;A	Strength 5 mg Strength
Product Info Product Info Product Type Route of Admin Active Ingred Acti	rmation istration istratio	ORAL Ve Moiety redient Name (a) (Aripiprazole - 1 Ingredie OSE (UNI: OPIR 0097M6I30) H) H: M280L1HH48) 8R7DQK) CS UE CTANGLE	ent Name 32061U) Score Size Imprint C	Basis of S Aripiprazole	no sco 9mm 5;A	Strength Strength Strength Strength
Product Info Product Info Product Type Route of Admin Active Ingred Acti	rmation istration istratio	ORAL Ve Moiety redient Name 3) (Aripiprazole - 1 Ingredie OSE (UNII: OPIR 0097M6I30) HI II: MZ80L1HH48) SR7DQK) CS UE CTANGLE Package Des	ent Name 32061U) Score Size Imprint C	Basis of S Aripiprazole	no sco 9mm 5:A	Strength Strength Strength Strength
Product Info Product Info Product Info Product Type Route of Admin Active Ingred Activ	rmation istration ient/Acti ing : 82VFR53I76 edients MC CELLUL rate (UNII: 7 : W48881115 iodium (UNI) g (UNII: LO6K acteristic BLI RE- 30 in 1 BO1 Product	ORAL Ve Moiety redient Name 3) (Aripiprazole - I Ingredie OSE (UNI: OPIR 0097M6I30) 9H) I: M280L1HH48) 8R7DQK) CS UE CTANGLE Package Des TILE; Type 0: Not SOTTLE; Type 0: Not	ent Name 32061U) Score Size Imprint C	Basis of S Aripiprazole Aripiprazole Marketing Star Date 07/24/2015	no sco 9mm 5;A	Strength 5 mg Strength weeting End Date 10025
Product Info Product Info Product Type Route of Admin Active Ingred Acti	rmation istration istration istration istration istration istration istration istration istration ing istration in	ORAL Ve Moiety redient Name 3) (Aripiprazole - t Ingredie OSE (UNI: OPIR 0097M6I30) 9H) II: M280L1HH48) 8R7DQK) CS UE CTANGLE Package Des TILE; Type 0: Not SOTTLE; Type 0: Not	ent Name 32061U) Score Size Imprint C	Marketing Star Date 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength 5 mg Strength weeting End Date 10025
Product Info Product Info Product Type Route of Admin Active Ingred Acti	rmation istration ient/Actir ing : 82VFRS3I78 edients NE CELLUL rate (UNII: 7 I: W48881115 odium (UNII: LOGK acteristic BLI REI 30 in 1 BOT Product 1000 in 1 BP Product 10 in 1 BOT	ORAL Ve Moiety redient Name 3) (Aripiprazole - t Ingredie OSE (UNI: OPIR 0097M6I30) 9H) II: M280L1HH48) 8R7DQK) CS UE CTANGLE Package Des TILE; Type 0: Not SOTTLE; Type 0: Not	sent Name 32061U) Score Size Imprint C	Marketing Star Date 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength 5 mg Strength weeting End Date 10025
Product Information of the Information of the Information of Infor	rmation istration istration ient/Acti Ing 82VFR53178 edients NE CELLUL rate (UNI: 7 to WHIST LOGK acteristic 30 in 1 BOT Product 1000 in 1 B Product 10 in 1 BUS 10 in 1 BUS Product	ORAL Ve Moiety redient Name (3) (Aripiprazole - 1 Ingredie OSE (UNII: OPIR 0097M6I30) HI: M280L1HH48) CCS UE CTANGLE Package Des ITLE; Type 0: Not OOTTLE; Type 0: N X STER PACK; Type	sent Name 32061U) Score Size Imprint C	Marketing Star Date 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength 5 mg Strength weeting End Date 10025
Product Information of Active Ingred	istration istration istration istration istration istration istration istration istration ing several several ing	ORAL Ve Moiety redient Name (3) (Aripiprazole - 1 Ingredie OSE (UNII: OP1R 0097M6130) 9H) II: M280L1HH48) 2877Q(X) CCS UE CTANGLE Package Des ITILE: Type 0: Not OOTTLE: Type 0: N X STER PACK: Type	ent Name 32D61U) Score Size Imprint C scription t a Combination Not a Combination 0: Not a Combination	Basis of S Aripiprazole Aripiprazole Marketing Star Date 07/24/2015 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength 5 mg Strength wre strength 2 mg Str
Product Information of the Information of the Information of Infor	rmation istration istration ient/Acti Ing 82VFR53178 edients NE CELLUL rate (UNI: 7 is W8881115) ient/Acti BLI Ref 20 in 1 BOT 10 in 1 BOT Product 10 in 1 BUT Product Inform Appl	ORAL Ve Moiety redient Name (3) (Aripiprazole - 1 Ingredie OSE (UNII: OPIR 0097M6130) (BH) (BH) (BR/TOQK) CS UE CTANGLE Package Des ITLE; Type 0: Not OOTTLE; Type	ent Name 32061U) Score Size Imprint C scription a Combination Not a Combination 0: Not a Combination	Marketing Star Date 07/24/2015 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength Strength Strength Strength Strength Strength Strength
Product Information of the Information of the Information of Infor	istration istration istration istration istration istration istration istration istration ing several several ing	ORAL Ve Moiety redient Name (3) (Aripiprazole - 1 Ingredie OSE (UNII: OPIR 0097M6130) (BH) (BH) (BR/TOQK) CS UE CTANGLE Package Des ITLE; Type 0: Not OOTTLE; Type	ent Name 32061U) Score Size Imprint C scription a Combination Not a Combination 0: Not a Combination	Marketing Star Date 07/24/2015 07/24/2015	no sco 9mm 5;A	Strength Strength Strength Strength Strength Strength Strength

ARIPIPRAZOLE					
aripiprazole tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item	Code (Source)	NDC:	60505-2674
Route of Administration	ORAL				
Active Ingredient/Active	Moiety				
Ingred	lient Name		Basis of Stren	gth	Strength
Aripiprazole (UNII: 82VFR53I78) (A	ripiprazole - UNII:82VFR53I78)		Aripiprazole		10 mg
Inactive Ingredients					
	Ingredient Name			9	Strength
MICROCRYSTALLINE CELLULOS					
Magnesium Stearate (UNII: 7009 Tartaric Acid (UNII: W48881119H)	/M613U)				

	U (UNII: II	K09F3G675)			
Product Char	acteris	tics			
Color	1	PINK	Score		no score
hape lavor		RECTANGLE	Size Imprint Co	de	9mm 10;A
ontains					
Packaging					
tem Code		Package Des	scription	Marketing Start Date	Marketing End Date
NDC:60505- 2674-3	30 in 1 B Product	OTTLE; Type 0: Not	t a Combination	07/24/2015	06/30/2025
NDC:60505- 2674-8	1000 in 1 Product	BOTTLE; Type 0: N	Not a Combination	07/24/2015	06/30/2025
NDC:60505- 2674-0	10 in 1 B	IOX		07/24/2015	04/13/2018
	10 in 1 B Product	LISTER PACK; Type	0: Not a Combination		
Marketing Marketing		plication Numbe	er or Monograph	Marketing Start	Marketing End
Category NDA	ANDA	Citat 078583	ion	Date 07/24/2015	Date 06/30/2025
RIPIPRAZ					
ipiprazole table					
Product Info	rmatior		SCRIPTION DRUG	Item Code (Source)	NDC:60505-2675
Route of Admin	istratio	n ORAL			
Active Ingred	lient/Ac	tive Moietv			
	lr	ngredient Name		Basis of Str	ength Strengti
uipipiazoie (UNII	. ozvrK53	178) (Aripiprazole - I	OIVII.02 V (KO31/8)	Au Ipiprazole	15 mg
nactive Ingre	edients		ent Name		Strength
		ULOSE (UNII: OP1R			Strength
lagnesium Stea artaric Acid (UNI					
roscarmellose S	Sodium (L	JNII: M28OL1HH48)			
ERRIC OXIDE YE	LLOW (UI	NII: EX438O2MRT)			
Product Char	acteris				
Color Shape		YELLOW ROUND	Score Size	no s	n core
lavor			Imprint Code	ARI;	15;APO
Contains					
Packaging					
# Item Code		Package Des		Marketing Start Date	Marketing End Date
# Item Code	30 in 1 B	Package Des			
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8	Product	_	t a Combination	Date	
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8	Product 1000 in 1	OTTLE; Type 0: Not	t a Combination	Date 07/24/2015	Date 06/30/2025
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0	Product 1000 in 1 Product 10 in 1 B	OTTLE; Type 0: Not L BOTTLE; Type 0: N	t a Combination	Date 07/24/2015 07/24/2015	Date 06/30/2025 12/31/2024
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0 3	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product	OTTLE; Type 0: Not L BOTTLE; Type 0: Not OX ULISTER PACK; Type	t a Combination	Date 07/24/2015 07/24/2015	Date 06/30/2025 12/31/2024
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0 NDC:60505- 2	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product	OTTLE; Type 0: Not BOTTLE; Type 0: N OX CLISTER PACK; Type mation plication Number	t a Combination Not a Combination 0: Not a Combination	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End
NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0 NDC:60505- 2675-0	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori	OTTLE; Type 0: Not BOTTLE; Type 0: Not OX BUSTLER PACK; Type mation	t a Combination Not a Combination 0: Not a Combination	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015	Date 06/30/2025 12/31/2024
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-3 NDC:60505- 2675-0 Marketing Marketing Category	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori	OTTLE; Type 0: Not L BOTTLE; Type 0: P OX ILISTER PACK; Type mation plication Numbe Citat	t a Combination Not a Combination 0: Not a Combination	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date
tem Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0 Marketing Marketing Category NDA RIPIPRAZI RIPIPR	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infor: Ap ANDA	OTTLE; Type 0: Not L BOTTLE; Type 0: P OX ILISTER PACK; Type mation plication Numbe Citat	t a Combination Not a Combination 0: Not a Combination	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date
# Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-0 Marketing Marketing Marketing Category NDA ARIPIPRAZ ARIPIPRAZ Aripiprazole tabk	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori ANDA OLE	NOTTLE: Type 0: Not BOTTLE: Type 0: Not SOX SUSTER PACK: Type mation plication Number Citat 078583	t a Combination Not a Combination 0: Not a Combination	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date
# Item Code In NDC:60505- 2675-3 In NDC:60505- 2675-8 In NDC:60505- 2675-8 In NDC:60505- 2675-0 Marketing Marketing Marketing Category NNDA ARIPIPRAZ ARIPIPRAZ ARIPIPRAZ ARIPIPRAZ ARIPIPRAZ ARIPIPRAZI ARIPI	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori ANDA OLE	OTTLE: Type 0: Not BOTTLE: Type 0: Not OX SOX Mation Plication Number Citat 078583	t a Combination Not a Combination 0: Not a Combination er or Monograph ion	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date
# Item Code 1 NDC:60505- 2675-3 2 NDC:60505- 2675-3 3 NDC:60505- 2675-0 3 NDC:60505- 3 NDC:6050	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori Ap ANDA	OTTLE: Type 0: Not L BOTTLE: Type 0: P L BOTTLE: Type 0: P LISTER PACK: Type mation plication Numbe Citat 078583	t a Combination Not a Combination 0: Not a Combination er or Monograph ion	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025
# Item Code 1 NDC-60505- 2075-3 2075-3 3 NDC-60505- 2675-0 3 NDC-60505- 2675-0 3 NDC-60505- 2675-0 Marketing Marketing Category NNDA ARIPIPRAZ(ripiprazole table Product Infol Product Type Route of Admin	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Infori ANDA OLE et	NOTILE: Type 0: Not L BOTILE: Type 0: Not L BOTILE: Type 0: Not LISTER PACK: Type mation plication Number Citat 1 HUMAN PRES	t a Combination Not a Combination 0: Not a Combination er or Monograph ion	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025
# Item Code NDC:60505- 2675-2 NDC:60505- 2675-8 NDC:60505- 2675-8 NDC:60505- 2675-0	Product 1000 in 1 1000 in 1 10 in 1 B Product Infori Ap ANDA OLE et iistration	NOTILE; Type 0: Not BOTTLE; T	t a Combination Not a Combination O: Not a Combination er or Monograph ion SCRIPTION DRUG	Date 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025
# Item Code NDC:60505- 2675-2 NDC:60505- 2675-8 NDC:60505- 2675-0 NDC:60505- 2675-0 NDC:60505- 3 NDC:60505-	Product 1000 in 1 Product 10 in 1 B 10 in 1 B Product Inform Ap ANDA OLE et Information	NOTILE: Type 0: Not L BOTILE: Type 0: Not L BOTILE: Type 0: Not LISTER PACK: Type mation plication Number Citat 1 HUMAN PRES	t a Combination Not a Combination 0: Not a Combination er or Monograph ion SCRIPTION DRUG	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025
# Item Code NDC:60505- 2675-2 NDC:60505- 2675-8 NDC:60505- 2675-0 NDC:60505- 2675-0 NDC:60505- 3 NDC:60505-	Product 100 in 1 B Product 10	OTTLE: Type 0: Not BOTTLE: Type 0: Not SOX SUSTER PACK: Type mation plication Numbe Citat 078583 HUMAN PRE: n ORAL	t a Combination Not a Combination 0: Not a Combination er or Monograph ion SCRIPTION DRUG	Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676
# Item Code In Not: 60505- 2673-2 2673-2 2673-2 2673-2 2675-0 Marketing Marketing Category ARIPIPRAZI Inipiprazole table Product Infol Product Type Route of Admin Active Ingred Aripiprazole (UNII Inactive Ingred	Product 10 in 1 B Product 10 i	NOTILE: Type 0: Not L BOTTLE: Type 0: N L BOTT	t a Combination Not a Combination O: Not a Combination or or Monograph con SCRIPTION DRUG	Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676
# Item Code 1 NDC-60505- 2075-3 2075-3 NDC-60505- 2675-8 3 NDC-60505- 2675-9 3 NDC-60505- 3 REPIPRAZ(ripiprazole table Product Information of Admin Active Ingred Aripiprazole (UNIII Inactive Ingred MICROCRYSTALLI Magnesium Steal	Product 1000 in 1	NOTILE: Type 0: Not L BOTTLE: Type 0: N L BOTT	t a Combination Not a Combination O: Not a Combination or or Monograph con SCRIPTION DRUG	Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676 ength 20 mg
# Item Code In Not: 60505- 2675-2 26	Product 10 in 1 B Product 10 i	NOTILE: Type 0: Not L BOTTLE: Type 0: N L BOTT	t a Combination Not a Combination O: Not a Combination or or Monograph con SCRIPTION DRUG	Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676 ength 20 mg
# Item Code In Not: 60505- 2673-2 2673-2 2673-2 2675-0 Marketing Marketing Category MARIPIPRAZI Inipiprazole table Product Infoi Product Type Route of Admin Active Ingred Mipiprazole (UNII Inactive Ingred Microcarmellose S	Product 10 in 1 B Product 10 i	TOTILE: Type 0: Not L BOTTLE: Type 0: Not L	t a Combination Not a Combination O: Not a Combination or or Monograph con SCRIPTION DRUG	Date	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676 ength 20 mg
f Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-8 NDC:60505- 2675-0 Marketing Marketing Marketing Marketing Category NDA ARIPIPRAZ	Product 10 in 1 B Product 10 i	TOTILE: Type 0: Not L BOTTLE: Type 0: Not L	t a Combination Not a Combination O: Not a Combination or or Monograph con SCRIPTION DRUG	Date 07/24/2015 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015 Item Code (Source) Basis of Str Aripiprazole	Date 06/30/2025 12/31/2024 04/13/2018 Marketing End Date 06/30/2025 NDC:60505-2676 ength 20 mg
Marketing Marketing Marketing Marketing Marketing Marketing Marketing Category NDA RIPIPRAZI	Product 10 in 1 B Product 10 i	NOTILE: Type 0: Not L BOTTLE: Type 0: N L BOTT	t a Combination Not a Combination O: Not a Combination o: Not a Combination er or Monograph con SCRIPTION DRUG DUNI:82VFR53I78) Sent Name 32D61U) Score Size	Date 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015 Item Code (Source) Basis of Str Aripiprazole	Date
Marketing Category NDA ARIPIPRAZI Product Infor Product Type Route of Admin Active Ingred MICROCRYSTALL Magnesium Steal Partaric Acid (UNI Product Chartel MICROCRYSTALL Magnesium Steal MICROCRYSTALL MAGNES MICROCRYS	Product 10 in 1 B Product 10 i	NOTILE; Type 0: Not L BOTTLE; Type 0: Not L BOTTLE; Type 0: Not LISTER PACK; Type mation plication Number Citat 078583 HUMAN PRE: n ORAL tive Moiety ngredient Nam (178) (Aripiprazole - 1 Ingredie ULOSE (UNII: OPIR 70097M6130) 1194) UNII: M280L1H448) tics WHITE	a Combination Not a Combination O: Not a Combination o: Not a Combination o: Not a Combination SCRIPTION DRUG DUNII:82VFR53I78) Score	Date 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015 Item Code (Source) Basis of Str Aripiprazole	Date
Item Code NDC:60505- 2675-3 NDC:60505- 2675-8 NDC:60505- 2675-8 NDC:60505- 2675-0 ND	Product 10 in 1 B Product 10 i	NOTILE; Type 0: Not L BOTTLE; Type 0: Not L BOTTLE; Type 0: Not LISTER PACK; Type mation plication Number Citat 078583 HUMAN PRE: n ORAL tive Moiety ngredient Nam (178) (Aripiprazole - 1 Ingredie ULOSE (UNII: OPIR 70097M6130) 1194) UNII: M280L1H448) tics WHITE	t a Combination Not a Combination O: Not a Combination o: Not a Combination er or Monograph con SCRIPTION DRUG DUNI:82VFR53I78) Sent Name 32D61U) Score Size	Date 07/24/2015 07/24/2015 07/24/2015 Marketing Start Date 07/24/2015 Item Code (Source) Basis of Str Aripiprazole	Date

1	NDC:60505- 2676-3	30 in 1 BOTTLE; Type 0: Not a Combination Product	07/24/2015	12/31/2024
2	NDC:60505- 2676-8	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/24/2015	12/31/2024
3	NDC:60505- 2676-0	10 in 1 BOX	07/24/2015	04/13/2018
3		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
		I		

Marketing In	formation		
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078583	07/24/2015	12/31/2024

	ARI	PIP	RA	ZOLE
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aripiprazole tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:60505-2677
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Aripiprazole (UNII: 82VFR53I78) (Aripiprazole - UNII:82VFR53I78)	Aripiprazole	30 mg

nactive ingredients	nactive	Ingredients
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Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
Magnesium Stearate (UNII: 70097M6I30)	
Tartaric Acid (UNII: W4888I119H)	
Croscarmellose Sodium (UNII: M28OL1HH48)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

Product Characteristics

Color	PINK	Score	no score
Shape	ROUND	Size	10mm
Flavor		Imprint Code	ARI;30;APO
Contains			

Packaging

#	tem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60505- 2677-3	30 in 1 BOTTLE; Type 0: Not a Combination Product	07/24/2015	12/11/2023
2	NDC:60505- 2677-8	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/24/2015	12/11/2023
3	NDC:60505- 2677-0	10 in 1 BOX	07/24/2015	04/13/2018
3		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA078583	07/24/2015	12/11/2023	

Labeler - Apotex Corp (845263701)

Registrant - Apotex Inc. (209429182)

Esta	ablishment			
Name	Address	ID/FEI	Business Operations	
Apotex Inc.		209429182	manufacture(60505-3075, 60505-2673, 60505-2674, 60505-2675, 60505-2676, 60505- 2677), analysis(60505-3075, 60505-2673, 60505-2674, 60505-2675, 60505-2676, 60505-3673,	

Revised: 12/2023 Apotex Corp