

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use aripiprazole safely and effectively. See full prescribing information for aripiprazole.

### ARIPRAZOLE 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**

- **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 (5.3)).**
- **Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antipsychotics. Monitor for worsening and emergence of suicidal thoughts and behaviors (5.7)**

### RECENT MAJOR CHANGES

Warnings and Precautions, Metabolic Changes (5.4)

### INDICATIONS AND USAGE

Aripiprazole is an atypical antipsychotic indicated as oral formulations for the:

- Schizophrenia (1.4)
- Acute Treatment of Manic and Mixed Episodes associated with Bipolar (1.4.2)

### ADVERSE REACTIONS

Commonly observed adverse reactions (incidence 5% and at least twice that for placebo) were (6.1):

- Adult patients (monotherapy) with bipolar mania: akathisia, sedation, restlessness, tremor, and extrapyramidal disorder
- Adult patients (adjunctive therapy with lithium or valproate) with bipolar mania: akathisia, insomnia, and extrapyramidal disorder
- Pediatric patients (10 to 17 years) with bipolar mania: somnolence, extrapyramidal disorder, fatigue, nausea, akathisia, headache, hyperlocomotion, and dizziness

See **TABLE 2: Aripiprazole Tablets Presentations**

See **TABLE 3: Dosage Adjustments for CYP450 P450 Considerations**

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

### CONTRAINDICATIONS

- Known hypersensitivity to aripiprazole (6)

### WARNINGS AND PRECAUTIONS

- **Cardiovascular Adverse Reactions in Elderly Patients with Dementia-Related Psychosis:** Increased incidence of cardiovascular adverse reactions (e.g., stroke, transient ischemic attack, including fatal events) (5.3)
- **Neuroleptic Malignant Syndrome:** Manage with immediate discontinuation and close monitoring (5.3)
- **Tardive Dyskinesia:** Discontinue if clinically appropriate (5.4)
- **Metabolic Changes:** Atypical antipsychotic drugs have been associated with metabolic changes that include hyperglycemia/diabetes mellitus, dyslipidemia, and body weight gain (5.5)

See **TABLE 4: Changes in Fasting Glucose From Placebo-Controlled Monotherapy Trials in Adult Patients**

See **TABLE 5: Changes in Fasting Glucose From Placebo-Controlled Trials in Pediatric and Adolescent Patients**

See **TABLE 6: Changes in Blood Lipid Parameters From Placebo-Controlled Monotherapy Trials in Adults**

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

Patients with major depressive disorder (MDD) who experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressants, and this risk may persist even after discontinuation of antidepressant therapy. This analysis included patients with psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. In a large, long-standing control, 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 analysis of 18 clinical trials in patients with MDD (including placebo and other) 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 young patients compared to placebo in children and adults beyond age 24. There was a reduction with antidepressants compared to placebo in adults aged 65 and older.

The pooled analysis of placebo-controlled trials in children and adolescents with MDD, Obsessive Compulsive Disorder (OCD), and other psychiatric disorders included a total of 48 short-term trials of antidepressant drugs over 4400 patients. The pooled analysis 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 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-to-placebo) difference in the number of cases of suicidality per 1000 patients are provided in Table 3.

Table 3: **Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated**

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
<18	5 additional cases
18 to 24	5 additional cases
25 to 64	1 fewer case
≥65	4 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. There were no significant differences between aripiprazole and placebo treatments in the proportion with changes from baseline to clinically significant levels for fasting/total cholesterol, fasting triglycerides, fasting LDL, and fasting/infasting HDLs. Analyses of patients with at least 12 or 24 weeks of exposure were limited by small numbers of patients.

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, 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 suicidal ideation and actions at risk for the emergence of these symptoms.

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.

**6.2 Postmarketing Experience**  
The following adverse events 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 (anaphylaxis), angioedema, laryngospasm, pruritus/urticaria, or oropharyngeal spasm, and blood glucose fluctuations.

**7. DRUG INTERACTIONS**  
**7.1 Drugs Having Clinically Important Interactions with Aripiprazole**  
**7.1.1 Clinically Important Drug Interactions with Aripiprazole**

Concomitant Drug Name or Drug Class	Clinical Rationale	Clinical Recommendation
<b>Strong CYP3A4 Inhibitors</b> (e.g., itraconazole, clarithromycin) or strong CYP2D6 inhibitors (e.g., quinidine, fluoxetine, paroxetine)	The concomitant use of aripiprazole with strong CYP3A4 or CYP2D6 inhibitors increases the exposure of aripiprazole alone. See DOSAGE AND ADMINISTRATION (2.7) and CLINICAL PHARMACOLOGY (12.3).	With concomitant use of aripiprazole with a strong CYP3A4 inhibitor or strong CYP2D6 inhibitor, reduce the aripiprazole dosage (see DOSAGE AND ADMINISTRATION (2.7) and CLINICAL PHARMACOLOGY (12.3)).
<b>Strong CYP3A4 Inducers</b> (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)).	With concomitant use of aripiprazole with a strong CYP3A4 inducer, consider increasing the aripiprazole dosage (see DOSAGE AND ADMINISTRATION (2.7)).
<b>Antihypertensive Drugs</b>	Due to its alpha adrenergic antagonism, aripiprazole has the potential to enhance the effect of antihypertensive agents.	Monitor blood pressure and adjust dose accordingly (see WARNINGS AND PRECAUTIONS (5.7)).
<b>Benzodiazepines</b> (e.g., lorazepam)	The intensity of sedation was greater with the combination of 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 CLINICAL PHARMACOLOGY (12.3)).	Monitor sedation and blood pressure. Adjust dose accordingly.

**7.2 Drugs Having No Clinically Important Interactions with Aripiprazole**  
Based on pharmacokinetic studies, no dosage adjustment of aripiprazole is required when administered concomitantly with tramadol, valproate, lithium, lorazepam, aripiprazole, or doxapram. No dosage adjustment is required for aripiprazole when administered with tramadol, valproate, lithium, lorazepam, aripiprazole, or doxapram. Additionally, no dosage adjustment is required for aripiprazole when administered with tramadol, valproate, lithium, lorazepam, aripiprazole, or doxapram. Additionally, no dosage adjustment is required for aripiprazole when administered with tramadol, valproate, lithium, lorazepam, aripiprazole, or doxapram.

**8. USE IN SPECIFIC POPULATIONS**

**8.1 Pregnancy**  
**Teratogenic Effects:**  
Pregnancy Category C  
**Pregnancy Exposure Registry**  
There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to aripiprazole during pregnancy. For more information call the National Pregnancy Registry for Atypical Antipsychotics at 1-866-973-2388 or visit <http://www.nationalpregnancyregistry.com>.

**Risk Summary**  
Neonates exposed to antipsychotic drugs (including aripiprazole) during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms. Animal reproduction studies with aripiprazole have not been conducted in pregnant women. Animal reproduction studies were conducted with aripiprazole in rats and rabbits during organogenesis, and in rats during the pre- and post-natal period in rats at doses higher than the maximum recommended human dose (MRHD) produced fetal death, decreased fetal weight, undescended testicles, delayed skeletal ossification, skeletal anomalies, and dysplastic mammary glands. In pregnant rats, aripiprazole administration during the pre- and post-natal period in rats at doses higher than the maximum recommended human dose (MRHD) produced prolonged gestation, stillbirths, decreased pup weight, and decreased pup survival. Administer aripiprazole during pregnancy only if the potential benefit justifies the potential risks to the fetus.

**8.2 Lactation**  
Extrapituitary and/or withdrawal symptoms, including agitation, hypertension, 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. Some neonates recovered within hours or days without specific treatment, others required prolonged hospitalization. Monitor neonates for extrapyramidal and/or withdrawal symptoms.

**8.3 Nursing Mothers**  
Aripiprazole is present in human breast milk. Because of the potential for serious adverse reactions in nursing infants from aripiprazole, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

**8.4 Pediatric Use**  
The pharmacokinetics of aripiprazole and dehydro-aripiprazole in pediatric patients 10 to 17 years of age was 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 (2.7), ADVERSE REACTIONS (5.1), and CLINICAL STUDIES (14.2)). 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.

**Bipolar Disorder**  
Safety and effectiveness in pediatric patients with bipolar mania were established in a 4-week, placebo-controlled clinical trial in 197 pediatric patients aged 10 to 17 years (see DOSAGE AND ADMINISTRATION (2.7), ADVERSE REACTIONS (5.1), and CLINICAL STUDIES (14.2)). 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.

**Information describing a clinical study in which efficacy was not demonstrated in patients aged 6 to 17 years is approved for Otsuka America Pharmaceutical, Inc.'s ABILIFY (aripiprazole). Additional information in patients aged 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 this 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 with weighing 21 days old through maturity (80 days old). At 40 mg/kg/day, mortality decreased activity, impaired learning, 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), adrenal (adrenocortical hypertrophy), mammary glands (hypoplasia and increased secretory), and female reproductive organs (vaginal mucinification, endometrial atrophy, decreased ovarian corpora lutea) were observed. The changes in female reproductive organs were considered secondary to the increase in prolactin serum levels. An 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 (AUC) to 40 mg/kg/day aripiprazole as its major active metabolite and adducts at the maximum recommended pediatric dose of 15 mg/kg/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 adults from previously conducted studies.

**8.5 Geriatric Use**  
No dosage adjustment is recommended for elderly patients (see ALSO BOXED WARNINGS, WARNINGS AND PRECAUTIONS (5.1), and CLINICAL PHARMACOLOGY (12.3)).

Of the 13,343 patients treated with oral aripiprazole in clinical trials, 1073 (8% were <65 years old and 799 (6%) were >75 years old). Placebo-controlled studies of oral aripiprazole in schizophrenia, bipolar mania, or another indication 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 use in patients with psychiatric disorders associated with Alzheimer's disease (see also **BLACK BOX 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 to 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 30 mL/min) (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 Abuse and Dependence**  
Aripiprazole has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. In physical dependence studies in monkeys, withdrawal symptoms were observed during withdrawal. While clinical trials did not evaluate withdrawal 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. Consequently, patients should be evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of aripiprazole abuse, misuse, or abuse (e.g., development of tolerance, increases in dose, drug-seeking behavior).

**10. OVERDOSAGE**  
MEDTOX terminology has been used to classify the adverse reactions.

**10.1 Human Experience**  
The acute and postmarketing experience, adverse reactions of deliberate or accidental overdose 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 measure of aripiprazole is 1260 mg of oral aripiprazole (42 times the maximum recommended daily dose) by a patient who fully recovered. Deliberate or accidental overdose was also reported in children (age 12 and younger) involving oral aripiprazole ingestions up to 195 mg with fatal results.

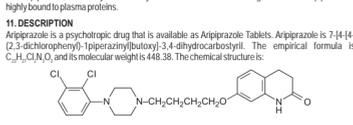
Common adverse reactions (reported in at least 5% of all adverse cases) reported with oral aripiprazole overdose (alone or in combination with other substances) include vomiting, somnolence, and tremor. Other clinically important signs and symptoms observed in one or more patients with aripiprazole overdoses (alone or with other substances) include: anisocoria, ataxia, blurred vision, hypotension, increased atrial fibrillation, bradycardia, coma, confusion, delirium, convulsion, blood creatine phosphokinase increased, depressed level of consciousness, hypertension, hypotension, hypotension, lethargy, loss of consciousness, QRS complex prolonged, QT prolonged, pneumonia aspiration, respiratory arrest, status epilepticus, and tachycardia.

**10.2 Management of Overdose**  
No specific information is available on the treatment of overdose with aripiprazole. An electrocardiogram should be obtained in cases of overdose 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.

**Cholestyramine**  
In the event of an overdose of aripiprazole tablet, an early cholestyramine 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<sub>max</sub> 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 a psychotropic drug that is available as Aripiprazole Tablets. Aripiprazole is 7-[4-(4-dipiperidin-1-yl-1-piperazinyl)butyl]-3,4-dihydroquinoline. The empirical formula is C<sub>24</sub>H<sub>31</sub>N<sub>5</sub>O and its molecular weight is 448.58. The chemical structure is:



Aripiprazole Tablets are available in 2 mg, 5 mg, 10 mg, 15 mg, 20 mg, and 30 mg strengths. Inactive ingredients include: calcium stearate, hydroxypropyl cellulose, lactose monohydrate, croscopollose, colloidal silicon dioxide, magnesium stearate, and microcrystalline cellulose. Colorants include ferrous oxide (yellow or red).

**12. CLINICAL PHARMACOLOGY**  
**12.1 Mechanism of Action**  
The mechanism of action of aripiprazole in schizophrenia or bipolar mania is unknown. However, the efficacy of aripiprazole could be mediated through a combination of partial agonist activity at D<sub>2</sub> and 5-HT<sub>1A</sub> receptors and antagonistic activity at 5-HT<sub>2A</sub> receptors. Actions at receptors other than D<sub>2</sub>, 5-HT<sub>1A</sub>, and 5-HT<sub>2A</sub> may explain some of aripiprazole's effects. In the orthostatic hypotension observed with aripiprazole may be explained by its antagonistic activity at adrenergic alpha<sub>1</sub> receptors.

**12.2 Pharmacodynamics**  
Aripiprazole is a partial agonist at the dopamine D<sub>2</sub> and 5-HT<sub>1A</sub> receptors (K<sub>i</sub> values of 0.3 nM, 0.8 nM, 1.7 nM, and 0.4 nM, respectively), moderate affinity antagonist of D<sub>1</sub>, serotonin 5-HT<sub>2A</sub>, 5-HT<sub>2B</sub>, alpha<sub>1</sub>, alpha<sub>2</sub>, and histamine H<sub>1</sub> receptors (K<sub>i</sub> values of 44 nM, 15 nM, 39 nM, 57 nM, and 61 nM, respectively), and moderate affinity for the serotonin reuptake site (K<sub>i</sub> 96 nM). Aripiprazole has no appreciable affinity for cholinergic muscarinic receptors (K<sub>i</sub> >1000 nM). Aripiprazole functions as a partial agonist at the dopamine D<sub>2</sub> and the serotonin 5-HT<sub>1A</sub> receptors, and as an antagonist of serotonin 5-HT<sub>2A</sub> receptors.

**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<sub>2</sub> receptors similar to the parent drug and represents 40% of the parent drug exposure in plasma. The mean elimination half-life 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 steady state, the pharmacokinetics of aripiprazole are dose-proportional. Elimination of aripiprazole is mainly through hepatic metabolism involving two P450 isoenzymes, CYP2D6 and CYP3A4. For CYP2D6 poor metabolizers, the mean elimination half-life for aripiprazole is about 144 hours.

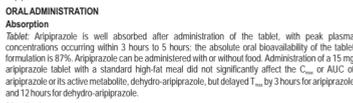
**ORAL ADMINISTRATION**  
**Absorption**  
Tablet: Aripiprazole is well absorbed after administration of the tablet, with peak plasma concentrations occurring within 3 hours to 5 hours; the absolute oral bioavailability of the tablet formulation is 87%. Aripiprazole can be administered with or without food. Administration of a 15 mg aripiprazole tablet with a standard high-fat meal did not significantly affect the C<sub>max</sub> or AUC of aripiprazole or its active metabolite, dehydro-aripiprazole, but delayed T<sub>max</sub> by 3 hours for aripiprazole and 12 hours for dehydro-aripiprazole.

**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. All 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 aripiprazole for 14 days, there was dose-dependent D<sub>2</sub> receptor occupancy indicating brain penetration of aripiprazole in humans.

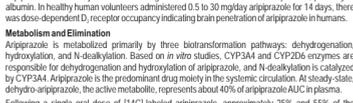
**Metabolism and Elimination**  
Aripiprazole is metabolized primarily by two biotransformation pathways: dehydrogenation and hydroxylation, and N-dealkylation. Based on *in vitro* studies, CYP3A4 and CYP2D6 enzymes are responsible for dehydrogenation and hydroxylation of aripiprazole, and N-dealkylation is catalyzed by CYP3A4. Aripiprazole is the predominant drug moiety in the systemic circulation. At steady state, dehydro-aripiprazole, the active metabolite, represents about 45% of aripiprazole AUC in plasma. Following a single oral dose of [14C]-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 16% 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<sub>max</sub> 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<sub>max</sub> and AUC values at steady state is expected in poor metabolizers of CYP2D6 administered with strong CYP3A4 inhibitors.

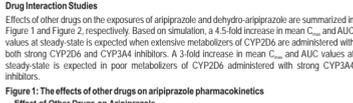
**Figure 1: The effects of other drugs on aripiprazole pharmacokinetics**  
**Effect of Other Drugs on Aripiprazole**



**Figure 2: The effects of other drugs on dehydro-aripiprazole pharmacokinetics**  
**Effect of Other Drugs on Dehydro-Aripiprazole**



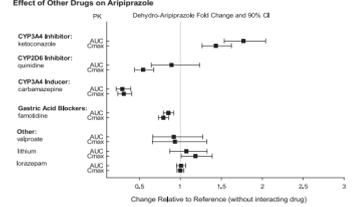
**Figure 3: The effects of aripiprazole on other drug pharmacokinetics of other drugs**  
**Effect of Aripiprazole on Other Drugs**



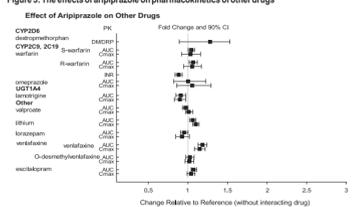
**Figure 4: The effects of aripiprazole on aripiprazole pharmacokinetics**  
**Effect of Other Drugs on Aripiprazole**



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



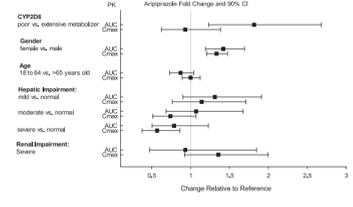
**Figure 3: The effects of aripiprazole on other drug pharmacokinetics of other drugs**



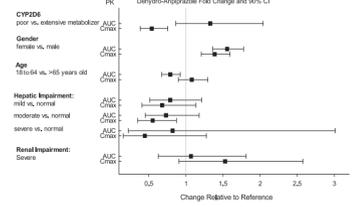
**Figure 4: The effects of aripiprazole on aripiprazole pharmacokinetics**

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 adults.

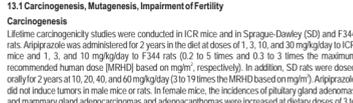
**Figure 4: Effects of intrinsic factors on aripiprazole pharmacokinetics**



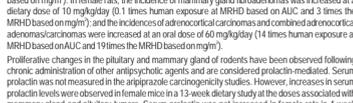
**Figure 5: Effects of intrinsic factors on dehydro-aripiprazole pharmacokinetics**



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



**Figure 7: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Relapse (Bipolar Study)**



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) 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 rater/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 16). 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 16). 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 doses of aripiprazole were superior to placebo in the PANSS total score (Study 3 in Table 16). 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 16). The primary outcome measure of the study. The 2 and 5 mg doses did not demonstrate superiority to placebo on the primary outcome measure.

Thus, the efficacy of 10, 15, 20, and 30 mg/day 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 groups for 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 130 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 (moderately worse), scores <5 (moderately severe) on the hostility or interpersonal sensitivity items of the PANSS, or >20% increase in the PANSS total score. Patients receiving aripiprazole of 15 mg/day maintained 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 two 6-week, placebo-controlled trials in outpatients who met DSM-IV criteria for schizophrenia and had a PANSS score >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 doses 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 4 in Table 16), the primary outcome measure of the study. The 30 mg/day dosage was 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 16: Schizophrenia Studies**

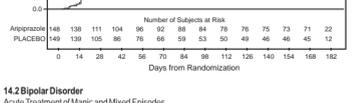
Study Number	Treatment Group	Primary Efficacy Measure: PANSS		
		Mean Baseline Score (SD)	LS Mean Change (SE)	Placebo-subtracted Difference* (95% CI)
Study 1	Aripiprazole (15 mg/day)*	98.5(17.2)	-15.5(2.4)	-12.6(-18.9, -6.2)
	Placebo	99.1(19.2)	-11.4(2.39)	-8.5(-14.8, -2.1)
Study 2	Aripiprazole (20 mg/day)*	100.2(16.5)	-2.9(2.36)	-9.6(-15.4, -3.8)
	Placebo	92.1(19.5)	-14.5(2.23)	-9.6(-15.4, -3.8)
Study 3	Aripiprazole (10 mg/day)*	94.2(18.5)	-13.9(2.24)	-9(-14.8, -3.1)
	Placebo	94.3(18.5)	-5.2(1.7)	---
Study 4	Aripiprazole (10 mg/day)*	92.7(19.5)	-15.2(3.8)	-12.7(-19, -6.4)
	Placebo	93.2(21.8)	-11.7(2.38)	9.4(-15.71, -3.08)
Study 5	Aripiprazole (15 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)	---
Study 6	Aripiprazole (10 mg/day)*	90.7(14.5)	-8.2(1.9)	-2.9(-8.29, 2.47)
	Placebo	92.1(21.6)	-10.6(1.93)	-9.6(-10.0, 0.19)
Study 7 (Pediatric, 13 to 17 years)	Aripiprazole (10 mg/day)*	90.1(11.9)	-11.3(1.88)	-5.9(-11.53, 0.58)
	Placebo	90.8(13.3)	-5.3(1.97)	---
Study 8	Aripiprazole (30 mg/day)*	93.1(15.7)	-26.7(1.91)	-5.5(-10.7, 0.21)
	Placebo	94.1(16.1)	-28.6(1.92)	-7.4(-12.7, 2.13)
Study 9	Aripiprazole (30 mg/day)*	94.6(15.6)	-21.2(1.93)	---
	Placebo	94.6(15.6)	-21.2(1.93)	---

SD: standard deviation; SE: standard error; LS: Least-squares mean; CI: unadjusted confidence interval.  
\*Difference (drug minus placebo) in least-squares mean change from baseline.  
\*\*Dose statistically significantly superior to placebo.

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



**Figure 7: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Relapse to Any Mood (Bipolar Study)**



An examination of population subgroups did not reveal any clear evidence of differential responsiveness on the basis of age and gender; however, the proportion of combined affective relapses (manic plus depressive) was higher in patients in the placebo group. The number of observed manic episodes in the aripiprazole group (7) were fewer than that in the placebo group (19), while the number of combined affective relapses in the aripiprazole group (14) was similar to that in the placebo group (18). The Kaplan-Meier curves of the time from randomization to relapse to any mood event during the 52-week, double-blind treatment phase in the aripiprazole and placebo groups are shown in Figure 7.

Perforation

15 mm

## Medication Guide

# Aripiprazole (AR-i-PIP-ra-zole) Tablets

Read this Medication Guide before you start taking aripiprazole and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking to your healthcare provider about your medical condition or treatment.

### 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, including:

- **Increased risk of death in elderly patients with dementia-related psychosis:** Medicines like aripiprazole can raise the risk of death in elderly people who have lost touch with reality (psychosis) due to confusion and memory loss (dementia). Aripiprazole is 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 treatment.**
  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 restless
- panic 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 mood

### 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 member.
- **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 is aripiprazole?

Aripiprazole is a prescription medicine used to treat:

- schizophrenia
- manic or mixed episodes that happen with bipolar I disorder

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

- under 13 years of age with schizophrenia
- under 10 years of age with bipolar I disorder

### Who should not take aripiprazole?

**Do not take aripiprazole if you** are allergic to aripiprazole or any of the ingredients in aripiprazole. See the end of this Medication Guide for a [complete list of ingredients in aripiprazole](#).

### What should I tell my healthcare provider before taking aripiprazole?

Before taking aripiprazole, tell your healthcare provider 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 and also during therapy.
- seizures (convulsions).
- low or high blood pressure.
- heart problems or stroke.
- pregnancy or plans to become pregnant. It is not known if aripiprazole will harm your unborn baby.
- breast-feeding or plans to breast-feed. Aripiprazole can pass into your breast milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you receive aripiprazole.
- low white blood cell count.
- any other medical conditions.

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

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

Your healthcare provider can tell you if it is safe to take aripiprazole with your other medicines. Do not start or stop any medicines while taking aripiprazole 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 new medicine.

### How should I take aripiprazole?

- Take aripiprazole exactly as your healthcare provider tells you to take it. Do not change the dose or stop taking aripiprazole yourself.

297 mm

210 mm

Perforation

15 mm

- Aripiprazole can be taken with or without food.
- Aripiprazole tablets should be swallowed whole.
- If you miss a dose of aripiprazole, 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 at the same time.
- If you take too much aripiprazole, 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?

- Do not drive, operate heavy machinery, or do other dangerous activities until you know how aripiprazole affects you. Aripiprazole 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?

##### Aripiprazole may cause serious side effects, including:

##### See "What is the most important information I should know about aripiprazole?"

- **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 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. Tardive dyskinesia may also start after you stop receiving aripiprazole.
- **Problems with your metabolism such as:**
- **High blood sugar (hyperglycemia) and diabetes.** Increases in blood sugar can happen in some people who take aripiprazole. 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 and during your treatment.

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

- feel very thirsty
- need to urinate more than usual
- feel very hungry
- feel 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 regularly.
- **Orthostatic hypotension (decreased blood pressure).** Lightheadedness or fainting when rising too quickly from a sitting or lying position.

- **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?"
- **difficulty swallowing that can cause food or liquid to get into your lungs.**

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

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

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

- feeling sleepy
- headache
- vomiting
- fatigue
- increased or decreased appetite
- insomnia
- nausea
- stuffy nose
- weight gain
- uncontrolled movement such as restlessness, tremor, muscle stiffness

- increased saliva or drooling

These are not all the possible side effects of aripiprazole. For more information, ask your healthcare provider or pharmacist.

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?

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

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

##### General information about the safe and effective use of aripiprazole

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use aripiprazole for a condition for which it was not prescribed. Do not give aripiprazole to other people, even if they have the same condition. It may harm them.

This Medication Guide summarizes the most important information about aripiprazole. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about aripiprazole that was written for healthcare professionals.

For more information about aripiprazole call Trigen Laboratories, LLC at 888 9 TRIGEN (888-987-4436).

##### What are the ingredients in aripiprazole tablets?

**Active ingredient:** aripiprazole

**Inactive ingredients:** corn starch, hydroxypropyl cellulose, lactose monohydrate, crospovidone, colloidal silicon dioxide, magnesium stearate and microcrystalline cellulose. Colorants include ferric oxide (yellow or red).

**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.

ABILIFY® is a trademark of Otsuka Pharmaceutical Company.

Made in India.

Manufactured for:  
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Sayreville, NJ 08872  
www.trigenlab.com



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