

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, splined 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 hypertrophy), mammary glands (hyperplasia 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 (AUC₀₋₂₄ x₀) 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, hypocoordination, ataxia, recoordination 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 (AUC₀₋₂₄ x₀) 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 **Boned 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 ≥65 years old and 759 (6%) were >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 **Boned Warning and Warnings and Precautions (5.1)**).

8.6 CYP2D6 Poor Metabolizers
Dosage adjustment is recommended for patients with CYP2D6 poor metabolizers due to high aripiprazole concentrations. Approximately 5% of Caucasians and 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, creatinine clearance 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 Abuse
Aripiprazole is not a controlled substance.

9.2 Abuse
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, drug-seeking 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.

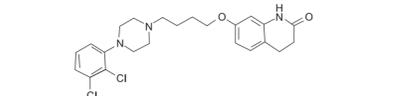
10 OVERDOSAGE
MedDRA terminology has been used to classify the adverse reactions.

10.1 Human Experience
In clinical trials and in postmarketing surveillance, 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 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 overdose was also reported in children (aged 1 to 9 years) involving oral aripiprazole tablet ingestions up to 195 mg with no fatalities.

Other adverse reactions reported in at least 5% of all overdose 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 overdose (alone or with other substances) include acidosis, aggression, aporrate aminotransferase increased, ataxia/fatigue, bradycardia, coma, confusional state, convulsion, blood creatine phosphokinase increased, depressed level of consciousness, hypertension, hypokalemia, hypotension, respiratory arrest, loss of consciousness, QRS complex prolonged, QT prolonged, pneumonia, status epilepticus, lethargy, 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 case 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.
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 of 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 tablets, USP are chemically designated as 7-[[4-[(2,3-Dichlorophenyl)-1-piperidinyl]butyl]-3,4-dihydro-2H-1-benzodiazepin-2-ylidene]quinoline. The empirical formula is C₂₃H₂₇Cl₂N₃O, and molecular weight is 448.38. The chemical structure is as follows:



Aripiprazole tablets, USP are available in 2 mg, 5 mg, 10 mg, 15 mg, 20 mg, and 30 mg strengths. Inactive ingredients include corn starch, FD&C Blue #2/Indigo Carmine Al, ferric oxide red, ferric oxide yellow, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate and microcrystalline cellulose. FDA approved dissolution test specifications differ from USP.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
The mechanism of action of aripiprazole in schizophrenia is unclear. However, the efficacy of aripiprazole in the listed indications could be mediated through a combination of partial agonist activity at D₂ 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-HT_{2C} and 5-HT_{1B}, alpha₁-adrennergic and histamine H₁ receptors (K_i values of 44 nM, 15 nM, 39 nM, 57 nM, and 1.0 nM, respectively), and moderate affinity for the serotonin 5-HT_{2B} receptor (K_i=98 nM). Aripiprazole has no appreciable affinity for cholinergic muscarinic receptors (C₅₀>10,000 nM).

12.3 Pharmacokinetics
Aripiprazole is primarily 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 D₂ 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 in about 14 days of dosing for both active moieties. Aripiprazole accumulation is predictable from single-dose pharmacokinetics. At steady-state, 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.

ORAL ADMINISTRATION
Absorption
Following 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 results in a 20% increase in C_{max} or AUC of aripiprazole or its active metabolite, dehydro-aripiprazole, but delayed T_{max} 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 4.3 L/kg), indicating extensive extracellular 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 D₂ receptor occupancy indicating brain penetration of aripiprazole in humans.
Metabolism and Elimination
Aripiprazole is metabolized primarily by three biotransformation pathways: hydroxylation, hydroxylation, and N-dealkylation. Based on *in vitro* studies, CYP3A4 and CYP2D6 enzymes are responsible for hydroxylation 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 [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 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 Figures 1 and Figure 2, respectively. Based on simulations, 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
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 the pharmacokinetics of other drugs
Effect of Aripiprazole on Other Drugs

Figure 4: Effects of intrinsic factors on aripiprazole pharmacokinetics
Sex and Age

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

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

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

Figure 8: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Relapse to Any Mood Event (Bipolar Study 9)

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

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. Lifetime carcinogenicity studies were performed for 2 years in the diet at doses of 1, 3, 10, and 30 mg/kg/day for ICR mice and 1, 3, and 10 mg/kg/day for F344 rats (0.2, 0.5, 2, and 5 times and 0.3, 1, and 3 times the MRHD of 30 mg/kg/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 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 adenocarcinomas were increased at dietary doses of 3 to 30 mg/kg/day (0.5 to 5 times the MRHD). In female rats, the incidences of mammary gland fibroadenomas was increased at a dietary dose of 10 mg/kg/day (3 times the MRHD), and the incidences of adenocarcinoma and combined adenocarcinoma adenomas/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 hyperdopaminergia. Serum prolactin was not measured in the carcinogenicity studies. However, increases in serum prolactin levels were observed in female mice at 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.

Mutagenesis
Lifetime carcinogenicity studies were 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 vitro* micronucleus assay in mice, and the unscheduled DNA synthesis assay in rats. Aripiprazole and a metabolite (2,3-DPPP) were cytotoxic in the *in vitro* chromosomal aberration assay in CHL cells with and without metabolic activation. The metabolite, 2,3-DPPP 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 vitro* 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/kg/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/kg/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/kg/day based on mg/m² body surface area or equivalent to the oral 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)**)

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.

14.1 Schizophrenia Adults
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-IV criteria for schizophrenia. Four of the five trials were able to distinguish aripiprazole tablets from placebo, but one study, the smallest, did not. Three of these studies also included an active control group (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 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 21 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=14) 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 3 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=64) 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, 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, and the PANSS severity score. These patients were discontinued from their antipsychotic medications and randomized to either 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 aggression items of the PANSS, or ≥20% increase in the PANSS total score. Patients receiving aripiprazole tablets 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 ≥70 at baseline. In this trial (n=302) comparing two fixed doses of aripiprazole (10 or 20 mg/day) to placebo, aripiprazole was superior to placebo in the PANSS total score (Study 4 in Table 26), PANSS positive subscale, and CGI-severity score. In addition, the 10 mg/day treatment arm and 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: PANNS		
		Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo subtracted Difference* (95% CI)
Study 1	Aripiprazole Tablets (15 mg/day)	98.5 (17.2)	-11.5 (2.40)	-12.6 (-18.3, -6.2)
	Aripiprazole Tablets (30 mg/day)	99 (20.2)	-11.4 (2.38)	-8.5 (-14.8, -2.1)
	Placebo	100.2 (16.5)	-2.9 (2.35)	--
Study 2	Aripiprazole Tablets (20 mg/day)	92.6 (19.5)	-14.5 (2.23)	-9.6 (-15.4, -3.8)
	Aripiprazole Tablets (30 mg/day)	94.2 (18.5)	-13.9 (2.24)	-9 (-14.8, -3.1)
	Placebo	94.3 (18.5)	-5.0 (2.17)	--
Study 3	Aripiprazole Tablets (10 mg/day)	92.7 (19.5)	-15.0 (2.38)	-12.7 (-19, -6.4)
	Aripiprazole Tablets (15 mg/day)	95.2 (21.6)	-11.7 (2.38)	-9.4 (-15.7, -3.08)
	Aripiprazole Tablets (20 mg/day)	92.5 (20.9)	-14.4 (2.45)	-12.1 (-18.53, 5.68)
Study 4	Aripiprazole Tablets (2 mg/day)	90.7 (14.5)	-8.2 (1.90)	-2.9 (-8.29, 2.47)
	Aripiprazole Tablets (5 mg/day)	92.0 (12.6)	-10.6 (1.93)	-5.2 (-10.7, 0.19)
	Aripiprazole Tablets (10 mg/day)	90.0 (11.9)	-11.3 (1.88)	-5.9 (-11.3, -0.58)
Study 6	Aripiprazole Tablets (10 mg/day)	93.0 (15.7)	-26.7 (1.91)	-5.5 (-10.7, -0.21)
	Aripiprazole Tablets (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. *Difference (drug minus placebo) in least-squares mean change from baseline.
†Doses statistically significantly superior to placebo.

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	Placebo	100.2 (16.5)	-2.9 (2.35)	--
Study 2	Aripiprazole Tablets (20 mg/day)	92.6 (19.5)	-14.5 (2.23)	-9.6 (-15.4, -3.8)
	Aripiprazole Tablets (30 mg/day)	94.2 (18.5)	-13.9 (2.24)	-9 (-14.8, -3.1)
	Placebo	94.3 (18.5)	-5.0 (2.17)	--
Study 3	Aripiprazole Tablets (10 mg/day)	92.7 (19.5)	-15.0 (2.38)	-12.7 (-19, -6.4)
	Aripiprazole Tablets (15 mg/day)	95.2 (21.6)	-11.7 (2.38)	-9.4 (-15.7, -3.08)
	Aripiprazole Tablets (20 mg/day)	92.5 (20.9)	-14.4 (2.45)	-12.1 (-18.53, 5.68)
Study 4	Aripiprazole Tablets (2 mg/day)	90.7 (14.5)	-8.2 (1.90)	-2.9 (-8.29, 2.47)
	Aripiprazole Tablets (5 mg/day)	92.0 (12.6)	-10.6 (1.93)	-5.2 (-10.7, 0.19)
	Aripiprazole Tablets (10 mg/day)	90.0 (11.9)	-11.3 (1.88)	-5.9 (-11.3, -0.58)
Study 6	Aripiprazole Tablets (10 mg/day)	93.0 (15.7)	-26.7 (1.91)	-5.5 (-10.7, -0.21)
	Aripiprazole Tablets (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. *Difference (drug minus placebo) in least-squares mean change from baseline.
†Doses statistically significantly superior to placebo.

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

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

Figure 8: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Relapse to Any Mood Event (Bipolar Study 9)

14.2 Bipolar Disorder
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.
Maintenance Treatment of Bipolar I Disorder
Monotherapy Maintenance Therapy
A maintenance trial was conducted in adult patients meeting DSM-IV criteria for bipolar I disorder with a recent manic or mixed episode who had been stabilized on open-label aripiprazole and who had maintained a clinical response for at least 6 weeks. The first phase of this trial was an open-label stabilization period in which inpatients and outpatients were clinically stabilized and then maintained on open-label aripiprazole (15 or 30 mg/day) with a starting dose of 30 mg/day for at least 6 consecutive weeks. One hundred sixty-one outpatients were then randomized in a double-blind fashion, to either the same dose of aripiprazole they were on at the end of the stabilization and maintenance period or placebo and were then monitored for manic or depressive relapse. During the randomization phase, aripiprazole was superior to placebo in time to the number of combined affective relapses (manic plus depressive), the primary outcome measure for this study (Study 7 in Figure 7). A total of 55 mood events were observed during the double-blind treatment phase. Nineteen were from the aripiprazole group and 36 were from the placebo group. The number of depressive episodes in the aripiprazole group (9) were fewer than that in the placebo group (11). An examination of population subgroups did not reveal any clear evidence of differential responsiveness on the basis of age and gender; however, there were insufficient numbers of patients in each of the ethnic groups to adequately assess inter-group differences.

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