

20 to 120 mg/day

LOCATION: Indrad/Dahej PRODUCT NAME Lurasidone Hydrochloride Tablets | COUNTRY : US Supersedes A/W No. ITEM / PACK NO. OF COLORS: REMARK: V. No.: 01 Outserf SUBSTRATE: 40 g/m² Bible Paper DESIGN STYLE PANTONE SHADE NOS. Front Side CODE 8100116 Activities Date Department Signature DIMENSIONS (MM) 760 x 510 Prepared By Pkg.Dev ART WORK SIZE S/S Black Reviewed By Pkg.Dev DATE 03-04-2025 Font Size 6.5 pt Medi_Guide 10 pt Approved By Quality

Note: Pharma code/ Bar code and adjacent text must be visible on folded leaflet. These details can be moved by printed to arrange pharma code/ Bar code and adjacent text visible on folded leaflet.

systolic blood pressure and ≥10 bpm increase in pulse from sitting to standing or supine to standing position

Bipolar Depression

Bipolar Depression

Adjunctive Therapy with Lithium or Valproate

compared to 7.1% (50/708) of placebo patients.

compared to 7.1% (8/112) of placebo patients.

Adjunctive Therapy with Lithium or Valproate

Pediatric Patients (10 to 17 years)

subject to dehydration.

5.13 Body Temperature Dysregulation

5.14 Activation of Mania/Hypomania

Precautions (5.3)1

tor patients for the emergence of such episodes.

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

Neuroleptic Malignant Syndrome [see Warnings and Precautions (5.4)]

Tardive Dyskinesia [see Warnings and Precautions (5.5)]

Metabolic Changes [see Warnings and Precautions (5.6)

Falls [see Warnings and Precautions (5.10)]

Seizures [see Warnings and Precautions (5.11)]

Dysphagia (see Warnings and Precautions (5.15))

Hyperprolactinemia [see Warnings and Precautions (5.7)]

Suicidal Thoughts and Behaviors (see Boxed Warning and Warnings and Precautions (5.2))

Leukopenia, Neutropenia, and Agranulocytosis [see Warnings and Precautions (5.8)]

Potential for Cognitive and Motor Impairment [see Warnings and Precautions (5.12)]

discontinuation in subjects treated with lurasidone hydrochloride that were at least 2% and at least twice the placebo rate.

Orthostatic Hypotension and Syncope [see Warnings and Precautions (5.9)]

Body Temperature Dysregulation [see Warnings and Precautions (5.13)]

Activation of Mania/Hypomania [see Warnings and Precautions (5.14)]

In the adult short-term, flexible-dosed, placebo-controlled monotherapy bipolar depression study, somnolence was reported by 7.3%

(12/164) and 13.8% (23/167) with lurasidone hydrochloride tablets 20 to 60 mg and 80 to 120 mg, respectively compared to 6.5% (11/168)

In the adult short-term, flexible-dosed, placebo-controlled adjunctive therapy bipolar depression studies, somnolence was reported by 11.4%

In the 6-week, placebo-controlled bipolar depression study in pediatric patients 10 to 17 years, somnolence was reported by 11.4% (20/175)

Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised

emperature, e.g., exercising strenuously, exposure to extreme heat, receiving concomitant medication with anticholinergic activity, or being

when prescribing lurasidone hydrochloride for patients who will be experiencing conditions that may contribute to an elevation in core bod

Antidepressant treatment can increase the risk of developing a manic or hypomanic episode, particularly in patients with bipolar disorder.

In the adult bipolar depression monotherapy and adjunctive therapy (with lithium or valproate) studies, less than 1% of subjects in the

Increased Mortality in Elderly Patients with Dementia-Related Psychosis [see Boxed Warning and Warnings and Precautions (5.1)]

(41/360) of patients treated with lurasidone hydrochloride tablets 20 to 120 mg compared to 5.1% (17/334) of placebo patient

of patients treated with lurasidone hydrochloride tablets 20 to 80 mg/day compared to 5.8% (10/172) of placebo treated patients

These highlights do not include all the information needed to use LURASIDONE HYDROCHLORIDE TABLETS safely and effectively.	is 80 mg per day (2.6, 7.1).	trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. Lurasidone hydrochloride tablets are not approved for the treatment of patients with dementia-related psychosis [see Boxed Warning, Warnings and Precautions (5.3)]. 5.2 Suicidal Thoughts and Behaviors in Pediatric and Young Adult Patients	Data from the adult chart-term flevible-doced placeho-controlled adjunctive therapy bipolar depression studies are presented in Table 8

nitial U.S. Approval: 2010	Tablets: 20 mg, 40 mg, 60 mg, 80 mg and 120 mg (3)
WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS; and SUICIDAL THOUGHTS AND BEHAVIORS See full prescribing information for complete boxed warning. Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Lurasidone hydrochloride is not approved for the	CONTRAINDICATIONS Known hypersensitivity to lurasidone hydrochloride o components in the formulation (4). Concomitant use with a strong CYP3A4 inhibitor ketoconazole) (2.6, 4, 7.1). Concomitant use with a strong CYP3A4 inducer (e.g., rifa (2.6, 4, 7.1).

LURASIDONE HYDROCHLORIDE tablets, for oral use

Antidepressants increased the risk of suicidal though

suicidal thoughts and behaviors (5.2).

Warnings and Precautions (5.7

nonotherapy (1, 14,2).

adults (2.1) Schizophrenia

and behavior in pediatric and young adult patien Closely monitor for clinical worsening and emergence

-----INDICATIONS AND USAGE-----

-----RECENT MAJOR CHANGES-----

depression) in adults as adjunctive therapy with lithium or

Indication Starting Dose Recommended Dose

-----DOSAGE AND ADMINISTRATION-----

		WARNINGS AND PRECAUTIONS						
	•	Cerebrovascular Adverse Reactions in Elderly Patients with						
hts		Dementia-Related Psychosis: Increased incidence of						
its.		cerebrovascular adverse events (e.g., stroke, transient ischemic						
of		attack) (5.3).						
	•	Neuroleptic Malignant Syndrome: Manage with immediate						
		discontinuation and close monitoring (5.4).						
0005	•	Tardive Dyskinesia: Discontinue if clinically appropriate (5.5).						
2025		Metabolic Changes Monitor for hyperglycemia/diabetes						

-----DOSAGE FORMS AND STRENGTHS----

Lurasidone hydrochloride tablets are an atypical antipsychotic indicated for the treatment of: Schizophrenia in adults and adolescents (13 to 17 years) (1, Depressive episode associated with Bipolar I Disorder (bipolar neutropenia. Consider discontinuing unasiuone nyurocinorio in a clinically significant decline in WBC occurs in the absence of 5.3 Cerebrovascular Adverse Reactions, Including Stroke in Elderly Patients with Dementia-Related Psychosis 5.3 Cerebrovascular Adverse Reactions, Including Stroke in Elderly Patients with Dementia Related Psychosis depression) in adults and pediatric patients (10 to 17 years) as Orthostatic Hypotension and Syncope: Monitor heart rate and In placebo-controlled trials with risperidone, aripiprazole, and olanzapine in elderly subjects with dementia, there was a higher incidence of Depressive episode associated with Bipolar I Disorder (bipolar

-----ADVERSE REACTIONS------ 5.4 Neuroleptic Malignant Syndrome sidone hydrochloride tablets should be taken with food (at least Commonly observed adverse reactions (incidence ≥ 5% and at least — A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with 350 calories). Administration with food substantially increases the twice the rate for placebo) were (6.1): · Adult patients with schizophrenia: somnolence, akathisia, extrapyramidal symptoms, and nausea Adolescent patients (13 to 17 years) with schizophrenia:

(rhabdomyolysis), and acute renal failure. If NMS is suspected, immediately discontinue lurasidone hydrochloride and provide intensive symptomatic treatment and monitoring. 40 mg per day 40 mg to 160 mg per day somnolence, nausea, akathisia, EPŚ (non-akathisia), rhinitis 5.5 Tardive Dyskinesia (80 mg only), and vomiting Adult patients with bipolar depression: akathisia, Tardive dyskinesia is a syndrome consisting of potentially irreversible, involuntary, dyskinetic movements that can develop in patients trea 40 mg per day | 40 mg to 80 mg per day with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly, especially elderly women, it is

extrapyramidal symptoms, and somnolence Pediatric patients (10 to 17 years) with bipolar depression: 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. - adults (2.2) 20 mg per day 20 mg to 120 mg per day nausea, weight increase, and insomnia. To report SUSPECTED ADVERSE REACTIONS, contact Torrent Pharma Inc. at 1-800-912-9561 or FDA at 1-800-FDA-1088 or The rest 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, (10 to 17 years) (2.2) 20 mg per day 20 mg to 80 mg per day www.fda.gov/medwatch. although much less commonly, after relatively brief treatment periods at low doses or may even arise after discontinuation of treatment

Moderate and Severe Renal Impairment:
starting dose is 20 mg per day, and the maximum recommended dose is 80 mg per day (2.4, 8.6).

**Pregnancy: May cause extrapyramidal and or/withdrawal symptoms in neonates with third trimester exposure (8.1).

**Pregnancy: May cause extrapyramidal and or/withdrawal symptoms in neonates with third trimester exposure (8.1).

**Description Populations or completely, if antipsychotic treatment is without await purposes) 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.

**Client these considerations: Jurasidone hydrochloride should be prescribed in a manner that is most likely to minimize the occurrence 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. Moderate and Severe Hepatic Impairment: Recommended starting dose is 20 mg per day. The maximum recommended dose is 80 mg per day in moderate hepatic impairment and 40

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

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Concomitant Use of a Moderate CYP3A4 inhibitor (e.g

FULL PRESCRIBING INFORMATION: CONTENTS*	
WARNING:	
INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RI	LATED PSYCHOSIS; and SUICIDAL THOUGHTS AND BEHAVIORS
1 INDICATIONS AND USAGE	7 DRUG INTERACTIONS

8.2 Lactation

8.5 Geriatric Use

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Hepatic Impairmer

9.1 Controlled Substance

10.1 Human Experience

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynamics

13 NONCLINICAL TOXICOLOGY

4 CLINICAL STUDIES

Increased Mortality in Elderly Patients with Dementia-Related Psychosis
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Lurasidone

The efficacy of lurasidone hydrochloride in the treatment of mania associated with bipolar disorder has not been established.

re-evaluate the long-term usefulness of the drug for the individual patient [see Dosage and Administration (2.1 and 2.2)].

Dose adjustment is recommended in moderate (creatinine clearance: 30 to <50 mL/min) and severe renal impairment (creatinine clearance

<30 mL/min) patients. The recommended starting dose is 20 mg per day. The dose in these patients should not exceed 80 mg per day [see

Dose adjustment is recommended in moderate (Child-Pugh Score = 7 to 9) and severe hepatic impairment (Child-Pugh Score = 10 to 15)

patients. The recommended starting dose is 20 mg per day. The dose in moderate hepatic impairment patients should not exceed 80 mg per

Lurasidone hydrochloride tablets should not be used concomitantly with a strong CYP3A4 inducer (e.g., rifampin, avasimibe, St. John's wort,

rasidone hydrochloride tablets are available in the following shape and color (Table 1) with respective one-sided debossing.

day and the dose in severe hepatic impairment patients should not exceed 40 per mg/day [see Use in Specific Populations (8.7)].

2.6 Dose Modifications Due to Drug Interactions of CYP3A4 Inhibitors and CYP3A4 Inducers

hydrochloride tablets is 80 mg per day [see Contraindications (4), Drug Interactions (7.1)].

8.8 Other Specific Population

2 DOSAGE AND ADMINISTRATION Depressive Episodes Associated with Bipolar I Disorder 2.3 Administration Information 2.4 Dose Modifications for Renal Impairment 8 USE IN SPECIFIC POPULATIONS Dose Modifications for Hepatic Impairmer 2.6 Dose Modifications Due to Drug Interactions of

reduced to half of the original dose level. Recommended

DOSAGE FORMS AND STRENGTHS 5 WARNINGS AND PRECAUTIONS 5.1 Increased Mortality in Elderly Patients 5.2 Suicidal Thoughts and Behaviors in Pediatric and Young

9 DRUG ABUSE AND DEPENDENCE Adult Patients 9.2 Abuse 5.3 Cerebrovascular Adverse Reactions, Including Stroke in 10 OVERDOSAGE Elderly Patients with Dementia-Related Psychosis 5.4 Neuroleptic Malignant Syndrome 5.5 Tardive Dyskinesia

5.6 Metabolic Changes Hyperprolactinemia 5.8 Leukopenia, Neutropenia and Agranulocytosis Orthostatic Hypotension and Syncope 5.12 Potential for Cognitive and Motor Impairment

5.13 Body Temperature Dysregulation 14.1 Schizophrenia 14.2 Depressive Episodes Associated with Bipolar I Disorder
16 HOW SUPPLIED/STORAGE AND HANDLING 5.14 Activation of Mania/Hypomania 5.15 Dysphagia Disease or Dementia with Lewy Bodies *Sections or subsections omitted from the Full Prescribing 6 ADVERSE REACTIONS Information are not listed.

6.2 Postmarketing Experience

FULL PRESCRIBING INFORMATION

2 DOSAGE AND ADMINISTRATION

2.3 Administration Information

2.4 Dose Modifications for Renal Impairment

2.5 Dose Modifications for Hepatic Impairment

Concomitant Use with CYP3A4 Inhibitors

Concomitant Use with CYP3A4 Inducers

3 DOSAGE FORMS AND STRENGTHS

treatment (7 days or more) with the CYP3A4 inducer.

Table 1: Lurasidone Hydrochloride Tablets Presentation

ritonavir, voriconazole, mibefradil, etc.) [see Contraindications (4)].

Use in Specific Populations (8.6)1.

2.1 Schizophrenia

5.6 Metabolic Changes Atypical antipsychotic drugs have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These metabolic changes include hyperglycemia, dyslipidemia, and body weight gain. While all of the drugs in the class have been shown to produce some metabolic changes, each drug has its own specific risk profile. Hyperglycemia and Diabetes Mellitus

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

7.1 Drugs Having Clinically Important Interactions with Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients 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 7.2 Drugs Having No Clinically Important Interactions with hyperglycemia-related adverse events is not completely understood. However, epidemiological studies suggest an increased risk of

cemia-related adverse events in patients treated with the atypical antipsychotics. 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 hypergycemia during treatment with atypical antipsychotics should undergo fasting blood glucose testing. In some cases, hyperglycemia has resolved when the atypical antipsychotic was discontinued;

Adjunctive Therapy with Lithium or Valproate

Pediatric Patients (10 to 17 years)

In the 6-week, placebo-controlled bipolar depression study in pediatric patients 10 to 17 years, there were no reported adverse events of however, some patients required continuation of anti-diabetic treatment despite discontinuation of the suspect drug. Schizophrenia

7,000 adult patients, and over 4,400 pediatric patients, the incidence of suicidal thoughts and behaviors in pediatric and young adult patients

was greater in antidepressant-treated patients than in placebo-treated patients. The drug-placebo differences in the number of cases o

No suicides occurred in any of the pediatric studies. There were suicides in the adult studies, but the number was not sufficient to reach any

Table 2: Risk Differences of the Number of Cases of Suicidal Thoughts or Behaviors in the Pooled Placebo-Controlled Trials of

It is unknown whether the risk of suicidal thoughts and behaviors in pediatric and young adult patients extends to longer-term use

Drug-Placebo Difference in Number of Patients of Suicidal

houghts or Behaviors per 1,000 Patients Treated Increases Compared to Placebo

Decreases Compared to Placeb

1 fewer patient

6 fewer patients

icidal thoughts and behaviors per 1,000 patients treated are provided in Table 2.

conclusion about antidepressant drug effect on suicide.

Age Range

25 to 64

Warning Warnings and Precautions (5.1)]

Pooled data from short-term, placebo-controlled schizophrenia studies are presented in Table 3. Table 3: Change in Fasting Glucose in Adult Schizophrenia Studies

			Lura	asidone hydrochlo	ride		
	Placebo	20 mg/day	40 mg/day	80 mg/day	120 mg/day	160 mg/day	
		Mean Ch	ange from Baselin	e (mg/dL)			
	n=680	n=71	n=478	n=508	n=283	n=113	
Serum Glucose	-0.0	-0.6	+2.6	-0.4	+2.5	+2.5	
		Proportion of P	atients with Shifts	to ≥ 126 mg/dL			
Serum Glucose	8.3%	11.7%	12.7%	6.8%	10.0%	5.6%	
(≥ 126 mg/dL)	(52/628)	(7/60)	(57/449)	(32/472)	(26/260)	(6/108)	
			(primarily open-lab 4 (n=355), +0.8 mg				

In studies of adolescents and adults with schizophrenia, changes in fasting glucose were similar. In the short-term, placebo-controlled studies of adolescents and adults with schizophrenia, changes in fasting glucose were similar. In the short-term, placebo-controlled studies of adolescents and adults with schizophrenia, changes in fasting glucose were similar. In the short-term, placebo-controlled studies of adolescents and adults with schizophrenia, changes in fasting glucose were similar. of adolescents, fasting serum glucose mean values were -1.3 mg/dL for placebo (n=95), +0.1 mg/dL for 40 mg/du (n=90), and +1.8 mg/dL Bipolar Depression

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS; and SUICIDAL THOUGHTS AND BEHAVIORS Data from the adult short-term, flexible-dose, placebo-controlled monotherapy bipolar depression study are presented in Table 4.

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Lurasidone Hydrochloride is not approved for the treatment of patients with dementia-related psychosis [see Warnings and Precautions (5.1)].	Table 4: Change in Fasting Glucose in the Adult Monotherapy Bipolar Depression Study				
			Lurasidone	hydrochloride	
Suicidal Thoughts and Behaviors		Placebo	20 to 60 mg/day	80 to 120 mg/day	n=143 +1.8 6.4% (9/141) ride 80 to 120 mg/day, or placebo
Antidepressants increased the risk of suicidal thoughts and behavior in pediatric and young adults in short-term studies. Closely		Mean Change fro	om Baseline (mg/dL)		
monitor all antidepressant-treated patients for clinical worsening, and for emergence of suicidal thoughts and behaviors [see Warnings and Precautions (5.2)].		n=148	n=140	n=143	
	Serum Glucose	+1.8	-0.8	+1.8	
1 INDICATIONS AND USAGE		Proportion of Patients	with Shifts to ≥ 126 mg/dL		
Lurasidone hydrochloride tablets are indicated for: • Treatment of adult and adolescent patients (13 to 17 years) with schizophrenia [see Clinical Studies (14.1)].	Serum Glucose	4.3%	2.2%	6.4%	
 Ineating to doubt and adorescent patients (13 to 17 years) with schizophrenia [see clinical studies (14.1)]. Monotherapy treatment of adult and pediatric patients (10 to 17 years) with major depressive episode associated with bipolar I disorder (bipolar depression) [see Clinical Studies (14.2)]. Adjunctive treatment with lithium or valproate in adult patients with major depressive episode associated with bipolar I disorder (bipolar depression) [see Clinical Studies (14.2)]. 	(≥ 126 mg/dL)	(6/141)	(3/138)	(9/141)	
		flexibly dosed lurasidone hydroch	nloride 20 to 60 mg/day, Iurasidone hy	drochloride 80 to 120 mg/day, or pla	
	iii tiio uiiooiiti oiiou, opoii iat		n study, patients who received lurasic a mean change in glucose of +1.2 m		

short-term study and continued in the longer-term study, had a mean change in glucose of +1.2 mg/dL at week 24 (n=129). Adjunctive Therapy with Lithium or Valproate Data from the adult short-term, flexible-dosed, placebo-controlled adjunctive therapy bipolar depression studies are presented in Table 5.

Table 5: Change in Fasting Glucose in the Adult Adjunctive Therapy Bipolar Depression Studies The recommended starting dose of Jurasidone hydrochloride tablets is 40 mg once daily. Initial dose titration is not required. Lurasidone hloride tablets has been shown to be effective in a dose range of 40 mg per day to 160 mg per day [see Clinical Studies (14.1)]. The

hydrochloride tablets has been shown to be effective in a dose range of 40 mg per day to 160 mg per day [see Clinical Studies (14.1)]. The maximum recommended dose is 160 mg per day.		Placebo	20 to 120 mg/day	
Adolescents (13 to 17 years)		Mean Change from Baseline (mg/dL)		
The recommended starting dose of lurasidone hydrochloride tablets is 40 mg once daily. Initial dose titration is not required. Lurasidone		n=302	n=319	
The recommended starting dose of lurasidone hydrochloride tablets is 40 mg once daily. Initial dose titration is not required. Lurasidone hydrochloride tablets has been shown to be effective in a dose range of 40 mg per day to 80 mg per day [see Clinical Studies (14.1)]. The maximum recommended dose is 80 mg per day. Serum Glucose -0.9 Proportion of Patients with Shifts to > 126 mg/dL	+1.2			
o, ,	Proportion of Patients with Shifts to ≥ 126 mg/dL			
2.2 Depressive Episodes Associated with Bipolar I Disorder Adulte Serum Glucose 1.0	1.0%	1.3%		
	(≥ 126 mg/dL)	(3/290)	(4/316)	
The recommended claiming dece or large decirion in green and a Letting given energially as membranes and adjunctive allocates in the				

lithium or valproate. Initial dose titration is not required. Lurasidone hydrochloride tablets have been shown to be effective in a dose range of 20 mg per day to 120 mg per day as monotherapy or as adjunctive therapy with lithium or valproate. Patients were randomized to flexibly dosed lurasidone hydrochloride 20 to 120 mg/day or placebo as adjunctive therapy with lithium or valproate. maximum recommended dose, as monotherapy or as adjunctive therapy with lithium or valproate, is 120 mg per day. In the monotherapy study, the higher dose range (80 mg to 120 mg per day) did not provide additional efficacy, on average, compared to the lower dose range (80 mg per day) [see Clinical Studies (14.2)].

In the uncontrolled, open-label, longer-term bipolar depression study, patients who received lurasidone hydrochloride as adjunctive therapy with lithium or valproate.

In the uncontrolled, open-label, longer-term study and continued in the longer-term study, had a mean change in glucose of +1.7 mg/dL at week 24 (n=88). Pediatric Patients (10 to 17 years)

The recommended starting dose of lurasidone hydrochloride tablets is 20 mg given once daily as monotherapy. Initial dose titration is not required. The dose may be increased after one week based on clinical response. Lurasidone hydrochloride tablets have been shown to be a large the recommended starting dose of lurasidone hydrochloride tablets have been shown to be a large the recommended starting dose of lurasidone hydrochloride tablets have been shown to be a large the recommended starting dose of lurasidone hydrochloride tablets have been shown to be a large through the recommendation of the

required. The dose may be increased after one week based on clinical response. Lurasidone hydrochioride tablets and a dose range of 20 mg per day to 80 mg per day as monotherapy. At the end of the clinical study, most of the patients (67%) received 20 mg or 40 mg once daily [see Clinical Studies (14.2)]. The maximum recommended dose is 80 mg per day. Pediatric Patients (6 to 17 years) In a 104-week, open-label study in pediatric patients with schizophrenia, bipolar depression, or autistic disorder, 7 % of patients with a Lurasidone hydrochloride tablets should be taken with food (at least 350 calories). Administration with food substantially increases the absorption of lurasidone hydrochloride tablets. Administration with food increases the AUC approximately 2-fold and increases the Cmax Dyslipidemia

approximately 3-fold. In the clinical studies, lurasidone hydrochloride tablets was administered with food [see Clinical Pharmacology (12.3)]. Undesirable alterations in lipids have been observed in patients treated with atypical antipsychotics The effectiveness of lurasidone hydrochloride tablets for longer-term use, that is, for more than 6 weeks, has not been established in Schizophrenia

ontrolled studies. Therefore, the physician who elects to use lurasidone hydrochloride tablets for extended periods should periodically Pooled data from short-term, placebo-controlled schizophrenia studies are presented in Table (Table 6: Change in Fasting Lipids in Adult Schizophrenia Studies

mg/day Mean Change from Baseline (mg/dL) Proportion of Patients with Shift: Lurasidone hydrochloride tablets should not be used concomitantly with a strong CYP3A4 inhibitor (e.g., ketoconazole, clarithromycin,

Lurasidone hydrochlorid

If lurasidone hydrochloride tablets is being prescribed and a moderate CYP3A4 inhibitor (e.g. diltiazem, atazanavir, erythromycin, fluconazole, verapamil etc.) is added to the therapy, the lurasidone hydrochloride tablets dose should be reduced to half of the original dose level. Similarly, if a moderate CYP3A4 inhibitor is being prescribed and lurasidone hydrochloride tablet is added to the therapy, the In the uncontrolled, longer-term schizophrenia studies (primarily open-label extension studies), lurasidone hydrochloride was associate recommended starting dose of lurasidone hydrochloride tablets is 20 mg per day, and the maximum recommended dose of lurasidone with a mean change in total cholesterol and triglycerides of -3.8 (n=356) and -15.1 (n=357) mg/dL at week 24, -3.1 (n=303) and -4.8 (n=303) mg/dL at week 36 and -2.5 (n=307) and -6.9 (n=307) mg/dL at week 52, respectively. Grapefruit and grapefruit juice should be avoided in patients taking lurasidone hydrochloride tablets, since these may inhibit CYP3A4 and mg/dL for 40 mg/day (n=89), and +1.6 mg/dL for 80 mg/day (n=92), and fasting serum triglyceride mean values were +0.1 mg/dL for placebo

(n=95), -0.6 mg/dL for 40 mg/day (n=89), and +8.5 mg/dL for 80 mg/day (n=92). phenytoin, carbamazepine, etc.) [see Contraindications (4); Drug Interactions (7:1)]. If Iurasidone hydrochloride tablets are used concomitantly with a moderate CYP3A4 inducer, it may be necessary to increase the lurasidone hydrochloride tablets dose after chronic

Data from the adult short-term, flexible-dosed, placebo-controlled, monotherapy bipolar depression study are presented in Table 7 Table 7: Change in Fasting Lipids in the Adult Monotherapy Bipolar Depression Study

tusto 1. Cutastudio il yarotimottato lasticis 1 icacintations							
Tablet Strength Tablet Color/Shape Tablet Markings					Lurasidone l	nydrochloride	
20 mg	white to off-white round biconvex	Plain on one side and debossed "64" on other side.		Placebo	20 to 60 mg/day	80 to 120 mg/day	
40 mg	white to off-white round biconvex	Plain on one side and debossed "65" on other side.		Mean Change fi	rom Baseline (mg/dL)		
60 mg	white to off-white oblong	Plain on one side and debossed "509" on other side.		n=147	n=140	n=144	
80 mg	pale green oval	Plain on one side and debossed "466" on other side.	Total cholesterol	-3.2	+1.2	-4.6	
120 mg	white to off-white oval	Plain on one side and debossed "465" on other side.	Triglycerides	+6.0	+5.6	+0.4	
CONTRAINDICATIONS				Proportion of I	Patients with Shifts		
. Known hypersensitivity to lurasidone HCI or any components in the formulation. Angioedema has been observed with lurasidone [see			Total cholesterol	4.2%	4.4%	4.4%	
Adverse Reactions (6.1)].			(≥ 240 mg/dL)	(5/118)	(5/113)	(5/114)	
,		oriconazole, mibefradil, etc.) [see Drug Interactions (7.1)].	Triglycerides	4.8%	10.1%	9.8%	
Strong CYP3A4 inducers (e	e.g., rifampin, avasimibe, St. John's wort, pher	nytoin, carbamazepine, etc.) [see Drug Interactions (7.1)].	(≥ 200 mg/dL)	(6/126)	(12/119)	(12/122)	
Elderly patients with dementi placebo-controlled trials (mod	lerly Patients with Dementia-Related Psycho la-related psychosis treated with antipsychol lal duration of 10 weeks), largely in patients t	sis tic drugs are at an increased risk of death. Analyses of 17 taking atypical antipsychotic drugs, revealed a risk of death in o-treated patients. Over the course of a typical 10-week controller	In the uncontrolled, open-label, short-term and continued in the	longer-term bipolar depression longer-term study had a mea	n study, patients who received lu	ne hydrochloride 80 to 120 mg/day trasidone hydrochloride as monoth d triglycerides of -0.5 mg/dL (n=13)	erapy ir

(28/260 (≥ 200 mg/dL) Patients were randomized to flexibly dosed lurasidone hydrochloride 20 to 120 mg/day or placebo as adjunctive therapy with lithium or with either lithium or valproate in the short-term study and continued in the longer-term study, had a mean change in total cholesterol and triglycerides of -0.9 (n=88) and +5.3 (n=88) mg/dL at week 24, respectively. Pediatric Patients (10 to 17 years)

Mean Change from Baseline (mg/dL

n=303

Proportion of Patients with Shifts

(≥ 240 mg/dL

Melabolic Changes: Monitor for hyperglycemia/diabetes mellitus, dyslipidemia and weight gain (5.6). Hypergrolactinemia: Prolactin elevations may occur (5.7). Leukopenia. Neutropenia. and Agranulocytosis: Ocniplete blood counts (CBC) in patients with a pre-existing low write blood cell count (WBC) or a history of the roausative factors (5.8).

Melabolic Changes: Monitor for hyperglycemia/diabetes mellitus, dyslipidemia and weight gain (5.6). Hypergrolactinemia: Prolactin elevations may occur (5.7). Leukopenia. Neutropenia. And Agranulocytosis: Ocniplete blood counts (CBC) in patients with a pre-existing low write blood cell count (WBC) or a history of leukopenia or a clinically significant decline in WBC occurs in the absence of other causative factors (5.8).

Melatopenia. Neutropenia. Consider discontinuing lurasidone hydrochloride tablets 20 to 80 mg/day (n=144) and +1.4 mg/d2 for placebo (n=145). and dean change in fasting of pediatric patients with schizophrenia, bipolar depression, study with pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression study with pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression, or autistic disorder, the median changes from 4-depression study with pediatric patients with schizophrenia, bipolar depression, or autistic disorder, the median changes from 4-depression or pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression study with pediatric patients with schizophrenia, bipolar depression study with pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression study with pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression or admission placebo (ne-145). and mean change in fasting the equation of pediatric patients with schizophrenia, bipolar depression, or autistic disorder, the median changes from 4-depression or pediatric patients (10 to 17 years) In the 6-week, placebo-controlled bipolar depression or pediatri Leukopenia/neutropenia has been reported during treatment with antipsychotic agents. Agranulocytosis (including fatal cases) has been

Urmostante. Hypotension and syncope: Monitor near rate and blood pressure and warm patients with known cardiovascular or cerebrovascular disease, and risk of dehydration or syncope: derebrovascular disease, and risk of dehydration or syncope: Weight Gain weight is recommended.

Weight Gain

Weight Gain

Weight Gain

Weight gain has been observed with atypical antipsychotic use. Clinical monitoring of weight is recommended. Adults
Pooled data from short-term, placebo-controlled schizophrenia studies are presented in Table 9. The mean weight gain was +0.43 kg for

A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs, inclined straining and syndrome in the straining of antipsychotic drugs, inclined straining and syndrome in the straining and syndr .. i= Waishi /l=\ f=== Basalisa i= Aduli Cabissabussia Ciudi Table 9: Mean Chang

a	ange in weight (kg) from Baseline in Adult Schizophrenia Studies						
	Lurasidone hydrochloride						
	Placebo (n=696)	20 mg/day (n=71)	40 mg/day (n=484)	80 mg/day (n=526)	120 mg/day (n=291)	160 mg/day (n=114)	
	-0.02	-0.15	+0.22	+0.54	+0.68	+0.60	
ed.	. longer-term schizo	ohrenia studies (prim	arily open-label ext	ension studies). Iu	rasidone hydrochl	oride was associated	

In the uncontrolled, longer-term schizophrenia studies (primarily open-label extension studies), lurasidone hydrochloride with a mean change in weight of -0.69 kg at week 24 (n=755), -0.59 kg at week 36 (n=443) and -0.73 kg at week 52 (n=377). <u>Adolescents</u> Data from the short-term, placeho-controlled adolescent schizophrenia study are presented in Table 10. The mean change in weight gain was Schizophrenia

Data from the short-term, placebo-controlled adolescent schizophrenia study are presented in laber to: The fineal charge in weight gain was 4.5.k for fur lurasidone hydrochloride tablets -treated patients. The proportion of patients with a ≥7% increase in body weight (at Endpoint) was 3.3% for lurasidone hydrochloride tablets-treated patients and 4.5% for placebo-treated patients and 4.5% for placebo-treated patients and 4.5% for lurasidone hydrochloride tablets-treated patients and 4.5% for placebo-treated patients and 4.5% for placebo-treated patients and 4.5% for lurasidone hydrochloride tablets-treated patients and 4.5% for placebo-treated patients and 4.5% for placebo-treated patients and 4.5% for placebo-treated patients and 4.5% for lurasidone hydrochloride incidence, placebo incidence, placebo incidence): orthostatic hypotension [0.3% (5/1,508), 0.1% (1/708)] and syncope [0.1% discontinuation in subjects treated with lurasidone hydrochloride that were at least 2% and at least twice the placebo rate.

1	tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that (1) is	Table 10: Mean Change in Wei	ight (kg) from Baseline in the Adolescen	ıt Schizophrenia Study	
	known to respond to antipsychotic drugs, and (2) for whom alternative, equally effective, but potentially less harmful treatments are not			Lurasidone hydrochloride tablets	
5	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.		Placebo (n=111)	40 mg/day (n=109)	80 mg/day (n=104)
	If signs and symptoms of tardive dyskinesia appear in a patient on lurasidone hydrochloride, drug discontinuation should be considered.	All Patients	+0.2	+0.3	+0.7
	However, some patients may require treatment with lurasidone hydrochloride despite the presence of the syndrome.	Bipolar Depression			
-	5.6 Metabolic Changes	<u>Adults</u>			
	Atypical antipsychotic drugs have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These	Monotherapy			
	metabolic changes include hyperglycemia, dyslipidemia, and body weight gain. While all of the drugs in the class have been shown to	Data from the adult about term	florible deced pleashs controlled man	atherens binder depression study a	re presented in Table 11. The

Data from the adult short-term, header-used, placebr-contidered minimizations of the adult short-term in earlier days and as 4.2.2 kg for lurasidone hydrochloride-treated patients. Compared to -0.04 kg for placebo-treated patients. The proportion of patients with a ≥7% increase in body weight (at Endpoint) was 2.4% for lurasidone hydrochloride-treated patients and Adults 0.7% for placebo-treated patients. treated with atvoical antipsychotics. Assessment of the relationship between atvoical antipsychotic use and plucose abnormalities is Table 11: Mean Change in Weight (kg) from Baseline in the Adult Monotherapy Bipolar Depression Study Lurasidone hydrochloride

> Patients were randomized to flexibly dosed lurasidone hydrochloride 20 to 60 mg/day, lurasidone hydrochloride 80 to 120 mg/day, or placebo In the uncontrolled, open-label, longer-term bipolar depression study, patients who received lurasidone hydrochloride as monotherapy in the short-term and continued in the longer-term study had a mean change in weight of -0.02 kg at week 24 (n=130).
>
> adverse events of orthostatic hypotension and syncope. Orthostatic hypotension, as assessed by vital signs, occurred with a frequency of 1.1% with lurasidone hydrochloride tablets 20 to 120 mg compared to 0.9% with placebo. short-term and continued in the longer-term study had a mean change in weight of -0.02 kg at week 24 (n=130).

The mean change in weight gain was +0.11 kg for lurasidone hydrochloride-treated patients compared to +0.16 kg for placebo-treated patients. The proportion of patients with a \geq 7% increase in body weight (at Endpoint) was 3.1% for lurasidone hydrochloride-treated patients

Table 12: Mean Change in Weight (kg) from Baseline in the Adult Adjunctive Therapy Bipolar Depression Studies Lurasidone hydrochloride 20 to 120 mg/day

Patients were randomized to flexibly dosed lurasidone hydrochloride 20 to 120 mg/day or placebo as adjunctive therapy with lithium or therapy with either lithium or valproate in the short-term and continued in the longer-term study, had a mean change in weight of +1.28 kg at week 24 (n-86) at week 24 (n=86). Pediatric Patients (10 to 17 years)

Data from the 6-week, placebo-controlled bipolar depression study in patients 10 to 17 years are presented in Table 13. The mean change in weight gain was +0.7 kg for lurasidone hydrochloride tablets-treated patients compared to +0.5 kg for placebo-treated patients. The Monotherapy onorrition of patients with a ≥7% increase in body weight (at Endpoint) was 4.0% for lurasidone hydrochloride tablets-treated patients and In the adult and p 5.3% for placebo-treated patients.

Table 13: Mean Change in Weight (kg) from Baseline in the Bipolar Depression Study in Pediatric Patients (10 to 17 years) Lurasidone hydrochloride 20 to 80 mg/day

In a long-term, open-label study that enrolled pediatric patients with schizophrenia, binolar depression, or autistic disorder from three has long term, placebo-controlled trials, 54% (378/701) received lurasidone for 104 weeks. The mean increase in weight from open-label baseline to Week 104 was 5.85 kg. To adjust for normal growth, z-scores were derived (measured in standard deviations [SD]), which normalize for the natural growth of children and adolescents by comparisons to age- and sex-matched population standards. A z-score change <0.5 SD is considered not clinically significant. In this trial, the mean change in z-score from open-label baseline to Week 104 was in short-term, placebo-controlled schizophrenia studies, somnolence was reported by 17.0% (256/1,508) of patients treated with lurasidone -0.06 SD for body weight and -0.13 SD for body mass index (BMI), indicating minimal deviation from the normal curve for weight gain. 5.7 Hyperprolactinemia As with other drugs that antagonize dopamine D₂ receptors, lurasidone hydrochloride elevates prolactin levels.

As with other drugs that alriagonize upparature by receptors, intradions in reduced pituitary gonadotrophin secretion. This, in turn, may inhibit reproductive function by impairing gonadal steroidogenesis in both female and male patients. Galactorrhea, amenorrhea, gynecomastia, and with reproductive function by impairing gonadal steroidogenesis in both female and male patients. Galactorrhea, amenorrhea gynecomastia, and with associated with the short-term, placebo-controlled adolescent schizophrenia study, somnolence was reported by 14.5% (31/214) of patients treated with the short-term, placebo-controlled adolescent schizophrenia study, somnolence was reported by 14.5% (31/214) of patients treated with fine short-term, placebo-controlled adolescent schizophrenia study, somnolence was reported by 14.5% (31/214) of patients treated with hypogonadism may lead to decreased hope density in both female and male natients. Isee Adverse Reactions (6)1 ho | Tissue culture experiments indicate that approximately one-third of human breast cancers are prolactin-dependent in vitro, a factor of otential importance if the prescription of these drugs is considered in a patient with previously detected breast cancer. As is common with compounds which increase prolactin release, an increase in mammary gland neoplasia was observed in a carcinogenicity study conducted with lurasidone in rats and mice [see Nonclinical Toxicology (13)]. Published epidemiologic studies have shown inconsistent results when exploring the potential association between hyperprolactinemia and breast cancer.

Adults

Monotherapy

In the adult sl

In short-term, placebo-controlled schizophrenia studies, the median change from baseline to endpoint in prolactin levels for lurasidone hydrochloride-treated patients was +0.4 ng/mL and was -1.9 ng/mL in the placebo-treated patients. The median change from baseline to endpoint for males was +0.5 ng/mL and for females was -0.2 ng/mL. Median changes for prolactin by dose are shown in Table 14. Table 14: Median Change in Prolactin (ng/mL) from Baseline in Adult Schizophrenia Studies Lurasidone hydrochloride

-		Placebo	20 mg/day	40 mg/day	80 mg/day	120 mg/day	160 mg/day
-	All Patients	-1.9 (n=672)	-1.1 (n=70)	-1.4 (n=476)	-0.2 (n=495)	+3.3 (n=284)	+3.3 (n=115)
	Females	-5.1 (n=200)	-0.7 (n=19)	-4.0 (n=149)	-0.2 (n=150)	+6.7 (n=70)	+7.1 (n=36)
	Males	-1.3 (n=472)	-1.2 (n=51)	-0.7 (n=327)	-0.2 (n=345)	+3.1 (n=214)	+2.4 (n=79)
The proportion of patients with prolactin elevations ≥5x upper limit of normal (ULN) was 2.8% for lurasidone hydrochloride-t and =1.0% for placebo-treated patients. The proportion of female patients with prolactin elevations ≥5x ULN was 5.7% hydrochloride-treated patients and =2.0% for placebo-treated female patients. The proportion of male patients with prolactin ULN was 1.6% and 0.6% for placebo-treated male patients.							5.7% for lurasidone
	In the uncontrolled longer-term schizophrenia studies (primarily open-label extension studies), lurasidone hydrochloride was associated wi						

In the short-term, placeho-controlled adolescent schizophrenia study, the median change from baseline to endpoint in prolactin levels for 5.15 Dysphagia is stort-term, placed advises and active median change from baseline from placetine-terms product in event to store the store that the store Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of ng/mL. Median changes for prolactin by dose are shown in Table 15.

Table 15: Median Change in Prolactin (ng/mL) from Baseline in the Adolescent Schizophrenia Stud 5.16 Neurological Adverse Reactions in Patients with Parkinson's Disease or Dementia with Lewy Bodies Lurasidone hydrochloride tablets Lurasidone hydrochloride tablets 80 mg/day and clinical features consistent with the neuroleptic malignant syndrome. **6 ADVERSE REACTIONS**

The proportion of patients with projectin elevations ≥5x ULN was 0.5% for jurasidone hydrochloride tablets-treated patients and 1.0% for acebo-treated patients. The proportion of female patients with prolactin elevations ≥5x ULN was 1.3% for lurasidone hydr olets-treated patients and 0% for placebo-treated female patients. The proportion of male patients with prolactin elevations ≥ 5x 1% for lurasidone hydrochloride tablets treated patients and 1.6% for placebo-treated male patients. Bipolar Depression

The median change from baseline to endpoint in prolactin levels, in the adult short-term, flexible-dosed, placebo-controlled monotherapy bipolar depression study, was +1.7 ng/mL and +3.5 ng/mL with lurasidone hydrochloride tablets 20 to 60 mg/day and 80 to 120 mg/day, respectively compared to +0.3 ng/mL with placebo-treated patients. The median change from baseline to endpoint for males was +1.5 ng/mL and for females was +3.1 ng/mL. Median changes for prolactin by dose range are shown in Table 16.

Table 16: Median Change in Prolactin (ng/mL) from Baseline in the Adult Monotherapy Bipolar Depression Stu Lurasidone hydrochloride 20 to 60 mg/day 80 to 120 mg/day

 Neurological Adverse Reactions in Patients with Parkinson's Disease or Dementia with Lewy Bodies [see Warnings and Precautions 6.1 Clinical Trials Experience Patients were randomized to flexibly dosed lurasidone hydrochloride 20 to 60 mg/day, lurasidone hydrochloride 80 to 120 mg/day, or placebo Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in clinical trials of a drug cannot be The proportion of patients with prolactin elevations ≥5x upper limit of normal (ULN) was 0.4% for lurasidone hydrochloride-treated patien and 0.0% for placebo-treated patients. The proportion of female patients with prolactin elevations ≥5x ULN was 0.6% for lurasidon directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. ed patients and 0% for placebo-treated female patients. The proportion of male patients with prolactin elevations ≥5x ULN Adults The information below is derived from an integrated clinical study database for lurasidone hydrochloride consisting of 3,799 adult patients was 0% and 0% for placebo-treated male patients. exposed to one or more doses of lurasidone hydrochloride for the treatment of schizophrenia, and bipolar depression in placebo-controlled In the uncontrolled, open-label, longer-term bipolar depression study, patients who were treated with lurasidone hydrochloride as studies. This experience corresponds with a total experience of 1,250.9 patient-years. A total of 1,106 lurasidone hydrochloride-treate patients had at least 24 weeks and 371 lurasidone hydrochloride-treated patients had at least 52 weeks of exposure. monotherapy in the short-term and continued in the longer-term study, had a median change in prolactin of -1.15 ng/mL at week 24 (n=130). Adjunctive Therapy with Lithium or Valproate Adverse events during exposure to study treatment were obtained by general inquiry and voluntarily reported adverse experiences, as well as

The median change from baseline to endpoint in prolactin levels, in the adult short-term, flexible-dosed, placebo-controlled adjunctive therapy bipolar depression studies was +2.8 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/mL with lurasidone hydrochloride 20 to 120 mg/day compared to 0.0 ng/ unerapy unpotal depression studies was +2.6 ng/mL with unrasidone nydrochionde 20 to 120 mg/day compared to 0.0 ng/mL with placebo-treated patients. The median change from baseline to endpoint for males was +2.4 ng/mL and for females was +3.2 ng/mL. Median reverse from the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence includes adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. In order to provide a meaningful estimate of the proportion of individuals experiencing adverse event terms: hypersomnia, sedation, and somnolence investigators using their own terminology. Table 17: Median Change in Prolactin (ng/mL) from Baseline in the Adult Adjunctive Therapy Bipolar Depression Studies

	Placebo	20 to 120 mg/day
All Patients	0.0 (n=301)	+2.8 (n=321)
Females	+0.4 (n=156)	+3.2 (n=162)
Males	-0.1 (n=145)	+2.4 (n=159)
Patients were randomized to flex valproate.	tibly dosed lurasidone hydrochloride 20 to 120 mg.	day or placebo as adjunctive therapy with lithium of
and 0.0% for placebo-treated p	atients. The proportion of female patients with p	vas 0.0% for lurasidone hydrochloride-treated patient rolactin, elevations ≥5x ULN was 0% for lurasidon

ULN was 0% and 0% for placebo-treated male patients.				in the Placebo-Treated Patients in Adult Short-term Schizophrenia Studies								
	In the uncontrolled, open-label, longer-term bipolar depression study, patients who were treated with lurasidone hydrochloride, as adjunctive therapy with either lithium or valproate, in the short-term and continued in the longer-term study, had a median change in prolactin of -2.9				3.0							
_	ng/mL at week 24 (n=88).	nn/ml at week 24 (n=88)						one hydrochlorid				
	Pediatric Patients (10 to 17 years)			Body System or	Placebo	20	40	80 ma/day	120	160	All Iurasidone	
_	In the 6-week, placebo-controlled bipolar depression	on study with pediatric patients 10 to	17 years, the median change from baseline to	Organ Class	(N=708) (%)	mg/day (N=71)	mg/day (N=487)	mg/day (N=538)	mg/day (N=291)	mg/day (N=121)	hydrochloride	
_	endpoint in prolactin levels for lurasidone hydrochlor				(70)	(%)	(%)	(%)	(%)	(%)	(N=1508)	
_	patients. For Lurasidone hydrochloride tablets-treated for females was +2.50 ng/mL. Median changes for pr		eline to enapoint for males was +0.85 ng/mL and			()	()	()	()	()	(%)	
_	Table 18: Median Change in Prolactin (ng/mL) from		tudy in Pediatric Patients (10 to 17 years)	Gastrointestinal								
_	(Lurasidone hydrochloride tablets	Disorders								
_		Placebo	20 to 80 mg/day	Nausea	5	11	10	9	13	7	10	
	All Patients	+0.50	+1.10	Vomiting	6	7	6	9	9	7	8	
		(n=157)	(n=165)	Dyspepsia	5	11	6	5	8	6	6	
-	Females	+0.55	+2.50	Salivary	_						0	
		(n=78)	(n=83)	Hypersecretion	<1	1	1	2	4	2	2	
_	Males	+0.50	+0.85	Musculoskeletal and Connective								
11		(n=79)	(n=82)	Tissue Disorders								
v	The proportion of patients with prolactin elevations			Back Pain	2	0	4	3	4	0	3	
y d	placebo-treated patients. The proportion of female tablets-treated patients and 1.3% for placebo-treated			Nervous System	-	Ü		Ü		Ü	Ü	
_	treatment groups had prolactin elevations $\geq 5x$ ULN.		the placebo of furasidone hydrochloride lablets	Disorders								
	Pediatric Patients (6 to 17 years)			Somnolence*	7	15	16	15	26	8	17	
S	In a 104-week, open-label study of pediatric patients	with echizonbrania hinolar danraccio	or autistic disorder the median changes from	Akathisia	3	6	11	12	22	7	13	
g	baseline to endpoint in serum prolactin levels were			Extrapyramidal								
	proportions of patients with a markedly high prolactin			Disorder**	6	6	11	12	22	13	14	
	2% (all patients), 3% (females), and 1% (males).	,		Dizziness	2	6	4	4	5	6	4	
g	Adverse events among females in this trial that are	potentially prolactin-related include ga	lactorrhea (0.6%). Among male patients in this	Psychiatric Disorde	rs							
n	study, decreased libido was reported in one patient (C	0.2%) and there were no reports of imp	otence, gynecomastia, or galactorrhea.	Insomnia	8	8	10	11	9	7	10	
i,	5.8 Laukonania Nautronania and Agranulocytosis			Anitation	4	10	7	3	6	5	5	

Possible risk factors for leukopenia/neutropenia include pre-existing low white blood cell count (WBC) and history of drug-induced leukopenia/neutropenia. Patients with a pre-existing low WBC or a history of drug-induced leukopenia/neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and lurasidone hydrochloride should be discontinued at the first sign of decline in WBC, in the absence of other causative factors.

Note: Figures rounded to the nearest integer

*Somnolence includes adverse event terms: byacymonia, hypersomnolence, sedation, and somnolence extrapyramidal disorder, in the absence of other causative factors.

*Extrapyramidal symptoms include adverse event terms: bradykinesia, cogwheel rigidity, drooling, dystonia, extrapyramidal disorder, hypokinesia, muscle rigidity, oculogyric crisis, oromandibular dystonia, parkinsonism, psychomotor retardation, tongue spasm, torticollis,

hydrochloride and have their WBC followed until recovery.

5.9 Orthostatic Hypotension and Syncope

Lurasidone hydrochloride tablets 20 mg, 12.3% for lurasidone hydrochloride tablets 40 mg, 12.3% for lurasidone hydrochloride tablets 80

Lurasidone hydrochloride and soverse reactions can include dizziness, lightheadedness, tachycardia, and bradycardia. Generally, these risks are greatest at the beginning of treatment and during dose escalation. Patients at increased risk of these adverse reactions from hypotension include those with dehydration, hypovelenia, treatment with antihypertensive medication, history of cardiovascular disease (e.g., heart failure, myocardial infarction, ischemia, or conduction abnormalities). history of cerebrovascular disease ardiovascular disease (e.g., heart failure, myocardial infarction, ischemia, or conduction abnormalities), history of cerebrovascular disease, Bipolar Depression (Monotherapy)

as well as patients who are antipsychotic-naïve. In such patients, consider using a lower starting dose and slower titration, and monitor The following findings are based on the adult short-term, placebo-controlled premarketing study for bipolar depression in which lurasid hydrochloride was administered at daily doses ranging from 20 to 120 mg (n=331). Orthostatic hypotension, as assessed by vital sign measurement, was defined by the following vital sign changes: ≥20 mm Hg decrease in Commonly Observed Adverse Reactions: The most common adverse reactions (incidence ≥ 5%, in either dose group, and at least twic rate of placebo) in patients treated with lurasidone hydrochloride were akathisia, extrapyramidal symptoms, somnolence, nausea, vomi diarrhea, and anxiety.

Adverse Reactions Occurring at an Incidence of 2% or More in Lurasidone hydrochloride tablets 20 mg and 0.8% with lurasidone hydrochloride tablets 160 mg compared to 0.7% with placebo.

Adverse Reactions Occurring at an Incidence of 2% or More in Lurasidone Phydrochloride tablets 20 mg and 183 to 183 t Adolescents
The incidence of orthostatic hypotension reported as adverse events from the short-term, placebo-controlled adolescent schizophrenia study

Table 20: Adverse Reactions in 2% or More of Lurasidone Hydrochloride -Treated Patients and That Occurred at Greater Incidence than in the Placebo-Treated Patients in the Adult Short-term Monotherany Bipolar Depression Study

	was 0.5% (1/214) in lurasidone hydrochloride tablets-treated patients and 0% (0/112) in placebo-treated patients. No syncope event was							
	reported.							
e	Orthostatic hypotension, as assessed by vital signs, occurred with a frequency of 0% with lurasidone hydrochloride tablets 40 mg and 2.9% with lurasidone hydrochloride tablets 80 mg, compared to 1.8% with placebo.	Body System or Organ Class	Placebo	Lurasidone hydrochloride	Lurasidone hydrochloride	All		
ò.	Bipolar Depression	Dictionary-derived Term	(N=168)	20 to 60	80 to 120	lurasidone		
d	Adults		(%)	mg/day	mg/day	hydrochloride		
	Monotherapy			(N=164)	(N=167)	(N=331)		
-	In the adult short-term, flexible-dose, placebo-controlled monotherapy bipolar depression study, there were no reported adverse events of			(%)	(%)	(%)		
	orthostatic hypotension and syncope.	Gastrointestinal						
	Orthostatic hypotension, as assessed by vital signs, occurred with a frequency of 0.6% with lurasidone hydrochloride tablets 20 to 60 mg	Disorders	0	10	47	14		
-	and 0.6% with lurasidone hydrochloride tablets 80 to 120 mg compared to 0% with placebo.	Nausea Drv Mouth	8	10	17	14 5		
-	Adjunctive Therapy with Lithium or Valproate	Vomitina	4	0	4	3		
0	In the adult short-term, flexible-dose, placebo-controlled adjunctive therapy bipolar depression therapy studies, there were no reported	Diarrhea	2	2	0	4		
е	adverse events of orthostatic hypotension and syncope. Orthostatic hypotension, as assessed by vital signs, occurred with a frequency of 1.1% with lurasidone hydrochloride tablets 20 to 120 mg compared to 0.9% with placebo.	Infections and Infestations	2	5	3	4		
	Pediatric Patients (10 to 17 years)	Nasopharyngitis	1	4	4	4		
,	In the 6-week, placebo-controlled bipolar depression study in pediatric patients 10 to 17 years, there were no reported adverse events of	Influenza	1	<1	2	2		
d	orthostatic hypotension or syncope.	Urinary Tract						
S	Orthostatic hypotension, as assessed by vital signs, occurred with a frequency of 1.1% with lurasidone hydrochloride tablets 20 to 80	Infection	<1	2	1	2		
	mg/day, compared to 0.6% with placebo.	Musculoskeletal						
	5.10 Falls	and Connective						
-	Lurasidone hydrochloride may cause somnolence, postural hypotension, motor and sensory instability, which may lead to falls and,	Tissue Disorders						
	consequently, fractures or other injuries. For patients with diseases, conditions, or medications that could exacerbate these effects, complete	Back Pain	<1	3	<1	2		
	fall risk assessments when initiating antipsychotic treatment and recurrently for patients on long-term antipsychotic therapy.	Nervous System						
-	5.11 Seizures	Disorders						
-	As with other antipsychotic drugs, lurasidone hydrochloride should be used cautiously in patients with a history of seizures or with conditions	Extrapyramidal	_		_	_		
I	that lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in patients 65	Symptoms*	2	5	9	7		
	years or older.	Akathisia	2	8	11	9		
r n	Schizophrenia	Somnolence**	1	7	14	11		
9	In adult short-term, placeho-controlled schizophrenia studies, seizures/convulsions occurred in 0.1% (2/1.508) of natients treated with	Psychiatric Disorders						

In adult short-term, placebo-controlled schizophrenia studies, seizures/convulsions occurred in 0.1% (2/1,508) of patients treated with lurasidone hydrochloride compared to 0.1% (1/708) placebo-treated patients. Note: Figures rounded to the nearest integer *Extrapyramidal symptoms includes adverse event terms: bradykinesia, cogwheel rigidity, drooling, dystonia, extrapyramidal disco plabellar reflex abnormal, hypokinesia, muscle rigidity, oculogyric crisis, oromandibular dystonia, parkinsonism, psychomotor retarda ongue spasm, torticollis, tremor. and trismus

Dose-Related Adverse Reactions in the Monotherapy Study In the adult short-term, flexible-dose, placebo-controlled adjunctive therapy bipolar depression studies, no patient experienced seizures/convulsions.

In the adult short-term, placebo-controlled study (involving lower and higher lurasidone hydrochloride dose ranges) [see Clinical St (14.2)] the adverse reactions that occurred with a greater than 5% incidence in the patients treated with lurasidone hydrochloride and whote Impairment

5.12 Potential for Cognitive and Motor Impairment

Lurasidone hydrochloride like other anticocyclotics has the potential to impair judgment thinking or motor skills. Caution patients about Lurasidone hydrochloride, like other antipsychotics, has the potential to impair judgment, thinking or motor skills. Caution patients about

achinery, including motor vehicles, until they are reasonably certain that therapy with lurasidone hydrochloride does **Bipolar Depression** **Bipolar Depression** Adjunctive Therapy with Lithium or Valproate

The following findings are based on two adult short-term, placeho-controlled premarketing studies for hipplar depression in which lurasidone hydrochloride was administered at daily doses ranging from 20 to 120 mg as adjunctive therapy with lithium or valproate (n=360). Commonly Observed Adverse Reactions: The most common adverse reactions (incidence $\geq 5\%$ and at least twice the rate of placebo) in subjects treated with lurasidone hydrochloride were akathisia and somnolence

hydrochloride (15.5% lurasidone hydrochloride tablets 20 mg, 15.6% lurasidone hydrochloride tablets 40 mg, 15.2% lurasidon Adverse Reactions Associated with Discontinuation of Treatment: A total of 5.8% (21/360) lurasidone hydrochloride tablets 120 mg and 8.3% lurasidone hydrochloride tablets 160 mg/day)

Adverse Reactions Associated with Discontinuation of Treatment: A total of 5.8% (21/360) lurasidone hydrochloride-treated patients

4.8% (16/334) of placebo-treated patients discontinued due to adverse reactions. There were no adverse reactions associated ion in subjects treated with lurasidone hydrochloride that were at least 2% and at least twice the placebo rate. Adverse Reactions Occurring at an Incidence of 2% or More in Lurasidone Hydrochloride-Treated Patients: Adverse reactions associated varieus of lurasidone hydrochloride (incidence of 2% or greater, rounded to the nearest percent and lurasidone hydrochloride incide greater than placebo) that occurred during acute therapy (up to 6 weeks in patients with bipolar depression) are shown in Table 21.

Table 21: Adverse Reactions in 2% or More of Lurasidone Hydrochloride-Treated Patients and That Occurred at Greater Incidence the Internation of the Placebo-Treated Patients in the Adult Short-term Adjunctive Therapy Bipolar Depression Studies lurasidone hydrochloride tablets (15.5% lurasidone hydrochloride tablets 40 mg and 13.5% lurasidone hydrochloride tablets 80 mg,/day)

in the Placebo-Treated Patients in th	e Adult Short-term Adjunctive Ther	apy Bipolar Depression Studies				
	Percentage of Patients Reporting Reaction					
Body System or Organ Class Dictionary-derived Term	Placebo (N=334) (%)	Lurasidone hydrochloride 20 to 120 mg/day (N=360) (%)				
Gastrointestinal Disorders		. ,				
Nausea	10	14				
Vomiting	1	4				
General Disorders						
Fatigue	1	3				
Infections and Infestations						
Nasopharyngitis	2	4				
Investigations						
Weight Increased	<1	3				
Metabolism and Nutrition Disorders						
Increased Appetite	1	3				
Nervous System Disorders						
Extrapyramidal Symptoms*	9	14				
Somnolence**	5	11				
Akathisia	5	11				
Psychiatric Disorders						
Restlessness	<1	4				

Esophageal dysmothing and aspiration have been associated with antipsychotic drug use. Aspiration promotion in the morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia. Lurasidone hydrochloride and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia.

*Extrapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, uruoning, uystonia, carapyramidal symptoms include adverse event terriis: bradykinesia, cugwineer ingunity, cugwineer ingunity, cugwineer ingunity, cugwineer ingunity, cugwineer ingunity, cugwineer ingunity, omnolence includes adverse event terms: hypersomnia, hypersomnolence, sedation, and somnolence Patients with Parkinson's Disease or Dementia with Lewy Bodies are reported to have an increased sensitivity to antipsychotic medication. Manifestations of this increased sensitivity include confusion, obtundation, postural instability with frequent falls, extrapyramidal symptoms, Schizophrenia

The following findings are based on the short-term, placebo-controlled adolescent study for schizophrenia in which lurasidone hydrochlorid ablets was administered at daily doses ranging from 40 (N=110) to 80 mg (N=104). Commonly Observed Adverse Reactions: The most common adverse reactions (incidence ≥5% and at least twice the rate of placebo) in adolescent patients (13 to 17 years) treated with lurasidone hydrochloride tablets were somnolence, nausea, akathisia, extrapyramidal symptoms (non-akathisia, 40 mg only), vomiting, and rhinorrhea/rhinitis (80 mg only). <u>Adverse Reactions Associated with Discontinuation of Treatment:</u> The incidence of discontinuation due to adverse reactions between lurasidone hydrochloride tablets- and placebo-treated adolescent patients (13 to 17 years) was 4% and 8%, respectively.

Cerebrovascular Adverse Reactions, Including Stroke, in Elderly Patients with Dementia-related Psychosis [see Warnings and Adverse Reactions Occurring at an Incidence of 2% or More in Lurasidone hydrochloride tablets-Treated Patients:

Adverse reactions associated with the use of lurasidone hydrochloride tablets (incidence of 2% or greater, rounded to the nearest percent and lurasidone hydrochloride tablets incidence greater than placebo) that occurred during acute therapy (up to 6-weeks in adolescent patients with schizophrenia) are shown in Table 22 Table 22: Adverse Reactions in 2% or More of Lurasidone Hydrochloride Tablets-Treated Patients and That Occurred at Greater

Incidence than in the Placebo-Treated Patients in the Adolescent Short-term Schizophrenia Study

Percentage of Patients Reporting Reaction Body System or Organ Class Lurasidone hydrochloride Dictionary-derived Term (N=214) Gastrointestinal Disorder Infections and Infestation

* Rhinitis incudes adverse event terms: rhinitis, allergic rhinitis, rhinorrhea, and nasal congestion Pediatric Patients (10 to 17 years) The following findings are based on the short-term, placebo-controlled premarketing adult studies for schizophrenia in which lurasidone hydrochloride was administered at daily doses ranging from 20 to 160 mg (n=1,508).

The following findings are based on the 6-week , placebo-controlled study for bipolar depression in pediatric patients 10 to 17 years in which Commonly Observed Adverse Reactions: The most common adverse reactions (incidence ≥5% and at least twice the rate of placebo) in patients treated with lurasidone hydrochloride were somnolence, akathisia, extrapyramidal symptoms, and nausea. lurasidone hydrochloride tablets was administered at daily doses ranging from 20 to 80 mg (N=175). Adverse Reactions Associated with Discontinuation of Treatment: A total of 9.5% (143/1,508) lurasidone hydrochloride-treated patients and 9.3% (66/708) of placebo-treated patients discontinued due to adverse reactions. There were no adverse reactions associated with 9.3% (166/708) of placebo-treated patients discontinued due to adverse reactions. There were no adverse reactions associated with 9.3% (166/708) of placebo-treated patients (10 to 17 years) treated with lurasidone hydrochloride tablets were nausea, weight increase, and insomnia. Adverse Reactions Associated with Discontinuation of Treatment: The incidence of discontinuation due to adverse reactions between Adverse Reactions Occurring at an Incidence of 2% or More in Lurasidone Hydrochloride-Treated Patients: Adverse reactions associated with

Abdominal Pain Upper General Disorders And Administration Site Conditions Metabolism and Nutrition Disorde Nervous System Disorders Extrapyramidal symptoms* Psychiatric Disorders Respiratory, Thoracic and Mediastinal Disorders Oropharyngeal Pain nolence includes adverse event terms: hypersomnia, hypersomnolence, sedation, and somnolence **EPS includes adverse event terms: akathisia, cogwheel rigidity, dyskinesia, dystonia, hyperkinesia, joint stiffness, muscle rigidity, muscle spasms, musculoskeletal stiffness, oculogyric crisis, parkinsonism, tardive dyskinesia, and tremor Extrapyramidal Symptoms Adults
In the short-term, placebo-controlled schizophrenia studies, for lurasidone hydrochloride-treated patients, the incidence of reported events related to extrapyramidal symptoms (EPS), excluding akathisia and restlessness, was 13.5% and 5.8% for placebo-treated patients. The

Table 23: Adverse Reactions in 2% or More of Lurasidone Hydrochloride Tablets-Treated Patients and That Occurred at Greater

Incidence than in the Placeho-Treated Patients in the 6 Week Binolar Depression Study in Pediatric Patients (10 to 17 years

Placebo (N=172)

Dictionary-derived Term

Gastrointestinal Disorders

Percentage of Patients Reporting Reaction

Lurasidone hydrochloride 20 to 80 mg/day (N=175)

incidence of akathisia for lurasidone hydrochloride-treated patients was 12.9% and 3.0% for placebo-treated patients. Incidence of EPS by

			Lui	asiuulle liyuluullu	iiue	
Adverse Event Term	Placebo (N=708) (%)	20 mg/day (N=71) (%)	40 mg/day (N=487) (%)	80 mg/day (N=538) (%)	120 mg/day (N=291) (%)	160 mg/day (N=121) (%)
All EPS events	9	10	21	23	39	20
All EPS events, excluding Akathisia/Restlessness	6	6	11	12	22	13
Akathisia	3	6	11	12	22	7
Dystonia*	<1	0	4	5	7	2
Parkinsonism**	5	6	9	8	17	11
Restlessness	1	1	3	1	3	2

* Parkinsonism includes adverse event terms: bradykinesia, cogwheel rigidity, drooling, extrapyramidal disorder, hypokinesia, muscle rigidity, parkinsonism, psychomotor retardation, and tremor

In the short-term, placebo-controlled, study of schizophrenia in adolescents, the incidence of EPS, excluding events related to akathisia, for lurasidone hydrochloride tablets-treated patients was higher in the 40 mg (10%) and the 80 mg (7.7%) treatment groups vs. placebo (3.6%) and the incidence of akathisia-related events for lurasidone hydrochloride tablets-treated patients was 8.9% vs. 1.8% for placebo-treated

		Lurasidone hydrochloride	
Adverse Event Term	Placebo (N=112) (%)	40 mg/day (N=110) (%)	80 mg/day ((%)
All EPS events	5	14	14
All EPS events, excluding Akath	isia/Restlessness 4	7	7
Akathisia	2	9	9
Parkinsonism**	<1	4	0
Dyskinesia	<1	<1	1
Dystonia*	0	<1	1
	nt terms: dystonia, trismus, oculogyric se event terms: bradykinesia, droolin		

drochloride-treated patients, the incidence of akathisia for lurasidone hydrochloride-treated patients was 9.4% and 2.4% for placebo-treated patients. The incidence of akathisia for lurasidone hydrochloride-treated patients was 9.4% and 2.4% for placebo-treated patients. Incidence of EPS by dose groups is provided in Table 26.

Table 26: Incidence of EPS Compared to Placebo in the Adult Monotherapy Bipolar Depression Study Lurasidone hydrochlorid 20 to 60 mg/day 80 to 120 mg/day

Adverse Event Term	(N=168) (%)	(N=164) (%)	(N=167) (%)
All EPS events	5	12	20
All EPS events, excluding Akathisia/Restlessness	2	5	9
Akathisia	2	8	11
Dystonia*	0	0	2
Parkinsonism**	2	5	8
Restlessness	<1	0	3

ism includes adverse event terms: bradykinesia, cogwheel rigidity, drooling, extrapyramidal disorder, glabellar reflex abnormal, hypokinesia, muscle rigidity, parkinsonism, psychomotor retardation, and tremor Adjunctive Therapy with Lithium or Valproate

In the adult short-term, placebo-controlled adjunctive therapy bipolar depression studies, for lurasidone hydrochloride-treated patients, the incidence of EPS, excluding akathisia and restlessness, was 13.9% and 8.7% for placebo. The incidence of akathisia for lurasidone hydrochloride-treated patients was 10.8% and 4.8% for placebo-treated patients. Incidence of EPS is provided in Table 27. Table 27: Incidence of EPS Compared to Placebo in the Adult Adjunctive Therapy Bipolar Depression Studies

Adverse Event Term	Placebo (N=334) (%)	Lurasidone hydrochloride 20 to 120 mg/day (N=360) (%)	
All EPS events	13	24	
All EPS events, excluding Akathisia/Restlessness	9	14	
Akathisia	5	11	
Dystonia*	<1	1	
Parkinsonism**	8	13	
Restlessness	<1	4	

patients was 2.9% vs. 3.5% for placebo-treated patients. Incidence of EPS by dose is provided in Table 28.

In the short-term, placebo-controlled schizophrenia and bipolar depression studies, data was objectively collected on the Simpson Angus Rating Scale (SAS) for extrapyramidal symptoms (EPS), the Barnes Akathisia Scale (BAS) for akathisia and the Abnormal Involuntary Movement Scale (AIMS) for dyskinesias. Pediatric Patients (10 to 17 years) In the 6-week, placebo-controlled study of bipolar depression in pediatric patients 10 to 17 years, the incidence of EPS, excluding events

(3.4%) treatment group vs. placebo (3.5%); and the incidence of akathisia-related events for lurasidone hydrochloride tablets -treated

Table 28: Incidence of EPS Compared to Placebo in the Bipolar Depression Study in Pediatric Patients (10 to 17 years) 20 to 80 mg/day (N=175) All EPS events All EPS events, excluding Akathisia/Restl

Psychomotor hyperactivity Tardive Dyskinesia Note: Figures rounded to the nearest integer S include adverse event terms: akathisia, cogwheel rigidity, dyskinesia, dystonia, hyperkinesia, joint stiffness, muscle rigidity, muscle spasms, musculoskeletal stiffness, oculogyric crisis, parkinsonism, tardive dyskinesia, and tremoi Parkinsonism includes adverse event terms: bradykinesia, drooling, extrapyramidal disorder, glabellar reflex abnormal, hypokinesia, parkinsonism, and psychomotor retardatio ***Dystonia includes adverse event terms: dystonia, oculogyric crisis, oromandibular dystonia, tonque spasm, torticollis, and trismus

The mean change from baseline for lurasidone hydrochloride-treated patients for the SAS, BAS and AIMS was comparable to placebo-treated patients, with the exception of the Barnes Akathisia Scale global score (lurasidone hydrochloride, 0.1; placebo, 0.0). The percentage of patients who shifted from normal to abnormal was greater in lurasidone hydrochloride-treated patients and placebo for the BAS (lurasidone ochloride, 14.4%; placebo, 7.1%), the SAS (lurasidone hydrochloride, 5.0%; placebo, 2.3%) and the AIMS (lurasidone hydrochloride, 7.4%; placebo, 5.8%)

The mean change from baseline for lurasidone hydrochloride tablets- treated patients with adolescent schizophrenia for the SAS, BAS and AIMS was comparable to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in lurasidone hydrochloride tablets-treated patients and placebo for the BAS (lurasidone hydrochloride tablets, 7.0%; placebo, 1.8%), the SAS (lurasidone hydrochloride tablets, 8.3%; placebo, 2.7%) and the AIMS (lurasidone hydrochloride tablets, 2.8%; placebo, 0.9%). Binnlar Depression

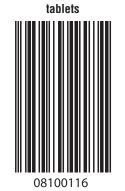
The mean change from baseline for lurasidone hydrochloride tablets-treated adult patients for the SAS, BAS and AIMS was comparable to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in lurasidone hydrochloride-treated patients and placebo for the BAS (lurasidone hydrochloride, 8.4%; placebo, 5.6%), the SAS (lurasidone hydrochloride, 3.7%; placebo, 1.9%) and the AIMS (lurasidone hydrochloride, 3.4%; placebo, 1.2%). Adjunctive Therapy with Lithium or Valproate

The mean change from baseline for lurasidone hydrochloride tablets-treated adult patients for the SAS, BAS and AIMS was comparable to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in lurasidone hydrochloride-treated patients and placebo for the BAS (lurasidone hydrochloride, 8.7%; placebo, 2.1%), the SAS (lurasidone hydrochloride, 2.8%; placebo, 2.1%) and the AIMS (lurasidone hydrochloride, 2.8%; placebo, 0.6%). Pediatric Patients (10 to 17 years)

The mean change from baseline for lurasidone hydrochloride tablets- treated pediatric patients 10 to 17 years with bipolar depression for the SAS, BAS and AIMS was comparable to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in lurasidone hydrochloride tablets-treated patients and placebo for the BAS (lurasidone hydrochloride tablets, 4.6%; placebo, 2.4%), the SAS (lurasidone hydrochloride tablets, 0.6%; placebo, 0%) and was the same for the AIMS (lurasidone hydrochloride tablets, 0%;

Class Effect: 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 stonia is observed in males and younger age groups.

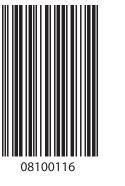
In the short-term, placebo-controlled schizophrenia clinical studies, dystonia occurred in 4.2% of lurasidone hydrochloride-treated subjects (0.0% lurasidone hydrochloride tablets 20 mg, 3.5% lurasidone hydrochloride tablets 40 mg, 4.5% lurasidone hydrochloride tablets 80 mg, 6.5% lurasidone hydrochloride tablets 120 mg and 2.5% lurasidone hydrochloride tablets 160 mg) compared to 0.8% of subjects receiving Adverse Heactions Uccurring at an Incidence of 2% or More in Lurasidone Hydrochloride tablets 40 mg, 4.3% indiastonel Hydrochloride tablets 40 mg and 2.5% indiastonel Hydrochloride tablets 50 mg, 3.3% indiastonel Hydrochloride tablets 50 mg and 2.5% indiastonel Hydrochloride tablet



LURASIDONE

HYDROCHLORIDE

4527





PRODUCT NAME	: Lurasidone Hydrochloride Tablets	COUNTRY: US	LOCATION : Inc	Irad/Dahej		Supersedes A/W No.		
ITEM / PACK	: Outsert	NO. OF COLORS: 1	REMARK:					V. No.: 01
DESIGN STYLE	: Back Side	PANTONE SHADE NOS.:	SUBSTRATE : 40 g/m ² Bible Paper					
CODE	: 8100116		Activities	Department	Name		Signature	Date
DIMENSIONS (MM)	: 760 x 510		Prepared By	Pkg.Dev				
ART WORK SIZE	: S/S	Black	Reviewed By	Pkg.Dev				
DATE	: 03-04-2025	Font Size 6.5 pt Medi_Guide 10 pt	Approved By	Quality				

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In the short-term, placebo-controlled, adolescent schizophrenia study, dystonia occurred in 1% of lurasidone hydrochloride tablets-treated Schizophrenia attents (1% lurasidone hydrochloride tablets 40 mg and 1% lurasidone hydrochloride tablets 80 mg) compared to 0% of patients receiving The safety and effectiveness of lurasidone hydrochloride tablets 40-mg/day and 80-mg/day for the treatment of schizophrenia in add Bipolar Depression

In the adult short-term, flexible-dose, placebo-controlled monotherapy bipolar depression study, dystonia occurred in 0.9% of lurasidone

In the adult short-term, flexible-dose, placebo-controlled adjunctive therapy bipolar depression studies, dystonia occurred in 1.1% of lurasidone hydrochloride-treated subjects (20 to 120 mg) compared to 0.6% of subjects receiving placebo. No subject discontinued the

clinical study due to dystonic events. Pediatric Patients (10 to 17 years)

Other Adverse Reactions Observed During the Premarketing Evaluation of Lurasidone Hydrochloride ollowing is a list of adverse reactions reported by adult patients treated with lurasidone hydrochloride at multiple doses of ≥ 20 mg once

daily within the premarketing database of 2,905 patients with schizophrenia. The reactions listed are those that could be of clinical nportance, as well as reactions that are plausibly drug-related on pharmacologic or other grounds. Reactions listed in Table 19 or those that Reactions are further categorized by organ class and listed in order of decreasing frequency according to the following definitions: those occurring in at least 1/100 patients (frequent) (only those not already listed in the tabulated results from placebo-controlled studies appear

in this listing); those occurring in 1/100 to 1/1,000 patients (infrequent); and those occurring in fewer than 1/1,000 patients (rare). Blood and Lymphatic System Disorders: Infrequent: anemia Cardiac Disorders: **Frequent:** tachycardia; **Infrequent:** AV block 1st degree, angina pectoris, bradycardi

Ear and Labyrinth Disorders: Infrequent: vertigo Eye Disorders: Frequent: blurred vision

Gastrointestinal Disorders: **Frequent:** abdominal pain, diarrhea; **Infrequent:** gastritis General Disorders and Administrative Site Conditions: Rare: sudden death

Investigations: Frequent: CPK increased Metabolism and Nutritional System Disorders: Frequent: decreased appetite

Nervous System Disorders: Infrequent: cerebrovascular accident, dysarthria Psychiatric Disorders: Infrequent: abnormal dreams, panic attack, sleep disorder

Renal and Urinary Disorders: Infrequent: dysuria; Rare: renal failure deproductive System and Breast Disorders: Infrequent: amenorrhea, dysmenorrhea; Rare: breast enlargement, breast pain, galactorrhea

Skin and Subcutaneous Tissue Disorders: Frequent: rash, pruritus; Rare: angioedema Vascular Disorders: **Frequent:** hypertension

Clinical Laboratory Changes

value varied from > 0.79 to > 1.3 mg/dL based on the centralized laboratory definition for each study (Table 29) Table 29: Serum Creatinine Shifts from Normal at Baseline to High at Study End-Point in Adult Schizophrenia Studies

		20 mg/day (N=71)	40 mg/day (N=487)	80 mg/day (N=538)	120 mg/day (N=291)	160 mg/day (N=121)
Serum Creatinine Elevated	2%	1%	2%	2%	5%	7%
<u>Adolescents</u>						
Serum Creatinine: In the was -0.009 mg/dL for lu shift from normal to h tablets-treated patients a	rasidone hydro nigh (based or	chloride tablets-treat n the centralized la	ed patients compare boratory definition)	ed to +0.017 mg/dL	for placebo-treated	patients. A creatin
Table 30: Serum Creati	nine Shifts fror	n Normal at Baselin	e to High at Study E	nd-Point in the Ad	olescent Schizophr	enia Study

Bipolar Depression

Monotherapy Baseline in serum creatinine was +0.01 mg/dL for lurasidone hydrochloride-treated patients compared to -0.02 mg/dL for placebo-treated placebo (Table 31).

Table 31: Serum Creatinine Shifts from Normal at Baseline to High at Study End-Point in the Adult Monotherapy Bipolar Depression Laboratory Paramete 20 to 60 mg/day 80 to 120 mg/day Serum Creatinine Elevated

dates in a contraction of the control of the contro

Serum Creatinine Elevate

Pediatric Patients (10 to 17 years) Serum Creatinine: In the 6-week, placebo-controlled bipolar depression study in pediatric patients 10 to 17 years, the mean change from Baseline in serum creatinine was +0.021 mg/dL for lurasidone hydrochloride tablets -treated patients compared to +0.009 mg/dL for lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Lurasidone hydrochloride is an atypical antipsychotic belonging to the chemical class of benzisothiazol derivatives. Table 33: Serum Creatinine Shifts from Normal at Baseline to High at Study End-Point in the Bipolar Depression Study in Pediatric The chemical structure is: Laboratory Parameter

20 to 80 mg/day (N=163)

Serum Creatinine Elevate Pediatric Patients (6 to 17 years) In a 104-week, open-label study in pediatric patients with schizophrenia, bipolar depression, or autistic disorder, the mean change from

6.2 Postmarketing Experience The following adverse reactions have been identified during postapproval use of lurasidone hydrochloride tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal

Hypersensitivity Reactions: Urticaria, throat swelling, tongue swelling, dyspnea, and rash. Metabolism and Nutrition Disorders: Hyponatremia

7.1 Drugs Having Clinically Important Interactions with Lurasidone Hydrochloride

Strong CYP3A4 Inhibitors	
Clinical Impact:	Concomitant use of Lurasidone Hydrochloride with strong CYP3A4 inhibitors increased the exposure of lurasidone compared to the use of Lurasidone Hydrochloride alone [see Clinica Pharmacology (12.3)].
Intervention:	Lurasidone Hydrochloride should not be used concomitantly with strong CYP3A4 inhibitors [sei Contraindications (4)].
Examples:	Ketoconazole, clarithromycin, ritonavir, voriconazole, mibefradil
Moderate CYP3A4 Inhibito	rs
Clinical Impact:	Concomitant use of lurasidone hydrochloride with moderate CYP3A4 inhibitors increased th exposure of lurasidone compared to the use of lurasidone hydrochloride alone [see Clinics Pharmacology (12.3)]
Intervention:	Lurasidone hydrochloride dose should be reduced to half of the original level when user concomitantly with moderate inhibitors of CYP3A4 [see Dosage and Administration (2.6)].
Examples:	Diltiazem, atazanavir, erythromycin, fluconazole, verapamil
Strong CYP3A4 Inducers	
Clinical Impact:	Concomitant use of lurasidone hydrochloride with strong CYP3A4 inducers decreased th exposure of lurasidone compared to the use of lurasidone hydrochloride alone [see Clinics Pharmacology (12.3)].
Intervention:	Lurasidone hydrochloride should not be used concomitantly with strong CYP3A4 inducers [se Contraindications (4)].
Examples:	Rifampin, avasimibe, St. John's wort, phenytoin, carbamazepine
Moderate CYP3A4 Inducer	s
Clinical Impact:	Concomitant use of lurasidone hydrochloride with moderate CYP3A4 inducers decreased th exposure of lurasidone compared to the use of Lurasidone Hydrochloride alone [see Clinica Pharmacology (12.3)].
Intervention:	Lurasidone hydrochloride dose should be increased when used concomitantly with moderat inducers of CYP3A4 [see Dosage and Administration (2.6)].
Eyamnles:	Rosentan efavirenz etravirine modafinil nafcillin

7.2 Drugs Having No Clinically Important Interactions with Lurasidone Hydrochloride Based on pharmacokinetic studies, no dosage adjustment of lurasidone hydrochloride is required when administered concomitantly with lithium, valproate, or substrates of P-gp or CYP3A4 [see Clinical Pharmacology (12.3)].

[See Dosage and Administration (2.3)].

Metabolism and Elimination: Lurasidone 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 lurasidone hydrochloride tablets during pregnancy. For more information, contact the National Pregnancy Registry for Atypical Antipsychotics at 1-866-961-2388 or visit http://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry Risk Summary

Neonates exposed to antipsychotic drugs during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptom

following delivery [see Clinical Considerations]. There are no studies of Jurasidone hydrochloride tablets use in pregnant women. The limited ailable data are not sufficient to inform a drug-associated risk of birth defects or miscarriage. In animal reproduction studies, no teratogen effects were seen in pregnant rats and rabbits given lurasidone during the period of organogenesis at doses approximately 1.5- and 6-times, the maximum recommended human dose (MRHD) of 160 mg/day, respectively based on mg/m² body surface area [see Data]. he estimated background risk of major birth defects and miscarriage for the indicated population(s) is unknown. All pregnancies have a ackground risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth The estimated background risk of major birth defects and miscarriage for the indicated population(s) is unknown. All pregnancies have a defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Extrapyramidal and/or withdrawal symptoms, including agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress and eeding disorder have been reported in neonates who were exposed to antipsychotic drugs 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 nospitalization. Monitor neonates for extrapyramidal and/or withdrawal symptoms and manage symptoms appropriately

Pregnant rats were treated with oral lurasidone at doses of 3, 10, and 25 mg/kg/day during the period of organogenesis. These doses are 0.2, 0.6, and 1.5 times the MRHD of 160 mg/day based on mg/m2 body surface area. No teratogenic or embryo-fetal effects were observed up to 1.5 times the MRHD of 160 mg/day, based on mg/m 2 . Pregnant rabbits were treated with oral lurasidone at doses of 2, 10, and 50 mg/kg/day during the period of organogenesis. These doses a

Pregnant rats were treated with oral lurasidone at doses of 0.4, 2, and 10 mg/kg/day during the periods of organogenesis and lactation. These doses are 0.02, 0.1 and 0.6 times the MRHD of 160 mg/day based on mg/m². No pre- and postnatal developmental effects were observed up to 0.6 times the MRHD of 160 mg/day, based on mg/m². 8.2 Lactation

Risk Summary Lactation studies have not been conducted to assess the presence of lurasidone in human milk, the effects on the breastfed infant, or the effects on milk production. Lurasidone is present in rat milk. The development and health benefits of breastfeeding should be considered along with the mother's clinical need for lurasidone hydrochloride and any potential adverse effects on the breastfed infant from lurasidone

(13 to 17 years) was established in a 6-week, placebo-controlled clinical study in 326 adolescent patients [see Dosage and Administration (2.1). Adverse Reactions (6.1), and Clinical Studies (14.1)1. The safety and effectiveness of lurasidone hydrochloride has not been established in pediatric patients less than 13 years of age with

hydrochloride-treated subjects (0.0% and 1.8% for lurasidone hydrochloride tablets 20 to 80 mg/day for the treatment of bipolar depression in pediatric patients 80 to 120 mg/day, respectively) compared to 0.0% of subjects receiving placebo. No subject discontinued the clinical study due to dystonic (10 to 17 years) was established in a 6-week, placebo-controlled clinical study in 347 pediatric patients [see Dosage and Administration (2.2)]. (10 to 17 years) was established in a 6-week, placebo-controlled clinical study in 347 pediatric patients [see Dosage and Administration (2.2), Adverse Reactions (6.1), and Clinical Studies (14.2)]. The safety and effectiveness of lurasidone hydrochloride has not been established in pediatric patients less than 10 years of age with bipolar

The effectiveness of lurasidone hydrochloride in pediatric patients for the treatment of irritability associated with autistic disorder has not

Pediatric Patients (10 to 17 years)
In the 6-week, placebo-controlled bipolar depression study in pediatric patients 10 to 17 years, dystonia occurred in 0.6% of lurasidone hydrochloride tablets-treated patients compared to 1.2% of patients receiving placebo. No patients discontinued the clinical study due to discontinued the cl bisdides, 441 (a) the first in for 20 mg, 14/51 or 27% for 60 mg, and 2/49 or 4% for placebo), particularly in children ages 6 to 12 (13 out of 18 patients on lurasidone

The effect of intrinsic patient factors on the pharmacokinetics of lurasidone hydrochloride is presented in Figure 3. In a long-term, open-label study that enrolled pediatric patients (age 6 to 17 years) with schizophrenia, bipolar depression, or autistic

isorder from three short-term, placebo-controlled trials, 54% (378/701) received lurasidone for 104 weeks. There was one adverse event i this trial that was considered possibly drug-related and has not been reported in adults receiving lurasidone: a 10 year old male experienced

Figure 3: Impact of Other Patient Factors on Lurasidone Hydrochloride Pharmacokinetics a prolonged, painful erection, consistent with priapism, that led to treatment discontinuation.

In this trial, the mean increase in height from open-label baseline to Week 104 was 4.94 cm. To adjust for normal growth, z-scores were derived (measured in standard deviations [SD]), which normalize for the natural growth of children and adolescents by comparisons to age-and sex-matched population standards. A z-score change <0.5 SD is considered not clinically significant. In this trial, the mean change in neight z-score from open-label baseline to Week 104 was +0.05 SD, indicating minimal deviation from the normal growth curve. Adverse effects were seen on growth, physical and neurobehavioral development at doses as low as 0.2 times the MRHD based on mg/m

Auverse effects were seen on growin, prijskrad and neurobravioral development at doses as low as 0.2 times the wintro bases or migrin. Lurasidone was orally administered to rats from postnatal days 21 through 91 (this period corresponds to childhood, adolescence, and young adulthood in humans) at doses of 3, 30, and 150 (males) or 300 (females) mg/kg/day which are 0.2 to 10 times (males) and 20 times females) the maximum recommended adult human dose (MRHD) of 160 mg/day based on mg/m². The adverse effects included dose-dependent decreases in femoral length, bone mineral content, body and brain weights at 2 times the MRHD in both sexes, and motor hyperactivity at 0.2 and 2 times the MRHD in both sexes based on mg/m². In females, there was a delay in attainment of sexual maturity at 2 imes the MRHD, associated with decreased serum estradiol. Mortality occurred in both sexes during early post- weaning period and some ncreased colloid in the thyroids and inflammation of the prostate in males at 10 times MRHD based on mg/m² and mammary glan perplasia, increased vaginal mucification, and increased ovarian atretic follicles at doses as low as 0.2 times the MRHD based on mg/m Some of these findings were attributed to transiently elevated serum prolactin which was seen in both sexes at all doses. However, there wer no changes at any dose level in reproductive parameters (fertility, conception indices, spermatogenesis, estrous cycle, gestation length parturition, number of pups born). The no effect dose for neurobehavioral changes in males is 0.2 times the MRHD based on mg/m² and ould not be determined in females. The no effect dose for growth and physical development in both sexes is 0.2 times the MRHD based of

Clinical studies with lurasidone hydrochloride did not include sufficient numbers of patients aged 65 and older to determine whether or not they respond differently from younger patients. In elderly patients with psychosis (65 to 85), lurasidone hydrochloride concentrations (20 mg/day) were similar to those in young subjects. It is unknown whether dose adjustment is necessary on the basis of age alone. Elderly patients with dementia-related psychosis treated with lurasidone hydrochloride are at an increased risk of death compared to placebo. 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility urasidone hydrochloride is not approved for the treatment of patients with dementia-related psychosis [see Boxed Warning, Warnings and Precautions (5.1, 5.3)]. 8.6 Renal Impairment

Reduce the maximum recommended dosage in patients with moderate or severe renal impairment (CLcr<50 mL/minute). Patients with impaired renal function (CLcr<50 mL/minute). Faitents with impaired renal function (Clcr<50 mL/minute) had higher exposure to lurasidone than patients with normal renal function [see Clinical Pharmacology (12.3)]. Greater exposure may increase the risk of lurasidone hydrochloride associated adverse reactions [see Dosage and Administration (2.4)]

Reduce the maximum recommended dosage in patients with moderate to severe hepatic impairment (Child-Pugh score ≥7). Patients with regative in the Ames gene mutation test, the Chinese Hamster Lung (CHL) cells, and in the *in vivo* mouse bone marrow micronucleus test up to 2000 mg/kg which is 61 times the MRHD of 160 mg/day based on mg/m² body surface area. 8.8 Other Specific Population

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Lurasidone hydrochloride has not been systematically studied in humans for its potential for abuse or physical dependence or its ability to induce tolerance. While clinical studies with lurasidone hydrochloride did not reveal any tendency for drug-seeking behavior, these induce to learner. While clinical studies with lurasidone hydrochloride did not reveal and not reveal and behavior, these observations were not systematic and it is not possible to predict the extent to which a CNS-active drug will be misused, diverted and/or Serum Creatinine: In the adult short-term, flexible-dose, placebo-controlled monotherapy bipolar depression study, the mean change from abused once it is marketed. Patients should be evaluated carefully for a history of drug abuse, and such patients should be observed carefully Several instruments were used for assessing psychiatric signs and symptoms in these studies: for signs of lurasidone hydrochloride misuse or abuse (e.g., development of tolerance, drug-seeking behavior, increases in dose).

> In premarketing clinical studies, accidental or intentional overdosage of lurasidone hydrochloride was identified in one patient who ingested treatment for an additional two months.

No specific antidotes for lurasidone hydrochloride are known. In managing overdose, provide supportive care, including close medical supervision and monitoring, and consider the possibility of multiple drug involvement. If an overdose occurs, consult a Certified Poison Control Center (1-800-222-1222 or www.poison.org). Serum Creatinine: In adult short-term, placebo-controlled premarketing adjunctive-studies for bipolar depression, the mean change from Cardiovascular monitoring should commence immediately, including continuous electrocardiographic monitoring for possible arrhythmias.

bretylium might be additive to those of lurasidone hydrochloride, resulting in problematic hypotension. Table 32: Serum Creatinine Shifts from Normal at Baseline to High at Study End-Point in the Adult Adjunctive Therapy Bipolar
Hypotension and circulatory collapse should be treated with appropriate measures. Epinephrine and dopamine should not be used, or other sympathomimetics with beta-agonist activity, since beta stimulation may worsen hypotension in the setting of lurasidone Gastric lavage (after intubation if patient is unconscious) and administration of activated charcoal together with a laxative should be The possibility of obtundation, seizures, or dystonic reaction of the head and neck following overdose may create a risk of aspiration with

11 DESCRIPTION

baseline to Week 104 in serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced a shift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced as hift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced as hift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced as hift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced as hift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine at baseline, 6% experienced as hift control of the serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum creatinine was +0.07 mg/dL. In patients with a normal serum slightly soluble in ethanol, sparingly soluble in methanol, practically insoluble or insoluble in toluene and very slightly soluble in ace urasidone hydrochloride tablets are intended for oral administration only. Each tablet contains 20 mg, 40 mg, 60mg, 80 mg, or 120 mg urasidone hydrochloride. Inactive ingredients are croscarmellose sodium, hypromellose, mannitol, magnesium steara

The color coating material contains following ingredients. Coating material Opadry® white

Hypromellose Titanium dioxide Macrogol/Polyethylene glyco 20 mg, 40 mg, 60 mg, and 120 mg Hypromellose Titanium dioxide Macrogol/ Polyethylene glyco Opadry® green Iron oxide yellow, FD&C Blue #2/Indigo carmine aluminum lak 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action The mechanism of action of lurasidone in the treatment of schizophrenia and bipolar depression is unclear. However, its efficacy in a Difference (drug minus placebo) in least-squares mean change from baseline schizophrenia and bipolar depression could be mediated through a combination of central dopamine D2 and serotonin Type 2 (5HT_{2A}) b Included for assay sensitivity. eceptor antagonism.

Lurasidone is an antagonist with high affinity binding at the dopamine D₂ receptors (Ki of 1 nM) and the serotonin 5-HT₂A (Ki of 0.5 nM) and the serotonin 5-HT₂A (Ki of 0.5 nM) receptors. It also binds with moderate affinity to the human α₂c adrenergic receptors (Ki of 11 nM), is a partial agonist at serotonin 5-HT₁A (Ki of 6.4 nM)) receptors, and is an antagonist at the α₂A adrenergic receptors (Ki of 41 nM). Lurasidone exhibits little or the efficacy of lurasidone hydrochloride tablets was established in a 6-week, multicenter, randomized, double-blind, placebo-controlled studing affinity to the human α₂c adrenergic receptors (Ki of 41 nM). Lurasidone exhibits little or the efficacy of lurasidone hydrochloride tablets was established in a 6-week, multicenter, randomized, double-blind, placebo-controlled studing affinity binding affinity bindi

thorough QT study in 43 patients with schizophrenia or schizoaffective disorder, who were treated with lurasidone hydrochloride doses of 120 mg daily, 600 mg daily and completed the study. The maximum mean (upper 1-sided, 95% C) increase in baseline-adjusted QTc intervals based on individual correction method (QTcl) was 7.5 (11.7) ms and 4.6 (9.5) ms, for the 120 mg and 600 mg dose groups respectively, observed at 2 to 4 hours after dosing. In this study, there was no apparent dose (exposure)-response relationship. bserved at 2 to 4 hours after dosing. In this study, there was no apparent dose (exposure)-response relationship In short-term, placebo-controlled studies in schizophrenia and bipolar depression, no post-baseline QT prolongations exceeding 500 msec Table 36: Primary Efficacy Results (PANSS Total Score) for the A vere reported in patients treated with Jurasidone hydrochloride or placebo 12.3 Pharmacokinetics

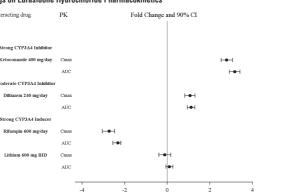
The activity of lurasidone hydrochloride is primarily due to the parent drug. The pharmacokinetics of lurasidone hydrochloride is dose-proportional within a total daily dose range of 20 mg to 160 mg. Steady-state concentrations of lurasidone hydrochloride are reached within 7 days of starting lurasidone hydrochloride. Following administration of 40 mg of lurasidone hydrochloride, the mean (%CV) elimination half-life was 18 (7) hours.

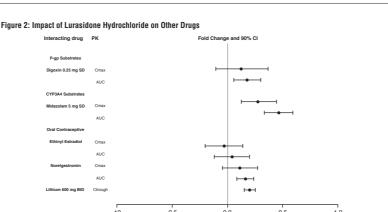
Absorption and Distribution: Lurasidone hydrochloride is absorbed and reaches peak serum concentrations in approximately 1 to 3 hours. It estimated that 9 to 19% of an administered dose is absorbed. Following administration of 40 mg of lurasidone hydrochloride, the mean 6CV) apparent volume of distribution was 6173 (17.2) L. Lurasidone hydrochloride is highly bound (-99%) to serum proteins. (Rocy) apparent volunties of distribution was of 17 (17.2) E. Cutastodine hydrochloride in signify bound (2.3%) to see the signify bound (2.3%) in last conditions. Lurasidone hydrochloride mean C_{max} and AUC were about 3-times and 2-times, respectively, when administered with food compared to the levels observed under fasting conditions. Lurasidone hydrochloride exposure was not affected as meal size was increased from 350 to 1,000 calories and was independent of meal fat content [see Dosage and Administration (2.3)].

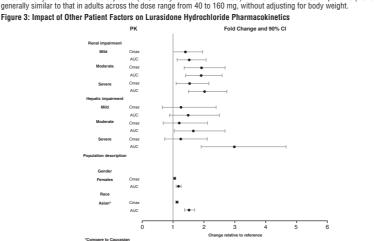
In clinical studies, establishing the safety and efficacy of lurasidone hydrochloride, patients were instructed to take their daily dose with food Adults

Total excretion of radioactivity in urine and feces combined was approximately 89%, with about 80% recovered in feces and 9% recovered efficacy results are provided in Table 37. The high dose range (80 to 120 mg per day) did not provide additional efficacy on average, compared to the companies of the companies in urine, after a single dose of [14C]-labeled lurasidone hydrochloride. Following administration of 40 mg of lurasidone hydrochloride, the mean (%CV) apparent clearance was 3,902 (18.0) mL/min.

Drug Interaction Studies And the effects of lurasidone hydrochloride on the exposures of other drugs are summarized in Figure 2. A population PK analyses concluded that coadministration of lurasidone has minimal effect on lithium and valproate exposure when it is coadministered with lithium 300 to 2,400 Figure 1: Impact of Other Drugs on Lurasidone Hydrochloride Pharmacokinetic







14 times those in humans receiving the MRHD.

of antipsychotic drugs and are considered to be prolactin-mediated [see Warnings and Precautions (5.7)]. ecutive days prior to mating, during the mating period, and through gestation day 7. No effect was seen at the lowest dose of 0.1 mg/kg while taking lurasidone hydrochloride [see Warnings and Precautions (5.8)]. No dosage adjustment for lurasidone hydrochloride is required on the basis of a patient's sex, race, or smoking status [see Clinical which is approximately 0.006 times the MRHD of 160 mg/day based on mg/m². Fertility was reduced only at the highest dose, which was reversible after a 14 day drug-free period. The no-effect dose for reduced fertility was approximately equal to the MRHD based on mg/m²

Lurasidone had no effect on fertility in male rats treated orally for 64 consecutive days prior to mating and during the mating period at doses up to 9 times the MRHD based on mg/m2. 14 CLINICAL STUDIES 14.1 Schizophrenia

1. Positive and Negative Syndrome Scale (PANSS), is a multi-item inventory of general psychopathology used to evaluate the effects of drug treatment in schizophrenia. PANSS total scores may range from 30 to 210. Brief Psychiatric Rating Scale derived (BPRSd), derived from the PANSS, is a multi-item inventory primarily focusing on positive symptoms of schizophrenia, whereas the PANSS includes a wider range of positive, negative and other symptoms of schizophrenia. The BPRSd consists of 18 items rated on a scale of 1 (not present) to 7 (severe). BPRSd scores may range from 18 to 126.

3. The Clinical Global Impression severity scale (CGI-S) is a clinician-rated scale that measures the subject's current illness state on a 1-The endpoint associated with each instrument is change from baseline in the total score to the end of week 6. These changes are then The results of the studies follow:

1. Study 1: In a 6-week, placebo-controlled trial (N=145) involving two fixed doses of lurasidone hydrochloride (40 or 120 mg/day), both doses of lurasidone hydrochloride at Endpoint were superior to placebo on the BPRSd total score, and the CGI-S. . Study 2: In a 6-week, placebo-controlled trial (N=180) involving a fixed dose of lurasidone hydrochloride (80 mg/day), lurasidone hydrochloride at Endpoint was superior to placebo on the BPRSd total score, and the CGI-S. 3. Study 3: In a 6-week, placebo- and active-controlled trial (N=473) involving two fixed doses of lurasidone hydrochloride (40 or 120 | What is the most important information I should know about lurasidone

4 Study 4: In a 6-week, placeho-controlled trial (N=489) involving three fixed doses of lurasidone hydrochloride (40, 80 or 120 mg/day nly the 80 mg/day dose of lurasidone hydrochloride at Endpoint was superior to placebo on the PANSS total score, and the CGI-S. 5. Study 5: In a 6-week, placebo- and active-controlled trial (N=482) involving two fixed doses of lurasidone hydrochloride (80 or 160

Thus, the efficacy of lurasidone hydrochloride at doses of 40, 80, 120 and 160 mg/day has been established (Table 35). Table 35: Primary Efficacy Results for Studies in Adult Patients with Schizophrenia (BPRSd or PANSS Scores)

		F	Primary Efficacy Measure: BPR	lSd
Study	Treatment Group	Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracted Difference ^a (95% CI)
1	Lurasidone hydrochloride (40 mg/day)* Lurasidone hydrochloride (120 mg/day)* Placebo	54.2 (8.8) 52.7 (7.6) 54.7 (8.1)	-9.4 (1.6) -11.0 (1.6) -3.8 (1.6)	-5.6 (-9.8,-1.4) -6.7 (-11.0,-2.5)
2	Lurasidone hydrochloride (80 mg/day)* Placebo	55.1 (6.0) 56.1 (6.8)	-8.9 (1.3) -4.2 (1.4)	-4.7 (-8.3,-1.1)
		F	Primary Efficacy Measure: PAN	SS
3	Lurasidone hydrochloride (40 mg/day)* Lurasidone hydrochloride (120 mg/day)* Olanzapine (15 mg/day)* ^b Placebo	96.6 (10.7) 97.9 (11.3) 96.3 (12.2) 95.8 (10.8)	-25.7 (2.0) -23.6 (2.1) -28.7 (1.9) -16.0 (2.1)	-9.7 (-15.3,-4.1) -7.5 (-13.4,-1.7) -12.6 (-18.2,-7.9)
4	Lurasidone hydrochloride (40 mg/day) Lurasidone hydrochloride (80 mg/day)* Lurasidone hydrochloride (120 mg/day) Placebo	96.5 (11.5) 96.0 (10.8) 96.0 (9.7) 96.8 (11.1)	-19.2 (1.7) -23.4 (1.8) -20.5 (1.8) -17.0 (1.8)	-2.1 (-7.0, 2.8) -6.4 (-11.3,-1.5) -3.5 (-8.4, 1.4)
5	Lurasidone hydrochloride (80 mg/day)* Lurasidone hydrochloride (160 mg/day)* Quetiapine Extended-release (600 mg/day)* ⁵ Placebo	97.7 (9.7) 97.5 (11.8) 97.7 (10.2) 96.6 (10.2)	-22.2 (1.8) -26.5 (1.8) -27.8 (1.8) -10.3 (1.8)	-11.9 (-16.9,-6.9) -16.2 (-21.2,-11.2) -17.5 (-22.5,-12.4)

* Doses statistically significantly superior to placebo amination of population subgroups based on age (there were few patients over 65), gender and race did not reveal any clear evidence of

of adolescents (13 to 17 years) who met DSM-IV-TR criteria for schizophrenia (N=326). Patients were randomized to one of two fixed-doses of lurasidone hydrochloride tablets (40 or 80 mg/day) or placebo. e hydrochloride on the QTc interval were evaluated in a randomized, double-blind, multiple-dose, parallel-dedicated The primary rating instrument used to assess psychiatric signs and symptoms was the PANSS. The key secondary instrument was the CGI-S.

> Primary Efficacy Measure: PANSS LS Mean Change from Placebo- subtracted Baseline (SE) Difference a (95% CI) -8.0 (-12.4, -3.7) tablets (40 mg/day) -18.3 (1.60) -7.7 (-12.1, -3.4) 94.0 (11.12) tablets (80 mg/day)* 92.8 (11.08) -10.5 (1.59)

SD: standard deviation: SE: standard error: LS Mean: least-squares mean: CI: confidence interval, unadjusted for multiple comparison

Metabolism and Elimination: Lurasidone hydrochloride is metabolized mainly via CYP3A4. The major biotransformation pathways are metabolites (ID-14283 and ID-14326) and two major non-active metabolites (ID-20219 and ID-2020). Based on in vitro studies, lurasidone hydrochloride is not a substrate of CYP1A1, CYP1A2, CYP2A6, CYP2A11, CYP2A6, CYP2A11, CYP2A6, CYP2C9, CYP2C9, CYP2C19, CYP2C9, CYP2C19, CYP2C9, CYP2C19, CYP2C9, CYP2C19, CYP2C9, CYP2C19, CYP2C9, CYP2 For both dose groups, lurasidone hydrochloride was superior to placebo in reduction of MADRS and CGI-BP-S scores at Week 6. The primary

> Adjunctive Therapy with Lithium or Valproate Lurasidone hydrochloride tablets are prescription medicine used: The efficacy of lurasidone hydrochloride, as an adjunctive therapy with lithium or valproate, was established in a 6-week, multicenter. randomized, double-blind, placebo-controlled study of adult patients (mean age of 41.7 years, range 18 to 72) who met DSM-IV-TR criteria for major depressive episodes associated with bipolar I disorder, with or without rapid cycling, and without psychotic features (N=340). Patients who remained symptomatic after treatment with lithium or valproate were randomized to flexibly dosed lurasidone hydrochloride 20 The primary rating instrument used to assess depressive symptoms in this study was the MADRS. The primary endpoint was the change from baseline in MADRS score at Week 6. The key secondary instrument was the CGI-BP-S scale.

urasidone hydrochloride was superior to placebo in reduction of MADRS and CGI-BP-S scores at Week 6, as an adjunctive therapy with Table 37: Primary Efficacy Results for Adult Studies in Depressive Episodes Associated with Bipolar I Disorder (MADRS Scores)

		Primary Efficacy Measure: MADRS						
Study	Treatment Group	Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracted Difference ^a (95% CI)				
Monotherapy study	Lurasidone hydrochloride							
., ,	(20 to 60 mg/day)*	30.3 (5.0)	-15.4 (0.8)	-4.6 (-6.9,-2.3)				
	Lurasidone hydrochloride							
	(80 to 120 mg/day)*	30.6 (4.9)	-15.4 (0.8)	-4.6 (-6.9,-2.3)				
	Placebo	30.5 (5.0)	-10.7 (0.8)					
Adjunctive	Lurasidone hydrochloride							
Therapy study	(20 to 120 mg/day)* +	30.6 (5.3)	-17.1 (0.9)	-3.6 (-6.0,-1.1)				
., ,	lithium or valproaté	, ,	, ,	, , ,				
	Placebo + lithium or							
	valproate	30.8 (4.8)	-13.5 (0.9)					

Pediatric Patients (10 to 17 years)

10 to 80 mg/day or placebo. At the end of the clinical study, most patients (67%) received 20 mg/day or 40 mg/day The primary rating scale used to assess depressive symptoms in this study was the Children's Depression Rating Scale, Revised (CDRS-R The primary harmy scale used to assess depressive symptoms in this study was the change from the CDRS-R is a 17-item clinician-rated scale with total scores ranging from 17 to 113. The primary endpoint was the change from baseline in CDRS-R score at Week 6. The key secondary endpoint was the change from baseline in CGIBP-S depression score. Lurasidone hydrochloride tablets was superior to placebo in reduction of CDRS-R total score and CGI-BP-S depression score at Week 6. The primary efficacy results are provided in Table 38. Table 38: Primary Efficacy Results for the Study in Depressive Episodes Associated with Bipolar I Disorder (CDRS-R Total Score) i

Primary Efficacy Measure: CDRS-R Treatment Group LS Mean Change from Lurasidone hydrochloride (20 to 80 mg/day)* - 5.7 (-8.4,-3.0) SD: standard deviation: SE: standard error: LS Mean: least-squares mean: CI: confidence interval, unadjusted for multiple comparisons Freatment group statistically significantly superior to placebo. 16 HOW SUPPLIED/STORAGE AND HANDLING ochloride tablets 20 mg are white to off white coloured, round, biconvex shaped, film coated tablets plain on one side and

debossed "64" on other side. NDC 13668-464-90 Bottles of 90 lone hydrochloride tablets 40 mg are white to off white coloured, round, biconvex shaped, film coated tablets plain on one side and Bottles of 90 ne hydrochloride tablets 60 mg are white to off white coloured, oblong shaped, film coated tablets plain on one side and debosse urasidone hydrochloride tablets 80 mg are pale green coloured, oval shaped, film coated tablets plain on one side and debossed "466" or. Bottles of 90 one hydrochloride tablets 120 mg are white to off white coloured, oval shaped, film coated tablets plain on one side and debosse

Store Turasidone hydrochloride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [See USP Controlled Room Temperature]. 17 PATIENT COUNSELING INFORMATION

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

Suicidal Thoughts and Behavior or down and instruct them to report such symptoms to the healthcare provider [see Boxed Warning, Warnings and Precautions (5.2)].

specific monitoring, including blood glucose, lipids, and weight [see Warnings and Precautions (5.6)]. Mutagenesis: Lurasidone did not cause mutation or chromosomal aberration when tested in vitro and in vivo test battery. Lurasidone was them to seek medical attention if they experience any of the following: amenorrhea or galactorrhea in females, erectile dysfunction or

the dose [see Warnings and Precautions (5.9)].

until they are reasonably certain that lurasidone hydrochloride therapy does not affect them adversely [see Warnings and Precautions (5.12) cate patients regarding appropriate care in avoiding overheating and dehydration [see Warnings and Precautions (5.13)].

Advise patients and their caregivers to observe for signs of activation of mania/hypomania [see Warnings and Precautions (5.14)].

Advise patients to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, because there is a potential for drug interactions [see Drug Interactions (7)]. notify their healthcare provider with a known or suspected pregnancy [see Use in Specific Populations (8.1)]. Advise patients that there is

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MEDICATION GUIDE

Lurasidone Hydrochloride (loo-RAS-i-done HYE-droe-KLOR-ide) Tablets

Lurasidone hydrochloride tablets may cause serious side effects, including:

Increased risk of death in elderly people with dementia-related psychosis. Medicines like lurasidone hydrochloride tablets can raise the risk of death in elderly people who have lost touch with reality (psychosis) due to confusion and memory loss (dementia). Lurasidone hydrochloride tablets are not approved for the treatment of people with dementia-related psychosis.

 Increased risk of suicidal thoughts or actions in children and young adults. Antidepressant medicines may increase suicidal thoughts or actions in some children and young adults within the first few months of treatment and when the dose is changed.

o 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) depression, bipolar illness (also called manic-depressive illness), or a history of suicidal thoughts or actions.

How can I watch for and try to prevent suicidal thoughts and actions in myself or a family member?

o 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. o 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

thoughts about suicide or dying

of the following symptoms, especially if they are new, worse, or worry you:

new or worse depression

an extreme increase in activity and talking (mania)

 other unusual changes in behavior or mood What are lurasidone hydrochloride tablets?

feeling very agitated or restless

acting aggressive, being angry, or violent

trouble sleeping (insomnia)

 To treat people 13 years of age or older with schizophrenia. Alone to treat people 10 years of age and older with depressive episodes that happen with Bipolar I Disorder (bipolar depression). With the medicine lithium or valproate to treat adults with depressive

allergic to lurasidone hydrochloride or any of the ingredients in lurasidone

hydrochloride tablets. See the end of this Medication Guide for a complete list

episodes that happen with Bipolar I Disorder (bipolar depression). It is not known if lurasidone hydrochloride tablets are safe and effective in children: less than 13 years of age with schizophrenia.

 less than 10 years of age with bipolar depression. for the treatment of irritability associated with autistic disorder. Do not take lurasidone hydrochloride tablets if you are:

of ingredients in lurasidone hydrochloride tablets. taking certain other medicines called CYP3A4 inhibitors or inducers including The efficacy of Jurasidone hydrochloride tablets was established in a 6-week, multicenter, randomized, double-blind, placebo-controlled

ketoconazole, clarithromycin, ritonavir, voriconazole, mibefradil, rifampin, avasimibe, St. John's wort, phenytoin, or carbamazepine. Ask your healthcare provider if you are not sure if you are taking any of these medicines.

Before taking lurasidone hydrochloride tablets, tell your healthcare provider about all of your medical conditions, including if you:

 have or have had heart problems or stroke have or have had low or high blood pressure

 have or have had diabetes or high blood sugar, or have a family history of diabetes or high blood sugar.

have or have had high levels of total cholesterol or triglycerides

have or have had high prolactin levels

have or have had low white blood cell count

 have or have had seizures have or have had kidney or liver problems

• are pregnant or plan to become pregnant. It is not known if lurasidone hydrochloride tablets will harm your unborn baby. Talk to your healthcare provider about the risk to your unborn baby if you take lurasidone hydrochloride tablets during pregnancy.

o Tell your healthcare provider if you become pregnant or think you are pregnant during treatment with lurasidone hydrochloride tablets.

o If you become pregnant during treatment with lurasidone hydrochloride 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-researchprograms/pregnancyregistry/. • are breastfeeding or plan to breastfeed. It is not known if lurasidone | hydrochloride passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby during treatment with lurasidone hydrochloride tablets.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Lurasidone hydrochloride tablets and other medicines may affect each other causing possible serious side effects. Lurasidone hydrochloride tablets may affect the way other medicines work, and other medicines may affect how lurasidone | | to FDA at 1-800-FDA-1088. hydrochloride tablets works.

Your healthcare provider can tell you if it is safe to take lurasidone hydrochloride tablets with your other medicines. Do not start or stop any other medicines during treatment with lurasidone hydrochloride tablets without talking to your healthcare

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 lurasidone hydrochloride tablets? Take lurasidone hydrochloride tablets exactly as your healthcare provider tells

you to take it. Do not change the dose or stop taking lurasidone hydrochloride tablets without first talking to your healthcare provider. • Take lurasidone hydrochloride tablets by mouth, with food (at least 350 • If you take too much lurasidone hydrochloride tablets, call your healthcare

provider or poison control center or go to the nearest hospital emergency room What should I avoid while taking lurasidone hydrochloride tablets? Do not drive, operate heavy machinery, or do other dangerous activities until

you know how lurasidone hydrochloride tablets affects you. Lurasidone hydrochloride tablets may make you drowsy. Avoid eating grapefruit or drinking grapefruit juice during treatment with lurasidone hydrochloride tablets. Grapefruit and grapefruit juice may affect the amount of lurasidone hydrochloride tablets in your blood.

Do not become too hot or dehydrated during treatment with lurasidone

hydrochloride tablets. o Do not exercise too much. o In hot weather, stay inside in a cool place if possible.

 Stay out of the sun. o Do not wear too much clothing or heavy clothing. o Drink plenty of water.

 See "What is the most important information I should know about lurasidone hydrochloride tablets?" Stroke (cerebrovascular problems) in elderly people with dementia-related

Lurasidone hydrochloride tablets may cause serious side effects, including:

What are the possible side effects of lurasidone hydrochloride tablets?

psychosis that can lead to death. Neuroleptic malignant syndrome (NMS) a serious condition that can lead to **death.** Call your healthcare provider or go to the nearest hospital emergency room right away if you have some or all of the following signs and symptoms of

o confusion o increased sweating o changes in your breathing, heart rate, and blood pressure • Uncontrolled body movements (tardive dyskinesia). Lurasidone hydrochloride tablets may cause movements that you cannot control in your face, tongue, or other body parts. Tardive dyskinesia may not go away, even if

o stiff muscles

you stop taking lurasidone hydrochloride tablets. Tardive dyskinesia may also start after you stop taking lurasidone hydrochloride tablets. Problems with your metabolism such as:

o high fever

o high blood sugar (hyperglycemia) and diabetes. Increases in blood sugar can happen in some people who take lurasidone hydrochloride 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 and during treatment with lurasidone hydrochloride tablets. Call your healthcare provider if you have any of these symptoms of high blood sugar during treatment with lurasidone hydrochloride tablets:

o increased fat levels (cholesterol and triglycerides) in your blood.

 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

o weight gain. You and your healthcare provider should check your weight regularly during treatment with lurasidone hydrochloride tablets. Increased prolactin levels in your blood (hyperprolactinemia). Your healthcare provider may do blood tests to check your prolactin levels during treatment with lurasidone hydrochloride tablets. Tell your healthcare provider if you have any of the following signs and symptoms of hyperprolactinemia:

Females: o absence of your menstrual cycle o secretion of breast milk when you are not breastfeeding

o problems getting or maintaining an erection (erectile dysfunction) o enlargement of breasts (gynecomastia)

during the first few months of treatment with lurasidone hydrochloride tablets. **Decreased blood pressure (orthostatic hypotension).** You may feel lightheaded or faint when you rise too quickly from a sitting or lying position. **Falls.** Lurasidone hydrochloride tablets may make you sleepy or dizzy, may cause a decrease in your blood pressure when changing position (orthostatic

Low white blood cell count. Your healthcare provider may do blood tests

hypotension), and can slow your thinking and motor skills which may lead to

falls that can cause fractures or other injuries.

Seizures (convulsions)

Problems controlling your body temperature so that you feel too warm. See "What should I avoid while taking lurasidone hydrochloride tablets?" Mania or hypomania (manic episodes) in people with a history of bipolar

disorder. Symptoms may include: o greatly increased energy o severe problems sleeping o racing thoughts o reckless behavior o excessive happiness or irritability

Difficulty swallowing The most common side effects of lurasidone hydrochloride tablets include:

 Adults with schizophrenia: o sleepiness or drowsiness

o unusually grand ideas

o talking more or faster than usual

o restlessness and feeling like you need to move around (akathisia) o difficulty moving, slow movements, muscle stiffness, or tremor

Children 13 to 17 years of age with schizophrenia: o sleepiness or drowsiness

o restlessness and feeling like you need to move around (akathisia)

o difficulty moving, slow movements, muscle stiffness, or tremor o runny nose o vomitina

Adults with bipolar depression: o restlessness and feeling like you need to move around (akathisia) o difficulty moving, slow movements, muscle stiffness, or tremor

o sleepiness or drowsiness Children 10 to 17 years of age with bipolar depression:

o weight gain

o problems sleeping (insomnia) These are not all of the possible side effects of lurasidone hydrochloride tablets. Call your doctor for medical advice about side effects. You may report side effects

How should I store lurasidone hydrochloride tablets?

• Store lurasidone hydrochloride tablets at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) Keep lurasidone hydrochloride tablets and all medicines out of the reach of

General information about the safe and effective use of lurasidone hydrochloride tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use lurasidone hydrochloride tablets for a condition for which it was not prescribed. Do not give lurasidone hydrochloride tablets to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about

lurasidone hydrochloride tablets that is written for health professionals. For more information, call 1-800-912-9561.

What are the ingredients in lurasidone hydrochloride tablets? **Active ingredient:** lurasidone hydrochloride **Inactive ingredients:** croscarmellose sodium, hypromellose, mannitol,

The color coating material contains following ingredients. Strength Coating material

20 mg, 40 mg, 60 mg Hypromellose, Titanium dioxide, Opadry® white Macrogol/Polyethylene glycol Hypromellose, Titanium dioxide, Macrogol/ Polyethylene glycol, Opadry® green Iron oxide yellow, FD&C Blue #2/Indigo carmine aluminum lake

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