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

LEVOTHYROXINE SODIUM tablets, for oral use Initial U.S. Approval: 2002

I U.S. Approval: 2002.

WARNING NOT FOR TREATMENT OF OBESITY OR FOR WEIGHT LOSS
See full prescribing information for complete board warning.

Thyroid homeoses, including levolveyouse seedim tablest should not be used for
Doses levyend the range of daily hormonal requirements may produce serious or
even life threatmenting manifestations of footify (6, 20).

thyroxine sodium tablet is levothyroxine sodium (T4) indicated for:

Hypothyroidism: As replacement therapy in primary (thyroidal), secondary (pibultary), and tertiary (hypothalamic) congenital or acquired hypothyroidism. (1)
Pitulary Thyrotropin (Thyroid-Stimulating Hormone, TSH) Suppression: As an adjunct to surgery and radiocidine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer.

10 countries of the generation of benign thyride nodeles and nortance diffuse pother in other sufficient certain. 10 countries for treatment of hypothrepision pulses for the recovery phase of subscales they reported by the countries of the subscales they reported by the countries of the subscales they reported by the countries of the countries

DOSAGE FORMS AND STRENGTHS Tables: 25, 50, 75, 88, 100, 112, 125, 137, 150, 175, 200, and 300 mcg (3) CONTRAINDICATIONS

- WARNINGS AND PERCANTONS

 Certain adverse reactions in the leidings and insuffers all multilenging contributational diseases intition investigations and insufficient and multilenging contributational diseases are contributed in the leiding of the

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WARNING: NOT FOR TREATMENT OF OBESITY OR FOR WEIGHT LOSS
Thyroid hormones, including levothyroxine sodium tablets, either alone
or with other therapeutic agents, should not be used for the treatment
of obesity or for weight loss.

In euthyroid patients, doses within the range of daily hormonal requirements are ineffective for weight reduction.

Larger doses may produce serious or even fieth threatening manifestations of toxicity, particularly when given in association with sympathomismic amines such as those used for their anorectic effects [see Adverse Reactions (6), Drug Interactions (7.7), and Overdosage (10)].

1 INDICATIONS AND USAGE

Limitations of Use:

Levothyroxine sodium tablets are indicated as a replacement therapy in primary (thyroidal), secondary (pituitary), and tertiary (hypothalamic) congenital or acquired hypothyroidism

hypothyroidism.

Pituitary Thyrotropin (Thyroid-Stimulating Hormone, TSH) Suppression

Levothyroxine sodium tablets are indicated as an adjunct to surgery and radioidine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer

- Lexibity outre social makes are not indicated for suppression of being httpro-rodules and nontice offlier applies in Johns sufficient patients as there are clinic all benefits and overtreatment with levolityroxine sodium tablets may induce hyperthyroiding feel Warnings and Proceautions (5.4). Levolityroxine sodium tablets are not indicated for treatment of hypothyroidism during the recovery phase of subsuctue thyrioidism.

2 DOSAGE AND ADMINISTRATION

Administer levothyroxine sodium tablets as a single daily dose, on an empty stomach, one-half to one hour before breakfast.

Administer levothyroxine sodium tablets at least 4 hours before or after drugs known to interfere with levothyroxine sodium tablets absorption (see Drug Interactions (7.1)).

Evaluate the need for dose adjustments when regularly administering within one h certain foods that may affect levothyroxine sodium tablets absorption [see Drug Interactions (7.9) and Clinical Pharmacology (12.3)].

Administer levothyroxine sodium tablets to infants and children who cannot swallow intact tablets by cranking the tablet, suspending the freshy crushed labels in a small suspending the fresh property of the suspending the suspending the suspension by a spoon or dropper. Do not store the suspension. Do not administer in foods that decrease absorption of levothyroxine sodium tablets, such as soybean-ba infant formula foe Porny interactions (7.59).

2.2 General Principles of Dosing

2.2 General Principles of Dosign. The dose of Northyroxies sodium tablets for hypothyroxism or ptutary TSH suppression depends on a variety of factor's including the patient's age, body weight, accidiovacium étables, cancerdmant medical conditions (including perspancy), contidion to the control of the patient of the patient of the perspancy of the patient of th

The peak the apeutic effect of a given dose of levothyroxine sodium tablets may not be attained for 4 to 6 weeks.

Scrit levolthyroxine sodium tablets at the full replacement dose in otherwise healthy, non-eiterly, individuals who have been hypothyroid for only a short time (such as a few months). The everage full replacement dose of levolthyroise sodium tables is approximately 1.6 mcg per kg per day (for example: 100 to 125 mcg per day for a 70 kg adut).

kg adult. Adjust the dose by 12.5 to 25 mcg increments every 4 to 6 weeks until the patient is clinically eathyroid and the serum TSH returns to normal. Doses greater than 200 mcg per day are seldom required. An inadequate response to daily doses of greater than 300 mcg per day is rare and may indicate poor compliance, malebsorption, drug interactions, or a combination of these factors.

To a doublination in our bear actuals.

For elderly patients or patients with underlying cardiac disease, start with a dose of 12.5 to 25 mag per day, Increase the dose every 6 to 8 weeks, as needed until the patient is clinically euthyroid and the serum TSH returns to normal. The full replacement dose of levothyroxine sodium tablest may be less than 1 mag per kg per day in elderly patients.

In patients with severe longstanding hypothyroidism, start with a dose of 12.5 to 25 mg per day. Adjust the dose in 12.5 to 25 mg increments every 2 to 4 weeks until the patient is clinically euthyroid and the serum TSH level is normalized.

Secondary or Terllary Hypothryoidsin

Start bothryoxies outbut tablets at the full replacement dose in otherwise healthy, non-elderly rubidulas. Start with a lower dose in other yp patents, patients with your patents, patents with secondary or the secondary or the secondary or the secondary or the secondary or terlary hypothryoids and advantage of the secondary or terlary hypothryoids and other dose designacy in patients with secondary or terlary hypothryoidsin and should not be used to market the result. We then seem for eld seed designacy of the repair in the secondary or terlary hypothryoidsin and should not be used to market the result. See the secondary or terlary hypothryoids and other secondary or terlary hypothryoids and other secondary or terlary hypothryoids and should not be seen that the secondary of the secondary o

to the upper half of the normal range.

Pediatric Dosage - Companti or Acquired Hypothyroidism

The recommended daily dose of lenothyroine sodium tablets in pediatric patients with hypothyroidism based on hody weight and changes with age as described in Table 1. Start brothyroxine sodium tablets at the full daily dose in most produint; patients. Start at as lower starting obser in members (or in amorths) at risk for carried châter and in children in risk for hyperactikely tese below). Monitor for clinical and laboratory respons pere Dosage and Antomirations (2-8).

Table 1. Levothyroxine Sodium Tablets Dosing Guidelines for Pediatric Hypothyroidism

AGE	Daily Dose Per Kg Body Weight*
0 to 3 months	10 to 15 mcg/kg/day
3 to 6 months	8 to 10 mcg/kg/day
6 to 12 months	6 to 8 mcg/kg/day
1 to 5 years	5 to 6 mcg/kg/day
6 to 12 years	4 to 5 mcg/kg/day
Greater than 12 years but growth and puberty incomplete	2 to 3 mcg/kg/day
Growth and puberty complete	1.6 mcg/kg/day

Growth and puberty complete 1.6 mcg/kg/day

* The dose should be adjusted based on clinical response and laboratory parameters [see Dosage and Administration (2.4) and Use in Specific Populations (8.4)].

Newborns (0 to 3 months) at risk for cardiac failure: Consider a lower starting dose in newborns at risk for cardiac failure. Increase the dose every 4 to 6 weeks as needed based on clinical and laboratory response.

Children at risk for hyperactivity: To minimize the risk of hyperactivity in children, start at one-fourth the recommended full replacement dose, and increase on a weekly basis by one-fourth the full recommended replacement dose until the full recommended.

Pregnancy
Pre-easting hypothyroidism: Levothyroxine sodium tablets dose requirements may
increase during pregnancy. Measure serum 15H and free 14 as soon as pregnancy is
primary hypothyroidism, markina serum 15H in the trimester-specific reference range.
For palents with serum 15H above the normal transier-specific range, increase the 4
when the serum 15H above the normal transier-specific range, increase the 4
when the serum 15H above the normal transier-specific range, increase the 4
when the normal transier specific range. Reduce levolityroxine sodium tablets dose is expended and serum 15H is
within the normal transier-specific range. Reduce levolityroxine sodium tablets dose is appropriate.
New Orner Hypothyroidism: Romales thyroid function as rapidly as possible in patients
with moderate to severe signs and symmons of hypothyroidism, tablet teothyroxine
with moderate to severe signs and symmons of hypothyroidism, tablet teothyroxine
patients with midd hypothyroidism (15H < 1.0 ILI per fairs) that is benefit in
severe the specific range face between
the severe specific range face between
the severe of the severe
specific range face be in Specific Populations (8.1). Is within the normal
TSH Suppression in Weld-differentiated Tryoid Cancer.

TSH Suppression in Well-differentiated Thyroid Cancer

Generally, TSH is suppressed to below 0.1 IU per liter, and this usually requires a levothyroxine sodium tablets dose of greater than 2 mcg per kg per day. However, in patients with high-risk tumors, the target level for TSH suppression may be lower.

2.4 Monitoring TSH and/or Thyroxine (T4) Levels

Assess the adequacy of therapy by periodic assessment of laboratory tests and clinical evaluation. Persistent clinical and laboratory evidence of hypothyroidism despite an apparent adequate replacement dose of levothyroixies sodium tablets may be evidence of inadequate absorption, poor complance, drug interactions, or a combination of these factors.

Adults
In adult patients with primary hypothyrioidism, monitor serum TSH levels after an int
of 6 to 8 weeks after any change in dose. In patients on a stable and appropriate
replacement dose, evaluate clinical and biochemical response every 6 to 12 months
whenever there is a change in the patient's clinical status.

Pedadricz subt. congental hypothyrution; assess the abeque, of replacement through by measuring both enum 'Britan dictaol' rereal. Member 15 mai chical or feel not have been chiefen as follows: 2 and 4 weeks after the nikitation of treatment 2 weeks after any change in dosage, and then every 10 s 110 months thereafter flowlying does stabilization frequent monitoring. Perform routine chical examination, including assessment of development, mental and physical growth, and bone multivarious, or regular intervals.

development, mential and physical growth, and bone maturation, at regular interval. While the general and in the pay is to normalize the seurm 15% level, 15M may not normalize in some patients due to in utero hypothyroidism causing a resetting patient. Supplicably physical feedback. Failure of the securit 16 in stresse into the upper half of the physical physical feedback. Failure of the securit 16 in stress existing the security of of the serum 15% to decrease below 20 IU per liter with a weeks may include the child of the serum 15% to decrease below 20 IU per liter with a weeks may include the child and method of administration pror to increasing the dose of levelingtowns of and method of administration pror to increasing the dose of levelingtowns and the labels for the remains and Precautions CI and User in Specific Populations (6.4).

Levothyroxine sodium tablets USP are round, colored, scored and debossed with following debossing details on one side and break-line on other side. They are supplied as follows:

Tablet Strength	Tablet Color/Shape	Debossing Details
25 mcg	Peach/Round	L15
50 mcg	White/Round	L16
75 mcg	Violet/Round	L17
88 mcg	Olive/Round	L19
100 mcg	Yellow/Round	L20
112 mcg	Rose/Round	L21
125 mcg	Tan/Round	L22
137 mcg	Turquoise/Round	L23
150 mcg	Blue/Round	L24
175 mcg	Lilac/Round	L25
200 mcg	Pink/Round	L26
300 mcg	Green/Round	L27

4 CONTRAINDICATIONS

Levothyroxine sodium tablets are contraindicated in patients with uncorrected adrenal insufficiency [see Warnings and Precautions (5.3)].

5 WARNINGS AND PRECAUTIONS

5.1 Cardiac Adverse Reactions in the Elderly and in Patients with Underlying Cardiovascular Disease

Cardiovascular Disease

Over Instances with bloodhyroxies may cause an increase in heart rate, cardiac wast takiness, and cardiac contractilly and may precipitate angine or arrhythmiss, perticularly in patients with cardiovascular disease and in eight patients. Initiate teachyroxies sodium tables thereapy in this population at lower doses than those leads of the proposition of the proposition of the contract of the proposition of the proposition

of warmon tof use week use in the common to the common to

5.3 Acute Adrenal Crisis in Patients with Concomitant Adrenal Insufficiency

3-3 Acute Adrenal Liris in Patents with Oncommant Agrenal insurricem Thyroid hormone increases metabolic clearance of glaccocriticolis. Initiation of thyri hormone therapy prior to nilotising glaccocriticolis therapy may precipitate an acute adrenal crisis in potentis with adrenal insufficiency. Trest patients with adrenal insufficiency with replacement glucocriticolis prior to niloting treatment with levelthyroxies soulum tablest [see Contradications of Contradications].

5.4 Prevention of Hyperthyroidism or Incomplete Treatme Hypothyroidism

Hypothyroidism

Loudyproxies oddum tablet has a narrow therapeutic index. Over- or undertreate with leadily proxies addum tablets may have regularly effects on growth and with the complete of the complete for the complete function emotional state, gastroitestestial furticular and glucose and lipid metabolism. Tardet the dose of levoltyproxines sodium tablets carefully and monitor Monitor for the presence of drug of roots directions when using levoltyproxines is tablets and adjust the dose as necessary fised Brurg Interactions (7.9) and Clinical Pharmacology (2.2).

5.5 Worsening of Diabetic Control

Addition of levothyroxine therapy in patients with diabetes melitus may worsen glycemic control and result in increased antidiabetic agent or insulin requirements. Carefully monitor gycemic control after starting, changing, or discontinuing levothyroxine sodium tablets [see Drug Interactions (7-2)].

5.6 Decreased Bone Mineral Density Associated with Thyroid Hormone Over-Replacement

Replacement
Increased bone resorption and decreased bone mineral density may occur as a result beothyroxine over-replacement, particularly in post-meropasal women. The increase description of the control of the contr

6 ADVERSE REACTIONS

Adverse reactions associated with levothyroxine sodium tablets therapy are primarily those of hyperthyroidism due to therapeutic overdosage [see Warnings and Precautions (5), Overdosage [10]). They include the following:

- Automotive (Life, Imprecise the following:
 Germein Edisput, increased appetie, weight loss, heat intolerance, fever, excessive seasons;
 For the control of the control of

- Gastrointestinal diarrined, volunting, lesss
 Dermatologic: hair loss, flushing, rash

- Endocrine: decreased bone mineral density
 Reproductive: menstrual irregularities, impaired fertility

neproactive mentitual irregularlies, impaired certifity
 Sciurus have been proported ravely with the situation of worthyroxine therapy.
 Adverse Reactions in Children
 Presidutiounic certein and speed capilal femoral epithysis have been reported in children receiving levolityroxine therapy. Overteedment may result in cranical proposation in relatest and premature closure of the epithyses in children with resultant.
 Hypersensibility Reactions

7 DRUG INTERACTIONS

7.1 Drugs Koown to Affect Thyroid Hormone Pharmacokinetts
Many drugs can exert effects on thyroid hormone pharmacokinetics and metabolism
(e.g., absorption, synthesis, scretion, catabolism, notes) and mindred, and target times
responsed and may after the therapeutic response to levothyroxine sodium tablets (see
Tables 2 to 5 below).

	Table 2. Drugs That May Decrease 14 Absorption (Hypothyroidism)
Potential impact: Concurrent use ma	by reduce the efficacy of levothyroxine sodium tablets by binding and delaying or preventing absorption, potentially resulting in hypothyroidism.
Drug or Drug Class	Effect
Calcium Carbonate Ferrous Sulfate	Claicium carbonate may form an insoluble chelate with levothyroxine, and ferrous suifate likely forms a ferric-thyroxine complex. Administer levothyroxine sodium tablets at least 4 hours apart from these agents.
Orlistat	Monitor patients treated concomitantly with oristat and levothyroxine sodium tablets for changes in thyroid function.
Bile Acid Sequestrants -Colesevelam -Cholestyramine -Colestipol Ion Exchange Resins -Kayexalate -Sevelamer	Bile acid sequestrants and on exchange resins are known to decrease levelthyroxine absorption. Administer levelthyroxine sodium tablets at least 4 hours prior to these drugs or monitor TSH levels.
Other drugs: Proton Pump Inhibitors Sucraffate Antacids - Aluminum & Magnesium Hydroxide - Simethicone	Gastric acidity is an essential requirement for adequate absorption of levothyroxine. Sucraffate, antacids and proton pump inhibitors may cause hypochlorhydria, affect intragastric pit, and reduce levothyroxine absorption. Monitor patients appropriately.

	Table 3. Drugs That May Alter T4 and Trilodothyronine (T3) Serum Transport Without Affecting Free Thyroxine (FT4) Concentration (Euthyroidism)
Drug or Drug Class	Effect
Clofibrate Estrogen- containing oral contraceptives Estrogens (oral) Heroin / Methadone 5-Fluorouracil Mitotane Tamoxifen	
Asparaginase Glucocorticoids Slow-Release Nicotinic Acid	These drugs may decrease serum TBG concentration. If these gents with involvivoriorie sodium tables results in an initial transient increase in FT4. Continued administration or results in a decrease in serum T4 and normal FT4 and TSH concentrations.
	Sajc visites in high t binding of T4 and T3 to TBG and transtityretin. An initial increase in serum F14 is followed by return of F14 to normal levels with sustained therapeutic serum saliciviste concentrations, although total T4 levels may decrease by as much as 30%.
Other drugs:	These drugs may cause proteins brinding site displacement. Fursoemisch has been shown to inhibit the protein brinding of 1's to 1'86 and absumir, causing an increase free 1'd fraction in serum. Fursoemisc competes for 1'd. brinding sites on TBC, preabureni, and absumir, so that a single high dose can acutely lower the total 1'd level. Phenytoin and carbamazephe reduce serum protein brinding of evolutyroushe, and total and free 1'd may be reduced by 20'ls, to 40'ls, but most patients have normal serum TSH levels and are clinically euthyroid. Closely monitor thyroid hormone parameters, brinding sites on TBC, preabureni, and absumir, so that a single high dose can acutely lower the total 1'd level. Phenytoin and carbamazephe reduce serum protein brinding of levothyroushe, and total and free 1'd may be reduced by 20'ls, to 40'ls, but most patients have normal serum TSH levels and are clinically euthyroid. Closely monitor thyroid hormone parameters.

Table 4. Drugs That May Alter Hepatic Metabolism of T4 (Hypothyroidism)

Potential impact: Stin	mulation of hepatic microsomal drug-metabolizing enzyme activity may cause increased hepatic degradation of levothyroxine, resulting in increased levothyroxine sodium tablets requirements.	
Drug or Drug Clas:	Effect	
	Phenobarbital has been shown to reduce the response to thyroxine. Phenobarbital increases L-thyroxine metabolism by inducing uridine 5'-diphospho-	
Rifampin	olucuronosyltransferase (UGT) and leads to a lower T4 serum levels. Changes in thyroid status may occur if barbiturates are added or withdrawn from patients being treated for hypothyroidism. Rifampin has been shown to accelerate the metabolism of levothyroxine.	

Table 5. Drugs That May Decrease Conversion of T4 to T3

Potential impact: Administration of these enzyme inhibito	ors decreases the peripheral conversion of T4 to T3, leading to decreased T3 levels. However, serum T4 levels are usually normal but may occasionally be slightly increased.
Drug or Drug Class	Effect
	In patients treated with large doses of propranolol (> 160 mg/day), T3 and T4 levels change, TSH levels remain normal, and patients are clinically euthyroid. Actions of particular beta-
adrenergic antagonists (e.g., Propranolol > 160 mg/day)	adrenergic antagonists may be impaired when a hypothyroid patient is converted to the euthyroid state.
	Short-term administration of large doses of glucocorticoids may decrease serum T3 concentrations by 30% with minimal change in serum T4 levels. However, long-
	term glucocorticoid therapy may result in slightly decreased T3 and T4 levels due to decreased TBG production (See above).
	Amiodarone inhibits peripheral conversion of levothyroxine (T4) to triodothyronine (T3) and may cause isolated biochemical changes (increase in serum free-
Amindarone .	T4 and decreased or normal free-T3) in clinically enthyroid natients

7.2 Antidiabetic Therapy
Addition of levothyroxine sodium tablets therapy in patients with diabetes melitus may worsen glycemic control and result in increased antidiabetic agent or insulin requirements. Carefully monitor ejyc-emic costrol, especially when thyroid therapy is stated, changed, or discontinue (aller Warnings and Precisions (5.3)).

7.3 Oral Anticoagulants

Leveltyryoris a sodium tablet increases the response to oral anticoagulant therapy. Therefore, a decrease in the dose of anticoagulant may be warranted with correction of the hypothyroid state or when the leveltyroxine sodium tablets dose is increased. Closely monitor coagulation tests to permit appropriate and timely dosage adjustments.

7.4 Digitalis Glycosides

Levothyroxine sodium tablets may reduce the therapeutic effects of digitalis glycosides

Serum digitals glycoside levels may decrease when a hypothyroid patient becomes
euthyroid, necessitating an increase in the dose of digitals glycoside.

eutryrox, necessitating an increase in the dote of digital digital exposures. Occorresive 7.5. Antidepressant Therapy Chocurrent use of tricycle (e.g., ambriphýne) or tetracycle (e.g., maprotiine) antidepressants and levothyroxine sodium tablets may increase the therapeutic and totac effects of bulk most, possibly due to hereader deception entabley in date, effects of bulk most, possibly due to hereader deception entables; due to the control of t

7.6 Ketamine

Concurrent use of ketamine and levothyroxine sodium tablets may produce marked hypertension and tachycardia. Closely monitor blood pressure and heart rate in these patients.

7.7. Sympathomimetics
Concurrent use of sympathomimetics and levolthyroxine sodium tablets may increase the effects of sympathomimetics or thyroid hormone. Thyroid hormones may increase the risk of coronary insufficiency when sympathomimetic agents are administered to patients with coronary artery disease.

7.8 Tyrosine-Kinase Inhibitors

Concurrent use of tyrosine-kinase inhibitors such as imatinib may cause hypothyroidism. Closely monitor TSH levels in such patients.

"n Dour ground the state of the

Juce may deey the absorption of evothyroune and reduce 1s boewalselsey.

7.10 Drug-Laborouty Test Interactionise

Consider changes in TBG concentration when interpreting T4 and T3 values. Measure
and evaluate unbound free hormone ander determine the free T4 risks (TF4I) in this
contraceptives, and acute intermittent porphyria in crosse TBG concentration. Rephrosis,
server hypoproferents, severe lever decises, accromagily, androgers, and co-budy
ophobilisemis have been described, with the incidence of TBG deficiency approximating 1 in
9000.

8 USE IN SPECIFIC POPULATIONS

A USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Risk Summay
Risk Summay
Reprince with levelity received in pregnant women, including data from postmarketing studies, have not reported increased rates of mayor birth defects or or
uncreated hypothyroidism in pregnancy. Sixte ST81 levels may necrease during
pregnancy. TSH should be monitored and levelity province sodium tablets dosage adjusted
with levelity received and the sodium tablets dosage adjusted
defection of the sodium tablets dosage and the sodium tablets dosage and the
discontinued during pregnancy and hypothyroidism diagnosed during pregnancy should
for the sodium tablets dosage and the
discontinued during pregnancy and hypothyroidism diagnosed during pregnancy should
for the present the sodium tablets and tablets

discontinued during pregiuncy and hypothyroidism diagnosed during pregiuncy should be promptly treation.

The estimated background risk of major birth defects and miscarriage for the indicated population su unknown, in the U.S. general population, he unknown in the U.S. general population. He interested background risk of the proposed programmer of the proposed programmer of the programmer of the death of the programmer of the programmer of the death of t

Levoltyroxine is approved for use at a replacement therapy for hypothyroidism. There is a long experience of levoltyroxine use in pregnant women, including data from post-marketing studies that have not reported increased race of ledt malformation, makezings or other adverse maternal or fetal outcomes associated with levoltyroxine use in pregnant women.

use in project women.

8.2 Lactation

Ris Summary

Limited published studies report that levothyroxine is present in human milk. However, there is insufficient information to determine the effects of levothyroxine on the restited infant and no available information on the effects of levothyroxine on milk production. Adequate levothyroxine have restited infant and on available information on the effects of levothyroxine on milk production. Adequate levothyroxine treatment during lactation may sommalize milk production. Adequate levothyroxine treatment during lactation may sommalize milk better than the second of the second of

8.4 Pediaux. Ose
The initial dose of levothyroxine sodium tablets varies with age and body weight. Dosing adjustments are based on an assessment of the individual patient's clinical and laboratory parameters [see Dosage and Administration (2.3, 2.4)].

In children in whom a diagnosis of permanent hypothypoxiam has not been established, discontinue levothyroxine sodium tablets administration for a trial period, but only after the child is at least 3 years of age. Othan serum 14 and 178 levels at the end of the trial period, and use laboratory lest results and clinical assessment to guide diagnosis and treatment, if warranted.

Congenital Hypothyroidism [See Dosage and Administration (2.3, 2.4)]

these patients.

Closely montator infants during the first 22 weeks of levelothyroxine sodium tablets through for cardiac overbad, arrhythmiss, and suprision from avid sucking.

Closely montator patients to avoid undertwentent or overtheratheral. Undertwenterment may have deleterious effects on intellectual development and lense growth. affect the tempor of brain maintains, and may secretained to evertheratheral to evertheratheral to evertheratheral to evertheratheral to every secretain the promotion of the control of the con

hypothyposam, causing your may.

8.5 Genthirt Use

Bosson of the increased prevalence of conforuscular disease among the elderly, initial

Bosson of the increased prevalence of conforuscular disease among the elderly, initial

Precaution of S.J. and Design and Administration (2.3), Artial arrhythmiss can occur in

elderly patients. Artial Refalsion is the most occumann of the arrhythmiss observed with

levothyroxine overtreatment in the elderly.

10 OVERDOSAGE

The signs and symptoms of overdosage are those of hyperthyroidism face Warnings and Pre-authors (5) and Adverse Reactions (6). In addition, confusion and disorientation concurred in a Symptom of Child Ingestion (3) and a Child Ingestion (3) and of Child Ingestion (3) and of Child Ingestion in any not necessarily be evident or may not appear until several days after ingestion of leachtyroxine solution.

levothyroxine sodium. Reduce the levothyroxine sodium tablets dose or discontinue temporarly if signs or symptoms of overdosage occur. Initiate appropriate supportive treatment as dictated by the patients medical status. For current information on the management of poisoning or overdosage, contact the National Poban Control Center at 1.800.222.1222 or www.poison.org.

11 DESCRIPTION

Levothyroxine sodium tablets USP contain synthetic crystalline L-3,3:5,5 'tetraiodothyronine sodium sait (levothyroxine (T4) sodium). Synthetic T4 is chemically identical to that produced in the human thyroid gland. Levothyroxine (T4) sodium has an empirical formula of C₁3+J₀4N N₀0, xH₂0, molecular weight of 798.85 (anhydrous). and structural formula as shown:

Strength (mcg)	Color additive(s)
25	FD&C Yellow No. 6 Aluminum Lake*
50	FD&C Blue 1 Aluminum Lake
75	FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake
88	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake, D&C Yellow No. 10 Aluminum Lake
100	FD&C Yellow No. 6 Aluminum Lake*, D&C Yellow No. 10 Aluminum Lake
112	D&C Red No 27 Aluminum Lake
125	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake, FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake
137	FD&C Blue No. 1 Aluminum Lake
150	FD&C Blue No. 2 Aluminum Lake
175	FD&C Blue No. 1 Aluminum Lake, D&C Red No. 27 Aluminum Lake
200	FD&C Red No. 40 Aluminum Lake
300	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake. D&C Yellow No. 10 Aluminum Lake

12 CLINICAL PHARMACOLOGY

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Thyroid hormone sereft their physiologic actions through control of DNA transcription and protein synthesis. Triodothyrone (Ti) and Lithyroxine (Ti) affluse into the cell receptor complex activates gene transcription and synthesis of messenger RNA and cytoplasmic proteins.

The physiological actions of thyroid hormones are produced predominantly by T3, the majority of which (approximately 80%) is derived from T4 by decidnation in peripheral fassues.

Oral levolthyroxine sodium is a synthetic T4 hormone that everts the same physiologic effect as endogenous T4, thereby maintaining normal T4 levels when a deficiency is present.

12.3 Pharmacokinetics

Absorption of orally administered T4 from the gastrointestinal tract ranges from 40% to 80%. The majority of the levothyroxine sodium tablest dose is absorbed from the spinum and upper law. The relable behavablishly of whortyroxine sodium tablest, compared to an equi-intominal dose of oral levolinystaries addium solution. In addition, and the spinum and upper law of the spinum and upper law

Distribution

Circulating thyroid hormones are greater than 99% bound to plasma proteins, including hyroxine-binding globulin (TBC), thyroxine-binding globulin (TBCA), and abunta (TBCA) and the proteins of the proteins of

Metabolism

Tal is aboyl efinimated (see Table 7). The major pathway of thyroid hormone metabolism is through sequential decidination. Approximately 80% of circulating T3 is derived from peripheral Tal by menoidecidination. The live 1 the major size of degradation for both T4 killings and other this such approximately 80% of the daily dose of T4 is decidinated to killings and other tissues. Approximately 80% of the daily dose of T4 is decidinated to discoloration of T3 and reverse 13 (T3). T3 and r17 are 17 (T3). T3 and r17 are 17 or three decidinated to discolorations of T3 and reverse 17 (T3). T3 and r17 are 17 or three decidinated to discolorations of T3 and reverse 17 (T3). T3 and r17 are 17 or three decidinated to discolorations of T3 and reverse 17 (T3). T3 and r17 and returned recordinated to discolorations of T3 and reverse 17 (T3). T3 and r17 and returned recordinated to discolorations of T3 and reverse 17 (T3). T3 and r17 and r18 or three decidings of T3 and reverse 17 (T3). T3 and r17 and r18 or three decidings of T3 and reverse 18 or three decidings of T3 and reverse 18 or three daily talk reverse 18 or three decidings of T3 and reverse 18 or three daily talk reverse 18 or three

Thyroid hormones are primarily eliminated by the kidneys. A portion of the conjugated hormone reaches the colon unchanged and is eliminated in the feces. Approximately 20% of 74 is eliminated in the stool. Unriany excretion of 14 decreases with age.

Table 7. Pharr	nacokinetic Paramete	rs of Thyroid Hor	mones in I	uthyroid Patients
	Ratio in Thyroglobulin	Biologic Potency	t _{1/2} (days)	Protein Binding (%)*
Levothyroxine (T4)	10 to 20	1	6 to 7†	99.96
Liothyronine (T3)	1	4	≤ 2	99.5

Liothyronine (13) 1 4

* Includes TBG, TBPA, and TBA

† 3 to 4 days in hyperthyroidism, 9 to 10 days in hypothyroidism

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Standard animal studies have not been performed to evaluate the carcinogenic potential, mutagenic potential or effects on fertility of levothyroxine.

Levothyroxine sodium tablets USP are round, colored, scored and debossed with following debossing details on one side and break-line on other side. They are supplied as follows:

Strength (mcg)	Color/Shape	Debossing Details	Available: Overbagged with
		-	10 tablets per bag, NDC as
			follows:
25	Peach/Round	L15	55154-3558-0
50	White/Round	L16	55154-3559-0
75	Violet/Round	L17	55154-3560-0
88	Olive/Round	L19	55154-4309-0
100	Yellow/Round		55154-3561-0
125	Tan/Round	L22	55154-3562-0
150	Blue/Round	L24	55154-3563-0

Storage Conditions

Store at 25°C (77°F); excursions permitted to 15° to 30° C (59° to 86° F) [see USP Controlled Room Temperature]. Levothyroxine sodium tablets USP should be protected from light and moisture.

17 PATIENT COUNSELING INFORMATION
Inform the patient of the following information to aid in the safe and effective use of levothyroxine sodium tablets:

- Instruct patients to take levolthyroxine sodium tablets only as directed by their healthcare provider. Healthcare provider and the levolthyroxine sodium tablets as a single dose, prefer ably on an emply stomach, one-half to one hour before breakfast.

 In inform patients that agents such as it are and calcium supplements and antacids levolthyroxine sodium tablets within 4 hours of these agents. In the latest control to take levolthyroxine sodium tablets within 4 hours of these agents. Instruct patients on bright her healthcare provider 8 filt are preparent or breast fleeding or are thinking of becoming pregnant while taking levolthyroxine sodium tablets.

- Important information

 Information that it may take soveral weeks before they notice an improvement in symptoms.

 Inform patients that the levothyroxine is levothyroxine sodium tablet is intended to inform patients that the levothyroxine patients but the hybrid gland. Generally, replacement therapy is to be taken for IE.

 Inform patients that beothyroxine solden tables should not be used as a primary or adjanctible therapy in a vegit control program.

 Information that beothyroxine solden tables should not be used as a primary or adjanctible therapy in a vegit control program.

 Instruct patients to notify their physician of any other medical conditions they may gland problems, so the dose of medications, including rescription and over the counter preparations.

 Instruct patients to notify their physician of any other medical conditions they may gland problems, so the dose of medication used to control these other conditions may need to be adjusted while they are taking levothyroxine sodium tablets. If they have dasheden, mutric patients is morther the blood and/or unarray glucies been physician. If patients are taking anticopulates, their cotting status should be checked if requestions of the third patients are taking anticopulates, their cotting status should be checked for requestions.

- Instruct patients to notify their healthcare provider if they experience any of the following symptoms: rapid or irregular heartbest, cheet pain, shortness of breath, leg cramps, healthch, netwoomers, indhally, steeplessers, themes, Change in the participation of the participation

Lupin Pharmaceuticals, Inc.
Baltimore, Maryland 21202
United States

Lupin Limited

Pithampur (M.P.) - 454 775

Distributed by:

Major Pharmaceuticals Livonia, MI 48152

Livonia, N. 48.152
Refer to package label for Distributor's NDC Number
Distributed By:
Cardinal Health
Duble, OH 49017
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L57470961221
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25 mcg (0.025 mg) 10 Tablets



LEVOTHYROXINE SODIUM TABLETS USP 25 mcg (0.025 mg)

USP 25 mcg (0.025 mcg)

10 TABLE

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United States.
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MAJOR® PHARMACEUTICALS
17177 N Laurel Park Dr., Suite 233
Livonia, MI 48152 USA.
Distributed by Cerdinal Health
Distributed by Cerdinal Health
Li57473080422

Package/Label Display Panel Levothyroxine Sodium Tablet USP 50 mcg (0.050 mg) 10 Tablets



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Package/Label Display Panel

75 mcg (0.075 mg) 10 Tablets



*V125

LEVOTHYROXINE SODIUM TABLETS USP 75 mcg (0.075 mg) 10 TABLETS

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Distributed by Cardinal Health Dublin, OH 43017 LS7470841221





Package/Label Display Panel Levothyroxine Sodium Tablet USP 125 mcg (0.125 mg) 10 Tablets



Package/Label Display Panel Levothyroxine Sodium Tablet USP 150 mcg (0.15 mg) 10 Tablets



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1	NDC-55154-	1 in 1 BLISTER	PACK; Type 0: Not a Combi		03/20/2019			Pate
1 1	NDC:55154- 4109-0	1 in 1 BLISTER Product	ion	nation				
1 1	NDC:55154- 4109-0	1 in 1 BLISTER Product	ion	nation	Marketin	g Start		
1 1	NDC:55154- 4109-0	1 in 1 BLISTER Product	ion tion Number or Monog Citation	nation		g Start		
1 1	ADC:35154- 4309-0 arketing Marketing Category	1 in 1 BUSTER Product Informat Applica	ion tion Number or Monog Citation	nation	Marketing	ş Start		
1 1	Applications of the state of th	Informat Applica ANDA20971	tion tion Number or Monog Citation	nation	Marketing	3 Start		
1 1 M	Arketing Marketing Category DA	Informat Applica ANDA20971	tion tion Number or Monog Citation	nation	Marketing	3 Start		
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1 M	NDC-35354- 4309-0 Marketing Category DA EVOTHYRIO	Informat Informat Applica ANDA20973 DXINE SO dium tablet	tion tion Number or Monog Citation	nation	Marketing	g Start		
1 1 M	Arketing Marketing Category DA EVOTHYR othyroxine so	Informat Informat Applica ANDA20973 DXINE SO dium tablet	cion tion Number or Monog Citation 3	raph	Marketing Date 03/20/2019		Mark	ating End Date
1 1 M	NDC-35354- 4309-0 Marketing Category DA EVOTHYRIO	Informat Informat Applica ANDA20973 DXINE SO dium tablet	cion tion Number or Monog Citation 3	raph	Marketing		Mark	
1 M	Arketing Marketing Category DA EVOTHYR othyroxine so	In 1 BUSTER Product Informat Applica ANDA20973 DXINE SC dium tablet	tion Number or Monog Citation DIUM NUMBER OF THE O	raph	Marketing Date 03/20/2019	NDC:551	Mark	ating End Date
1 1 M	NDC-55154-4109-0 Marketing Marketing Category DA EVOTHYR Onthyroxine so roduct Informatic Type	In 1 BUSTER Product Informat Applica ANDA20973 DXINE SC dium tablet	tion Number or Monog Citation DIUM NUMBER OF THE O	raph	Marketing Date 03/20/2019	NDC:551	Mark	ating End Date
AN Pr	NDC:55154-4100-0 Marketing Marketing Category DA EVOTHYR Othyroxine so roduct Information roduct Type bute of Admin	1 in 1 BLISTEP Product Informat Applica ANDAZOS71 DXINE SC dium tablet rmation	Chatten Chatte	raph	Marketing Date 03/20/2019	NDC:551	Mark	ating End Date
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Interesting Marketing Marketing Category DA SOUTHYRE CONTROL OF THE CATEGORY DATE OF THE CAT	1 in 1 BLISTEP Product Informat Applica Applica ANDAZO273 DXINE SC dium tablet instration instrati	Idon Stein Number or Monog Citation DILUM HUNNAN PRESCRIPTION ONC. Molety Harm Regress 1290; (EVOTHROX Ingredient Name	raph Item (Sour	Marketing Data 03/26/2019	NDC:551: 6953) of Street	Markets 1	eting End Date
M ANN ANN ANN ANN ANN ANN ANN ANN ANN AN	Interesting Marketing Marketing Category DA SOUTHYRE CONTROL OF THE CATEGORY DATE OF THE CAT	Informat Informat Applica Applica ANDAJO973 DXINE SC dium tablet rmation istration istration istration istration continue in the co	DDIUM INJUNE PERSON DESCRIPTION ONC. Molety Ingredient Name IN PRODUCTION IN	raph Item (Sour	Marketing Data 03/26/2019	NDC:551: 6953) of Street	Markets 1	eting End bate 4DC-0904- Strength 0.1 mg

Packaging # item Code 1 NDC:55154- 3561-0 1 Marketing Marketing Category ANDA	Product	nation Sication Number of Citation	ot a Combinatio	03/2 n	arketing Start Date 0/2019 Marketing Start Date 20/2019	t Mark	eting En	
# Item Code 1 NDC:55154- 3561-0 1 Marketing Marketing	1 in 1 BLF Product	STER PACK: Type 6: No nation	ot a Combinatio	03/2 n	Date	t Mark	Date eting En	
# Item Code 1 NDC:55154- 3561-0	1 in 1 BL	ıg .		03/2	Date	Marke	ating En	
# Item Code 1 NDC:55154- 3561-0	1 in 1 BL	ıg .		03/2	Date	Marke	ating En	
# Item Code		ıg .		03/2	Date	Marke	ating En	
# Item Code		Package Descri	ption	м	arketing Start Date	Marke	ating En	
Packaging								
Contains								
Flavor			Imprint Cod	nt Code		L20		
Shape		BOLIND	Size	•		6mm		
Color	uccensc	ALITON	Score			2 pieces		
Product Chai								
STARCH, CORN (UNI: 08232	NY35()						
SODIUM BICARB								
MANNITOL (UNII:	30WL53L36	A)						
MAGNESIUM STE								
FDSC YELLOW N								
DEC YELLOW NO		(UNE: M280L1HH48)						
		Ingredient I	Vame			St	rength	
Inactive Ingr	edients							
		LINII: 9(7655329G) (LEV	INI: 9(7655329G) (LEVOTHYROXINE -		EVOTHYROXINE S WHYDROUS	DDIUM	0.1 mg	
	Ina	redient Name			Basis of St	rength	Stren	
Active Ingred	lient/Act	ive Moiety						
Route of Admir	nistration	UNAL						
Product Type				m coa	6953)	10124-33611	154-3561(NDC:0904	
	rmation			m Cod				
Product Info								
Product Info								
, , , , , , ,	odium tab	et						
LEVOTHYR levothyroxine so Product Info								

ML	tive Ingred					
		Ingredient Na	Basis of Strength		Streng	
LEVOTHYROXINE SODIU UNI:Q518043MG4)		SODIUM (UNI: 9)76553;	OUM (UNI: 9)7655329G) (LEVOTHYROXINE -		NUM	0.125 mg
In	active Ingr	edients				
		Ingre	dient Name		Stre	ngth
CR	OSCARMELLO:	SE SODIUM (UNI: M280)	L2HH460)			
FD	GC BLUE NO.	1 (UNI: H3R47K3TBD)				
FD	GC BLUE NO.	2 (UNI: LOSKER7DQK)				
FD	GC RED NO. 4	0 (UNII: WZ 89127XOA)				
FD	GC YELLOW N	O. 6 (UNI: H77VEI93AB)				
		ARATE (UNI: 70097M613)	0)			
	NNITOL (UNIX					
		DNATE (UNI: BMDF5V39C	(0)			
ST.	ARCH, CORN (JNI: 08232NY35()				
	oduct Char	acteristics	Score		2 pieces	
D,	nduct Char	actoristics				
Co	lor	BROWN (Tan)				
Co	lor ape		Size		6mm	
Co Sh Fla	lor ape ivor	BROWN (Tan)		Code		
Co Sh Fla	lor ape	BROWN (Tan)	Size	Code	6mm	
Co Sh Fla	lor ape ivor	BROWN (Tan)	Size	Code	6mm	
Co Sh Fla	lor ape ivor ntains	BROWN (Tan) ROUND	Size	Code Marketing Start Date	6mm	
Co Sh Fla Co Pa	lor ape ivor ntains ickaging	BROWN (Tan) ROUND	Size Imprint	Marketing Start	6mm L22 Market	
Co Sh Fla Co Pa	lor ape ivor intains ickaging item Code	Package	Size Imprint	Marketing Start Date	6mm L22 Market	
Co Sh Fla Co Pa	lor ape ivor intains ickaging item Code	Package 10 in 1 BAG Lin 1 BUSTER PACK T	Size Imprint	Marketing Start Date	6mm L22 Market	
Co Sh Fla Co Pa	lor ape ivor ntains ickaging item Code NDC:55154- 3562-0	Package 10 in 1 BAG Lin 1 BUSTER PACK T	Size Imprint	Marketing Start Date	6mm L22 Market	
Co Sh Fla Co Pa	lor ape ivor ntains ickaging item Code NDC:55154- 3562-0	Package 10 in 1 BAG 1 in 1 BUSTER PACK; Ty Product Information Application No.	Size Imprint	Marketing Start Date	Market Da	ite

LEVOTHYROXINE SODIUM
byothyrora sodium tablet

Preduct Tripe

Preduct Tripe

Onc.

Rem Cade
Searce

Onc.

Searce

Onc.

Searce

Onc.

Searce

Onc.

Searce

Onc.

Searce

Onc.

Strength

Onc.

Strength

Onc.

Strength

Onc.

Labeler - Cardinal Health 107, LLC (118546603)

Revised: 8/2023 Cardinal Health 107, LLC