YNTHROID®

(levothyroxine sodium tablets, USP)

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only

(levothyroxine sodium) (T₄) sodium]. Synthetic T₄ ormula of C₁₅H₁₀I₄N NaO₄ tablets, USP) contain synthetic crystalline L-3,3′,5,5′-tetraiodothyronine sodium is identical to that produced in the human thyroid gland. Levothyroxine (T₄) sodium • H₂O, molecular weight of 798.86 g/mol (anhydrous), and structural formula as sho salt has

Inactive Ingredients acacia, confectioner's sugar (contains tale. The following are the color additives by tablet strength:
Strength (mcg) Color additive(s) corn pov

D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake	300
FD&C Red No. 40 Aluminum Lake	200
FD&C Blue No. 1 Aluminum Lake, D&C Red No. 27 & 30 Aluminum Lake	175
FD&C Blue No. 2 Aluminum Lake	150
FD&C Blue No. 1 Aluminum Lake	137
FD&C Yellow No. 6 Aluminum Lake*, FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 1 Aluminum Lake	125
D&C Red No. 27 & 30 Aluminum Lake	112
D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*	100
FD&C Blue No. 1 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, D&C Yellow No. 10 Aluminum Lake	88
FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake	75
None	50
FD&C Yellow No. 6 Aluminum Lake*	2.5

Note - FIRAC Yellow No. 6 is crange in color.

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*CLINICAL PHARMACOLOCY

*CLINIC

	Thyr	Thyroid Hormones in Euthyroid Patients	roid Patients	
Hormone	Ratio in Thyroglobulin	Biologic Potency	t _{1/2} (days)	Protein Binding (%) ²
Levothyroxine (T_4) Liothyronine (T_3)	10 - 20 1	4	6-7 ¹ ≤2	99.96 99.5
¹ 3 to 4 days in hyperthyroidism, 9 to 10 days in hypothyroidism ² Includes TBG, TBPA, and TBA	sm, 9 to 10 days in h BA	ypothyroidism		

INDICATIONS AND USAGE

Levelyhyoulism and sued for the following indications:

Hypothyroidism — As replacement or supplemental therapy in congenital or acquired hypothyroidism of any etiology, except transient hypothyroidism and subcinical hypothyroidism. Franary hypothyroidism and subcinical hypothyroidism. Primary hypothyroidism any result from functional deficiency primary anophy partial or total congenital absence of the flyroid gland, or from the effects of surgery radiation, or drugs, with or without the presence of gotter.

Philitary TSH suppression — In the treatment or prevention of various types of enthyroid gribers (see WARNINGS and PRECAUTIONS), including thyroid nodules (see WARNINGS and PRECAUTIONS), and as an adjunct to surgery and radiosiodine therapy in the management of thyroideproteint velf-differentiated thyroid cancer.

CONTRAINDICATIONS

Levelyhravite is contraindicated in patients with uncorrected adrenal insufficiency since thyroid houses with uncorrected adrenal insufficiency since thyroid hoursons may precipitate an acute adrenal crisis by increasing the metabolic meature of gottone in the patients with uncorrected adrenal insufficiency since thyroid hoursons may precipitate an acute adrenal crisis by increasing the metabolic meature of gottone produces are made and real crisis by increasing the metabolic meature of the contrained contrained the patients with uncorrected adrenal insufficiency since thyroid hoursons may precipitate an acute adrenal crisis by increasing the metabolic meature of the contrained contrained the patients with uncorrected adrenal insufficiency since thyroid hoursons may precipitate an acute adrenal crisis by increasing the metabolic meature of the contrained contrained the patients with hoursons of the contrained contrained the patients with hoursons of the contrained contrained the

BOXED WARNING

WARNING: Thyroid hormones, including SYNTHROID, either alone or with other for the treatment of boesity or for weight loss. In enthyroid patients, doses within the are ineffective for weight reduction. Larger doses may produce serious or even life particularly when given in association with sympathonimetic amines such as those r therapeutic agents, are range of daily home threatening manife used for their anores its, should not be used iormonal requirements infestations of toxicity, orectic effects.

t be used ₽. the treatment infertility unless this is associated with

Levothyroxine sodium shou hypothyroidism.

In patients with nontoxic odisease, Jevothyroxine sodiu overt thyrotoxicosis (see CC caution in conjunction with potential associated adverse e elderly or those with underlying cardiovascular lready suppressed due to the risk of precipitating suppressed, SYNITHROID should be used with of hyperthyroidism and clinical monitoring for

General sime has a narmar therappatic indea. Regardless of the Indication for use cardial dataget intaking it indicates it necessary to avoid the General structure of the consumers of cover or understormant. These consumers include, among others, and structure of consumers of cover or understormant. These consumers include, among others, and structure of consumers of the consum

ce he water to excess execution, their instantance, nece, changes in internatina persons, more seems and or any orner unitsuit of the S. Neithy recomplicating from the comprehension of the state of the seems of th

Drugs that may increase Effection and the serum Drugs that may decrease serum Androgens / Anabolic Steroids Estrogen-containing Clofibrate Estrogen-containing Clofibrate Estrogen-containing Clofibrate Estrogen-containing Clofibrate Estrogen-containing Clofibrate Estrogen-containing Androgens / Anabolic Steroids Estrogen-containing Estrogen-contain	Drugs that may arer 14 and 13 serum rug Confidence serum TBG concentration Clofibrate Estrogens containing oral contraceptives Estrogens (oral) Herein / Methadome 5-Hunomuraci Mitotane Tamoxifen Drugs that may cause protein-binding rugs and containing oral contraceptives Heyatin Funcaside (> 80 mg IV) Heyatin Rivasemide (> 80 mg IV) Heyatin Sun Steroidal Anti-inflammatory Drugs - Fearmates - Phenythutzome Salicylates (> 2 g/day) Drugs that may increase hepatic metab Cardamazepine Hydantoins Phenythations Phenythations Cardamazepine Hydantoins Phenythations Rifampin
tein-binding	Drugs that may increase serum 186 concentration Clofibrate Stategen-containing contentration Stategen-containing contentrategens (oral) Heroin / Methodone Stategens (oral) Heroin / Methodone Timonifer Immoviter Impairing Hydamionis Anti-Inflammatory Drugs that may cause pre-Pennylbutazone Salicylates (> 2 g/day)
tein-binding	Drugs that may later 14 enthyroid Drugs that may increase serum TBG concentration Clofibrate Estrogen-containing cord contraceptives Estrogen-containing Fellocomand Mitotane Tamoxiden T
tein-binding	Drugs that may increase serum IFB concentration Colfibrate Starogar-containing contentration Estrogar-containing condition (red). Herein / Methodone Schuooward Mitchane Immodien Immod
lein-hinding	Drugs that may airer 1, 4 enthyroid Drugs that may increase serum TBG concentratio Clofibrate Estrogen-containing oral contraceptives Estrogens (oral) Heroin / Methadone Heroin / Methadone SHuorouracil Tamoxifen Tamoxifen Tamoxifen
	Drugs that may airer 1, a entityroid Drugs that may increase former IBG concentration Clothrate Estrogen-containing Betrogen-containing Betrogens (oral) Heroin / Methadone 5-Huorouracil Mitotame Tamonden Tamonden
	euthyroid Drugs that may increase serum TBG concentration
	euthyroid
Drugs that may alter T_4 and T_3 serum transport - but FT_4 concentration remains normal; and therefore, the patient remains enthyroid	T
15	Calcium Carbonate Calcium Exchange Resins - Kayexalate - Rerrous Sulfate - Orlistat - Sucralfate
	- Simethicone Bile Acid Sequestrants - Cholestyramine
Concurrent use may reduce the efficacy of levoltymoxine by binding and delaying sium or preventing absorption, potentially resulting in hypothyroidism. Calcium carbonate may form an insoluble chelate with levoltyrowine, and ferrous sulfate likely forms a	Antacids - Aluminum & Magnesium Hydroxides
Drugs that may decrease \mathbb{T}_4 absorption, which may result in hypothyroidism	Drugs that may decrease
lodide and drugs that contain pharmacologic amounts of iodide may cause hyperthyroidism in enthyroid patients with Grave's disease previously treated with antihyroid drugs or in eathyroid patients with thyroid amonomy (e.g., multinodular goiter or hyperfunctioning thyroid adenoma). Hyperthyroidism may develop over several weeks and may persist for several months after therapy discontinuation. Amiodarone may induce hyperthyroidism by causing thyroidism.	Amiodarone Iodide (including iodine-containing radiographic contrast agents)
Drugs that may increase thyroid hormone secretion, which may result in hyperthyroidism	Drugs that may increase
Long-term lithium therapy can result in goiter in up to 50% of patients. The detay and either subclinical current hypothyroidstin each in up to 20% of patients. The fetus, novatic, elderly and enthyroid patients with underlying thyroid disease (e.g., Hashimoto's thyroiditis or with tagents) who are particularly succeptible to incline induced hypothyroidism. On the cystographic agents and amiodanous are slowly exceived, producing more prolonged hypothyroidism than parenterily administered iofinated contrast agents. Long-term amirnogloted indicate therapy may indirinally decrease 1 ₂ and 1 ₃ levels and increase 15H, although all values remain within normal limits in most platents.	Aminoglutethmide Amiodatrone Incide (including iodine-containing radiographic contrast agents) Lithium Methmazole Propylthiouracii (PTU) Sulforamides Tobutamides
Drugs that may decrease thyroid hormone secretion, which may result in hypothyroidism	Drugs that may decrease
Drugs that alter thyroid hormone secretion	
Agonists die of these agents may result in a transient reduction in TSH secretion when administreted at the following doses: Dopanine (2 1 mg/kg/min); Glucocorticoids (hydrocortisone 2 100 mg/day or equivalent); Octreoide (> 100 mg/day).	Dopamine/Dopamine Agonists Glucocorticoids Octreotide
-the redu	Drugs that may reduce TSH secretion
	Drug or Drug Class
Table 2: Drug-Thyroidal Axis Interactions	

(
Decreased theophylline clearance may occur in hypothyroid patients; clearance returns to normal when the euthyroid state is achieved.	Methylxanthine Bronchodilators - (e.g., Theophylline)
Concurrent use may produce marked hypertension and lachycardia; cautious administration to patients receiving thyroid hormone therapy is recommended.	Ketamine
Excessive use of thyroid homones with growth homones may accelerate epiphyseal closure. However, untreated hypothyroidism may interfere with growth response to growth hormone.	Growth Hormones - Somatrem - Somatropin
Therapy with interferon chas been associated with the development of antihydrad nitrosomal antibodies in 20% of patients and some have transient hypothyroidism, or both. Patients who have antihyroid antibodies before treament are at higher risk for thyroid dysfunction during treatment, interleukin-2 has been associated with transient paniless thyroiditis n 20% of patients. Interferon-pand-y-have not been reported to cause thyroid dysfunction.	Cytokines - Interferon-α - Interfeukin-2
Serum digitalis glycoside levels may be reduced in hyperthyroidism or when the hypethyroid patient is converted to the eurhyroid state. Therapeutic effect of digitalis glycosides may be reduced.	Cardiac Glycosides
Addition of levothyroxine to antidabetic or insulin therapy may result in increased antidabetic agent or insulin requirements. Careful monitoring of diabetic control is recommended, especially when thyroid therapy is started, changed, or discontinued.	Antid labetic Agents - Biguanides - Meglitinides - Meglitinides - Suifonylureas - Thiazalidinediones - Insulin
Concurrent use of tif/etracyclic antidepressants and levothyroxine may increase the therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity to calletohamnes. Toxic effects may include increased risk of cardiac arriythmias and CNS stimulation; onset of action of tricyclies may be accelerated. Administration of sertraline in patients stabilized on levothyroxine may result in increased levothyroxine requirements.	Antidepressants - Tricylise (e.g., Amitriptyline) - Tetracylise (e.g., Maprotiline) - Fetracylise (e.g., Maprotiline) - Selective Semtonin Reuptake Inhibitions (SSRIs; e.g., Sertraline)
Hyroid hormones appear to increase the calabolism of vitamin K-dependent clotting facts, thereby increasing the anticoagulant activity to cral anticoagulants. Concentiant use of these agents impairs the compensatory increases in clotting factor synthesis. Prothombin time should be carefully nonthreed in patients baking levothyroxine and oral anticoagulants and the dose of anticoagulant therapy adjusted accordingly.	Anticoagulants (oral) - Coumarin Derivatives - Indandione Derivatives
Miscellaneous	
Administration of these enzyme inhibitors decreases the peripheral conversion of T ₁ a T ₂ leading to decreased T ₃ levels. However, sentor T ₄ levels are usually normal but may occasionally be slightly increased. In patients treated with large doese of propramold > 160 mg/day), T ₃ and T ₄ levels change slightly, TSH levels treatin normal, and patients are clinically enthyroid. It should be noted that actions of particular beer admeneyic intagonists may be impaired when the hypothyroid patient is converted to the enthyroid state. Short-term administration of large doese of glucocorticoids may decrease serum T ₄ concentrations by 30% with minimal change in serum T ₄ levels. However, long-term glucocorticoid therapy may result in slightly decreased T ₃ and T ₄ levels due to decreased TBG production (see above).	Amiodatone Beta-adrenegic antagonists - (e.g., Proprandol - (s.g., Proprandol - (s.g., Dexamethasone - 4 ng./day) Propylthiouncil (PTU)
inase activity	Drugs that may decrease T ₄ 5'-deiodinase activity
Simulation of hepatic microsomal drug-metabolizing enzyme activity may cause increased hepatic degradation of levothyrovine, resulting in increased levothyrovine requirements. Phenytoin and carbamazepine reduce serum protein birding of levothyrovine, and total-and free-1'1 may be reduced by 20% to 40%, but most patients have normal serum TSH levels and are clinically euthyroid.	Carbanazepine Hydantoins Phenobarbital Rifampin
Drugs that may increase hepatic metabolism, which may result in hypothyroidism	Drugs that may increase hepatic met
Drugs that may alter T_4 and T_3 metabolism	
Administration of these agents with keedsynoxine results in an initial transient increase in FT ₄ . Continued administration results in a decrease in securi T ₄ and rormal FT ₄ and TSH or concentrations and, therefore, patients are clinically eathyroid. Saleyakes inhibit binding of T ₄ and T ₅ to TSG and transthyretin. An initial increase in serum FT ₄ is followed by return of FT ₄ to normal keeks with sustained therapeutics excum salicylate concentrations, although total-T ₄ levels may decrease by as much as 30%.	Hunsemide (> 80 mg IV) Hopanin Hydantoits Non Steroldal Anti-Inflammatory Drugs - Fernanates - Pernylbutzone Salicylates (> 2 g/day)
g site displacement	Drugs that may cause protein-binding
Androgens / Anabolic Steroids Asparaginase Glucoortioids Slow-Release Nicotinic Acid	Clofibrate Estroger-containing oral contraceptives Estrogers (oral) Heroin / Methadone 5-Huonouracil Mibliane Jamoulen
Drugs that may decrease serum TBG concentration	Drugs that may increase serum TBG concentration
	euthyroid

	Table 2: continued	
	Drug or Drug Class	Effect
		Miscellaneous
when	Radiographic Agents	Thyroid hormones may reduce the uptake of 123I, 13II, and 99mTc.
icoids	Sympathomimetics	Concurrent use may increase the effects of sympathomimetics or thyroid hormone. Thyroid hormones may increase the risk of coronary insulficiency when sympathomimetic agents are administered to patients with coronary artery disease.
linical y and y and r with iduals iduals raphic n than nerapy emain	Chloral Hydrate Diazepam Ethionamide Ethionamide Lovastatin Metadopamide 6-Metapi opunide Para-minisalkylate sodium Perphenazine Resorcind (excessive topical use) Thanda b Diaretise	These agents have been associated with thyroid hormone and/or T8H level alterations by various mechanisms.
or in loning ist for sm by	On anticoagulants—Levothyrovine increases the response to oral anticoagula may be warranted with correction of the hypothyroid sine or when the SNTI monitored to pentil appropriate and timely dosage adjustments (see Table 2). Digitalis glycosides—The therapeutic effects of digitalis glycosides may be may be decreased when a hypothyroid patient becomes entityroid, necessed table 2).	Onlanticongulants-Levothynovine increases the response to onal anticongulant therapy. Therefore, a decrease in the dose of anticongulant may be warranted with correction of the hypothyroid state or when the SNNTHROID dose is increased. Prothrombin time should be closely monitored to permit appropriate and timely dosage adjustments (see Table 2). Digitalis glycosides- The therapeutic effects of digitalis glycosides may be reduced by levothyroxine. Senum digitalis glycoside levels may be decreased when a hypothyroid patient becomes enthyroid, necessitating an increase in the dose of digitalis glycosides (see Table 2).
	Drug-Food Interactions - Consumption Soybean flour (infant formula), cotton se from the GI tract.	Drug-Food Interactions - Consumption of certain foods may affect levelsynowine absorption thereby necessitating adjustments in dosing. Soybean flour (infant formula), cotton seed meal, wahruts, and dietary fiber may bind and decrease the absorption of levelsynowine sodium from the Cl tract.
onate	Drug-Laboratory Test Interactions - (Drug-Laboratory Test Interactions - Changes in TBG concentration must be considered when interpreting T4 and T3 values, which

Drug Labonatory Test Interactions - Changes in TBG concentration must be considered when interpreting T₄ and T₅ values, which nate recessitates measurement and evaluation of imborn and or determination of the time T₁ index [F₄]. Prepancy ins a line-time lapithis, serogenes, streggen-containing and contraceptives, and acute intermittent pophyrica increase FBG concentrations have been described, with the incidence of TBG deficiency approximating and contractions, severe hypophyricanian, severe FBG concentrations are observed in replinosis, severe hypophyricanian, severe fire disease, acmonegally, and after admogran or corticosteroid therapy (see also Table 2), familial hyper or hypophyricanian, severe fire disease, acmonegally, and after potential, managenic potential or effects on fertility of levolytyconian straining globulinemias have been described, with the incidence of TBG deficiency approximating 1 in 9000.

Carcinogenesis, Matagenesis, and Impairment of Fertility of levolytyconian and the performed to evaluate the carcinogenic potential, managenic potential or effects on fertility of levolytyconian and the propagate district to that produced naturally by the human thyroid gland. Although there has been a reported association between prolonged thyroid hormone therapy and hypothyroidism diagnosed during pregnancy strain for the lovest effective replacement dose.

Pregnancy - Category A - Studies in women taking levolytyroxine social mutring pregnancy have not shown an increased risk of congenital admormalities. Therefore, the possibility of teal harm appears remote SYNTHROID should not be discontinued during pregnancy and hypothyroidism during pregnancy strain T₄ tevels and year of complications, including spontaneous abortion, pre-eclampsia, stillbrith and premature delivery. Maternal hypothyroidism may have an adverse effect on teal and childhood growth and development. During pregnancy, serum T₄ tevels and yedcrose and serum TSH levels should be corrected by an increase in the dose of SYNTHRO

e in Redairic Use

Fig. 13 H. Gazzal

SH. Gazzal

The goal of treatment in pediatric patients with hypothyroidism is to achieve and maintain normal intellectual and physical growth got Im goal of treatment in pediatric patients with hypothyroidism is to achieve and maintain normal intellectual and physical growth got Im goal of treatment in pediatric varies with age and body weight (see DOSAGE AND ADMINISTRATION, Table 3). The initial dose of levothyroxine varies of the individual patient's clinical and laboratory parameters (see PRECAUTIONS). Dosing adjustments are based on an assessment of the individual patient's clinical and laboratory parameters (see PRECAUTIONS). In children in whom a diagnosis of permanent hypothyroidism has not been established, it is recommended that levothyroxine dramps be distincted in the T₁ is low and the TSH high, the diagnosis of permanent hypothyroidism is established, should the the children of the production of the

Congenital Hypotyncidism (see PRECAUTIONS, Laboratory Tests and DOSAGE AND ADMINISTRATION)
Rapid restoration of normal senum T₄ concentrations is essential for preventing the adverse effects of congenital hypothyroidism on intellectual development as well as on overall physical growth and naturation. Therefore, SYNTHROID therapy should be initiated immediately upon diagnosis and is generally continued for life.

During the first 9 works of SYNTHROID therapy, infants should be closely monitored for cardiac overload, arrhythmias, and aspitation from avid sucking, works of SYNTHROID therapy infants should be closely monitored for cardiac overload, arrhythmias, and may place though the monitored closely to avoid undertreatment or overtreatment. Undertreatment may have deleterious effects on infaltential development and linear growth. Overtreatment has been associated with cardiosynostosis in infants, and may adversely affect the tempo of bain maturation and accelerate the bone age with resultant premature closure of the epiphyses and compromised adult stature.

Acquired Hypothyroidism in Pediatric Patients
The patient should be monitored closely to avoid undertreatment and overtreatment. Undertreatment performance due to impained concentration and slowed mentation and in reduced adult height. Overtre borne age and result in premature epiphyseal closure and compromised adult stature.

Teated children may manifest a period of catchet pig growth, which may be adequate in some cases in facilitation of the properties of may result in poor scheatment may accelerate the

some cases to normalize to normalize adult height. adult height.

NS Gerlatic Use

Recause of the increased prevalence of cardiovascular disease among the elderly, levothyroxine therapy should not be initiated at the in Because of the increased prevalence of cardiovascular disease among the elderly, levothyroxine therapy should not be initiated at the interpolation of the increased appetite of the plantage of the property of the

Aute Massive Overdosage – This may be a life-threatening energency, therefore, symptomate and supportive therapy should be instituted immediately. If not contamindated (e.g., by seatures, coma, or loss of the gag relaw, the stomach should be empited by emests or gastric large for decrease gestricinestical absorption. Activated charcoal or cholesymatine may also be used to decrease absorption. Central and peripheral increased sympathetic activity may be treated by administering. Preceptor antagonists, e.g., propramolo, powded three are no medical contrandications to their use. Provide respiratory support as needed; outrel congestive heart failure and arrhythma; control lever, hypoglycemia, and fluid loss as necessory. Large doses of antihyroid drugs (e.g., methinazed or propythournall) followed in one to two hours by large doses of circline may be given to inhibit synthesis and release of thyroid hormones. Cluccoorticoids may be given to inhibit the conversion of 'I₁ to I₃. Plasmapheresis, charcoal hemoperfusion and exchange transfasion have been reserved for cases in which continued clinical deerloration occurs despite conventional therapty because I₁ is highly protein bound, very little drug will be removed by dialysts.

DOSAGE AND ADMINISTRATION

General Principles

The goal of replacement thenapy is to achieve and maintain a dinical and biochemical euthyroid state. The goal of suppressive therapy is to inhibit growth and/or function of abnormal thyroid tissue. The close of SyNTHROID that is adequate to achieve these goals depends on a variety of factors including the patient's age body weight, cardiovascular states, concenitant medical conditions, including the patient's age body weight, cardiovascular states, concenitant medical conditions, and the specific nature of the condition being treated see WARNINGS and PRECAUTIONS, Hence, the following recommendations serve only as desiring guidelines. Dosing must be individualized and adjustments made based on periodic assessment of the patient's clinical response and laboratory parameters (see PRECAUTIONS, SYNTHROID is administered as a single faily dose, preferably one-half to one-hour before breakfast. SyNTHROID should be taken at least 4 hours apart from drugs that are known to interfere with its absorption (see PRECAUTIONS, Drug Interactions).

Str. 4-6 weeks.

Cautions should be exercised when administering SYNTHROID to patients with underlying cardiovascular disease, to the elderly, and to these with communitant adrenal insufficiency (see PRECAUTIONS).

Specific Patient Populations

Specific Patient Populations

Specific Patient Populations

Hypothyroidism in Adults and in Childen in Whom Growth and Paterty are Complete (see WARNINGS and PRECAUTIONS, Laboratory, Tests)

Hepothyroidism in Adults and in Childen in Whom Growth and Paterty are Complete (see WARNINGS and PRECAUTIONS, Laboratory, Tests)

The appropriate of the patients of the patients of the patients of the patients may require less than 1 mg/ kg/ day; test and may indicate poor compliance, naidors propriet of daily doese \$2.30 mg/ day is rate and may indicate poor compliance, naidors for most patients older than 50 years of the patients with gradual increments in does at 6.8 week intervals, as needed. The recommended starting does of evoltyrowine sodium is deedly patients with cardiac disease, an initial starting does increments at 4-6 week intervals. The levoltyrowine sodium is deedly patients with cardiac disease is 12.5-25 mg/ target and does increments at 4-6 week intervals. The levoltyrowine sodium does is generally adjusted in 12.5-25 mg/ day every 4-4 weeks, accompanied by clinical and alboratory assessment, until the TSH level is normalized.

In patients with secondary (pituitary) or terfary (hypothyroidism, the levoltyroxine sodium does is completed by clinical and alboratory assessment, until the TSH level is normalized.

Stong (day every 4-4 weeks, accompanied by clinical and alboratory assessment, until the TSH level is normalized.

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Stong (day every 4-4 weeks, accompanied by clinical and alboratory assessment, until the TSH level is normalized.

Stong the patient is chinically clinical through the patient is chinically clinical throug

Rediatric Dosage - Congenital or Acquired Hypothyroidism (see PRECAUTIONS, Laboratory Tests)

Granul Principles

General Principles

In general, Jevothyroxine therapy should be instituted at full replacement doses as soon as possible. Delays in diagnosis and institution of therapy may have deleterious effects on the child's inhelectual and physical growth and development. Undertreatment and or overtreatment should be avoided (see PRECAUTIONS, Pedatric Use).

SyNTHROID may be administered to infants and children who cannot swallow intact tablets by crushing the tablet and suspending the freshly crushed lablet in a small amount (5-10 mL or 1-2 beapoons) of water. This suspension can be administered by spoon or by the freshly crushed lablet in a small amount (5-10 mL or 1-2 beapoons) of water. This suspension can be administered by spoon or by the freshly crushed lablet in a small amount (5-10 mL or 1-2 beapoons) of water. This suspension can be administered by spoon or by the freshly crushed lablet in a small amount (5-10 mL or 1-2 beapons) of water. This suspension can be administered by spoon or by the properties of the properti

Newtowns: A commended starting dose of levethyroxine sedium in newborn infants is 10-15 mgykgday. A lower starting dose (seg., 25 mg, (day) should be considered in infants at risk (creatilise, failum, and the dose should be increased in 4-6 weeks as needed based on elimination and laboratory response to treatment. In infants with very low (c. 5 mg, 'd.l.) or undetectable serum 'l. Infants and Californ laboratory response to treatment. In infants with order solution. Infants and Californ laboratory is usually initiated at full replacement doses, with the recommended dose per body weight decreasing with age (see Table 3). However, in children with chomic or severe hypothyroidism, an initial dose of 25 mg/day of levothyroxine solution is recommended with increments of 25 mg/g every 24 weeks until the desired effect is achieved.

Hyperactivity in an older child can be minimized if the starting dose is one-founth of the recommended full replacement dose, and the close is then increased on a weakly basis by an amount equal to one-fourth the full-recommended replacement dose until the full-recommended replacement dose is such that the close is the full-recommended of the commended of the commended replacement dose is such that the close is the full-recommended of the commended of the

Table 3: Levothyroxine Sodium D	Table 3: Levothyroxine Sodium Dosing Guidelines for Pediatric Hypothyroidism
AGE	Daily Dose Per Kg Body Weight ^a
0-3 months	10-15 mcg/kg/day
3-6 months	8-10 mcg/kg/day
6-12 months	6-8 mcg/kg/day
1-5 years	5-6 mcg/kg/day
6-12 years	4-5 mcg/kg/day
>12 years but growth and puberty incomplete	2-3 mcg/kg/day
Growth and puberty complete	1.7 mcg/kg/day
a The dose should be adjusted based on clinical response	a The dose should be adjusted based on clinical response and laboratory parameters (see PRECAUTIONS, Laboratory Tests and

^a The dose should be adjusted based Pediatric Use). on clinical response and laboratory parameters (see

Pregnancy Pregnancy may increase levothyroxine requirements (see PREGNANCY).

Stocknical Happthyroidism: If this condition is treated, a lower levothyroxine sodium dose (e.g., I mcg/kg/day) than that used replacement may be dequate to normalize the serum TSH level. Patients who are not treated should be monitored yearly for in clinical status and thyroid laboratory parameters. d for full changes

TSHS suppression in Well-differentiated Thuroid Cancer and Thuroid Nodules: The tanget level for TSH suppression in these conditions has not been established with controlled studies. In addition, the efficacy of TSH suppression for being in roadiar disease is controversial. Therefore, the dose of SYNHROID used for TSH suppression should be individualized based on the specific disease and the patient being troated.

In the treatment of SYNHROID used for TSH suppression should be individualized based on the specific disease and the patient being troated in the treatment of the "different suppressed to o'll mU/L, and this usually requires a leverthyroxine sodium close of greater than 2 meg kg/day; However, in patients with high-risk tumors, the target level for TSH suppression may be doll in U/L.

In the treatment of being modules and nomovic multimodular gainer. TSH is generally suppressed to a bigher target (e.g., 0.1 to either 10.5 or 1.10 mU/L) than that used for the treatment of thyroid cancer. Levelthyroxine sodium is contraindicated if the serum TSH is already suppressed due to the risk of precipitating over thyroxicosics (see CONTRAINDICATIONS, MARVINGS and PRECAUTIONS).

Myzedema Comm - Myzedema coma is a life-threatening emergency characterized by poor circulation and hypometabolism, and may products are not recommended to treat this condition. Hyroid hormone products formulated for intravenous administration should be administered.

HOW SUPPLIED SYNTHROID® (evothyroxine sodium tablets, USP) are round, color coded, scored and debossed with "SYNTHROID® and potency on the other side. They are supplied as follows: on one side

Strength (mcg)	Color	NDC # for bottles of 90	NDC # for bottles of 100	NDC # for bottles of 1000	NDC # for unit dose cartons of 100
25	orange	0074-4341-90	0074-4341-13	0074-4341-19	ı
50	white	0074-4552-90	0074-4552-13	0074-4552-19	0074-4552-11
75	violet	0074-5182-90	0074-5182-13	0074-5182-19	0074-5182-11
88	olive	0074-6594-90	0074-6594-13	0074-6594-19	1
100	yellow	0074-6624-90	0074-6624-13	0074-6624-19	0074-6624-11
112	rose	0074-9296-90	0074-9296-13	0074-9296-19	1
125	brown	0074-7068-90	0074-7068-13	0074-7068-19	0074-7068-11
137	turquoise	0074-3727-90	0074-3727-13	0074-3727-19	
150	blue	0074-7069-90	0074-7069-13	0074-7069-19	0074-7069-11
175	lilac	0074-7070-90	0074-7070-13	0074-7070-19	
200	pink	0074-7148-90	0074-7148-13	0074-7148-19	0074-7148-11
300	green	0074-7149-90	0074-7149-13	0074-7149-19	1

Storage Conditions
Stora et 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP should be protected from light and moisture
(Nos. 431, 4502, 5182, 6594, 6624, 9296, 7068, 3727, 7069, 7070, 7148, 7149)
Ref. 03-A500-R6-Rev. June, 2011 Controlled Room Temperature] SYNTHROID tablets

Abbott Laboratories North Chicago, IL 60064, U.S.A.

605-637608 MASTER

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