SYNTHROID®

(levothyroxine sodium tablets, USP)

R only

DESCRIPTION SYNTHROID® (levothyroxine sodium tablets, USP) contain synthetic crystalline L-3,3',5,5'-tetraiodothyroxine sodium salt [levothyroxine (T_4) sodium]. Synthetic T_4 is identical to that produced in the human thyroid gland. Levothyroxine (T_4) sodium has an empirical formula of $C_{13}H_{10}I_4N$ NaO $_4$ • H_2O , molecular weight of 798.86 g/mol (anhydrous), and structural formula as shown:

$$\begin{array}{c|c} I & NH_2 \\ \hline \\ HO & -CH_2 & -C-COONa^*xH_2C \\ \hline \\ H & -C-COONa^*xH_2C \\ \hline \\ \end{array}$$

Inactive Ingredients: acacia, confectioner's sugar (contains corn starch), lactose monohydrate, magnesium stearate, povidone, and talc. The following are the color additives by tablet strength:

Strength (mcg)	Color additive(s)
25	FD&C Yellow No. 6 Aluminum Lake*
50	None
75	FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake
88	FD&C Blue No. 1 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, D&C Yellow No. 10 Aluminum Lake
100	D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*
112	D&C Red No. 27 & 30 Aluminum Lake
125	FD&C Yellow No. 6 Aluminum Lake*, FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 1 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 & 30 Aluminum Lake
200	FD&C Red No. 40 Aluminum Lake
300	D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake

Note - FD&C Yellow No. 6 is orange in color.

Meets USP Dissolution Test 3

CLINICAL PHARMACOLOGY

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Thyroid hormone synthesis and secretion is regulated by the hypothalamic-pituitary-thyroid axis. Thyrotropin-releasing hormone (TSH) released from the hypothalamus stimulates secretion of thyrotropin-stimulating hormone, TSH, from the anterior pituitary. TSH, in turn, is the physiologic stimulus for the synthesis and secretion of thyroid promone, TSH, from the anterior pituitary. TSH, in turn, is the physiologic stimulus for the synthesis and secretion of thyroid hormone, TSH, from the anterior pituitary. TSH, in turn, is the physiologic stimulus for the synthesis and secretion of thyroid hormone, ISH, from the anterior with the secretion increase. The mechanisms by which thyroid hormone severt their physiologic actions are not completely understood, but it is thought that their principal effects are exerted through control of DNA transcription and protein synthesis. T₃ and T₄ diffuse into the cell nucleus and bind to thyroid receptor proteins attached to DNA. This hormone nuclear receptor complex activates gene transcription and synthesis of messenger RNA and cytoplasmic proteins.

Thyroid hormones regulate multiple metabolic processes and play an essential role in normal growth and development.

The physiological actions of thyroid hormones and bone. The metabolic actions of thyroid hormones include augmentation of cellular respiration and thermogenesis, as well as metabolism of proteins, carbohydrates and lipids. The protein anabolic effects of thyroid hormones are sesential to normal growth and development.

The physiological actions of thyroid hormones are produced predominantly by T₃, the majority of which (approximately 80%) is derived from T₂ by decidination in peripheral tissues.

Levothyroxine, at doses individualized according to patient response, is effective as replacement or supplemental therapy in hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroidiis.

Levothyroxine is also effective in the suppression of pit

Pharmacokinetics

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Absorption – Absorption of orally administered T₄ from the gastrointestinal (GI) tract ranges from 40% to 80%. The majority of the levothyroxine dose is absorbed from the jejunum and upper ileum. The relative bioavailability of SYNTHROID tablets, compared to an equal nominal dose of oral levothyroxine sodium solution, is approximately 93%. T₄ absorption is increased by fasting, and decreased in malabsorption syndromes and by certain foods such as soybean infant formula. Dietary fiber decreases bioavailability of T₄. Absorption may also decrease with age. In addition, many drugs and foods affect T₄ absorption (see PRECAUTIONS, Drug Interactions). Drug-Food Interactions)

Drug-rood interactions).

Distribution – Circulating thyroid hormones are greater than 99% bound to plasma proteins, including thyroxine-binding globulin (TBG), thyroxine-binding prealbumin (TBPA), and albumin (TBA), whose capacities and affinities vary for each hormone. The higher affinity of both TBC and TBPA for T₄ partially explains the higher serum levels, slower metabolic clearance, and longer half-life of T₄ compared to T₃. Protein-bound thyroid hormones exist in reverse equilibrium with small amounts of free hormone. Only unbound hormone is metabolically active. Many drugs and physiologic conditions affect the binding of thyroid hormones to serum proteins (see PRECAUTIONS, Drug Interactions and Drug-Laboratory Test Interactions). Thyroid hormones do not readily cross the placental barrier (see PRECAUTIONS, Pregnancy).

placental barrier (see PREACH UNDA, Fregnancy).

Metabolism - T_a is slowly eliminated (see Table 1). The major pathway of thyroid hormone metabolism is through sequential deiodination. Approximately eighty-percent of circulating T₃ is derived from peripheral T₄ by monodeiodination. The liver is the major site of degradation for both T₄ and T₂, with T₄ deiodination also occurring at a number of additional sinculuting the kidney and other tissues. Approximately 80% of the daily dose of T₄ is deiodinated to yield equal amounts of T₃ and reverse T₃ (rT₃). T₃ and rT₃ are further deiodinated to diidodhyronine. Thyroid hormones are also metabolized via conjugation with glucuronides and sulfates and excreted directly into the bile and gut where they undergo enterohepatic recirculation.

 $\label{limination-Thyroid hormones are primarily eliminated by the kidneys. A portion of the conjugated hormone reaches the colon unchanged and is eliminated in the feces. Approximately 20% of T_4 is eliminated in the stool. Urinary excretion of T_4 decreases with age. \\$

Table 1: Pharmacokinetic Parameters of Thyroid Hormones in Euthyroid Patients					
Hormone	Ratio in Thyroglobulin	Biologic Potency	t _{1/2} (days)	Protein Binding (%) ²	
Levothyroxine (T ₄) Liothyronine (T ₃)	10 - 20 1	1 4	6-7 ¹ ≤ 2	99.96 99.5	

 $^{\overline{1}}$ 3 to 4 days in hyperthyroidism, 9 to 10 days in hypothyroidism 2 Includes TBG, TBPA, and TBA

INDICATIONS AND USAGE

Levothyroxine sodium is used for the following indications:

Levothyroxane sodium is used for the following indications: Hypothyroidism of any etiology, except transient hypothyroidism—As replacement or supplemental therapy in congenital or acquired hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis. Specific indications include: primary (thyroidismland), secondary (pituitary), and tertiary (hypothalamic) hypothyroidism. And subclinical hypothyroidism, Primary hypothyroidism may result from functional deficiency, primary atrophy, partial or total congenital absence of the thyroid gland, or from the effects of surgery, radiation, or drugs, with or without the presence of goiter.

Pituitary TSH Suppression— In the treatment or prevention of various types of euthyroid goiters (see WARNINGS and PRECAUTIONS), including thyroid nodules (see WARNINGS and PRECAUTIONS), subacute or chronic lymphocytic thyroiditis (Hashimoto's thyroiditis), multimodular goiter (see WARNINGS and PRECAUTIONS) and, as an adjunct to surgery and radioiodine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer.

CONTRAINDICATIONS

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Levothyroxine is contraindicated in patients with untreated subclinical (suppressed serum TSH level with normal T₃ and T₄ levels) or overt thyrotoxicosis of any etiology and in patients with acute myocardial infarction. Levothyroxine is contraindicated in patients with uncorrected adrenal insufficiency since thyroid hormones may precipitate an acute adrenal crisis by increasing the metabolic clearance of glucocorticoids (see PRECAUTIONS). SYNTHROID is contraindicated in patients with hypersensitivity to any of the inactive ingredients).

WARNINGS

BOXED WARNING
WARNING: Thyroid hormones, including SYNTHROID, 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 life threatening manifestations of toxicity, particularly when given in association with sympathomimetic amines such as those used for their anorectic effects.

Levothyroxine sodium should not be used in the treatment of male or female infertility unless this condition is associated with

In patients with nontoxic diffuse goiter or nodular thyroid disease, particularly the elderly or those with underlying cardiovascular disease, levothyroxine sodium therapy is contraindicated if the serum TSH level is already suppressed due to the risk of precipitating overt thyrotoxicosis (see CONTRAINDICATIONS). If the serum TSH level is not suppressed, SYNTHROID should be used with caution in conjunction with careful monitoring of thyroid function for evidence of hyperthyroidism and clinical monitoring for potential associated adverse cardiovascular signs and symptoms of hyperthyroidism.

PRECAUTIONS

PRECAUTIONS
General
Levothyroxine has a narrow therapeutic index. Regardless of the indication for use, careful dosage titration is necessary to avoid the consequences of over- or under-treatment. These consequences include, among others, effects on growth and development, cardiovascular function, bone metabolism, reproductive function, cognitive function, emotional state, gastrointestinal function, and on glucose and lipid metabolism. Many drugs interact with levothyroxine sodium necessitating adjustments in dosing to maintain therapeutic response (see Drug Interactions).

(see Drug Interactions).

Effects on bone mineral density- In women, long-term levothyroxine sodium therapy has been associated with increased bone resorption, thereby decreasing bone mineral density, especially in post-menopausal women on greater than replacement doses or in women who are receiving suppressive doses of levothyroxine sodium. The increased bone resorption may be associated with increased serum levels and unitary excretion of calcium and phosphorous, elevations in bone alkaline phosphatase and suppressed serum parathyroid hormone levels. Therefore, it is recommended that patients receiving levothyroxine sodium be given the minimum dose necessary to achieve the desired clinical and biochemical response.

Patients with underlying cardiovascular disease- Exercise caution when administering levothyroxine to patients with cardiovascular disorders and to the elderly in whom there is an increased risk of occult cardiac disease. In these patients, levothyroxine therapy should be initiated at lower doses than those recommended in younger individuals or in patients without cardiac disease (see WARNINGS: PRECAUTIONS, Geriartic Use; and DOSAGE AND ADMINISTRATION). If cardiac symptoms develop or worsen, the levothyroxine dose should be reduced or withheld for one week and then cautiously restarted at a lower dose overteament with levothyroxine sodium may have adverse cardiovascular effects such as an increase in attrate, cardiac wall thickness, and cardiac contractility and may precipitate angina or arrhythmias. Patients with coronary artery disease who are receiving levothyroxine therapy should be monitored closely during surgical procedures, since the possibility of precipitating cardiac arrhythmias may be greater in those treated with levothyroxine. Concomitant administration of levothyroxine and sympathomimetic agents to patients with coronary artery disease may precipitate coronary insufficiency.

Patients with nontoxic diffuse goiter or nodular thyroid disease. Exercise caution when administering levothyroxine to patients with nontoxic diffuse goiter or nodular thyroid disease in order to prevent precipitation of thyrotoxicosis (see WARNINGS). If the serum TSH is already suppressed, levothyroxine sodium should not be administered (see CONTRAINDICATIONS).

Associated endocrine disorders

Associated endocrine usorders and the properties of the properties

pusygamular syndrome for acrenal insufficiency.

<u>Autoimmune polyglandular syndrome</u>- Occasionally, chronic autoimmune thyroiditis may occur in association with other autoimmune disorders such as adrenal insufficiency, permicious anemia, and insulin-dependent diabetes mellitus. Patients with concomitant adrenal insufficiency should be treated with replacement glucocorticoids prior to initiation of treatment with levothyroxine sodium. Failure to do so may precipitate an acute adrenal crisis when thyroid hormone therapy is initiated, due to increased metabolic clearance of glucocorticoids by thyroid hormone. Patients with diabetes mellitus may require upward adjustments of their antidiabetic therapeutic regimens when treated with levothyroxine (see PRECAUTIONS, Drug Interactions).

Other associated medical conditions
Infants with congenital hypothyroidism appear to be at increased risk for other congenital anomalies, with cardiovascular anomalies (pulmonary stenois, atrial septal defect, and ventricular septal defect) being the most common association.

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 Information for Patients
 Patients should be informed of the following information to aid in the safe and effective use of SYNTHROID:
 1 Notify your physician if you are allergic to any foods or medicines, are pregnant or intend to become pregnant, are breast-feeding or are taking any other medications, including prescription and over-the-counter preparations.
 2 Notify your physician of any other medical conditions you may have, particularly heart disease, diabetes, clotting disorders, and adrenal or pituitary gland problems. Your dose of medications used to control these other conditions may need to be adjusted while you are taking any TriHROID. If you have diabetes, monitor your blood and/or uniary glucose levels as directed while you are taking anticoagulants (blood thinners), your clotting status should be checked frequently.
 3. Use SYNTHROID only as prescribed by your physician. Do not discontinue or change the amount you take or horder you take to the status should be checked frequently.
 4. The levothyroxine in SYNTHROID is intended to replace a hormone that is normally produced by your thyroid gland. Generally, replacement therapy is to be taken for life, except in cases of transient hypothyroidism, which is usually associated with an inflammation of the thyroid gland (thyroiditis).
 5. Take SYNTHROID as a single dose, preferably on an empty stomach, one-half to one hour before breakfast. Levothyroxine absorption is increased on an empty stomach.
 6. It may take several weeks before you notice an improvement in your symptoms.
 7. Notify your physician if you experience any of the following symptoms: rapid or irregular heartbeat, chest pain, shortness of breath, leg cramps, headdon, nervousness, irritability, steeplessness, tremory, change in appetite, weight gain or loss,

Laboratory Tests

Secretary The diagnosis of hypothyroidism is confirmed by measuring TSH levels using a sensitive assay (second generation assay sensitivity $\leq 0.11 \, \text{mIU/L}$) and measurement of free-T₄.

The adequacy of therapy is determined by periodic assessment of appropriate laboratory tests and clinical evaluation. The choice of laboratory tests depends on various factors including the etiology of the underlying thyroid disease, the presence of concomitant medical conditions, including pregnancy, and the use of concomitant medications (see PRECAUTIONS, Drug Interactions and Drug-Laboratory Test Interactions). Persistent clinical and laboratory evidence of hypothyroidism despite an apparent adequate replacement dose of SYNTHROID may be evidence of inadequate absorption, poor compliance, drug interactions, or decreased T₄ replacement dose of SYNTH potency of the drug product.

potency of the drug product.

Adults
In adult patients with primary (thyroidal) hypothyroidism, serum TSH levels (using a sensitive assay) alone may be used to monitor therapy. The frequency of TSH monitoring during levothyroxine dose titration depends on the clinical situation but it is generally recommended at 6-8 week intervals until normalization. For patients who have recently initiated levothyroxine therapy and whose serum TSH has normalized or in patients who have had their dosage or brand of levothyroxine changed, the serum TSH concentration should be measured after 8-12 weeks. When the optimum replacement dose has been attained, clinical (physical examination) and biochemical monitoring may be performed every 6-12 months, depending on the clinical situation, and whenever there is a change in the patient's status. It is recommended that a physical examination and a serum TSH measurement be performed eat least annually in patients receiving SYNTHROID (see WARNINGS, PRECAUTIONS, and DOSAGE AND ADMINISTRATION).

patients receiving SYNTHROID (see WARNINGS, PRECAUTIONS, and DOSAGE AND ADMINISTRATION).

Rediatrics
In patients with congenital hypothyroidism, the adequacy of replacement therapy should be assessed by measuring both serum TSH (using a sensitive assay) and total- or free-T₄. During the first three years of life, the serum total- or free-T₄ should be maintained at all times in the upper half of the normal range. While the aim of therapy is to also normalise serum TSH level, this is not always possible in a small percentage of patients, particularly in the first few months of therapy. TSH may not normalize due to a resetting of the pituitary-thyroid ecedback threshold as a result of in utero hypothyroidism. Flaure of the serum TSH to decrease below 20 mU/L within 4 weeks should alter the physician to the possibility that the child is not receiving adequate therapy. Careful inquiry should then be made regarding compliance, dose of medication administered, and method of administration prior to raising the dose of SYNTHROID.

The recommended frequency of monitoring of TSH and total or free T₄ in children is as follows: at 2 and 4 weeks after the initiation of treatment; every 1-2 months during the first year of life; every 2-3 months between 1 and 3 years of age; and every 3 to 12 months thereafter until growth is completed. More frequent intervals of monitoring may be necessary if poor complete is supported to abnormal values are obtained. It is recommended that TSH and T₄ levels, and a physical examination, if indicated, be performed 2 weeks after any change in SYNTHROID dosage. Routine clinical examination, including assessment of mental and physical growth and development, and bone maturation, should be performed at regular intervals (see PRECAUTIONS, Pediatric Use and DOSAGE AND ADMINISTRATION).

Secondary (pituitary) and terriary (hypothalamic) hypothyroidism

Secondary (pituitary) and tertiary (hypothalamic) hypothyroidism
Adequacy of therapy should be assessed by measuring serum free-T₄ levels, which should be maintained in the upper half of the normal range in these patients.

Drug Interactions

Drug interatums Many drugs affect thyroid hormone pharmacokinetics and metabolism (e.g., absorption, synthesis, secretion, catabolism, protein binding, and target tissue response) and may alter the therapeutic response to SYNTHROID. In addition, thyroid of hormones and thyroid status have varied effects on the pharmacokinetics and actions of other drugs. A listing of drug-thyroidal axis interactions is ained in Table 2.

contained in Table 2.

The list of drug-thyroidal axis interactions in Table 2 may not be comprehensive due to the introduction of new drugs that interact with the thyroidal axis or the discovery of previously unknown interactions. The prescriber should be aware of this fact and should consult appropriate reference sources (e.g., package inserts of newly approved drugs, medical literature) for additional information if a drug-drug interaction with levothyroxine is suspected.

David Co.	Table 2: Drug-Thyroidal Axis Interactions			
Drug or Drug Class	Effect n–the reduction is not sustained; therefore, hypothyroidism does not occur			
Dopamine/Dopamine Agonists Glucocorticoids Octreotide	Use of these agents may result in a transient reduction in TSH secretion whe administered at the following doses: Dopamine (≥ 1 mcg/kg/min); Glucocorticoic (hydrocortisone ≥ 100 mg/day or equivalent); Octreotide (> 100 mcg/day).			
	Drugs that alter thyroid hormone secretion			
	mone secretion, which may result in hypothyroidism			
Aminoglutethimide Amiodarone lodide (including iodine-containing radiographic contrast agents) Lithium Methimazole Propylthiouracii (PTU) Sulfonamides Tolbutamide	ioidarone idio (including iodine-containing diographic contrast agents) itium thimazole pylthiouraci (PTU) fonamides or o'ever hypothyroidism, each in up to 20% of patients. The fettus, neonate, elderle euthyroid opatients with underlying thyroid disease (e.g., Hashimoto's thyroidists o Grave's disease previously treated with radioiodine or surgery) are among those indiv who are particularly susceptible to iodine-induced hypothyroidism. Oral cholecystopy thimazole pylthiouraci (PTU) fonamides agents and amiodarone are slowly excreted, producing more prolonged hypothyroidis parenterally administered iodinated contrast agents. Long-term aminoglutethimide ti may minimally decrease T4, and Ta, levels and increase TSH, although all values i			
Drugs that may increase thyroid horr	mone secretion, which may result in hyperthyroidism			
Amiodarone lodide (including iodine-containing radiographic contrast agents)	lodide and drugs that contain pharmacologic amounts of iodide may cause hyperthyroidis in euthyroid patients with Grave's disease previously treated with antithyroid drugs or euthyroid patients with thyroid autonomy (e.g., multinodular goiter or hyperfunctionit thyroid adenoma). Hyperthyroidism may develop over several weeks and may persist fa several months after therapy discontinuation. Amiodarone may induce hyperthyroidism teausing thyroiditis.			
Drugs that may decrease T ₄ absorption	on, which may result in hypothyroidism			
Antacids - Aluminum & Magnesium Hydroxides - Simethicone Bile Acid Sequestrants - Cholestyramine - Cholestyramine Calcium Carbonate Cation Exchange Resins - Kayexalate Ferrous Sulfate Orlistat Sucrafiate	Concurrent use may reduce the efficacy of levothyroxine by binding and delayir or preventing absorption, potentially resulting in hypothyroidism. Calcium carbona may form an insoluble chelate with levothyroxine, and ferrous sulfate likely forms ferric-thyroxine complex. Administer levothyroxine at least 4 hours apart from the agents. Patients treated concomitantly with orlistat and levothyroxine should be monitore for changes in thyroid function.			
Drugs that may alter T ₄ and T ₃ serun euthyroid	n transport - but FT ₄ concentration remains normal; and therefore, the patient remains			
Drugs that may increase	Drugs that may decrease serum			
serum TBG concentration	TBG concentration			
Clofibrate Estrogen-containing oral contraceptives Estrogens (oral) Heroin / Methadone 5-Fluorouracil Mitotane Tamoxifen	Androgens / Anabolic Steroids Asparaginase Glucocorticoids Slow-Release Nicotinic Acid			
Drugs that may cause protein-bindin	g site displacement			
Furosemide (> 80 mg IV) Heparin Hydantoins Non Steroidal Anti-Inflammatory Drugs - Fenamates - Phenylbutazone Salicylates (> 2 g/day)	Administration of these agents with levothyroxine results in an initial transient increase: FF4_cOntinued administration results in a decrease in serum T ₄ and normal FT4_and T3 to concentrations and, therefore, patients are clinically euthyroid, Salicylates inhibit binding, T4_and T3_to TBG and transhryeria. An initial increase in serum FT4_is followed by return of FT4_to normal levels with sustained therapeutic serum salicylate concentration although total-T4_levels may decrease by as much as 30%.			
	Drugs that may alter T ₄ and T ₃ metabolism			
	abolism, which may result in hypothyroidism			
Carbamazepine Hydantoins Phenobarbital Rifampin	Stimulation of hepatic microsomal drug-metabolizing enzyme activity may cause increase hepatic degradation of levothyroxine, resulting in increased levothyroxine requirement Phenytoin and carbamazepine reduce serum protein binding of levothyroxine, and tota and free -1 may be reduced by 20% to 40%, but most patients have normal serum TSH leve and are clinically euthyroid.			
Drugs that may decrease T ₄ 5'-deiodi	·			
Amiodarone Beta-adrenergic antagonists - (e.g., Propranolol > 160 mg/day) Glucocorticoids - (e.g., Dexamethasone ≥ 4 mg/day) Propylthiouracil (PTU)	Administration of these enzyme inhibitors decreases the peripheral conversion of T ₄ to T leading to decreased T ₃ levels. However, serum T ₄ levels are usually normal but me occasionally be slightly increased. In patients treated with large doses of propranol (>160 mg/day), T ₃ and T ₄ levels change slightly, TSH levels remain normal, and patients a clinically euthyroid. It should be noted that actions of particular beta-adrenergic antagonis may be impaired when the hypothyroid patient is converted to the euthyroid stat Short-term administration of large doses of glucocorticoids may decrease serum 'concentrations by 30% with minimal change in serum T ₄ levels. However, long-ter glucocorticoid therapy may result in slightly decreased T ₃ and T ₄ levels due to decrease TBG production (see above).			
Author Just (cod)	Miscellaneous			
	Thyroid hormones appear to increase the catabolism of vitamin K-dependent clotting factor thereby increasing the anticoagulant activity of oral anticoagulants. Concomitant use of the			
	agents impairs the compensatory increases in clotting factor synthesis. Prothrombin tin should be carefully monitored in patients taking levothyroxine and oral anticoagulants and the dose of anticoagulant therapy adjusted accordingly.			
- Coumarin Derivatives - Indandione Derivatives Antidepressants - Tricyclics (e.g., Amitriptyline) - Tetracyclics (e.g., Maprotiline)	should be carefully monitored in patients taking levothyroxine and oral anticoagulants an			
Antidepressants - Tricyclics (e.g., Amitriptyline) - Tetracyclics (e.g., Maprotiline) - Selective Serotonin Reuptake Inhibitors	should be carefully monitored in patients taking levothyroxine and oral anticoagulants ar the dose of anticoagulant therapy adjusted accordingly. Concurrent use of tri/tetracyclic antidepressants and levothyroxine may increase it therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity catecholamines. Toxic effects may include increased risk of cardiac arrhythmias and CN stimulation; onset of action of tricyclics may be accelerated. Administration of sertraline:			
- Coumárin Derivatives - Indandione Derivatives - Indandione Derivatives - Indandione Derivatives - Tricyclics (e.g., Amitriptyline) - Tetracyclics (e.g., Maprotiline) - Selective Serotonin Reuptake Inhibitors (SSRIs; e.g., Sertraline) - Antidiabetic Agents - Biguanides - Meglittnides - Sulfonylureas - Thiazoldinediones - Insulin - Cardiac Glycosides	should be carefully monitored in patients taking levothyroxine and oral anticoagulants ar the dose of anticoagulant terapy adjusted accordingly. Concurrent use of tri/tetracyclic antidepressants and levothyroxine may increase the therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity catecholamines. Toxic effects may include increased risk of cardiac arrhythmias and CN stimulation; onset of action of tricyclics may be accelerated. Administration of sertraline: patients stabilized on levothyroxine may result in increased levothyroxine requirement antidiabetic agent or insulin requirements. Careful monitoring of diabetic control recommended, especially when thyroid therapy is started, changed, or discontinue. Serum digitalis glycoside levels may be reduced in hyperthyroidism or when thypothyroid patient is converted to the euthyroid state. Therapeutic effect of digital glycosides may be reduced.			
- Coumárin Derivatives - Indandione Derivatives - Indandione Derivatives - Indandione Derivatives - Tricyclics (e.g., Amitriptyline) - Tetracyclics (e.g., Maprotiline) - Selective Serotonin Reuptake Inhibitors (SSRS; e.g., Sertraline) - Antidiabetic Agents - Biguanides - Weglitnides - Sulfonylureas - Thiazolidinediones	should be carefully monitored in patients taking levothyroxine and oral anticoagulants ar the dose of anticoagulant therapy adjusted accordingly. Concurrent use of tri/tetracyclic antidepressants and levothyroxine may increase it therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity catecholamines. Toxic effects may include increased risk of cardiac arrhythmias and CN stimulation; onset of action of tricyclics may be accelerated. Administration of sertraline patients stabilized on levothyroxine may result in increased levothyroxine requirement. Addition of levothyroxine to antidiabetic or insulin therapy may result in increase antidiabetic agent or insulin requirements. Careful monitoring of diabetic control recommended, especially when thyroid therapy is started, changed, or discontinue. Serum digitalis glycoside levels may be reduced in hyperthyroidism or when the hypothyroid patient is converted to the euthyroid state. Therapeutic effect of digital			
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- Coumárin Derivatives - Indandione Derivatives - Indandione Derivatives - Indandione Derivatives - Tricyclics (e.g., Amitriptyline) - Tetracyclics (e.g., Maprotiline) - Selective Serotonin - Reuptake Inhibitors (SSRIs; e.g., Sertraline) - Antidiabetic Agents - Biguanides - Meglitinides - Meglitinides - Sulfonylureas - Thiazolidinediones - Insulin - Cardiac Glycosides - Cytokines - Interferon-α - Interferon-α - Interfeukin-2	should be carefully monitored in patients taking levothyroxine and oral anticoagulants ar the dose of anticoagulant terapy adjusted accordingly. Concurrent use of tri/tetracyclic antidepressants and levothyroxine may increase the therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity catecholamines. Toxic effects may include increased risk of cardiac arrhythmias and CN stimulation; onset of action of tricyclics may be accelerated. Administration of sertraline i patients stabilized on levothyroxine may result in increased levothyroxine requirement Addition of levothyroxine to antidiabetic or insulin therapy may result in increase antidiabetic agent or insulin requirements. Careful monitoring of diabetic control recommended, especially when thyroid therapy is started, changed, or discontinue. Serum digitalis glycoside levels may be reduced in hyperthyroidism or when thyrophyroid patient is converted to the euthyroid state. Therapeutic effect of digital glycosides may be reduced. Therapy with interferon-α has been associated with the development of antithyroimicrosomal antibodies in 20% of patients and some have transient hypothyroidism yperthyroidism, or both Patients who have antithyroid antibodies before treatment are higher risk for thyroid dysfunction during treatment. Interleukin-2 has been associated wit transient patiness thyroiditis in 20% of patients. Interferon-β and -γ have not been reported cause thyroid dysfunction. Excessive use of thyroid hormones with growth hormones may accelerate epiphyseal closur However, untreated hypothyroidism may interfere with growth response to grow			

(continued)

Table 2: continued				
Drug or Drug Class	Effect			
Miscellaneous				
Radiographic Agents	Thyroid hormones may reduce the uptake of ¹²³ I, ¹³¹ I, and ^{99m} Tc.			
Sympathomimetics	Concurrent use 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.			
Chloral Hydrate Diazepam Ethionamide Lovastatin Metoclopramide 6-Mercaptopurine Nitroprusside Para-aminosalicylate sodium Perphenazine Resorcinol (excessive topical use)	These agents have been associated with thyroid hormone and/or TSH level alterations by various mechanisms.			

Oral anticoagulants- Levothyroxine 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 SYNTHROID dose is increased. Prothrombin time should be closely monitored to permit appropriate and timely doseage adjustments (see Table 2).

Digitalis glycosides: The therapeutic effects of digitalis glycosides may be reduced by levothyroxine. Serum digitalis glycoside levels may be decreased when a hypothyroid patient becomes euthyroid, necessitating an increase in the dose of digitalis glycosides (see Table 2).

Drug-Food Interactions – Consumption of certain foods may affect levothyroxine absorption thereby necessitating adjustments in dosing. Soybean flour (infant formula), cotton seed meal, walnuts, and dietary fiber may bind and decrease the absorption of levothyroxine sodium from the GI tract.

from the GI tract.

Drug-Laboratory Test Interactions – Changes in TBG concentration must be considered when interpreting T₄ and T₅ values, which necessitates measurement and evaluation of unbound (free) hormone and/or determination of the free T₄ index (FF₄). Pregnancy, infectious hepatitis, estrogens, estrogen-containing oral contraceptives, and acute intermittent porphyria increase TBG concentrations. Decreases in TBG concentrations are observed in nephrosis, severe hypoproteinemia, severe liver disease, acromegaly, and after androgen or corticosteroid therapy (see also Table 2). Familial hyper- or hypo-thyroxine binding globulinemias have been described, with the incidence of TBG deficiency approximating I in 900.

Carcinogenesis, Mutagenesis, and Impairment of Fertility – Animal studies have not been performed to evaluate the carcinogenic potential, mutagenic potential or effects on fertility of levothyroxine. The synthetic T₄ in SYNTHROID is identical to that produced naturally by the human thyroid gland. Although there has been a reported association between prolonged thyroid hormone therapy and breast cancer, this has not been confirmed. Patients receiving SYNTHROID for appropriate clinical indications should be titrated to the lowest effective replacement dose.

to the lowest effective replacement dose.

Pregnancy – Category A – Studies in women taking levothyroxine sodium during pregnancy have not shown an increased risk of congenital abnormalities. Therefore, the possibility of fetal harm appears remote. SYNTHROID should not be discontinued during pregnancy and hypothyroidism diagnosed during pregnancy should be promptly treated.

Hypothyroidism during pregnancy is associated with a higher rate of complications, including spontaneous abortion, pre-eclampsis, stillbirth and premature delivery. Maternal hypothyroidism may have an adverse effect on fetal and childhood growth and development. During pregnancy, serum T4 levels may decrease and serum T5H levels increase to values outside the normal range. Since elevations in serum T5H may occur as early as 4 weeks gestainton, pregnant women taking SYNTHROID should have their T5H measured during each trimester. An elevated serum T5H level should be corrected by an increase in the dose of SYNTHROID. Snow postspartum T5H levels are similar to preconception values, the SYNTHROID doses bould return to the pre-pregnancy dose immediately after delivery. A serum T5H level should be obtained 6-8 weeks postpartum.

Thyroid hormones cross the placental barrier to some extent as evidenced by levels in cord blood of athyreotic fetuses being approximately one-third maternal levels. Transfer of thyroid hormone from the mother to the fetus, however, may not be adequate to prevent in utero hypothyroidism.

Nursing Mothers - Although thyroid hormones are excreted only minimally in human milk. caution should be exercised when

Nursing Mothers - Although thyroid hormones are excreted only minimally in human milk, caution should be exercised when SYNTHROID is administered to a nursing woman. However, adequate replacement doses of levothyroxine are generally needed to

Pediatric Use

Pediatric Use General
The goal of treatment in pediatric patients with hypothyroidism is to achieve and maintain normal intellectual and physical growth and development.

The initial dose of levothyroxine varies with age and body weight (see DOSAGE AND ADMINISTRATION, Table 3). Dosing adjustments are based on an assessment 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, Laboratory Tests).

In children in whom a diagnosis of permanent hypothyroidism has not been established, it is recommended that levothyroxine administration be discontinued for a 30-day trial period, but only after the child is at least 3 years of age. Serum T4 and TSH levels should then be obtained. If the T4, is low and the TSH high, the diagnosis of permanent hypothyroidism is established, and levothyroxine therapy should be reinstituted. If the T4, and TSH levels are normal, euthyroidism may be susted and, therefore, the hypothyroidism can be considered to have been transient. In this instance, however, the physician should carefully monitor the child and repeat the thyroid function tests if any signs or symptoms of hypothyroidism develop. In this setting, the clinician should have a high index of suspicion of relapse. If the results of the levothyroxine withdrawal test are inconclusive, careful follow-up and subsequent testing will be necessary. Since some more severely affected children may become clinically hypothyroid when treatment is discontinued for 30 days, an alternate approach is to reduce the replacement dose of levothyroxine by half during the 30-day trial period. If, after 30 days, the serum TSH is elevated above 20 mU/L, the diagnosis of permanent hypothyroidism is confirmed, and full replacement therapy should be resumed. However, if the serum TSH has not risen to greater than 20 mU/L, levothyroxine treatment should be discontinued for another 30-day trial period followed by repeat serum T4 and TSH testing.

The presence of concomitant medical conditions should be considered in certain clinical circumstances and, if present, appropriately treated (see PRECAUTIONS).

treated (see PRECAUTIONS).

Treated (see PRECAUTIONS).

Congenital Hypothyroidism (see PRECAUTIONS, Laboratory Tests and DOSAGE AND ADMINISTRATION)

Rapid restoration of normal serum T₄ concentrations is essential for preventing the adverse effects of congenital hypothyroidism on intellectual development as well as on overall physical growth and maturation. Therefore, SYNTHROID therapy should be initiated immediately upon diagnosis and is generally continued for life.

During the first 2 weeks of SYNTHROID therapy, infants should be closely monitored for cardiac overload, arrhythmias, and agrigation from a wid suckline.

aspiration from avid suckling.

The patient should be monitored closely to avoid undertreatment or overtreatment. Undertreatment may have deleterious effects

on intellectual development and linear growth. Overtreatment has been associated with craniosynostosis in infants, and may adversely affect the tempo of brain maturation and accelerate the bone age with resultant premature closure of the epiphyses and compromised adult stature

compromise a adult stature.

Acquired Hypothyroidism in Pediatric Patients
The patient should be monitored closely to avoid undertreatment and overtreatment. Undertreatment may result in poor school performance due to impaired concentration and slowed mentation and in reduced adult height. Overtreatment may accelerate the bone age and result in premature epiphyseal closure and compromised adult stature.

Treated children may manifest a period of catch-up growth, which may be adequate in some cases to normalize adult height. In children with severe or prolonged hypothyroidism, catch-up growth may not be adequate to normalize adult height.

Geriatric Use

Because of the increased prevalence of cardiovascular disease among the elderly, levothyroxine therapy should not be initiated at the full replacement dose (see WARNINGS, PRECAUTIONS, and DOSAGE AND ADMINISTRATION). ADVERSE REACTIONS

ADVERSE REACTIONS

Adverse reactions associated with levothyroxine therapy are primarily those of hyperthyroidism due to therapeutic overdosage (see PRECAUTIONS and OVERDOSAGE). They include the following:

General: fatigue, increased appetite, weight loss, heat intolerance, fever, excessive sweating;

Central nerrows system: headache, hyperactivity, nervousness, anxiety, irritability, emotional lability, insomnia;

Musculoskeletal: tremors, muscle weakness;

Cardiovascular palpitations, tachycardia, arrhythmias, increased pulse and blood pressure, heart failure, angina, myocardial infarction, cardiac arrest;

Respiratory, dyspnea;

Gastrointestinal: diarrhea, vomiting, abdominal cramps and elevations in liver function tests;

Dermatologic: hair loss, flushing;

Endocrine: decreased bone mineral density;

Reproductive: menstrual irregularities, impaired fertility.

Psyndolumor, crebri and slipmed capital femoral eniphysis have been reported in children receiving levothyroxine therapy.

Pseudotumor cerebri and slipped capital femoral epiphysis have been reported in children receiving levothyroxine therapy. Overtreatment may result in craniosynostosis in infants and premature closure of the epiphyses in children with resultant

Pseudotumor cerebri and stipped capital remoral epipuysis have been reported in this composition. Overtreatment may result in craniosynosiosis in infants and premature closure of the epiphyses in children with resultant compromised adult height.

Seizures have been reported rarely with the institution of levothyroxine therapy.

Inadequate levothyroxine dosage will produce or fail to ameliorate the signs and symptoms of hypothyroidism. Hypersensitivity reactions to inactive ingredients have occurred in patients treated with thyroid hormone products. These include urticaria, pruritus, skin rash, flushing, angioedema, various GI symptoms (abdominal pain, nausea, vomitting and diarrhea), fever, arthralgia, serum sickness and wheezing. Hypersensitivity to levothyroxine itself is not known to occur.

OVERDOSAGE

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Treatment of Overdosage
Levothyroxine sodium should be reduced in dose or temporarily discontinued if signs or symptoms of overdosage occur.

Acute Massive Overdosage – This may be a life-threatening emergency, therefore, symptomatic and supportive therapy should be instituted immediately. If not contraindicated (e.g., by seizures, coma, or loss of the gag reflex), the stomach should be emptied by emesis or gastric lavage to decrease gastrointestinal absorption. Activated charcoal or cholestyramine may also be used to decrease absorption. Central and peripheral increased sympathetic activity may be treated by administering B-receptor antagonists, e.g., propranolol, provided there are no medical contraindications to their use. Provide respiratory support as needed; control congestive heart failure and arrhythmia; control fever, hypoglycemia, and fluid loss as necessary. Large doses of indimensions of the properties of the properties

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION
General Principles
The goal of replacement therapy is to achieve and maintain a clinical and biochemical euthyroid state. The goal of suppressive therapy is to inhibit growth and/or function of abnormal thyroid tissue. The dose of SYNTHROID that is adequate to achieve these goals depends on a variety of factors including the patient's age, body weight, cardiovascular status, concomitant medications, and the specific nature of the condition being treated (see WARNINGS and PRECAUTIONS). Hence, the following recommendations serve only as dosing guidelines. Dosing must be individualized and adjustments made based on periodic assessment of the patient's clinical response and laboratory parameters (see PRECAUTIONS, Laboratory Tests).

SYNTHROID is administered as a single daily 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).

Due to the long half-life of levothyroxine, the peak therapeutic effect at a given dose of levothyroxine sodium may not be attained for 4-6 weeks.

Due to the only national of revenyments, as personners for 4-6 weeks.

Caution should be exercised when administering SYNTHROID to patients with underlying cardiovascular disease, to the elderly, and to those with concomitant adrenal insufficiency (see PRECAUTIONS).

and to those with concomitant adrenal insufficiency (see PRECAUTIONS).

Specific Patient Populations

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

Therapy may begin at full replacement doses in otherwise healthy individuals less than 50 years old and in those older than 50 years who have been recently treated for hyperthyroidism or who have been hypothyroid for only a short time (such as a few months). The average full replacement dose of levothyroxine sodium is approximately 1.7 mcg/kg/day levol-102 mcg/day are seldom required. An inadequate response to daily doses ≥ 300 mcg/day is rare and may indicate poor compliance, malaboroption, and/or drug interactions.

For most patients older than 50 years or for patients under 50 years of age with underlying cardiac disease, an initial starting dose of 25-50 mcg/day of levothyroxine sodium is recommended, with gradual increments in dose at 6-8 week intervals, as needed. The recommended starting dose of levothyroxine sodium dose is generally adjusted in 12.5-25 mcg increments until the patient with primary hypothyroidism is clinically euthyroid and the serum TSH has normalized.

In patients with severe hypothyroidism, the recommended initial levothyroxine sodium dose is 125-25 mcg/day with increases of 25 mcg/day every 2-4 weeks, accompanied by clinical and laboratory assessment, until the TSH level is normalized.

In patients with severe hypothyroidism, the recommended initial levothyroxine sodium dose should be titrated until the patient is clinically euthyroid and the serum TSH has normalized.

In patients with secondary (pituitary) or tertiary (hypothalamic) hypothyroidism, the levothyroxine sodium dose should be titrated until the patient is clinically euthyroid and the serum TSH has restored to the upper half of the normal range.

Pediatric Dosage – Congenital or Acquired Hypothyroidism (see PRECAUTIONS). Laboratory Tests)

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

Pediatric Dosage — Onigeniari of required reports of the Control Principles of the Control Princ

The recommended starting dose of levothyroxine sodium in newborn infants is 10-15 mcg/kg/day. A lower starting dose (e.g., 25 mcg/day) should be considered in infants at risk for cardiac failure, and the dose should be increased in 4-6 weeks as needed based on clinical and laboratory response to treatment. In infants with very low (< 5 mcg/day) or undetectable serum T_4 concentrations, the recommended initial starting dose is 50 mcg/day of levothyroxine sodium.

Infants and Children
Levothyroxine therapy is usually initiated at full replacement doses, with the recommended dose per body weight decreasing with age (see Table 3). However, in children with fronci or severe hypothyroxidism, an initial dose of 25 mcg/day of levothyroxine sodium is recommended with increments of 25 mcg every 2-4 weeks until the desired effect is achieved.

Hyperactivity in an older child can be minimized if the starting dose is one-fourth of the recommended full replacement dose, and the dose is then increased on a weekly basis by an amount equal to one-fourth the full-recommended replacement dose until the full recommended replacement dose is reached.

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		

The dose should be adjusted based on clinical response and laboratory parameters (see PRECAUTIONS, Laboratory Tests and Pediatric Use).

Pregnancy- Pregnancy may increase levothyroxine requirements (see PREGNANCY).

Subclimical Hypothyroidism- If this condition is treated, a lower levothyroxine sodium dose (e.g., 1 mcg/kg/day) than that used for full replacement may be adequate to normalize the serum TSH level. Patients who are not treated should be monitored yearly for changes in clinical status and thyroid laboratory parameters.

TSH Suppression in Well-differentiated Thyroid Cancer and Thyroid Nodules- The target level for TSH suppression in these conditions has not been established with controlled studies. In addition, the efficacy of TSH suppression for benign nodular disease is controversial. Therefore, the dose of SYNTHROID used for TSH suppression should be individualized based on the specific disease and the patient benign teated.

In the treatment of well-differentiated (papillary and follicular) thyroid cancer, levothyroxine is used as an adjunct to surgery and radiotodine therapy. Generally, TSH is suppressed to <0.1 mU/L, and this usually requires a levothyroxine condition of the control of the control

being treated. In the treatment of well-differentiated (papillary and follicular) thyroid cancer, levothyroxine is used as an adjunct to surgery and radioiodine therapy. Generally, TSH is suppressed to <0.1 mU/L, and this usually requires a levothyroxine sodium dose of greater than 2 mcg/kg/day. However, in patients with high-risk tumors, the target level for TSH suppression may be <0.01 mU/L. In the treatment of benign nodules and nontoxic multimodular gotier, TSH is generally suppressed to a higher target (e.g., 0.1 to either Co or 1.0 mU/L) than that used for the treatment of thyroid cancer. Levothyroxine sodium is contraindicated if the serum TSH is already suppressed due to the risk of precipitating over thyrotoxicosis (see CONTRAINDICATIONS, WARNINGS and PRECAUTIONS).

Myxedema Coma – Myxedema coma is a life-threatening emergency characterized by poor circulation and hypometabolism, and may result in unpredictable absorption of levothyroxine sodium from the gastrointestinal tract. Therefore, oral thyroid hormone drug products are not recommended to treat this condition. Thyroid hormone products formulated for intravenous administration should be administration. be administered.

HOW SUPPLIED

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

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	-
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	-
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	-
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	-

Storage Conditions
Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature]. SYNTHROID tablets should be protected from light and moisture.
(Nos. 4341, 4552, 5182, 6594, 6624, 9296, 7068, 3727, 7069, 7070, 7148, 7149)

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605-637608 MASTER

