

Levothyroxine - for appropriate starting dose and precise dose titration in one simple solution

Hypothyroidism

Hypothyroidism is the common clinical condition of thyroid hormone deficiency and if left untreated, can lead to serious adverse health effects on multiple organ systems, with the cardiovascular system as the most robustly studied target.¹

Epidemiology of hypothyroidism

- globally around 200 million people suffer from thyroid disorder where 80% have hypothyroidism.¹
- Women are 10 times more at risk of thyroid hormone problem than men.¹
- 1 in 8 women will develop a thyroid disorder during her lifetime.¹ 3-5% of pregnant women experience hypothyroidism.²

LT4 is recommended as the preparation of choice for the treatment of hypothyroidism due to its efficacy in resolving the symptoms of hypothyroidism, long-term experience of its benefits, favorable side effect profile, ease of administration, good intestinal absorption, long serum half-life, and low cost.³

Mechanism action of levothyroxine⁴

Thyroid hormones exert their physiologic actions through control of DNA transcription and protein synthesis

T3 and T4 enter the cell nucleus and bind to thyroid receptor proteins on DNA

The physiological effects are mainly produced by T3, mostly derived from T4 in peripheral tissues

This hormone-receptor complex activates gene transcription & synthesis of mRNA, cytoplasmic proteins

Importance of appropriate dosing in LT4 therapy⁵

LT4 requires precise dosing and careful monitoring. The goal is to achieve steady TSH levels within the appropriate therapeutic range. Dosing must be individualized based on the patient's age, weight, cardiovascular status, concomitant medical conditions (including pregnancy), concomitant medications, co-administered food, and the specific etiology of the condition being treated.

Consequences of suboptimal dosing of LT4 & out of range TSH⁵

- Recurrent Pregnancy Loss
- Preeclampsia
- Preterm Birth
- Irregular Menstrual Periods
- Infertility
- Dry Skin

- Poor Fetal Growth
- Very Low IQ
- Depression
- Low Hemoglobin
- Elevated Liver Enzymes
- Obesity

- Low Cardiac Output
- Dyslipidemia
- Cardiovascular Disease
- Hypertension
- Reduced Lung Function
- Constipation



Treatment of hypothyroidism⁴

- Levothyroxine sodium is the treatment of choice for the routine management of hypothyroidism

Patient Status	T4 Requirement (µg/kg body weight)
Neonate	10-15
Children 8-12 months	8-10
Children 2-10 years	4-5
Adolescents	2-3
Adults	1.5
Elderly persons	1.0-1.2
Pregnant women	1.8-2.0

- Clinical and biochemical evaluations at 6-to-8-week intervals until the serum TSH concentration is normalized

One Simple Solution

Without breaking the tablet



Levothyroxine Sodium USP 12.5, 25, 50, 75 & 100 mcg

Thyroid therapy for normal life

5 precise dosing options first time in Bangladesh



Precise Dosing



Precise Quality



Precise Treatment



Non-refrigerated formula
 Stable at hot & humid weather in Bangladesh



Two layers of protection from heat, light & moisture



Made with European API
 Ensures International Quality



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Ref: 1. Nat Rev Dis Primers. 2022 May 19;8(1):30; 2. Int J Womens Health. 2023 Oct 3;15:1481-1490. 3. Guidelines for the treatment of hypothyroidism: prepared by the american thyroid association task force on thyroid hormone replacement. Thyroid. 2014 Dec;24(12):1670-751. 4. https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/021402s036lbl.pdf 5. Consequences of undertreatment of hypothyroidism. Endocrine. 2024 May;84(2):301-308.