



NEONATAL MEDICATION GUIDELINE



LEVOTHYROXINE (THYROXINE) - Intravenous

This document should be read in conjunction with this [DISCLAIMER](#)

Highly Restricted: Requires (Neonatologist/Cardiologist/Endocrinologist/Microbiologist) approval before commencing

Presentation	Ampoule: 200microg/mL	
Classification	Thyroid Hormone	
Indication	Indicated for the treatment of hypothyroidism where oral therapy is not tolerated	
Dose	Initial Dose: IV 5 to 8 microg/kg DAILY Dose may be adjusted according to response	
Monitoring	Blood levels of TSH (Thyroid Stimulating Hormone) Free T4 level Clinical signs of hyperthyroidism Bone mineral density	
Compatible Fluids	Sodium Chloride 0.9%	
Preparation	Withdraw 1 mL (200microg) of levothyroxine and reconstitute with 9mL of Sodium Chloride 0.9% Final Volume is 10mL Final Concentration is 200microg/10mL = <u>20microg/mL</u> Measure appropriate dose.	
Administration	Slow IV push- over 3 to 5 minutes	
Adverse Reactions	Common	Increased blood pressure, increased heart rate, decreased bone mineral density
	Serious	Seizures, rash
Storage	Use reconstituted solution immediately and discard excess.	

Interactions	Ferrous sulphate, calcium carbonate, PPIs, H2 blockers– can affect T4 absorption. Contact Pharmacy for IV Compatibility
Notes	SAS Category A Form required to be completed
References	Takemoto CK, Hodding JH, Kraus DM. Pediatric & neonatal dosage handbook with international trade names index : a universal resource for clinicians treating pediatric and neonatal patients. 23rd ed. Hudson (Ohio): Lexicomp; 2016. 1,087 p. Truven Health Analytics. Levothyroxine. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2018 [cited 2018 Jun 17]. Available from: https://neofax.micromedexsolutions.com/

Document owner:	Head of Department - Neonatology		
Author / Reviewer:	KEMH & PCH Pharmacy/Neonatology Directorate		
Date first issued:	June 2018	Version:	1.0
Last reviewed:	October 2018	Next review date:	June 2021
Endorsed by:	Neonatal Directorate Management Group	Date:	June 2018
Standards Applicable:	NSQHS Standards: 1  Governance, 4  Medication Safety		
Printed or personally saved electronic copies of this document are considered uncontrolled. Access the current version from the WNHS website.			