



Primary Congenital Hypothyroidism in Children Below 3 Years Old -Etiology and Treatment With Overtreatment and Undertreatment Risks, a 5-Year Single Centre Experience

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Worldwide neonatal screening for congenital hypothyroidism (CH) is a gold standard of active surveillance in newborns. Prompt diagnosis, subsequent timely treatment implementation, and proper dosage of levothyroxine (L-T4) are crucial for normal growth and development, especially of the central nervous system. However, overtreatment may have a potential negative impact on further neurodevelopment. We retrospectively analysed data of 99 newborns with CH diagnosis, referred to the Endocrinology Outpatient Clinic of the Institute of Mother and Child in Warsaw, Poland from the CH screening program from 2017 to 2021. We evaluated the diagnostic process and treatment up to the age of 3 years. We compared groups of children from the first and the second screening groups (FSG, SSG) in the neonatal screening with an evaluation of ultrasound examination (thyroid dysgenesis vs. gland in situ, GIS). The overtreatment and undertreatment risks were assessed and an analysis of the new TSH thresholds was performed. Treatment was implemented at a median of 9 days of life (3 - 27); 8 days (3 -17) in FSG and 19 (6 - 27) in SSG. The dose of L-T4 differed between FSG and SSG at all three analysed time points (start of the therapy, 12 months, and 3 years) with significantly higher doses in FSG. The same was observed for the patients with thyroid dysgenesis vs. GIS. Screening TSH level was > 28milUt in 91.7% of patients with thyroid dysgenesis in comparison to 74.0% of patients with GIS (p= 0.038). The optimally treated group (fT4 in the upper half of the reference range, according to the guidelines) was up to 58.0% of the children during the follow-up. The risk for overtreatment was present in 1/5 of the study group after 12 months and 1/4 after 3 years of L-T4 therapy. Analysis of new TSH thresholds showed an increased prevalence of mild hypothyroidism, GIS, and either euthyroid state or overtreatment while treating with lower L-T4 doses in comparison to the

Research In Congenital Hypothyroidism

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Table of Contents Research In Congenital Hypothyroidism

- 1. Understanding the eBook Research In Congenital Hypothyroidism
 - The Rise of Digital Reading Research In Congenital Hypothyroidism
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Research In Congenital Hypothyroidism
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Research In Congenital Hypothyroidism
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Research In Congenital Hypothyroidism
 - Personalized Recommendations
 - Research In Congenital Hypothyroidism User Reviews and Ratings
 - Research In Congenital Hypothyroidism and Bestseller Lists
- 5. Accessing Research In Congenital Hypothyroidism Free and Paid eBooks
 - Research In Congenital Hypothyroidism Public Domain eBooks
 - Research In Congenital Hypothyroidism eBook Subscription Services
 - Research In Congenital Hypothyroidism Budget-Friendly Options

- 6. Navigating Research In Congenital Hypothyroidism eBook Formats
 - o ePub, PDF, MOBI, and More
 - Research In Congenital Hypothyroidism Compatibility with Devices
 - Research In Congenital Hypothyroidism Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Research In Congenital Hypothyroidism
 - Highlighting and Note-Taking Research In Congenital Hypothyroidism
 - Interactive Elements Research In Congenital Hypothyroidism
- 8. Staying Engaged with Research In Congenital Hypothyroidism
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Research In Congenital Hypothyroidism
- 9. Balancing eBooks and Physical Books Research In Congenital Hypothyroidism
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Research In Congenital Hypothyroidism
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Research In Congenital Hypothyroidism
 - Setting Reading Goals Research In Congenital Hypothyroidism
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Research In Congenital Hypothyroidism
 - Fact-Checking eBook Content of Research In Congenital Hypothyroidism
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

• Interactive and Gamified eBooks

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