



# 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, GtS). 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. GtS. Screening TSH level was  $\geq 28\text{mIU/L}$  in 91.7% of patients with thyroid dysgenesis in comparison to 74.0% of patients with GtS ( $p = 0.038$ ). 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, GtS, and either euthyroid state or overtreatment while treating with lower L-T4 doses in comparison to the

# Research In Congenital Hypothyroidism

**F. Delange, D.A. Fisher, D. Glinoe**



## **Research In Congenital Hypothyroidism:**

**Research in Congenital Hypothyroidism** F. Delange, D.A. Fisher, D. Glinoer, 2012-12-06 Systematic screening for congenital hypothyroidism in the newborn was introduced some 15 years ago The main objective was the prevention of mental retardation due to thyroid hormone deficiency during the early months of life During the past decade screening programs have become routine throughout most of the industrialized world and many questions relating to implementation organization and quality control of such programs have been largely resolved Preliminary IQ and neurological data have indicated that screening and early treatment do in fact prevent mental retardation However a number of scientific questions related to congenital hypothyroidism remain unanswered and extensive research activities are ongoing in the field The objective of the organizers of the Brussels workshop was to focus almost exclusively on these current research aspects of the screening programs This workshop is the third international conference specifically devoted to neonatal thyroid screening The first was held in La Malbaie in Quebec in the fall of 1979 That meeting was well organized and highly productive Its proceedings constitute a bible in the field After the Quebec meeting we witnessed major and rapid advances in our understanding of neonatal thyroid physiology as well as screening methodology organization data management the significance of an approach to false negative and false positive results patient follow up and assessment of follow up and treatment and the psychoneurological evaluation of affected infants Some of these aspects were further developed during a second highly productive international conference organized in Tokyo in 1982

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**Cognitive and Behavioral Abnormalities of Pediatric Diseases** Ruth Nass, MD, Yitzchak Frank, MD, 2010-04-12 This book provides a detailed account of intellectual other neuropsychological and behavioral manifestations of general pediatric diseases The conditions discussed include the whole range of pediatric diseases genetic syndromes other congenital conditions metabolic endocrine gastrointestinal infectious immunologic toxic trauma and neoplastic as well as sensory disabilities including deafness and blindness Although the book is not intended to discuss cognitive and behavioral manifestations of conditions

usually considered to be primary neurological disease some of those including cerebral palsy muscular dystrophy myotonic dystrophy and epilepsy are included Where possible a translational approach is used linking the behavioral and cognitive manifestations of these conditions to the underlying structural chemical or genetic abnormalities and their effect on the brain and in turn on behavior and cognition At the same time included are significant psychosocial factors Together those factors have a major effect on patients performance including school performance and on their families This book is unique in its extensive coverage of the major pediatric conditions and of the detailed neurological neuropsychological and behavioral aspects of each condition **Advances in Hypothyroidism Research and Treatment: 2011 Edition** ,2012-01-09

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Bona,Filippo De Luca,Alice Monzani,2015-07-10 This book covers the entire spectrum of thyroid diseases in childhood focusing on the recent advances that have been achieved from progress in basic science research through to novel or improved approaches to diagnosis and treatment Introductory chapters discuss thyroid embryogenesis and the role of thyroid hormones in fetal development The two contrasting forms of thyroid dysfunction hypo and hyperthyroidism are then considered in depth with particular attention to the molecular causes of congenital hypothyroidism Among the other topics addressed are autoimmune thyroiditis thyroid nodules and pediatric neoplasms The book concludes with an overview of promising therapeutic approaches such as stem cell therapy Each topic is treated by an eminent expert in the field ensuring consistently high quality Thyroid Diseases in Childhood will be an important source of information for endocrinologists pediatricians oncologists and gynecologists as well as other professionals interested in this topic **Hormone Research**

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**the Thyroid** Sidney C. Werner, Sidney H. Ingbar, 1991      Current Problems in Thyroid Research Asia and Oceania Thyroid Association. Meeting, 1983      **New Horizons in Neonatal Screening** J. P. Farriaux, 1994 This book covers a conference which was attended by representatives from 45 countries all of which are involved in medical prevention following systematic neonatal screening Several topics were covered such as what have been the scientific consequences of screening of phenylketonuria and hypothyroidism what other illnesses could also benefit from these preventative measures how can the new technology be used with particular regard to molecular biology enabling an individual's genome to be studied at any given moment should research into an illness be carried out such as AIDS simply in order to collect epidemiological information These questions are discussed openly amongst scientists and national programme coordinators expounding their results ideas and their differences      **The Damaged Brain of Iodine Deficiency** John Bruton Stanbury, 1994      **Thyroid Research in Japan and China** Shigenobu Nagataki, Motomori Izumi, Jia-Lun Chen, 1989      The Thyroid and Pregnancy Christian Beckers, 1991      **Annual Report, Director of Medical Research** Howard Hughes Medical Institute, 1981  
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