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South FOR RESIDERE	Original Research Paper	Paediatrics
International	A STUDY ON THE INCIDENCE OF CONGENITAL HYPOTHYROIDISM IN NEONATES IN A TERTIARY HEALTH CARE HOSPITAL IN CHENNAI	
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KEYWORDS :		

INTRODUCTION :

This retrospective study was done to estimate the prevalence of Congenital Hypothyroidism (CH) among new born babies born in ACS Medical College and Hospital. Datas were collected from the case sheets in Medical record Department. The prevalence of CH in new born was 1 in 5000 live births with no gender difference.

The incidence of CH was previously reported as 1:3500 [1]. Female new borns are twice commonly affected than male newborns. Thyroid Screening test should be done for new born babies before presenting with overt clinical symptoms.

CH is one of the most common preventable cause of intellectual disability [2]. The prevalence CH generally has no relationship with maternal Hypothyroid state or treatment with Thyroxine [6]. Screening programs for congenital hypothyroidsim have been devloped in many countries [3].

Maternal thyroxine may mask clinical features of hypothyroidism in a neonate [1]. There is physiological surge in TSH in the first 48 hours of life because of cooling, cord clamping, stress of birth.[1]. Hence screening done using either cord TSH or heel prickTSH after 72 hours of life to avoid a falls positive screen. [1]. Blood samples collected on filter paper from new borns and tested for both TSH & T4 which are more sensitive.[4]. The prevalence of hypothyroidism among new borns for the observation period 2016 to 2019 was 1:1 in both male and female with no gender difference.

Symtoms include [5]

- Decreased activity
- Large anterior fontanelle
- Poor feeding and weight gain
- Small stature or poor growth
- Jaundice
- Hoarse cry
- Hypotonia

Often infants are described as "Good babies" because they rarely cry and sleep mostly.[6]. Signs include

- Course Facial Features
- Macroglossia
- Umbilical Hernia
- Mottled, cool and dry skin
- Developmental delay
- Pallor

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Medscape Oct 14-2017 Maala S.Daniel Cheaf editor Sasigarn A Bowden, MD

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