

Evaluation of TSH concentration and congenital hypothyroidism in infants of Pakistan

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Abstract

Sub-clinical hypothyroidism (SCH) is the condition when the serum thyrotropin (TSH) level and normal serum thyroxine (T4) level has elevated. The most common congenital endocrine disorder is the congenital hypothyroidism (CH) which is considered major cause of mental retardation and body growth disorder. This retrospective study was performed on all 18 neonates, who were born during years 2014 and 2015. The infants with congenital hypothyroidism (CH) can be accurately diagnosed with laboratory tests performed at Nuclear Medicine, Oncology and Radiotherapy Institute (NORI) during the last five years. The data along with detailed history were collected with the help of clinicians in Nuclear Medicine, Oncology and Radiotherapy Institute (NORI) and entered in the Performa. TSH levels ranging from 0.27-4.2 μ IU/ml was considered as normal for the diagnosis in thyroid function tests (TFTs). Thyroid scan, physical examination and ultrasound examination are the techniques that were used for evaluation of thy-

roid function tests (TFTs). These have evaluated through various statistical techniques in order to investigate thyroid dysfunctioning. The diagnostic evaluation relating to functional and morphological characterization has examined through serum TSH concentration and imaging. The results have determined non-significant difference between congenital hypothyroids and control infants. The study has concluded that the prevalence of congenital hypothyroidism is dependent on the higher concentration of thyroid stimulating hormone (TSH).

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