

# Perbandingan nilai rujukan thyroid stimulating hormone bayi baru lahir di Indonesia berdasarkan rentang usia dan jenis kelamin = Comparison of neonatal thyroid stimulating hormone reference value in Indonesia according to age and gender differences / Muhammad Taufiq Ramadhan

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Abstrak

**ABSTRAK**

Nilai rujukan thyroid stimulating hormone TSH penting digunakan dalam skrining penyakit hipotiroid kongenital HK yang saat ini insidensinya di Indonesia lebih tinggi dibandingkan insidensi di dunia. Nilai rujukan merupakan nilai normal yang ditentukan dari individu sehat dan dapat dipengaruhi kondisi fisiologis, seperti usia dan jenis kelamin, dan kondisi patologis. Penelitian cross-sectional ini bertujuan untuk mengetahui perbandingan nilai rujukan TSH neonatus di Indonesia berdasarkan kelompok usia dan jenis kelamin. Sebanyak 3.320 sampel diperoleh dari data skrining hipotiroid kongenital SHK Nasional bulan Mei-Juli 2017 dengan metode fluorometri dengan reagen Labssystem di Rumah Sakit Umum Pusat Nasional Cipto Mangunkusumo RSUPN-CM . Pengelompokan total sampel dilakukan berdasarkan dua variabel bebas, yaitu lima kelompok usia dan kelompok jenis kelamin, dan dianalisis perbedaan nilai TSH antar kelompok tiap variabel bebas menggunakan SPSS versi 20. Interval rujukan TSH berdasarkan kedua variabel bebas akan dianalisis menggunakan MedCalc versi 17.9.7. Hasil menunjukkan bahwa terdapat perbedaan nilai TSH yang bermakna.

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**ABSTRACT**

TSH reference value was important in detection of congenital hypothyroidism, which incidence was higher in Indonesia than in the world. Reference value was a normal categorized value obtained from a healthy individual and influenced by physiological conditions, like age and sex differences, and pathological conditions. This cross sectional study aimed to analyze the comparison of neonatal TSH reference value in Indonesia according to age and sex difference. 3,320 subjects were obtained from National Congenital Hypothyroidism Screening data from May July 2017 by fluorometry method with Labssystem reagent in National Referral Hospital Cipto Mangunkusumo. Groupings were done based on two independent variables five age groups and gender groups, which were analyzed by using SPSS version 20. Neonatal TSH reference interval according to both independent variables were analyzed by using MedCalc version 17.9.7. There was significant difference in TSH value p