

Karakteristik uji fungsi paru pada bayi sehat di Indonesia = Characteristics of lung function in Indonesian healthy infant

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Abstrak

[ABSTRAK

Fungsi paru bayi pada usia awal kehidupan dapat memprediksi penyakit pernapasan dan perkembangan fungsi paru di kemudian hari. Penelitian ini bertujuan mengetahui karakteristik fungsi paru pada bayi di Indonesia dan membandingkannya dengan populasi di negara barat. Penelitian potong lintang dilaksanakan di RS Budi Kemuliaan, Jakarta. Dengan menggunakan automated single occlusion technique, peneliti mengukur fungsi paru pada 124 bayi. Data komplians (Crs) dan resistensi (Rrs) total dari sistem pernapasan kemudian dibandingkan dengan data dari studi WHISTLER di Belanda. Hasil penelitian ini menunjukkan bahwa selain faktor usia, berat badan, dan panjang badan, polusi udara juga merupakan faktor determinan penting pada fungsi paru bayi di Indonesia.

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ABSTRACT

Infant lung function in early life can predict respiratory disease and later lung development. We aimed to understand the characteristics of lung function in Indonesian healthy infant and to compare these with a Western population. We performed a cross-sectional study in Budi Kemuliaan Hospital in Jakarta. Using the automated single occlusion technique we measured lung function in 124 infants. The data of compliance (Crs) and resistance (Rrs) of the respiratory system were compared with data from the WHISTLER study in Neatherlands. Our results suggest that besides age, weight and height, air pollution is an important determinant of infant lung function in Indonesian children.

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