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Makassar , 31 Mei 2018

Promotor

A handwritten signature in black ink, appearing to read 'Mochammad Hatta', with a long horizontal line extending to the right.

Prof. dr. Mochammad Hatta, Ph.D, Sp.MK(K)



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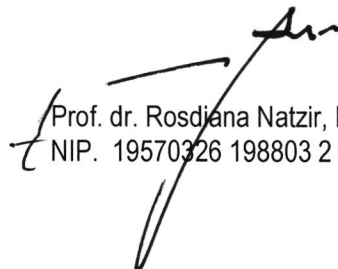
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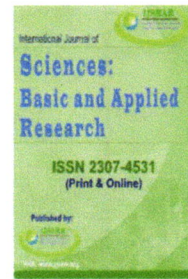
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Makassar , 31 Mei 2018

Wakil Dekan Bidang Akademik
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The Cortisol Serum Measurement as a Marker of Stress in Neonates

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Abstract

The first few days of life are crucial; the neonates are particularly vulnerable to stress and infection during this period. Stress can cause changes in metabolic and endocrine, including cortisol level. The disease causes an indirect impact on cortisol level through cytokines and enzymes. Elevation of cortisol level can disturb hemostasis and cause long terms complications. This research aimed to compare the difference in cortisol level between healthy and neonatal with high suspicion of sepsis. The study was an observational study using the cross-sectional method, conducted in Ananda mother and child hospital Makassar, from February until April 2018. Sixty neonates who fulfill the criteria were included in the study. They were divided into control group (CG) and patient group (PG). The blood samples in CG were taken a right after birth before the routine procedure was performed. Meanwhile, blood samples in PG were made at the time of diagnosis. The level of serum cortisol was measured Duplo with ELISA.

* Corresponding author.