

**NILAI DIAGNOSTIK KADAR SERUM *CYCLOOXYGENASE 2*
DALAM MEMPREDIKSI PERSALINAN PRETERM**



TESIS

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Diagnostic Value of Cyclooxygenase 2 Serum Levels in Predicting Preterm Labor

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ABSTRAK

Tujuan: Mengetahui nilai diagnostik kadar serum *cyclooxygenase 2* dalam memprediksi persalinan preterm

Metode: Pemeriksaan kadar COX-2 serum dengan metode ELISA pada Ibu hamil dengan kehamilan 28 minggu sampai 36 minggu dibandingkan dengan Ibu hamil dengan kehamilan ≥ 37 minggu pada saat inpartu kala 1 fase aktif

Hasil: Diketahui rerata kadar COX-2 pada persalinan preterm yaitu $21,88 \pm 18,22$ lebih tinggi jika dibandingkan pada persalinan aterm yaitu $4,88 \pm 2,35$ ng/ml, hasil uji statistik didapatkan nilai $p < 0,001$ maka dapat disimpulkan terdapat perbedaan yang bermakna kadar serum *cyclooxygenase 2* pada persalinan preterm dan persalinan aterm. Nilai diagnostik kadar serum *cyclooxygenase 2* dalam memprediksi persalinan preterm berada pada *cut off point* 7,039 ng/ml dengan sensitifitas 86,1% dan spesifisitas 86,1%

Kesimpulan Terdapat perbedaan yang bermakna kadar serum *cyclooxygenase 2* pada persalinan preterm dan persalinan aterm

Kata Kunci: *cyclooxygenase 2*, persalinan preterm, memprediksi persalinan preterm

ABSTRACT

Objective: To determine the value of serum cyclooxygenase 2 in predicting preterm labor

Method: Examination of serum COX-2 levels by ELISA method in pregnant women with 28 weeks to 36 weeks of pregnancy compared with pregnant women with ≥ 37 weeks of gestation at the time of first stage of active phase

Results: It is known that the average COX-2 level in preterm labor is 21.88 ± 18.22 higher than in term labor which is 4.88 ± 2.35 ng / ml, the statistical test results obtained $p = < 0.001$ serum Cyclooxygenase 2 at preterm deliveries and term deliveries. The value of serum cyclooxygenase 2 levels in predicting preterm labor is at a cut point of 7.0.0 ng / ml with a sensitivity of 86.1% and a specificity of 86.1%

Conclusion: There were significant differences in serum cyclooxygenase 2 levels in preterm labor and term delivery

Keywords: cyclooxygenase 2, preterm labor, predict preterm labor

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