

Asian Journal of Microbiology, Biotechnology & Environmental Sciences Paper**Vol 20, Issue 2, 2018; Page No.(409-412)****EVALUATION OF DIAGNOSTIC VALUE OF C REACTIVE PROTEIN IN NEONATAL SEPSIS**

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Abstract

Sepsis is one of the important causes of increased rate of morbidity and mortality among neonates in the developing countries. Early diagnosis of neonatal sepsis is difficult due to non-specific clinical Manifest stations and lack of reliable laboratory tests. Hence it is important to evaluate laboratory tests that are cost effective, gives a rapid result and which is available in all the clinics, hospitals and primary health centres. The aim of our study was to evaluate the diagnostic value of C reactive protein in neonatal sepsis and to study the correlation between C reactive protein and blood culture. Our study is a hospital based cross sectional study involving 115 neonatal cases with suspicion of sepsis. Blood samples were drawn with all aseptic precautions into blood culture bottles and were incubated aerobically, and observed for 7 days before reporting as negative. Qualitative CRP was performed by latex agglutination method. Sensitivity, specificity, positive predictive value and negative predictive value for CRP were calculated. All the data were analyzed by SPSS, version 20. In our study 45 (39.1%) neonates were proven sepsis, 45 (39.1%) had probable sepsis and 25 (27.1%) had clinical sepsis. CRP was positive among 90 cases (78.26%). By using blood culture as the gold standard test, CRP showed sensitivity of 97.78%, specificity of 34.29%, PPV of 48.89% and NPV of 96%. In conclusion this study showed that C-reactive protein can be used as a diagnostic test for neonatal sepsis as compared to blood culture results. CRP is cost effective, rapid test and is present in all the primary health care centres to tertiary hospitals.

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