



**TITLE:** Role of C-reactive protein in deciding duration of antibiotics therapy in neonatal bacterial infection in Telangana

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**ABSTRACT**

**Background:** Neonatal bacterial infection remains a significant cause of neonatal morbidity and mortality. CRP parameter can be the indicator to use the proper antibiotic with certain duration.

**Method:** 60 Neonates < 28 days having/suspicious of bacterial infection (septicaemia) were studied. Blood and Urine culture and sensitivity, routine blood examination, chest x-ray, CRP (serum), were studied. Neonates were classified as per the levels of CRP levels <6 as group 1 & > 6 as group 2.

**Results:** Clinical features: 48 (80%) born by vaginal delivery, 4 (66%) had maternal fever >100.4 F, 6 (10%) PROM, 23 (38.3%) refusal to feeds, 20 (33.3%) were lethargic, 12 (20%) had poor cry, 7 (11.6%) had jaundice, 8 (13.3%) had conjunctivitis, 7 (11.6%) had

vomiting, 4 (6.6%) had excessive cry, 3 (5%) abdominal distension, 3 (5%) hypothermia, 1 (1.6%) had fever, 2 (3.3%) diarrhoea, 1 (1.6%) umbilical Sepsis. The Gram Negative organisms seen in 20 (33.3%). In Group A-28 neonates had CRP value <6 and duration of therapy was <3 days. In group B-32 neonates had CRP value >6, 2 neonates treated for 5 days, 17 for 7 days, 13 for 11 days and 26 neonates had positive blood culture.

**Conclusion:** CRP levels plays vital role to evaluate the duration of antibiotic therapy in neonates of suspected bacterial infection.

## **BIOGRAPHY (upto 200 words)**

Dr Rajesh Khanna has completed MBBS from Osmania Medical College, MD PAEDIATRICS from Prathima Medical College, PALS from Indian Academy of Paediatrics, NRP (Neonatal Resuscitation Program), ACORN from National Neonatology Forum. He is MEMBER OF AMERICAN ACADEMY OF PAEDIATRICS, LIFE MEMBER OF INDIAN ACADEMY OF

PAEDIATRICS, MEMBER OF NATIONAL NEONATOLOGY FORUM. He is Associate Professor of Pediatrics. He has 14 YEARS EXPERIENCE AS PAEDIATRICIAN. He ATTENDED MORE THAN 10000 DELIVERIES AND MANAGING LEVEL 3 NICU FROM PAST 10 YEARS. He is CERTIFIED NRP INSTRUCTOR FROM INDIAN ACADEMY OF PEDIATRICS & NATIONAL NEONATOLOGY FORUM. He is certified Lactation Specialist.

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