



International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.12 No.04, pp 210-213, **2019**

C-Reactive Protein as Early Detection of Infections in Closed Fracture Post or if in Haji Adam Malik General Hospital

Randy Susanto¹*, Heru Ramadhany², Benny³

¹Resident of Orthopaedic & Traumatology, Faculty of Medicine University of Sumatera Utara/ Haji Adam Malik General Hospital-Medan, Indonesia
²Consultant of Orthopaedic and Traumatology, Spine Division, Faculty of Medicine University of Sumatera Utara/ Haji Adam Malik General Hospital-Medan, Indonesia
³Staff of Orthopaedic and Traumatology, Spine Division, Faculty of Medicine University of Sumatera Utara/ Haji Adam Malik General Hospital-Medan, Indonesia

Abstract : Objective: The purpose of this study was to to find out the difference in CRP levels between patients with infection and patients without infection post-operative closed fracturebefore the clinical signs of infection arise. Material and Methods: Eighteen patients were diagnosed with closed fracture had underwent an ORIF, nine patients had shown a signs of infection and 9 other patients had no signs of infection. Both of the group subject had a C-Reactive protein examination conducted on the 2nd and 4th day post-operative . The study was donein the period March 2018 to July 2018. The study was conducted with a cross-sectional approach, to analyze differences in C-Reactive Protein values. Results: Subjects who performed closed fracture surgery was 18 subjects, 4 (22.2%) female subjects, 14 (77.8%) male subjects. With the location of the fracture of the humerus as much as 1 (5.6%) subjects, radius 2 (11.1%) subjects, femur 3 (16.7%) subjects, tibia 10 (55.6%) subjects, fibula 2 (11.1%) subjects. From the results of the data collected, CRP 2 days after surgery 1.93 \pm 0.83, CRP 4 days after surgery 1.74 ± 1.1 . Conclusion: From the results of the statistical analysis of the comparison of CRP levels inpatients with infection and patients without infectionpost-operative closed fracture there were significant differences, this was indicated by the p value of 0.001 (p <0.05).CRP levels after debridement on day 2 and 4 remain or increased in patients with infection.

Keywords: C-Reactive Protein, Closed Fracture, Infection.

Randy Susanto et al / International Journal of ChemTech Research, 2019,12(4): 210-213.

DOI= http://dx.doi.org/10.20902/IJCTR.2019.120425