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The role of recombinant human granulocyte colony-stimulating factor (G-CSF) in the management of neonatal sepsis in premature infants

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Whenever neonatal sepsis is associated with neutropenia, mortality and morbidity also increases. We know in the preterm infants that neutropenia is common. In this study, we evaluated the e ects of G-CSF administration on early onset neonatal sepsis in premature infants. is study was performed at the College of Medicine, Mashhad University, NICU of Qaem Hospital between May 2012 and February 2013. In this study, we enrolled 50 premature neonates with GA<35 weeks and a mean birth weight of 1500±45 g, who were under ve days old that were admitted to NICU with the clinical diagnosis of sepsis. e study population was divided to the case (G-CSF) and control groups placebo (dextrose 5%). To analyze the data with nominal scale, Pearson's Chi-square the was used. In some cases, more than 20% of expected frequencies of tables were less than ve (Cochran) Fisher's test (Fisher's e test) was used, and SPSS v.19 and Statistical v.8 so ware were used. ere was signi cant di erence between two groups for absolut neutrophil count (ANC) in second sampling (P=0.010), but for other cases, the di erence wasn't statistically signi cant (P>0.05). Also the change in absolute neutrophil counts between two blood exams showed signi cant di erence in control group (P=0.006), but the

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