Quick Sequential Organ Failure Assessment Score in Recognizing Infected Patients with Organ Dysfunction & Prediction of Mortality: Cohort study

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Abstract

Background: puerperal sepsis is a common cause of maternal mortality worldwide. Quick Sequential Organ Failure Assessment (q-SOFA) is a bedside tool which is composed of three components: respiratory rate, systolic blood pressure and level of consciousness, A score of [?] 2 indicates that the patient is having sepsis & at risk of poor outcome. Objectives: To calculate the q-SOFA for postpartum patients admitted with infection and to correlate this with critical care unit admission & patient outcome. Methods: An observational, prospective cohort hospital-based study. It was conducted in Omdurman Maternity Hospital from October 2018-to March 2019. The study included 59 postpartum patients who were diagnosed with postpartum infection; their q-SOFA score was calculated on admission and then on daily basis, to detect their in-hospital mortality and morbidity. The data was analyzed using SPSS, using Pearson Chi-square which was significant at P value of 0.05. Results: Fifty-nine participants were involved, mean age was 28years.Those who delivered by cesarean section was 54.3%, 33(55.9%) developed surgical site infection. Five patients (8.5%) died and 54 (91.5%) discharged. 17(28.8%) were admitted to critical care unit. q-SOFA score was calculated & correlated to critical care unit admission & fate of the patient using Pearson Chi-square which was found to be significant 0.01 and 0.001, respectively (P value of 0.05).Conclusion: q-SOFA is a useful tool in detecting infected patients at risk of poor outcome and death. If the score [?]2 patients need to be, admitted to critical care unit

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