

عنوان مقاله:

Umbilical Cord Clamping Timing in Preterm Infants Delivered by Cesarean Section

محل انتشار:

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خلاصه مقاله:

Background: The timing of umbilical cord clamping may affect the need to bloodtransfusion and other morbidities of preterm infants. This study aimed to compare three different cord clamping timing (immediate cord clamping, delayed cord clamping and umbilical cord milking) in preterm infants delivered by cesarean section (CS). Materials and Methods A controlled randomized clinical trial was done in preterm infants with gestation age less than ۳۲ weeks delivered by CS in AlZahra hospital, Tabriz, Iran from June ۲۰۱۸ up to the end of January ۲۰۱۹. They were randomly allocated in three groups consisted of ۳۰ neonates in each group. Umbilical cord was clamped within ۱۰ seconds after infant delivery in immediate cord clamping (ICC) group, ۶۰ seconds after delivery in delayed cord clamping (DCC) group. Cord was milked toward the infant three times over two seconds duration in umbilical cord milking (UCM) group. All patients were followed until discharge for needing the blood transfusion, bronchopulmonary dysplasia and mortality. Results: A total of ۲۰ neonates of ۹۰ studied neonates needed blood transfusion during hospital stay, of which, ۴ neonates (۱۳.۳%) were in UCM group, ۷ neonates (۲۳.۳%) in DCC group and ۹ patients (۳۰%) in ICC group ($P= ۰.۲۷$). The mean hemoglobin was significantly higher in UCM group at admission and ۳۰ days after birth ($P<۰.۰۵$). Conclusion UCM may be as effective as DCC to increase hemoglobin in preterm infants delivered by CS. Although the hemoglobin of infants with DCC and UCM was significantly higher than infants with ICC, the rate of blood transfusion was not significantly decreased during hospital stay

کلمات کلیدی:

Blood transfusion, Cesarean section, preterm infants, umbilical cord clamping

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