Original Paper

Neonatal mortality risk factors in Maraveh Tapeh County in Golestan province, north of Iran (2011-13)

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Abstract

Background and Objective: Neonatal mortality rate is one of the most important health criteria, worldwide. Understanding the major neonatal mortality causes will help to plan for better pregnancy, prenatal and neonatal care systems. This study was conducted to determine the neonatal mortality risk factors in Maraveh Tapeh County in Golestan province, north of Iran.

Methods: In this case-control study, according to either death or live in 28th day after birth, 52 neonates were considered as case group and 201 neonates were considered as control group. Data collection questionnaires were adjusted and completed for each neonate.

Results: Neonatal mortality rate was 11.76, 13.36 and 6.46 per 1000 live birth in 2011, 2012 and 2013, respectively. Five main causes of death were prematurity, events, birth defect, respiratory distress syndrome and sepsis, respectively. There was a significant relation between death and prematurity, birth weight and gender (P<0.05). There was relationship between birth weight and neonatal mortality (Odds Ratio=29.6).

Conclusion: Prematurity and low birth weight were the most important causes of neonatal mortality in Maraveh Tapeh county in Golestan province, north of Iran.

Keywords: Neonate, Mortality, Prematurity, Low birth weight, Birth defect

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Received 27 Aug 2014 Revised 3 Aug 2015 Accepted 4 Aug 2015