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Prevalence, types and risk factors of congenital anomalies (A hospital Based study

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Abstract

Congenital anomalies (CA) are common causes of infant's and childhood deaths and disability.

Objectives: The aim of the study is to determine the prevalence, describe the types and risk factors of congenital anomalies among newborns admitted to Neonatal Intensive Care Unit (NICU) of a Children's Hospital.

Study design: It is a prospective observational study(analytic cross sectional study) was performed and screening of the newborn admitted at NICU of a Children's Hospital during the period of 6 months from 1 to 12-2017 to the end of 5-2018. The sample was 346 newborns, 173 cases and 173 controls. We collected data using a record checklist and an interviewing questionnaire.

Results: There were a significant difference between cases and control concerning gestational age (P=0.001), single or multiple babies (P=0.002), residence (P=0.001), consanguineous marriage (P=0.01) and family history of unfavorable outcome (P=0.001). We also found that the most common type of congenital anomalies was gastrointestinal anomalies 63 cases (36.4%) with trachea esophageal fistula 17 cases (27%) being the most common GIT anomalies. Conclusion: The prevalence of congenital anomalies was 22.97%. The most common anomalies were gastrointestinal anomalies (GIT), musculoskeletal anomalies, multiple anomalies and circulatory system anomalies. The risk factors were consanguineous marriage, positive family history, urban areas, full-term and singleton pregnancies.

Keywords:

Congenital anomalies (CA); Risk factors; Prevalence; Types

Biography:

Fatin Hasani was studied in School of Nursing and Midwifery, RCSI, Royal College of Surgeons in Ireland, Dublin

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Speaker Publications:

1. "Altered Regulatory B Cell Subsets in Children with Type 1 Diabetes Mellitus"; Journal of Immunology Research: 2020 (1-8).

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