EFFECT OF GENETIC, CONSTITUTIONAL, DEMOGRAPHIC AND NUTRITIONAL FACTORS ON BIRTH WEIGHT IN NORTH GUJARAT REGION, GUJARAT, INDIA

KINVANTI S. PATEL¹, G. C. BHIMANI²

¹ASSISTANT PROFESSOR (STATISTICS), V. M. PATEL COLLEGE OF MANAGEMENT STUDIES, GANPAT UNIVERSITY, KHERVA-384012, DIST. MEHSANA, GUJARAT, INDIA.

² PROFESSOR (STATISTICS) AND HEAD, DEPARTMENT OF STATISTICS, SAURASHTRA UNIVERSITY, RAJKOT, GUJARAT, INDIA.

ABSTRACT

Objectives: to study the maternal and paternal factors affecting the prevalence of low birth weight in the area of North Gujarat region of Gujarat state of India.

Methods: a hospital based explorative research design to determine the prevalence of low birth weight and its risk factors among postnatal mother.

Results: The LBW prevalence was 18.3%, using chi-square test to know association between variables this study found the maternal factors significantly associated with LBW were maternal and paternal age, weight, height and gestational weight gain and gestational age. While variance analysis shows mean difference in birth weight is significant in different groups of maternal and paternal age, education, weight, height, and gestational weight gain gestational age.

Conclusion: mother age, mother weight, gestational weight gain gestational age father age father height, father weight are significantly risk factors for LBW.

KEYWORDS: Maternal and Paternal Factors, LBW, North Gujarat.

References


