



Residential traffic exposure and pregnancy related birth outcomes- a prospective birth cohort study

Shaishta Jabeen • S. Madhuja
• Anupma Kumari

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Corresponding Author : Anupma Kumari

Abstract : A survey was conducted in the different areas of Patna in the year 2010, to study the possible effects of exposure to residential traffic on pregnancy related birth outcomes. 400 mothers were interviewed with standard predesigned questionnaires, which included data on residential address of mothers along with their age, weight, education, economic status and epidemiological diseases. Out of the 400 women, 10.5% had preterm delivery, 24.4% babies were born small for gestational age (low birth weight), 1.75% women had gestational diabetes and 2.75% women had the complications of pregnancy-induced hypertension. In addition, 5.2% had intrauterine growth restriction (IUGR). A significant association was found between the residential traffic exposure and pregnancy related complications.

Key words : Residential traffic exposure, Pre-term birth, Low birth weight.