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Neonatal outcome of women with antepartum urinary tract infection at St. Luke's Medical Center Quezon City

Maria Clariza A Coronado and Ma Luisa V Manlapaz
Institute of Pediatrics and Child Health, Philippines

Statement of the Problem: The extent to which Urinary Tract Infection (UTI) affects maternal and perinatal health remains indefinite. UTI during pregnancy can lead to preterm birth, low birth weight and even neonatal death. The study aimed to describe the neonatal outcome of women with antepartum urinary tract infection during the 3rd trimester of pregnancy admitted under social service in a tertiary hospital. The prevalence of maternal UTI and their association to neonatal outcomes were determined. Neonatal outcomes of mothers with UTI and those without UTI were compared.

Methodology: This was a retrospective cross-sectional analytical study. Medical records of all born neonates and their mothers at St. Luke's Medical Center Quezon City, Philippines, from January 1 to December 31, 2015 admitted under social service were reviewed.

Findings: Out of 424 mothers, 148 (34.9%, 95% CI 30.4 to 39.7%) had urinary tract infection on the 3rd trimester. Mothers with 3rd trimester UTI and without UTI were similar to outcomes such as Apgar scores of 7 to 9 at 1st minute (97.3% vs. 97.1%) and 5th minute (99.3% vs. 99.6%), intubation (0.7 vs. 1.8%), neonatal pneumonia (0 vs. 3.3%), neonatal UTI (0.7 vs. 0%), clinical sepsis (16.9% vs. 16.3%), intrauterine growth restriction (0 vs. 0.4%) and neonatal death (0 vs. 0.4%). Differences (p-value<0.05) were noted in outcomes such as low birth weight (6.1% vs. 19.2%), preterm birth (2% vs. 12.7%) and small for gestational age (1.3% vs. 5.1%). Mothers who had UTI were significantly less likely to have low birth weight neonates (OR 0.28, 95% CI 0.13 to 0.59) and preterm birth (OR 0.14, 95% CI 0.04 to 0.47).

Conclusion: The prevalence of 3rd trimester urinary tract infection in pregnancy was 34.9%. Mothers with UTI and those without UTI had almost similar neonatal outcomes.

Biography

Maria Clariza A Coronado has received her medical degree in Pediatrics from University of the East Memorial Medical Center. She has completed her Pediatric Residency Training from Institute of Pediatrics and Child Health, Philippines.

clarcoronado@yahoo.com

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