

IS URINARY TRACT INFECTION IN PREGNANT WOMEN AFFECT THE NEONATAL SEPSIS?

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ABSTRACT

Background: Neonates are at high risk of early onset neonatal sepsis, which can occur as a result of direct transmission of the maternal colonizers (e.g. bacteria in the maternal vaginal tract, as caused by urinary tract infection) to the newborns during delivery. Neonatal sepsis has also been claimed for contributing on the neonatal deaths. Therefore, better prevention and management of severe neonatal infections including intra-partum antibiotic prophylaxis for at-risk mothers is required. This study aimed to determine the association between urinary tract infection in pregnant women on the neonatal sepsis.

Subjects and Method: A systematic literature search was conducted in multiple databases including PubMed, Science Direct, Google Scholar, and Springerlink to identify case control studies published from 2011 to 2021. The following search terms were used: (“urinary tract infection”) AND (“neonatal sepsis”) AND (“case control”). The inclusion criteria were full-text and reported adjusted odds ratio (aOR). The systematic review was carried out according to the PRISMA flow diagram. The data were quantitatively analyzed using RevMan 5.3.

Results: There were 6 studies from Ethiopia, Ghana, and Bangladesh that met the eligible criteria for meta-analysis. This study reported that urinary tract infection in pregnant women increased the risk of neonatal sepsis (aOR= 3.54; 95% CI= 2.18 to 5.75; p <0.001).

Conclusion: Urinary tract infection in pregnant women increased the risk of neonatal sepsis.

Keywords: urinary tract infection, neonatal sepsis

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