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## ANTIBIOTIC USE IN PREGNANCY AND LACTATION- REVIEW ARTICLE

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### Abstract

This study aims to evaluate antibiotic utilization patterns in pregnant and lactating women and to assess their impact on maternal and fetal health outcomes. This study will incorporate both quantitative and qualitative data analysis derived from clinical databases, prescription records, and structured interviews with healthcare providers as well as pregnant and lactating women. In addition, the study seeks to classify commonly prescribed antibiotics according to their safety profiles and trimester-specific risks, and to evaluate adherence to established clinical guidelines. It will also assess factors influencing prescribing practices, including physician knowledge, patient awareness, and healthcare accessibility. Furthermore, this research will examine the short- and long-term maternal and neonatal outcomes associated with antibiotic exposure, including potential adverse drug reactions, antimicrobial resistance patterns, and effects on neonatal microbiota. Special attention will be given to identifying high-risk drug categories and inappropriate prescriptions. The findings are expected to support the development of evidence-based strategies to optimize antibiotic prescribing during pregnancy and lactation, thereby improving maternal and fetal health outcomes and promoting rational drug use.

**Keywords:** Antibiotic utilization, pregnancy and lactation, maternal and fetal outcomes, prescribing practices, antimicrobial resistance