

# Community-Based Management of Preeclampsia in Risk Factor Identification, Detection, and Emergency Treatment: A Scoping Review

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## Abstract

Preeclampsia accounts for 10-14% of maternal deaths globally and the prevention is faced with the difficulty of identifying risk factors, as well as the limitations of emergency management. This study aims to investigate the literature on community-based management in the identification of risk factors, detection, and emergency management of preeclampsia. This study was conducted using the Arksey & O'Malley framework, while the data were sourced from 621 articles obtained through PubMed, Cochrane, Ebsco, Wiley online library, ProQuest, and Science Direct with 14 articles included in the analysis. Inclusion criteria include articles with experimental design, case-control, cohort, cross-sectional, qualitative study, and mixed-method studies, on the identification of risk factors, detection, and management of emergency preeclampsia in the community. Meanwhile, exclusion criteria include non-English articles, reviews, commentaries, and protocols. The article review was carried out by 2 reviewers, extracted according to the data map, and presented in a narrative. The implementation of community-based management of preeclampsia through sharing tasks between cadres and midwives shows an increase in knowledge and skills in detecting preeclampsia and its danger signs as well as the recommendation of  $MgSO_4$  during an emergency before starting a referral. Contacts between pregnant women and community providers > 8 times led to a reduction in maternal and child mortality. Community-based management of preeclampsia has great potential but requires regular training and refreshment as well as government support to strengthen the health service system in the prevention of preeclampsia.

## Keywords

Community, Detection, Emergency, Preeclampsia