

Shymaa E. Ayoub, Olfat G. Shaker, Rehab Abdelhamid Aboshama, Mohamed K. Etman, Abeer A. Khalefa, Mohamed M. khamiss Abd elguaad, Othman M. Zaki, Doaa Y. Ali, <b>Nada F. Hemeda</b> , Amal Amin and Marwa A. Ali (2023). Expression profile of LncRNA ANRIL, miR-186, miR-181a, and MTMR-3 in patients with preeclampsia. Non-coding RNA Research, 8: 481–486. <a href="https://doi.org/10.1016/j.ncrna.2023.06.00">https://doi.org/10.1016/j.ncrna.2023.06.00</a>	البحث السابع
مشارك مع آخرين من خارج التخصص – منشور	7

<b>Title</b>	<b>Expression profile of LncRNA ANRIL, miR-186, miR-181a, and MTMR-3 in patients with preeclampsia.</b>
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## ABSTRACT

Preeclampsia (PE) is a leading cause of maternal and neonatal morbidity and mortality worldwide. Several studies demonstrated the role of lncRNAs and miRNAs in the pathogenesis of preeclampsia; the aim was to detect the expression profiles of serum LncRNA ANRIL, miR-186, miR-181a, and MTMR-3 in patients with preeclampsia. The study included 160 subjects divided into 80 subjects considered as a control group, 80 patients with preeclampsia. We found that there was a significant difference between the preeclampsia and control groups with up-

regulation of miR-186 median (IQR) = 4, 29 (1.35–7.73) ( $P < 0.0001$ ), miR-181a median (IQR) = 2.45 ) (6.52–0.83) $P = 0.028$ , and downregulation of lncRNA ANRIL median (IQR) = 0.35(0.28–0.528) ( $P < 0.0001$ ),

MTMR median (IQR) = 0.32(0.155–1.11), ( $P < 0.0001$ ). ROC curve of lncRNA ANRIL, miR-186, miR-181a, and MTMR-3 in preeclampsia patients showing the roles of these markers in the diagnosis of preeclampsia. In conclusion, serum lncRNA ANRIL, miR-186, miR-181a, and MTMR-3 could be promising biomarkers in the diagnosis of preeclampsia.