

3<sup>rd</sup> International Conference on

# NURSING & MIDWIFERY

May 23-24, 2018 | New York, USA

## Relationship between preeclampsia and early pregnancy blood lead levels

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**P**reeclampsia is potentially life-threatening and dangerous complications of pregnancy. This study was performed to assess the relationship between blood lead levels with preeclampsia. This longitudinal (prospective) study conducted on 1033 pregnant women who came to prenatal clinics of Tehran city, Iran. The gestational age of mothers upon entry in the study was 14-20 weeks. Demographic questionnaire and reproductive history was completed and also a venous blood sample was taken from all the pregnant women upon entry. Preeclampsia was defined as blood pressure equal or more than 140/90 mmHg along with proteinuria after 20th week of pregnancy. In present study, the incidence of preeclampsia was 1.9% mean level of maternal blood lead was  $4.7 \pm 4.9$   $\mu\text{g}/\text{dl}$ . There was a significant relationship between maternal blood lead levels and preeclampsia. The results of this study showed that the high blood lead levels in early pregnancy can causes preeclampsia and regard to importance of it to prevention of its complication, Its requires to more consideration and advise.

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