



Subject: Ethical committees' approval for cooperative scientific work

Date: 30 October 2018

Title: Accuracy of the calcium-creatinine ratio (CCR) in spot urine sample in prediction of preeclampsia (PE)

Approval Number: OB_30010_31

The heads of the Obstetrics and Gynecology department No.1 of West Kazakhstan Medical University (WKZMU) and Ahmadi Hospital. Kuwait Oil Company (KOC) approved the conduction of the study entitled; **Accuracy of the CCR in spot urine sample in prediction of preeclampsia**. The study is prospective comparative observational study and will be conducted in the Obstetrics and Gynecology departments of West Kazakhstan Medical University No.1 and Ahmadi hospital, KOC, Kuwait over two years as cooperative scientific work.

Women between 20-40 years old, attending the ante-natal clinic (ANC) after 20 weeks` will studied after informed consent in accordance with the Declaration of Helsinki. After thorough history, and clinical examination, routine antenatal investigations will be done for the studied women following the hospitals protocol, and to excluded pre-existing chronic renal disease.

Women >40 years, women with chronic hypertension, gestational hypertension, superimposed PE, diabetes mellitus, urinary tract infection, multiple pregnancies (twin and triplet pregnancies), premature rupture of membranes, pre-existing chronic renal disease, refused to participate and/or refused to give consent will be excluded from this study.

A mid-stream spot urine samples taken from all participants for detection of CCR. Participants will be followed up in ANC till delivery; women who develop PE were included in the PE group, while normotensive women were included as controls. Primary outcome measures; the accuracy of CCR in spot urine sample in detection of PE.

Secondary outcome measures: risk factors and neonatal complications of PE.

Head of the OBGYN No. 1
West Kazakhstan Medical University (WKZMU).

S. Shikanova
PhD, Professor of OBCJYN



Ibrahim A. Abdelazim

MD, Professor of OBGYN