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Authors: Mina Toljic, Amira Egic, Jelena Munjas, Natasa Karadzov Orlic, Zagorka Milovanovic, Aleksandra Radenkovic, Jovana Vuceljic, Ivana Joksic

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Increased Oxidative Stress and Cytokinesis-block Micronucleus Cytome Assay Parameters in Pregnant Women with Gestational Diabetes Mellitus and Gestational Arterial Hypertension

Mina Toljic¹, Amira Egic^{2,3}, Jelena Munjas⁴, Natasa Karadzov Orlic^{2,3}, Zagorka Milovanovic², Aleksandra Radenkovic¹, Jovana Vuceljic², Ivana Joksic¹

¹ Genetic Laboratory Department, Obstetrics and Gynecology Clinic "Narodni Front", Street Kraljice Natalije 62, 11000 Belgrade, Serbia

² High-Risk Pregnancy Department, Obstetrics and Gynecology Clinic "Narodni Front", Street Kraljice Natalije 62, 11000 Belgrade, Serbia

³School of Medicine, University of Belgrade, Street Dr Subotica 8, 11000 Belgrade, Serbia

⁴Department of Medical Biochemistry, Faculty of Pharmacy, University of Belgrade, Street Vojvode Stepe 450, 11000 Belgrade, Serbia

Corresponding author: minatoljic@yahoo.com

Research Highlights:

- Gestational hypertension and gestational diabetes induce oxidative stress.
- Gestational hypertension and gestational diabetes increase level of DNA damage.
- Methyldopa has no genotoxic effect.
- CBMNcyt assay can be used as valuable screening test for pregnancy complications.

ABSTRACT

We investigated whether gestational diabetes mellitus (GDM) and gestational arterial hypertension (GH) are associated with increased oxidative stress and DNA damage. Study included 3 groups of pregnant women (GDM, GH and control). DNA damage biomarkers (micronuclei MNi, nucleoplasmic bridges NPBs and nuclear buds NBUDs) were assessed by cytokinesis-block micronucleus cytome assay. Oxidative stress levels were evaluated by

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