Aims & Scope:

Preeclampsia, a unique human pregnancy disorder, is a major cause of maternal and fetal mortality and morbidity worldwide. It remains amongst the biggest challenges in obstetrics, but its precise aetiopathogenesis is still unclear.

Although the main symptom is hypertension, preeclamptic woman manifests the change in many organs. PE is characterized by an increased vascular resistance, increased activation of the coagulation system, and reduction of intravascular volume, injury of vascular endothelium, leading to a reduced perfusion of all maternal organs, including the uterus, kidney, brain and placenta. Severe cases may include eclamptic seizures, placental abruption, premature labour, intracranial haemorrhage, DIC, HELLP syndrome, renal and hepatic failure. Severe preeclampsia is always a life threatening human pregnancy complication. Preeclampsia affects not only the mother but also fetus. IUGR affects approximately 13 to 60% of infants born from preeclamptic pregnancies.

Currently, no definitive treatment or effective prophylaxis for preeclampsia are available. Delivery still remains the only curative treatment in cases of severe preeclampsia, but is not always advantageous for the fetus. The decision is always very difficult because preterm birth may result in many health consequences for the child.

The aim of this special issue is exploration of aetiopathogenesis of preeclampsia as well as best practices update and current clinical management of severe preeclampsia, eclampsia and HELLP syndrome.

The understanding the etiological determinants of preeclampsia may lead to new therapeutic approaches and is essential for effective therapies and lowering maternal and fetal mortality and morbidity related to these serious pregnancy complications.

Issue Keywords: preeclampsia, eclampsia, HELLP syndrome, placenta, pathophysiology, aetiopathogenesis, clinical management pregnancy complication

Articles of Special Issue:

Article #1 Details:

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Article Title: The critical role of abnormal trophoblast development in the etiology of preeclampsia: Abnormal placentation as an interventional target for prevention of preeclampsia

Contributing Authors: Professor Berthold Huppertz (h-index: 40, citations: 6461)

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Article #2 Details:

Article Title: The role of Autoantibodies to the ANG II type I receptor (AT1-AA) in pathophysiology of preeclampsia

Contributing Authors: Professor Babbette LaMarca (h-index: 30, citations: 2787) Professor Mark W. Cunningham Professor Nathan Campbell

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Professor Nathan Campbell E-mail: campbelln508@gmail.com Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, Mississippi.
Article #3 Details:

Article Title: Insight into the role of Nitric oxide (NO), Asymmetric dimethylarginine (ADMA) and L-arginine in the etiopathogenesis of preeclampsia and IUGR.

Contributing Authors: Professor Tsikas Dimitrios and Professor Makrina D. Savvidou

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Professor Makrina D. Savvidou
Harris Birthright Research Centre for Fetal Medicine, King's College Hospital, London, UK.

Article #4 Details:

Article Title: - Regulatory Factors for Human Extravillous Trophoblast Invasion.

Contributing Authors: Professor Hiroshi Fujiwara, MD. & PhD (h-index: 31, citations: 2464)

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Article #5 Details:

Article Title: - "The significance of macro and microelements in pregnancies complicated by preeclampsia: a review".

Contributing Authors: professor Anna BÅ'aźewicz et al.

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Article #6 Details:

Article Title: - New biological markers for prediction of preeclampsia, identification a group of risk and design for prevention of preeclampsia

Contributing Authors: Professor Meiri Hamutal PhD, MBA et al. (h-index: 24, citations: 1868)
Article #7 Details:

Article Title: - Angiogenic imbalance as a contributor of preeclampsia

Contributing Authors: Marzena Laskowska, Assistant Professor et al. (h-index: 8, citations: 200)

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Article #8 Details:

Article Title: Pathophysiology and treatment modalities of HELLP syndrome

Contributing Authors: Professor Kedra Wallace, Ph.D. at UMMC (h-index: 17, citations: 722)
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Article #9 Details:

Article Title: Current Clinical Management of Preeclampsia

Contributing Authors: Professor Jan Oleszczuk and Marzena Laskowska Assistant Professor (h-index: 8, citations: 200)

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Marzena Laskowska, Assistant Professor

Article #10 Details:
Article Title: Eclampsia - life threatening condition: best practices updates.

Contributing Authors: Professor James Martin, Ph.D. at UMMC et al. (h-index: 2, citations: 7)

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Approximate Schedule:
Manuscript Submission Deadline: December 2017
Peer Review Due: January 2018
Final submission: March 2018