

**The XIX World Congress
for the Study of Hypertension in Pregnancy
Hilton New Orleans Riverside Hotel
New Orleans, LA, USA, October 25 to 29, 2014**

Preeclampsia / Hypertension - Future Risks and Novel Therapies



Final Program

Sunday, October 26, 2014

9:30 AM -11:00 AM	ISSHP Executive Committee Meeting [Jasperwood Room -3 rd Floor]
9:30 AM -11:00 AM	Low and Mid Income Countries Meeting [Ascot-Newberry Room – 3 rd Floor]
11:00 AM -12:00 PM	Journal Management Committee Meeting [Jasperwood Room -3 rd Floor]
12:00 PM - 1:30 PM	ISSHP International Committee Meeting [Jasperwood Room -3 rd Floor]
1:00 PM - 6:00 PM	Conference Registration [3 rd Floor Registration Counter] Speaker Ready Room - [Durham Room - 3 rd Floor]
5:00 PM – 7:00 PM	Opening Ceremony and Lecture [Napoleon Ballroom]
5:00 - 5:10 PM	[OC-01] Welcome and Announcements - Gabriella Pridjian, local organizer
5:10 – 5:50 PM	[OC-02] ISSHP – Mark Brown, president ISSHP <i>“Preeclampsia in 2014: Views of the ISSHP President”</i> Awards Chesley Award, Zuspan Awards, clinical and basic Mark Brown, President of ISSHP

Preeclampsia Foundation Awards
Eleni Tsigas, Executive Director, Preeclampsia Foundation

- 5:50 – 6:00 PM **[OC-03]** Welcome, Lee Hamm, MD, Dean of Tulane School of Medicine
- 6:00 - 6:30 PM **[OC-04] Opening Lecture –**
Moderator Marshall Lindhiemer (USA)
Speaker: George Saade (USA)
“Pregnancy as a Window for Future Health”
- 6:30 – 6:55 PM **[OC-05]** Remembering the Immediate Past President of ISSHP
Speakers: Baha Sibai (USA) and Herbert Valensise (Italy)
“Tribute to Professor Andrea Luigi Tranquilli (Italy)”
- 6:55 PM - 7:00 PM **[OC-06]** New Orleans Second Line to Reception (jazz march to reception)
Jazz Dirge for Andrea Tranquilli – Gabriella Pridjian
- 7:00 PM - 8:00 PM Opening Reception – Mark Twain Courtyard**



Monday, October 27, 2014

(Joint with ISOM) Medical Complications Related to Pregnancy

- 7:30 AM – 5:00 PM Registration ISSHP
- 8:00 AM – 8:05 AM Welcome to Joint Session Michael Carson (USA) and Gabriella Pridjian (USA)
[Napoleon Ballroom]
- 8:05 AM – 8:35 AM **[SA-01] State of the Art Lecture I:** Catherine Nelson-Piercy (*United Kingdom*)
[Napoleon Ballroom]
“Challenges and Controversies in Obstetric Medicine”
- 8:35 AM – 9:35 AM **[PI-01] Plenary I - Medical Disorders and Pregnancy** (Joint with International
Society of Obstetric Medicine, ISOM) [Napoleon Ballroom]
Moderators: Michael Carson (USA) and Gabriella Pridjian (USA)
- 8:35 AM – 9:05 AM Michelle Hladunewich, MD – (*Canada*)

“Renal Disease and a New Paradigm on Dialysis in Pregnancy“

9:05 AM – 9:35 AM Dr. Marilyn Cipolla – (USA)

“Pathophysiological Mechanisms Underlying Brain Injury in Preeclampsia”

9:35 AM - 10:00 AM **Coffee Break [Court Assembly Foyer -3rd Floor]**

10:00 AM - 11:10 AM **[PI-02] Plenary II – Medical Complications of Pregnancy Abstracts**
(Joint with ISOM) [Napoleon Ballroom]

Moderators: John Barton (USA) and Kenneth Chen (USA)

10:00 AM - 10:20 AM Thematic speaker: James Martin - (USA)

“Management of HELLP Syndrome”

10:20 AM - 10:30 AM **[001-OR]** The Control of Hypertension in Pregnancy Study (CHIPS) randomized controlled trial. Laura Magee (Canada)

10:30 AM - 10:40 AM **[002-OR]** Coronary Catheterization Findings and Disease Management in Women with Premature Acute Coronary Syndrome: Does a History of Hypertensive Disorder of Pregnancy Matter? Emily McDonald (Canada)

10:40 AM - 10:50 AM **[003-OR]** Renal Graft Outcomes After Pregnancy: follow-up from the UK Obstetric Surveillance Study. Kate Bramham (United Kingdom)

10:50 AM - 11:00 AM **[004-OR]** Maternal-Placental Syndrome and Future Risk of Cardiovascular Events in Swedish Women with Systemic Lupus Erythematosus – a population-based retrospective study. May Ching Soh (United Kingdom)

11:00 AM - 11:10 AM **[005-OR]** Transient Elastography (TE) of the Liver as new diagnostic tool to discriminate between HELLP syndrome and Acute Fatty Liver of Pregnancy (AFLP)? Johannes Duvekot (Netherlands)

11:10 AM - 11:55 AM **[SA-02] State of the Art Lecture II**
[Napoleon Ballroom]

Moderator: Jason Umans (USA), Michael Carson (USA)

Speaker: **Dr. John E. Hall (USA)**

“Pathophysiology of Hypertension in Obesity/Metabolic Syndrome: Implications for Pregnancy and Beyond”

11:55 AM – 12:00 Noon Eleni Tsigas, Executive Director, Preeclampsia Foundation
[Napoleon Ballroom] *“Preeclampsia Foundation – Hypertension Registry”*

Close of ISOM Meeting - closing remarks -- Michael Carson (USA)

12:00 Noon - 1:30 PM Lunch – on your own

12:30 PM – 1:30 PM *Introduction to the Global Pregnancy CoLaboratory a Data, Biosample and Collaborative Resource for Investigators Worldwide* [Fountain Room]

12:30 PM – 1:30 PM *Writing and Reviewing for Pregnancy Hypertension or Other Elsevier Journals (Greyling Peoples, Elsevier)* [Melrose Room]

1:30 PM – 4:00 PM **[PI-03] Plenary Session III - Novel Therapies for Preeclampsia
[Napoleon Room]**

Moderators: Bridgette Brosnihan (USA) and Baha Sibai (USA)

1:30 PM – 1:45 PM Bassam Haddad (France)

“Low Molecular Weight Heparin for Women with Prior Severe Preeclampsia”

1:45 PM – 2:00 PM Asif Ahmed (United Kingdom)

“Treatment of Early- Onset Preeclampsia with Pravastatin – StAmP Trial”

2:00 PM – 2:15 PM Ravi Thadani (USA)

“Plasmapheresis for sFlt Removal to Treat Preeclampsia”

2:15 PM – 2:30 PM Joey Granger (USA)

“Endothelin Antagonists in Preeclampsia?”

2:30 PM – 2:45 PM Annemarie Hennessey (Australia)

“PLGF Treatment of Preeclamptic Monkeys – Why Not Humans?”

2:45 PM – 3:00 PM Michael J. Paidas (USA)

“Antithrombin III for Treatment of Preeclampsia”

3:00 PM – 3:15 PM Kirk Conrad (USA)

“Recombinant Human Relaxin for Treatment of Preeclampsia”

3:15 PM – 3:30 PM Maged Costantine (USA)

“Use of Pravastatin for Recurrent Preeclampsia”

3:30 PM – 3:40 PM **[006-OR]** Proton Pump Inhibitors for treatment of preeclampsia. Stephen Tong (Australia)

3:40 PM – 4:00 PM Questions and Discussion

4:00 PM - 5:00 PM **[Po-01] Refreshment Break and Poster Session I – Medical Complications, Risk Factors, Angiogenesis, Vascular Mechanisms, Novel Therapies, Obesity, Nutrition, Metabolic Disease**

[Hilton Exhibition Center, 2nd Floor] See page 26-33 for list of posters.

5:00 PM - 6:40 PM **Concurrent Oral Session I**

[CO-1A] Concurrent Oral Session IA- Clinical Effects of Obesity, Nutrition, and Metabolic diseases upon Pregnancy [Napoleon Ballroom]

Moderators: Robert Powers (USA) & Jackie Novak (USA)

5:00 PM - 5:20 PM Thematic Speaker: Kevin Grove (USA) *“Effect of diet on placental pathology and offspring”*

5:20 PM - 5:30 PM **[007-OR]** L-Citrulline administration increases the Arginine/ADMA ratio, decreases blood pressure and improves vascular function in obese pregnant women. Robert Powers (USA)

5:30 PM - 5:40 PM **[008-OR]** Blood pressure and heart rate among pregnant women before and after the Great East Japan Earthquake (March 11, 2011) in the BOSHI study. Hirohito Metoki (Japan)

5:40 PM - 5:50 PM **[009-OR]** Obese women who develop preeclampsia exhibit a different metabolic profile early in pregnancy compared to obese women with uncomplicated pregnancies. Sunny Tao (USA)

5:50 PM - 6:00 PM **[0010-OR]** Early Pregnancy Percent Body Fat Increases Preeclampsia Risk. Lindsay Sween (USA)

6:00 PM - 6:10 PM **[011-OR]** Myo-inositol in the prevention of gestational diabetes and its complications. Rosario D'Anna, Sr. (Italy)

6:10 PM - 6:20 PM **[012-OR]** Neck Circumference, BMI and weight gain in women who snore in pregnancy. Annette J. Robertson (Australia)

6:20 PM - 6:30 PM **[013-OR]** Role of nitric oxide on blood pressure regulation in pregnant rats on a high-fat diet (HFD) Ana C. Palei (USA)

6:30 PM - 6:40 PM **[014-OR]** Different profile of cardiac morphofunctional changes and brain natriuretic peptide (BNP) between early onset and late onset preeclampsia. Vera T. Borges (Brazil)

**[CO-1B] Concurrent Oral Session IB – Vascular Mechanisms
[Versailles Ballroom]**

Moderators: Stella Goulopoulou (USA) and Michael Ryan (USA)

5:00 PM - 5:20 PM Thematic Speaker: Sandra Thomas Davidge – (Canada) *“Vascular Dysfunction in Preeclampsia”*

5:20 PM - 5:30 PM **[015-OR]** Elucidation of a role for mitochondrial superoxide in modulating plasma mediator-induced endothelial dysfunction. Cathal McCarthy (Ireland)

5:30 PM - 5:40 PM **[016-OR]** Vasoactive lipid /mediators control uterine vascular reactivity at early pregnancy in the transgenic hAGN^{xh}REN rat. Victor Pulgar (USA)

5:40 PM - 5:50 PM **[017-OR]** Histone deacetylase inhibition promotes chymase activation in endothelial cells: a potential mechanism of increased angiotensin II generation in preeclampsia. Yang Gu (USA)

5:50 PM - 6:00 PM **[018-OR]** Enhanced angiogenic balance and vasorelaxation during pregnancy in obese MC4R-deficient rats. Frank T. Spradley (USA)

6:00 PM - 6:10 PM **[019-OR]** Evaluation of fetal renal vascularization in pregnancies complicated by essential and pregnancy induced hypertension. Andrea Suranyi (Hungary)

6:10 PM - 6:20 PM **[020-OR]** The vascular effects of sodium tanshinone IIA sulphonate in rodent and human pregnancies. Jude S. Morton (Canada)

6:20 PM - 6:30 PM **[021-OR]** Caffeine increases the expression of DDAH and lowers ADMA in endothelial cells: potential link between coffee consumption and decreased risk of CVD and preeclampsia. Robert Powers (USA)

6:30 PM - 6:40 PM **[022-OR]** Maternal systemic circulation in normotensive pregnancies and those complicated by preeclampsia. Asma Khalil (United Kingdom)

[CO-1C] Concurrent Oral Session IC – Angiogenic Factors in Preeclampsia [Jefferson Ballroom]

Moderators: Rob Taylor (USA) and Stefan Verlohren (Germany)

5:00 PM - 5:20 PM Thematic speaker - Ananth Karumanchi – (USA) *“Circulating Angiogenic Factors and Preeclampsia”*

5:20 PM - 5:30 PM **[023-OR]** Maternal serum s-Flt-1/PlGF-Ratio in multiple pregnancies with and without preeclampsia in comparison to singleton pregnancies. Stefan Verlohren (Germany)

5:30 PM - 5:40 PM **[024-OR]** Modeling risk for adverse outcomes in women with suspected preterm preeclampsia using angiogenic factor measurements. Sarosh Rana (USA)

5:40 PM - 5:50 PM **[025-OR]** Induction of Nrf2-dependent Heme Oxygenase-1 promotes Angiogenesis in Human Umbilical Vein Endothelial Cells. Nisreen Kweider (Germany)

5:50 PM - 6:00 PM **[026-OR]** The effect of IgG (AT1-AA) from preeclampsia sera on the production of sEng and various kinds of cytokines from human primary trophoblast cells. Yusuke Koabayshi Sr. (Japan)

6:00 PM - 6:10 PM **[027-OR]** Ouabain inhibits placental sFlt1 production by repressing HSP27 dependent HIF-1 pathway. Sarosh Rana (USA)

6:10 PM - 6:20 PM **[028-OR]** The newly described primate and placental specific sFlt1 isoform - e15a is biologically active and antagonizes VEGF. Tu'uhevaha Kaitu'u-Lino (Australia)

6:20 PM - 6:30 PM **[029-OR]** Evaluation of the association between maternal endoglin genetic variation and circulating soluble endoglin concentrations in women with and without preeclampsia. Mandy J. Schmella (USA)

6:30 PM - 6:40 PM **[030-OR]** Cathepsin D Activity and PlGF Ratio is Associated with Echocardiographic Cardiac Dysfunction in Preeclampsia. Christy F. Pearce (USA)



Tuesday, October 28, 2014

8:00 AM - 8:45 AM **[Sa-03] State of the Art Lecture III [Napoleon Ballroom]**

Babbette LaMarca (USA)

“Immune Mechanisms in Hypertension in Pregnancy”

Moderator: Gus Dekker (Australia)

8:45 AM – 10:00 AM **Concurrent Oral Session II**

[CO-2A] Concurrent Oral Session IIA – Immune and Inflammatory Mechanisms [Napoleon Ballroom]

Moderators: Brett Mitchell (USA) and Julie Lavioe (Canada)

8:45 AM - 8:55 AM **[031-OR]** Modeling an NK cell based immunotherapy for preeclampsia. Ricardo de Carvalho Cavalli (USA)

8:55 AM - 9:05 AM **[032-OR]** A smaller fetal thymus precedes clinical pre-eclampsia: a prospective study. Michael Peek (Australia)

9:05 AM - 9:15 AM **[033-OR]** Chronic vasopressin infusion throughout pregnancy phenocopies the physiologic, vascular, obstetric and immunologic phenotypes of human preeclampsia in mice. Mark Santillan (USA)

9:15 AM - 9:25 AM **[034-OR]** Placental CD4+ T Cells Isolated from Preeclamptic Women Cause Preeclampsia-Like Symptoms in Pregnant Nude-Athymic Rats. Ashlyn Harmon (USA)

9:25 AM - 9:35 AM **[035-OR]** A role for TH17 cells and IL-17 in mediating the pathophysiology associated with preeclampsia. Denise Cornelius (USA)

9:35 AM - 9:45 AM **[036-OR]** Treatment with Vitamin D attenuates blood pressure and immune activation in a preeclamptic rat model. Jessica Faaulkner (USA and Germany)

9:45 AM - 9:55 AM **[037-OR]** The role of hyaluronan in NLRP3 inflammasome in monocytes from pregnant women with preeclampsia. Mariana Romao (Brazil)

9:55 AM - 10:05 AM **[038-OR]** Sexual Dimorphism in the Effect of Inflammation on Trophoblast Function with Preeclampsia. Leslie Myatt (USA)

[CO-2B] Concurrent Oral Session IIB – Gestational Hypertension / Preeclampsia / Imitators of Preeclampsia [Versailles Ballroom]

Moderators: Arun Jeyabalan (USA) and Kevin Krane (USA)

8:45 AM - 9:00 AM Thematic speaker – Baha Sibai (USA) *“Telling the Difference – Preeclampsia and its Imitators”*

9:00 AM - 9:10 AM **[039-OR]** Cesarean Section vs. Vaginal Delivery in Severe Preeclampsia: perinatal outcomes. Leila Katz (Brazil).

9:10 AM - 9:20 AM **[040-OR]** A causal model of magnesium sulphate use in women hospitalized at less than or equal to 29 weeks with severe or non-severe pre-eclampsia. Dane A. De Silva (Canada)

9:20 AM - 9:30 AM **[041-OR]** Triggers for delivery in pre-eclampsia. Nicla A. Varnier (Australia)

9:30 AM - 9:40 AM **[042-OR]** Diagnostic accuracy of Placental Growth Factor in women with chronic kidney disease or hypertension and suspected preeclampsia: a prospective cohort study. Kate Bramham (United Kingdom)

9:40 AM - 9:50 AM **[043-OR]** The natural history of gestational hypertension among women hospitalized at or equal to 29 weeks of gestation. Meghan McKeever (Canada)

9:50 AM - 10:00 AM **[044-OR]** Statins reduce soluble Flt1, and quench endothelial dysfunction in primary human tissues, but increase soluble endoglin release. Fiona C. Brownfoot (Australia).

[CO-2C] Concurrent Oral Sessions IIC Risk factors and Prediction for preeclampsia – the Mother, the Father, the Fetus [Jefferson Ballroom]

Moderators: Audrey Saftlas (USA) and Michael Kupfermanc (Israel)

8:45 AM - 9:00 AM Thematic Speaker: Gus Dekker (Australia) *“Preeclampsia – Disease of a Couple”*

9:00 AM - 9:10 AM **[045-OR]** Thrombophilia and the origin of preeclampsia: rumors of the past? Durk Berks (Netherlands)

9:10 AM - 9:20 AM **[046-OR]** Early and late onset preeclampsia versus small for gestational age risks in subsequent pregnancies. Ben Mol (Netherlands)

9:20 AM - 9:30 AM **[047-OR]** HIV, antiretroviral therapy and hypertensive disorders in pregnancy: a systematic review and meta-analysis. Joyce L. Browne (United Kingdom)

9:30 AM - 9:40 AM **[048-OR]** Association of paternal allelic polymorphisms of HLA-C with the development of preeclampsia. Hong Yu (China)

9:40 AM - 9:50 AM **[049-OR]** Vasopressin secretion in human pregnancy predicts the development of preeclampsia as early as the sixth week of gestation. Mark Santillan (USA)

9:50 AM - 10:00 AM **[050-OR]** Pulse wave analysis and the risk of early-onset pre-eclampsia. Patrick Lan (Australia)

10:00 AM - 10:20 AM **Coffee Break [Court Assembly Foyer -3rd Floor]**

10:20 AM – 12:00 PM **Concurrent Symposia**

[CS-01] Clinical Use of Biomarkers in Hypertensive Disorders of Pregnancy – Are we there yet? [Napoleon Ballroom] Moderators: Eugene Chang (USA) and Sergio Martins-Costa (Brazil)

10:20 AM – 10:40 AM Sarosh Rana (USA) *“Clinical Use of Biomarkers for Preeclampsia”*

10:40 AM – 11:00 AM Stefan Verlohren (Germany) *“The Antiangiogenic Continuum in Placental Dysfunction - Related Disorders”*

11:00 AM – 11:40 AM Speaker Louise Kenny (Ireland) *“Biomarkers for the Early Pregnancy Prediction of Pre-eclampsia – Lessons from SCOPE.”*

11:40 AM – 12:00 AM Panel Discussion

[CS-02] Animal Models [Versailles Ballroom]

Moderators: Sandra Davidge (Canada) and Jeffery Gilbert (USA)

10:20 AM – 10:40 AM Yang Xia (USA) *“Animal Models for Studying Immune Mechanisms in Preeclampsia”*

10:40 AM – 11:00 AM Maged Costantine (USA) *“Effects of Pravastatin on Angiogenic and Inflammatory Factors in a Mouse Model of Preeclampsia”*

11:00 AM – 11:20 AM Daniel Vaiman (France) *“STOX1 Model for Studying Preeclampsia”*

11:20 AM – 11:40 AM Barbara Alexander, (USA) *“Programming of Cardiovascular Disease”*

11:40 AM – 12:00 AM Brett Mitchell (USA) *“Therapeutic Targets in Immune System Mediated Preeclampsia”*

[CS-03] Preeclampsia in Low and Mid Income Countries [Jefferson Ballroom]

Moderators: Tom Easterling (USA) and David Hall (South Africa)

10:20–10:55 AM Jim Roberts (USA) – for the Global Pregnancy Co-Laboratory “*Is there a Role for Mechanistic Research in Low and Middle Income Countries? Why and How?*”

10:55 AM - 11:10 AM Shuchita Mundle (India) “*Treatment Approaches to Preeclampsia in Low Resource Settings*”

11:10 AM -11:25 AM Nelson Sass (Brazil) “*Experience with Preeclampsia in Brazil*”

11:25-11:40 David Hall (South Africa) “*Expectant Management of Severe Preeclampsia in South Africa*”

11:40 AM -11:50 AM **[051-OR]** Analysis of the Last 100 Maternal Deaths due to Preeclampsia and Eclampsia. Mahesh Jariwala, Sr. (India)

11:50 AM -12:00 AM **[052-OR]** Clinical features of pre-eclampsia in 2613 Central Asian women and babies recruited for genetic studies. Linda Morgan (United Kingdom)

12:00 PM - 1:30 PM Lunch – on your own

12:30 PM – 1:30 PM **ISSHP Business Meeting [Napoleon Ballroom]**

1:30 PM - 2:15 PM **[SA-04] State of the Art Lecture - IV [Napoleon Ballroom]**

Dr. Ian Sargent – (United Kingdom)

“*Placental Debris and Nanoparticles in Preeclampsia*”

Moderator: Joey Granger (USA)

2:15 PM - 3:00 PM **[PI-04] Plenary IV – New Investigator Session [Napoleon Ballroom]**

Moderators: Eric George (USA) and Valeria Sandrim (Brazil)

2:15 PM - 2:25 PM **[053-OR]** Magnesium Sulfate (MgSO₄) Increases seizure threshold via reduced neuroinflammation in a Rat Model of Preeclampsia. Abbie Johnson (USA)

2:25 PM - 2:35 PM **[054-OR]** When is maternal plasma sST2 concentration elevated in patients with preeclampsia? Piya Chaemsaitong (USA)

2:35 PM - 2:45 PM **[055-OR]** 17-hydroxyprogesterone caproate attenuates hypertension and uterine artery resistance in response to Reduced Uterine Perfusion Pressure (RUPP) in pregnant rats. Lorena Amaral (USA)

2:45 PM - 2:55 PM **[056-OR]** Placental lesions of vascular insufficiency are associated with anti-angiogenic state in women with preeclampsia. Kedak Baltajian (USA)

3:00 PM - 4:00 PM **Concurrent Oral Session III**

[CO-3A] Concurrent Oral Session IIIA – Management of Chronic Hypertension in pregnancy [Napoleon Ballroom]

Moderators: Judith Hibbard (USA) and Sergio Martins-Costa (Brazil)

3:00 PM - 3:20 PM Thematic speaker Phyllis August (USA) “*Chronic Hypertension in Pregnancy: Lessons learned from Clinical Observation and Investigation*”

3:20 PM - 3:30 PM **[057-OR]** Clonidine versus captopril for severe postpartum hypertension: a randomized controlled trial. Leila Katz (Brazil)

3:30 PM - 3:40 PM **[058-OR]** To study the changes in maternal and fetal hemodynamics with intravenous labetalol or nifedipine in acute severe hypertension. Shalini Gainer (India)

3:40 PM - 3:50 PM **[059-OR]** The Control of Hypertension In Pregnancy Study (CHIPS) randomized controlled trial - is the type of antihypertensive important? Laura Magee (Canada)

3:50 PM - 4:00 PM **[060-OR]** Fetal sex specific differences in maternal -vascular adaptation to pregnancy. Zoe A. Brown (Netherlands)

[CO-3B] Concurrent Oral Session IIIB – The Placenta in Preeclampsia [Versailles Ballroom]

Moderators: Ian Sargent (United Kingdom) and Gloria Valdes (Chile)

3:00 PM - 3:10 PM **[061-OR]** Functional regulation of trophoblast cells by lysophosphatidic acid signaling and its pathologic relevance to PIH. Mayuko Ichikawa (Japan)

3:10 PM - 3:20 PM **[062-OR]** Impaired autophagy in placenta of pregnant women with preeclampsia. Ingrid C. Weel (Brazil)

3:20 PM - 3:30 PM **[063-OR]** Effect of pregnancies complicated by essential as well as pregnancy induced hypertension on placental vascularization. Ábel Altorjay (Hungary)

3:30 PM - 3:40 PM **[064-OR]** Molecular Basis for Racial Disparity in Preeclampsia Kyo-Ho Lee (USA)

3:40 PM - 3:50 PM **[065-OR]** Total bile acids in the maternal and fetal compartment in relation to placental ABCG2 expression in preeclamptic pregnancy. Jiska Jebbink (Germany)

3:50 PM - 4:00 PM **[066-OR]** The uteroplacental arterio-venous differences of Placental Growth Factor (PlGF) and soluble Fms-like tyrosine kinase1 (sFlt-1) in normal and preeclamptic pregnancies. Ane Holme (Norway)

[CO-3C] Concurrent Oral Session IIIC – Future Cardiovascular Risks [Jefferson Ballroom]

Moderators: Eric Steegers (Netherlands) and Jose Geraldo Ramos (Brazil)

3:00-3:20 Thematic speaker Annetine Staff (Norway) *“Future Maternal Cardiovascular Disease and Pregnancy Hypertension: Possible Mechanisms and How to Follow Up Women at Risk”*

3:20 PM - 3:30 PM **[067-OR]** Prevalence of chronic kidney disease after preeclampsia using KDIGO 2012 criteria. Julia Spaan (Netherlands)

3:30 PM - 3:40 PM **[068-OR]** Effects of lifestyle intervention after complicated pregnancy: Results of the Pro-Active study. Durk Berks (Netherlands)

3:40 PM - 3:50 PM **[069-OR]** Investigating the needs and preferences for a postpartum secondary prevention clinic in women who develop Preeclampsia. Darya Kurowecki (Canada)

3:50 PM - 4:00 PM **[070-OR]** Myeloperoxidase and endothelial nitric oxide synthase genetic polymorphisms and its modulation of some cardiovascular risk parameters in women with previous pregnancy hypertension. Manuel Bicho (Portugal)

4:00 PM - 5:00 PM **[Po-02] Coffee Break and Poster Session II –Metabolic disease, treatment, fetal risks, placenta, chronic hypertension animal models, future risks, low and mid income countries**

[Hilton Exhibition Center, 2nd Floor] See page 33--40 for list of posters.

5:00 PM - 6:00 PM **[CD-01] Clinical Debates Why can't we agree? [Napoleon Ballroom]**

5:00 PM - 5:30 PM **Debate 1:** “When to Deliver Women with Hypertension – After HYPITAT “

Ben Mol (Australia) vs Jimmy Walker (United Kingdom)

5:30 PM - 6:00 PM **Debate 2:** “Does Aspirin Work for Prevention of Preeclampsia?”

Baha Sibai (USA) vs Emmanuel Bujold (Canada)

7:00 PM - 10:00 PM Networking Dinner - Blaine Kern's Mardi Gras World -- with Jazz Great

**Dr. Michael White Jazz Clarinetist and Jazz Historian
Professor of Music, Tulane University**

“History of Jazz in New Orleans”



Wednesday, October 29, 2014

8:00 AM - 9:20 AM **[PI-05] Plenary V Pre-eclampsia – Are we correct with our diagnostic criteria? [Napoleon Ballroom]** Abstracts and Panel Discussion

Moderator: Gabriella Pridjian (USA) and Jose Ramos (Brazil)

8:00 AM – 8:10 AM **[071-OR]** What's in a name? The Revised 2013 ACOG Definitions of Hypertensive Disorders of Pregnancy Significantly Increase the Diagnostic Prevalence of Preeclampsia. Doug Woelkers (USA)

8:10 AM – 8:20 AM **[072-OR]** Isolated proteinuria - An heralding sign for preeclampsia? A retrospective analysis of the obstetrical and neonatal outcomes in women presenting with proteinuria during pregnancy. Shiri Shinar (Israel)

8:20 AM – 8:30 AM **[073-OR]** Rates of adverse outcomes are elevated in preterm patients with suspected hypertensive disorders without diagnostic criteria for preeclampsia. Doug Woelkers (USA)

8:30 AM - 8:40 AM **[074-OR]** Proteinuria and 'adverse conditions' in the classification of pre-eclampsia. Dan A De Silva (Canada)

8:40 AM – 9:20 AM Panel discussion of diagnostic criteria for “preeclampsia”

Panel:

John Barton (USA)
Gus Dekker (Australia)
Laura Magee (Canada)
Baha Sibai (USA)
Herbert Valensise (Italy)
J. J. Walker (England)

9:20 AM – 10:30 AM **Concurrent Oral Session IV**

[CO-4A] Concurrent Oral Session IVA – Anesthesia – Critical Care – Acute Complications of Hypertension / Preeclampsia / Other [Napoleon Ballroom]

Moderator: Antoinette C. Bolte (Australia) and David Hall (South Africa)

9:20 AM - 9:40 AM Thematic speaker Gerda Zeeman (Netherlands) *"How to Avoid and Manage Cerebrovascular Complications of Preeclampsia"*

9:40 AM - 9:50 AM **[075-OR]** Guyton, the mean mystemic filling pressure and pre-eclampsia: making sense of a restrictive fluid strategy in the hypovolemic" woman. Tim Crozier (Australia)

9:50 AM - 10:00 AM **[076-OR]** Hypertensive disease in pregnancy in women with objectively measured snoring. Annette J. Robertson, (Australia)

10:00 AM - 10:10 AM **[077-OR]** Preeclampsia and maternal mortality, the importance of size of the fetus. Rolv Skjaerven (Norway)

10:10 AM - 10:20 AM **[078-OR]** A systems biology approach reveals evidence for defective endometrial maturation in women destined to develop preeclampsia (PE). Kirk Conrad (USA)

10:20 AM - 10:30 AM **[079-OR]** Anti-angiogenic collagen fragment arresten is significantly increased from 16 weeks in preeclamptic plasma and correlates with preeclamptic disease severity. Hannah EJ Young (Australia)

[CO-4B] Concurrent Oral Session IVB – Genomics, proteomics, metabolomics [Versailles Ballroom]

Moderator: Philip Baker (New Zealand) and Orlaith Burke (Ireland)

9:20 AM - 9:40 AM Thematic speaker Jenny Myers (United Kingdom) *"Integrated Proteomics Pipeline Yields Novel Biomarkers for Predicting Preeclampsia."*

9:40 AM - 9:50 AM **[080-OR]** Increased protein network connectivity in preeclampsia. Piya Chaemsaithong (USA)

9:50 AM - 10:00 AM **[081-OR]** Genome-wide transcriptome directed pathway analysis of maternal preeclampsia susceptibility genes. Hannah EJ Yong (Australia)

10:00 AM - 10:10 AM **[082-OR]** Novel proteomic method to identify urinary proteins which may predict pre-eclampsia: proof of concept. Phil Baker (United Kingdom)

10:10 AM - 10:20 AM **[083-OR]** Altered methylation in Natural Cytotoxicity Triggering Receptor 1 (*NCR1/NKp-46*) gene associated with preeclampsia at delivery. Wendy M. White (USA)

10:20 AM - 10:30 AM **[084-OR]** Differential DNA methylation in placental and maternal angiogenic genes is

not altered in preeclampsia. Cindy M. Anderson (USA)

[CO-4C] Concurrent Oral Session IVC - Fetal Programming of Cardiovascular and Metabolic Diseases / Fetal Outcomes / Animal Models [Jefferson Ballroom]

Moderators: Analia Loria (USA) and Cecelia Gambala (USA)

9:20 AM - 9:40 AM Kent Thornburg (USA) *"Fetal Programming of Cardiovascular and Metabolic Diseases"*

9:40 AM - 9:50 AM **[085-OR]** Fetal triglyceride concentrations and apolipoprotein CIII glycosylation/sialylation in IUGR. Ulrich Pecks (Germany)

9:50 AM - 10:00 AM **[086-OR]** Increased levels of Endocan-1 in maternal plasma of patients with pre-eclampsia in the third trimester of pregnancy: relation to prematurity and low birthweight. Marta R. Hentschke

10:00 AM - 10:10 AM **[087-OR]** Hypertension in an animal model of HELLP syndrome proceeds via activation of the Endothelin-1 system. Rachel Morris (USA)

10:10 AM - 10:20 AM **[088-OR]** The Dahl Salt Sensitive Rat is a Novel Model of Chronic Hypertension with Superimposed Preeclampsia. Ellen Gillis (USA)

10:20 AM - 10:30 AM **[089-OR]** Elevated placental adenosine signaling contributes to the pathogenesis of preeclampsia. Takayuki Iriyama (USA)

10:30 AM - 11:00 AM **Coffee Break [Court Assembly Foyer -3rd Floor]**

11:00 AM – 12:00 PM **[PI-06] Plenary Session VI – Biomarkers / Prediction [Napoleon Ballroom]**

Moderators: Annetine Staff (Norway) and Vesna Garovic (USA)

11:00 AM - 11:10 AM **[090-OR]** Novel biomarkers for early preeclampsia derived from the use of a new proteomic method, Piya Chaemsaitong (USA)

11:10 AM - 11:20 AM **[091-OR]** New biomarkers in cerebrospinal fluid for cerebrovascular involvement in preeclampsia. Caroline B. van den Berg (Netherlands)

11:20 AM - 11:30 PM **[092-OR]** Placental growth factor measurement as a marker of subsequent disease and harm in placental insufficiency conditions. Aimee Woods – given by Gus Dekker (Australia)

11:30 AM - 11:40 AM **[093-OR]** Accuracy of angiogenic biomarkers for predicting preeclampsia: an observational study. Mariana Widmer (Switzerland)

11:40 AM - 11:50 PM **[094-OR]** Extending the scope of individual patient data meta-analyses: merging algorithms for biomarker measurements from heterogeneous laboratory platforms. The CoLAB Preeclampsia Angiogenic Factor Study. Orlaith Burke (United Kingdom)

11:50 AM - 12:00 PM **[095-OR]** Longitudinal changes in maternal corin and midregional proatrial natriuretic peptide in women at risk of preeclampsia. Asma Khalil (United Kingdom)

12:00 PM - 1:30 PM Lunch – on your own

1:30 PM - 2:30 PM [Po-03] Poster Session III – Fetal programming, anesthesia, genomics, biomarkers, prediction

[Hilton Exhibition Center, 2nd Floor] See page 41-47 for list of posters.

2:30 PM - 4:00 PM [PI-07] Plenary Session VII – *The Future* [Napoleon Ballroom]

Moderators: Gerda Zeeman (Netherlands) and Herbert Valensise (Italy)

2:30 PM - 3:00 PM Yang Xia (USA) “*Basic Research in Preeclampsia – The Future*”

3:00 PM - 3:30 PM Christopher Redman (United Kingdom) “*How Many Subtypes of Preeclampsia are Emerging?*”

3:30 PM - 4:00 PM ISSHP–Annetine Staff (Norway), ISSHP Vice President - *Best poster and oral presentation award, closing remarks*

Nelson Sass - Next meeting: The XX World Congress of ISSHP – 2016 -- Brazil

END OF CONFERENCE



POSTER PRESENTATIONS

Monday, October 27, 2014

Poster Session I

4:00 PM - 5:00 PM

[96-POS] **Analysis of vascular endothelial growth factor (VEGF) +405G>C and +936C>T genopolymorphisms in early onset severe preeclampsia.** Maurin Susanna, **Erry G. Dachlan, Sr.** Dr. Soetomo General Hospital Surabaya Indonesia, Surabaya, Indonesia.

[99-POS] **Preeclampsia and prematurity factors in pregnancies complicated by SLE at a tertiary-care referral center - Dr. Soetomo-Surabaya.** Tythania Pramithapuri, Muhammad Ilham Aldika Akbar, Maurin Susanna, Hermanto Tri Joewono, Aditiawarman Aditiawarman, Agus Sulistyono, **Erry G. Dachlan, Sr.** Dr. Soetomo General Hospital Surabaya Indonesia, Surabaya, Indonesia.

[102-POS] **Alteration of the plasma amino acid profile in preeclampsia with hypoalbuminemia.** Aditiawarman Aditiawarman, Sr., **Erry G. Dachlan, Sr.** Dr. Soetomo General Hospital Surabaya Indonesia, Surabaya, Indonesia.

[105-POS] **Clinical evaluation of placental growth factor (PIGF) for the management of suspected placental pathology in high-risk pregnancies.** **Emma Shawkat**¹, Edward Johnstone¹, Daniella Nice², Andrew Sayce², Katharine Hayden², Jenny Myers¹. ¹The University of Manchester, Manchester, United Kingdom, ²Central Manchester NHS Trust, Manchester, United Kingdom.

[108-POS] **Assessment of concentrations of sFlt-1 and PIGF as predictors of preeclampsia.** **Jackeline S. Machado**¹, Michelle S. Machado¹, Tawana V. Bertagnolli¹, Geraldo Duarte¹, Valéria C. Sandrim², Ricardo C. Cavalli¹. ¹Ribeirão Preto Medical School - University of Sao Paulo, Ribeirão Preto, Brazil, ²UNESP, Botucatu, Brazil.

[111-POS] **miR-195b is correlated with plasma sFLT-1 levels in preeclampsia.** **Valeria Sandrim**¹, Karla Fernandes², Ricardo Cavalli³. ¹Unesp, Botucatu, Brazil, ²de Pós-Graduação e Pesquisa - Santa Casa de Belo Horizonte, MG, Brazil, Belo Horizonte, Brazil, ³USP, Ribeirao Preto, Brazil.

[114-POS] **Are reduced first trimester PAPP-A concentrations in women with Type 1 diabetes associated with preeclampsia, premature delivery, and small for gestational age infants?** Irena Idel¹, Ben Chen², Alison Nankervis³, Fiona Cullinane³, Paul Champion de Crespigny³, Vicki Levidiotis³, Danny Liew², **Lawrence McMahon**¹. ¹Eastern Health Clinical School, Melbourne, Australia, ²Melbourne Epidemiology Centre, Melbourne, Australia, ³Royal Women's Hospital, Melbourne, Australia.

[117-POS] **Neonatal outcomes in babies of mother with type 1 diabetes with and without preeclampsia.** Irena Idel¹, **Lawrence McMahon**¹, Ben Chen², Danny Liew², Fiona Cullinane³, Vicki Levidiotis³, Paul Champion de Crespigny³, Stephanie Hopkins⁴, Sarah Hunter-Smith⁵, Alison Nankervis³. ¹Eastern Health Clinical School, Melbourne, Australia, ²Melbourne Epidemiology Centre, Melbourne, Australia, ³Royal Women's Hospital, Melbourne, Australia, ⁴University of Newcastle, Callaghan, Australia, ⁵University of Melbourne, Melbourne, Australia.

[120-POS] **Association between cystatin C and markers of renal function in preeclamptic pregnant women.** **Roberto A. Costa**¹, Maria T. Peracoli², Mariana Romão², Ingrid C. Weel², Joelcio F. Abbade¹, Jose C. Peracoli¹. ¹Botucatu Medical School, Sao Paulo State University, Botucatu, Brazil, ²Institute of Biosciences, Sao Paulo State University, Botucatu, Brazil.

[123-POS] **A comparison of the 24-hour blood pressure profiles of women from different ethnic origins with chronic hypertension in pregnancy.** **Emma Shawkat**¹, Edward Johnstone¹, Catherine Chmiel², Giovanna Bernatavicius², Jenny Myers¹. ¹The University of Manchester, Manchester, United Kingdom, ²Central Manchester NHS Trust, Manchester, United Kingdom.

[126-POS] **Inter-pregnancy weight change and pregnancy hypertension.** **Doris M. Campbell**, Sohinee Bhattacharya, Graham Horgan, Jacqueline Wallace. University of Aberdeen, Aberdeen, United Kingdom.

[129-POS] **Risk factors for cesarean section in women with severe preeclampsia.** **Leila Katz**, Melania Mr Amorim, Alex Sr Souza, Sabina B. Maia, Antonio H. França Neto, Nicole V. Leal, Anibal Faundes. IMIP, Recife, Brazil.

[132-POS] **Factors associated with vaginal delivery in hypertensive and normotensive pregnant women submitted to labor induction with misoprostol: a cohort study.** **Nicole Viana Leal**¹, Alex Sandro Rolland Souza², Leila Katz², Carlos Noronha-Neto², Sabina Bastos Maia², Antonio Henriques Franca-Neto¹, Melania Maria Ramos Amorim¹. ¹Instituto de Pesquisa Professor Joaquim Amorim Neto (IPESQ), Campina Grande, Brazil, ²Instituto de Medicina Integral Professor Fernando Figueira (IMIP), Recife, Brazil.

[135-POS] **Maternal and perinatal outcomes in women with and without hypertensive syndromes submitted to induction of labor with misoprostol.** **Nicole Viana Leal**¹, Alex Sandro Rolland Souza², Leila Katz², Carlos Noronha-Neto², Sabina Bastos Maia², Antonio Henriques Franca-Neto¹, Melania Maria Ramos Amorim¹. ¹Instituto de Pesquisa Professor Joaquim Amorim Neto (IPESQ), Campina Grande, Brazil, ²Instituto de Medicina Integral Professor Fernando Figueira (IMIP), Recife, Brazil.

[138-POS] **Gestational age as a determining factor for successful conservative treatment of severe preeclampsia.** Yusra Septivera, **Ernawati Ernawati**, Muhammad Ilham Aldika Akbar, Agus Sulistyono, Sr., Aditiawarman Aditiawarman, Sr., Hermanto Tri Joewono, Sr., Erry Gumilar Dachlan, Sr. Dr. Soetomo General Hospital / Airlangga University, Surabaya, Indonesia.

[141-POS] **Birth outcomes and induction success in hypertensive women: A population based data linkage study (2000-2011).** Charlene E. Thornton¹, Hannah G. Dahlen¹, Robert Ogle², Annemarie Hennessy¹. ¹University of Western Sydney, Penrith, Australia, ²Royal Prince Alfred Women and Babies, Camperdown, Australia.

[144-POS] **Comparative analysis of vaginal delivery among pregnant women with chronic arterial hypertension and normotensive pregnant women.** Maria Luisa Diaz Cunha David¹, Paula Seba Rahe¹, Veridiana Andrade Pires de Campos¹, Michelle Louise Rodrigues Barbosa da Silva¹, Fernanda Marques¹, Kátia de Cássia Dom Bosco¹, José Roberto Del Sant², José Marcelo Garcia¹, Maria Renata Lopes Natale Paltronieri¹, Maurício Saito², Sérgio Florian de Toledo¹, Rogério Gomes dos Reis Guidoni¹, Nelson Sass³, **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Guilherme Álvaro Hospital, Santos, Brazil, ³UNIFESP - Federal University of São Paulo, São Paulo, Brazil.

[147-POS] **Maternal and perinatal outcomes of pregnant women with normal deliveries and preeclampsia** Livia Bruno Vidal¹, Gabriela de Oliveira Gomes¹, Marcelo Rodrigues Boarini¹, Renata Barbosa Horita¹, Rodrigo Silva de Mendonça¹, Tainá Peral Molina¹, Thiago Neves Kanashiro¹, Ana Bárbara Bordignon Rodrigues Menegazzo¹, Sérgio Floriano de Toledo¹, Nelson Sass², Rogério Gomes dos Reis Guidoni¹, **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²UNIFESP - Federal University of São Paulo, São Paulo, Brazil.

[150-POS] **Immediate perinatal outcomes of pregnant women with severe maternal morbidity and near miss affected by hypertensive disorders.** Malek Mounir Imad¹, Livia Yumi Maruoka¹, Lucas de Sena Leme¹, Natalia Oliveira Trajano da Silva¹, Stefanie Hitome Sashida¹, Vitor Domingues Alonso Neto¹, José Marcelo Garcia¹, Sérgio Floriano de Toledo¹, Rogério Gomes dos Reis Guidoni¹, Nelson Sass², **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²UNIFESP - Federal University of São Paulo, São Paulo, Brazil.

[153-POS] **Influence of a physiotherapy protocol in maternal and fetal hemodynamics in pregnant women with preeclampsia.** Tawana V. Bertagnolli, Michelle S. Machado, Jackeline S. Machado, Cristine H. Ferreira, Geraldo Duarte, Ricardo C. Cavalli. Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto, Brazil.

[156-POS] **The contribution of hypertensive syndrome to severe maternal morbidity.** Livia Yumi Maruoka¹, Malek Mounir Imad¹, Lucas de Sena Leme¹, Natalia Oliveira Trajano da Silva¹, Stefanie Hitome Sashida¹, Vitor Domingues Alonso Neto¹, Vivian Macedo Gomes Marçal¹, José Marcelo Garcia¹, Sérgio Floriano de Toledo¹, Rogério Gomes dos Reis Guidoni¹, Nelson Sass², **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²UNIFESP - Federal University of São Paulo, São Paulo, Brazil.

[159-POS] **Association of reproductive hormones with pregnancy induced hypertension in Nigerian pregnancy women.** Ajibade O. Oyeyemi, **Modupe F. Asaolu**. Ekiti State University, Ado-Ekiti, Nigeria.

[162-POS] **Blood pressure criteria for the detection of pre-eclampsia.** Ragnar Rylander¹, Maria Bullarbo². ¹BioFact Environmental Health Research Center, Lerum, Sweden, ²University of Gothenburg, Gothenburg, Sweden.

[165-POS] **Postpartum follow-up of hypertensive pregnancy using at-home web-linked mobile sphygmomanometer.** Shunsuke Onishi, Kazutoshi Nakano, Kana Iwai, Yuki Yamada, Juria Akasaka, Aiko Shigemitsu, Katsuhiko Naruse, Hiroshi Kobayashi. Nara Medical University, Kashihara, Nara, Japan.

[168-POS] **The antihypertensive management of eclampsia by a stepwise protocol using a nicardipine drip infusion adjusted based on diastolic blood pressure.** Osamu Nakamoto¹, Ikuko Mita¹, Sachiyo Nishimoto¹, Kohji Kajitani¹, Kazuharu Tanaka¹, Hiroaki Nakamura¹, Chika Motohisa². ¹Osaka City General Hospital, Osaka City, Japan, ²Osaka City Juso Hospital, Osaka City, Japan.

[171-POS] **Establishing trimester-specific maternal thyroid hormone reference intervals of southern Chinese population. Lei Liu**, Xuezheng Zhang, JinYing Yang, Xueya Qian, Zheng Zheng, Xuwen Tang, Huishu Liu. Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China.

[174-POS] **Can calibrated automated thrombogram assay predict venous thrombosis in pregnancy? Siti K. Ismail**¹, Lucy Norris², Ali Khashan¹, Nigel Simpson³, Gustaaf Dekker⁴, Jenny Myers⁵, Lesley McCowan⁶, Louise Kenny¹, John R. Higgins¹. ¹Anu Research Centre, Dept Obstetrics and Gynaecology, University College Cork, Cork, Ireland, ²Coagulation Research Laboratory, Trinity College Dublin, Dublin, Ireland, ³University of Leeds, Leeds, United Kingdom, ⁴University of Adelaide, Adelaide, Australia, ⁵University of Manchester, Manchester, United Kingdom, ⁶University of Auckland, Auckland, New Zealand.

[177-POS] **Seasonality of pregnancy induced hypertensive disorders in South Australia - a retrospective population study 2007-2011. Petra E. Verburg**¹, Graeme Tucker², Wendy Scheil², Jan Jaap H. Erwich¹, Claire T. Roberts³, Gus A. Dekker³. ¹University Medical Centre Groningen, Groningen, Netherlands, ²Epidemiology Branch, SA Health, Adelaide, Australia, ³School of Paediatrics and Reproductive Health, Robinson Research Institute, University of Adelaide, Adelaide, Australia.

[180-POS] **Is superimposed pre-eclampsia different from de-novo pre-eclampsia? Franziska M. Pettit**, George J. Mangos, Gregory Davis, Amanda Henry, Mark A. Brown. St George Hospital, Kogarah, Australia.

[183-POS] **A study on clotting factor activity and affecting factors in the gestation and delivery period. Yixin Gao**¹, **JinYing Yang**², Guozheng Zhang², Yanmin Jiang², Huishu Liu². ¹The First Affiliated Hospital, Sun Yat-sen University, Guangzhou, China, ²Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China.

[186-POS] **Role of coagulation factors in placental abruption in the Chinese population. JinYing Yang**, Yixin Gao, Yanmin Jiang, Guozheng Zhang, Huishu Liu. Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China.

[189-POS] **Cardiometabolic risk among women with a prior history of pre-eclampsia. Wing Hung Tam**, Ronald Ching-wan Ma, Risa Ozaki, Terence Tzu-hsi Lao, Eric Kin-hung Liu, Sahota Daljit Singh, Michael Ho-ming Chan, Juliana Chung-ngor Chan. The Chinese University of Hong Kong, Hong Kong, Hong Kong.

[192-POS] **Term and preterm preeclampsia: are there two distinct phenotypes? Amanda Johnson**, Chris Federico, Maga Martinez, Kim-Anh Tran, Elaine Kao, Nina Hooshvar, Daphne Tice, Gary Wu, Cecilia Gambala, Gabriella Pridjian, Chi Dola. Tulane University School of Medicine, New Orleans, LA, USA.

[195-POS] **Maternal outcomes of hypertensive disorders in pregnancy at Korle Bu Teaching Hospital, Accra. Kwame Adu-Bonsaffoh**¹, Samuel A. Obed², Joseph D. Seffah². ¹Korle Bu Teaching Hospital, Accra, Ghana, ²University of Ghana Medical School, Accra, Ghana.

[198-POS] **Hypertensive disease in pregnancy in women with self-reported snoring. Annette J. Robertson**¹, Pamela Johnson², Colin E. Sullivan², Annemarie Hennessy¹. ¹University of Western Sydney, Campbelltown, Australia, ²University of Sydney, Sydney, Australia.

[201-POS] **A case series of persistent and unexplained severe liver dysfunction in late pregnancy. Catherine Brumby**¹, Irena Idel², Rebecca Still², Lee Skeat², Lawrence P. McMahon¹. ¹Eastern Health Clinical School, Monash University, Box Hill, Australia, ²Eastern Health, Box Hill, Australia.

[204-POS] **Is early onset pre-eclampsia worse for mother or baby? Franziska M. Pettit**, George J. Mangos, Gregory Davis, Amanda Henry, Mark A. Brown. St George Hospital, Kogarah, Australia.

[207-POS] **Termination of pregnancy for hypertensive disorders prior to fetal viability in the Netherlands, a retrospective cohort study in 10 Dutch tertiary care centers. Leonoor van Eerden.** VU Medical Center, Amsterdam, Netherlands.

[210-POS] **Acute kidney Injury secondary to hypertension in pregnancy: a big burden. Leila Katz,** Itana Souza, Isabela Coutinho, Melania Mr Amorim. IMIP, Recife, Brazil.

[213-POS] **Fetal sex and pregnancy outcomes in south Australia - a retrospective population study 1981-2011. Petra E. Verburg¹,** Graeme Tucker², Wendy Scheil², Jan Jaap H. Erwich¹, Claire T. Roberts³, Gus A. Dekker³. ¹University Medical Centre Groningen, Groningen, Netherlands, ²Epidemiology Branch SA Health, Adelaide, Australia, ³School of Paediatrics and Reproductive Health, Robinson Research Institute, University of Adelaide, Adelaide, Australia.

[216-POS] **The importance of nephrologist follow-up during and after pregnancy complicated with preeclampsia. Thais A. Facca,** Amelia R. Sabino, Jussara Sato, Eduardo A. Fama, Guilherme S. Junior, Gianna Mastroianni-Kirsztajn, **Nelson Sass.** Federal University of Sao Paulo-UNIFESP, Sao Paulo, Brazil.

[219-POS] **Tacrolimus as the first choice of immunosuppressive therapy in kidney transplantation pregnant did not reduce significantly maternal and perinatal risks. A preliminary analysis. Nelson Sass,** Jussara L. Sato, Thais A. Facca, Vinicius ACC Gomes, Hélio T. Silva Júnior, Maria RS Mesquita, Henri A. Korkes, Leandro G. Oliveira. Universidade Federal de São Paulo, São Paulo, Brazil.

[222-POS] **Impact of gestational hypertension in extremely preterm births. Hironobu Hyodo,** Norihiko Nakazato, MD, Mariko Ikeda, MD, Kanami Higashiue, MD, Chikako Hikosaka, MD, Midori Funakura, MD, Yukari Kambe, MD, Sorahiro Sunagawa, MD, Satoshi Okada, MD, PhD, Yukihiro Fukada, MD, Takahiro Kasamatsu, MD, PhD, Koji Kugu, MD, PhD. Tokyo Metropolitan Bokutoh Hospital, Tokyo, Japan.

[225-POS] **Prevalence of preeclampsia in pre-gestational diabetic pregnancy in Bangladeshi patients. Mobashera Jahan¹,** Md Hasanuzzaman¹, Sharmin Mahbuba¹, Hosne Jahan¹, Sakib Chowdhury¹, Gias U. Ahsan¹, Thomas J. Kuehl², Mohammad N. Uddin². ¹North South University, Dhaka, Bangladesh, ²Scott & White Healthcare/TAMHSC, Temple, TX, USA.

[228-POS]. **A complicated pregnancy with preeclampsia, HELLP syndrome, and thrombotic microangiopathy in a woman with lupus and antiphospholipid syndrome. Amy E. Lin¹,** Nadine Shehata², Heather Reich³, David Barth⁴, Carl Laskin⁵, Stephen Lapinsky⁶, Shital Gandhi¹. ¹Division of Internal Medicine, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada, ²Division of Hematology and Hematological Pathology, Mount Sinai Hospital/University Health Network, University of Toronto, Toronto, ON, Canada, ³Division of Nephrology, University Health Network, University of Toronto, Toronto, ON, Canada, ⁴Division of Hematology and Hematological Pathology, University Health Network, University of Toronto, Toronto, ON, Canada, ⁵Division of Rheumatology, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada, ⁶Interdepartmental Division of Critical Care Medicine, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada.

[231-POS] **Recurrent abruption in hypertensive pregnancy; a case report and historical control study for the mode of delivery after fetal death by placental abruption. Kazutoshi Nakano,** Kana Iwai, Yuki Yamada, Juria Akasaka, Aiko Shigemitsu, Shunsuke Onishi, Katsuhiko Naruse, Hiroshi Kobayashi. Nara Medical University, Kashihara, Nara, Japan.

[234-POS]. **Proposed modification to classification of hypertensive disorders in pregnancy. Kwame Adu-Bonsaffoh.** Korle Bu Teaching Hospital, Accra, Ghana.

[237-POS]. **Postpartum eclampsia - a late presentation to keep in mind. Sara Nascimento, Rui Gomes,** Teresa Matos, Isabel Santos, Fernanda Matos. Hospital Prof. Doutor Fernando Fonseca, EPE, Amadora, Portugal.

[240-POS] **Risk factors influencing the development of hypertension in pregnancy in a convenience cohort.** Luiz Augusto B. Martins, Marcos M. Okido, Marco A. Barbieri, Viviane C. Cardoso, Heloisa Bettiol, Michele S. Machado, Silvana Maria Quintana, **Ricardo C. Cavalli**.
Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto - São Paulo, Brazil.

[243-POS] **Influence of type 2 diabetes mellitus on the pharmacokinetics and placental transfer of nifedipine in hypertensive pregnancy women.** **Ricardo C. Cavalli**¹, Gabriela G. Filgueira¹, Vera L. Lanchote², Osmani O. Filgueira¹, Daniela M. Carvalho¹, Elaine C. Moisés¹, Geraldo Duarte¹. ¹Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto - São Paulo, Brazil, ²School of Pharmaceutical Sciences of Ribeirão Preto - University of São Paulo, Ribeirão Preto - São Paulo, Brazil.

[246-POS] **The preeclampsia registry: depth of information obtained from open-ended queries in an on-line patient questionnaire.** **Alina N. Brewer**¹, Eleni Z. Tsigas¹, Laney Poye¹, Hilary S. Gammill². ¹Preeclampsia Foundation, Melbourne, FL, USA, ²University of Washington, Fred Hutchinson Cancer Research Center, Seattle, WA, USA.

[249-POS] **Proteolytic activation of the epithelial sodium channel ENaC in preeclampsia examined with urinary exosomes.** **Maria Ravn Nielsen**¹, Mie Rytz¹, Britta Frederiksen-Møller¹, Per Svenningsen¹, Rikke M. Zachar¹, Jan Stener Jørgensen², Boye Lagerbon Jensen¹. ¹Institute of Molecular Medicine, Cardiovascular and Renal Research, University of Southern Denmark, Odense, Denmark, ²Odense University Hospital, Odense, Denmark.

[252-POS] **The role of the vasodilator renin angiotensin system (RAAS) in hypertensive pregnancy.** **Franziska M. Pettit**, Julia Spaan, George J. Mangos, Gregory Davis, Amanda Henry, Mark A. Brown. St George Hospital, Kogarah, Australia.

[255-POS] **Maternal 27-hydroxycholesterol (27-OHC) concentrations during the course of pregnancy and in pregnancy pathologies.** **B. Sophia Winkler**¹, Nicola Kleine-Eggebrecht¹, Nicolai Maass¹, Markus Mohaupt², Geneviève Escher², Ulrich Pecks¹. ¹University Hospital of the RWTH, Dept. of O&G, Aachen, Germany, ²Inselspital, University of Bern, Dept. of Clinical Research. Division of Hypertension, Berne, Switzerland.

[258-POS] **Changes in angiotensin I levels in pregnant women with arterial hypertension and in healthy pregnant women during the gestation.** **Natallia Tselikava**. 1st Minsk City Clinical Hospital, Minsk, Belarus.

[261-POS] **Heme oxygenase-1 is not reduced in pre-eclampsia and does not regulate sFlt-1 or soluble endoglin production.** **Tu'uhevaha Kaitu'u-Lino**, Stephen Tong, Kenji Onda, Fiona Brownfoot, Sally Beard, Clare Whitehead, Cathy Cluver, Natalie J. Hannan. Mercy Hospital for Women, University of Melbourne, Heidelberg, Australia.

[264-POS] **Lipidomics and preeclampsia- discerning meaningful patterns.** **Nancy R. Hart**. Peace Health Medical Center, Bellingham, WA, USA.

[267-POS] **Cardiac output and systemic vascular resistance as a target for the intrauterine treatment of fetal growth restriction** Giulia Gagliardi¹, Damiano Lo Presti¹, Grazia Maria Tiralongo¹, Ilaria Pisani¹, Roberta Licia Scala¹, Gian Paolo Novelli², Barbara Vasapollo³, **Herbert Valensise**¹. ¹University of Rome Tor Vergata, Rome, Italy, ²San Sebastiano Martire Hospital, Frascati, Italy, ³AFaR Fatebenefratelli Association for Research, Rome, Italy.

[270-POS] **A possible therapeutic role of nicotine for preeclampsia.** **Kazuya Mimura**, Takuji Tomimatsu, Tadashi Kimura. Osaka University Graduate School of Medicine, Suita, Japan.

[273-POS] **Sulfasalazine reduces the toxins of preeclampsia soluble Flt1 and soluble endoglin and quenches endothelial dysfunction in primary human tissues: a novel potential therapeutic.** **Fiona C. Brownfoot**, Stephen Tong, Natalie Hannan, Roxanne Hastie, Ping Cannon, Tu'uhevaha J. Kaitu'u-Lino. University of Melbourne, Heidelberg, Australia.

[276-POS] **Maternally sequestered polypeptide-based therapeutics to treat preeclampsia. Gene L. Bidwell, III**, Eric M. George. University of Mississippi, Jackson, MS, USA.

[279-POS] **Potential therapeutic value of the heme oxygenase system in preeclampsia. Eric M. George¹**, Joey P. Granger². ¹Univeristy of Mississippi, Jackson, MS, USA, ²Univeristy of Mississippi Medical Center, Jackson, MS, USA.

[282-POS] **Apelin as a novel therapeutic target in preeclampsia. Liliya M. Yamaleyeva¹**, Mark C. Chappell¹, K. Bridget Brosnihan¹, Lauren Anton¹, Nancy Pirro¹, Carolynne McGee¹, David C. Merrill², Heather L. Mertz². ¹Hypertension and Vascular Research Center, Wake Forest School of Medicine, Winston-Salem, NC, USA, ²Department of Obstetrics & Gynecology, Wake Forest School of Medicine, Winston-Salem, NC, USA.

[285-POS] **H.E.L.P. - apheresis in hypertensive disorders of pregnancy. Christine Contini¹**, Brigitte König¹, Filiz Markfeld-Erol², Mirjam Kunze², Stefan Zschiedrich³, Heinrich Prömpeler², Gerhard Pütz¹, Karl Winkler¹. ¹Institute of Clinical Chemistry and Laboratory Medicine, University Medical Center Freiburg, Freiburg, Germany, ²Department of Obstetrics and Gynecology, University Medical Center Freiburg, Freiburg, Germany, ³Renal Division, Department of Medicine, University Medical Center Freiburg, Freiburg, Germany.

[288-POS] **Inhibitor effect of cyclosporin A in an eclampsia-like rat model induced by pentylenetetrazol. Bihui Hu¹**, Huishu Liu¹, Yuanyuan Liu¹, Junjie Bao¹, JinYing Yang¹, Guozheng Zhang¹, Shaun Patrick Brennecke². ¹Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China, ²Department Perinatal Medicine Pregnancy Research Centre and University of Melbourne Department of Obstetrics and Gynaecology, Royal Women's Hospital, Parkville, Victoria, Australia.

[291-POS] **Use of carperitide for postpartum diuresis of severe preeclampsia. Aiko Shigemitsu**, Juria Akasaka, Hiroshi Shigetomi, Taihei Tsunemi, Natsuki Koike, Kana Iwai, Katsuhiko Naruse, Hiroshi Kobayashi. Nara Medical University, Kashihara, Nara, Japan.

[294-POS] **Maternal circulating blood volume and cardiac output in pregnancy induced hypertension. Shoko Makabe¹**, Risa Fujihara¹, Shintaro Makino¹, Katsuo Terui², Hiroyuki Seki², Atsuo Itakura¹, Satoru Takeda¹. ¹Juntendo University Faculty of Medicine, Tokyo, Japan, ²Saitama Medical Center, Saitama, Japan.

[297-POS] **Vascular reactivity and carotid artery intima media thickness (IMT) in women with early and late-onset preeclampsia and chronic hypertension. Toshitaka Mori**, Kazushi Watanabe, Ai Iwasaki, Chiharu Kimura, Akihiko Wakatsuki. Aichi Medical University, Aichi, Japan.

[300-POS] **Diet-induced endothelial stiffness, mechanotransduction, and the mechanism of hypertension. Nancy R. Hart**. Peace Health Medical Center, Bellingham, WA, USA.

[303-POS] **Differentiation between early and late pre-eclampsia by inflammatory cytokines and the association between IL-1 β and left cardiac hypertrophy. Vera T. Borges¹**, Jose C. Peraçoli¹, Mariana Romão¹, Silmeia Zanati¹, Juliane R. Poiati¹, Ingrid C. Weel², Maria Terezinha Peraçoli². ¹Botacatu Medical School, Sao Paulo State University, Botucatu, Brazil, ²Institute of Biosciences, Sao Paulo State University, Botucatu, Brazil.

[306-POS] **Cx43 phosphorylation and the functionality of Cx43 gap junctions are moderated by cyclic nucleotide activity in UAECs and HUVECs. Bryan Ampey, Ian Bird, Ron Magness**. University of Wisconsin, Madison, Madison, WI, USA.

[308-POS] **Snoring during pregnancy: questionnaire results versus objective measurement (AHI). Annette J. Robertson¹**, Pamela Johnson², Colin E. Sullivan², Annemarie Hennessy¹. ¹University of Western Sydney, Campbelltown, Australia, ²University of Sydney, Sydney, Australia.

[310-POS] **Chronic early life stress programs the renin-angiotensin system components on white adipose tissue explants.** Vanessa Tabor¹, Timothy Mahanes¹, **Analia Loria**².

¹University of Kentucky, Lexington, KY, USA, ²Department of Pharmacology and Nutritional Sciences, University of Kentucky, Lexington, KY, USA.

[312-POS] **Enhanced expression of LPA receptors in preeclamptic placenta.** Tatsuya Fujii.

The University of Tokyo, Tokyo, Japan.



Tuesday, October 28, 2014

Poster Session II

4:00 PM - 5:00 PM

[97-POS] **Free fetal hemoglobin and hemoglobin-scavenging proteins are predictive first and second trimester biochemical markers for preeclampsia.** Ulrik D. Anderson¹, Magnus Gram², Basky Thilaganathan³, Bo Åkerström², Stefan R. Hansson¹. ¹Skåne's University Hospital, Malmö, Sweden, ²Lund University, Lund, Sweden, ³St. George's University Hospital, London, United Kingdom.

[100-POS] **Proteinuria in pregnant women- angiogenic, anti-angiogenic and inflammatory factors.** Rahul Negi¹, Vemanamanda Haritha², Nuzhat Aziz², **Athar H. Siddiqui**¹. ¹University of Hyderabad, Hyderabad, India, ²Fernandez Hospital Educational and Research Foundation, Hyderabad, India.

[103-POS] **An online data collection system for preeclampsia research to enable data harmonization and merging across studies, with generation of very large, statistically powerful datasets: the CoLab Database Project.** Leslie Myatt¹, Christopher W. Redman².

¹for the Global Pregnancy CoLaboratory (CoLab), San Antonio, TX, USA, ²for the Global Pregnancy CoLaboratory (CoLab), Oxford, United Kingdom.

[106-POS] **Blood pressure one month after delivery will predict subsequent hypertension five years after delivery.** Asako Mito¹, Naoko Arata¹, Dongmei Qiu², Naoko Sakamoto³, Yukihiro Ohya⁴, Atsuko Murashima¹, Atsuhiko Ichihara⁵, Michihiro Kitagawa¹. ¹Center for Maternal-Fetal-Neonatal and Reproductive Medicine, National Center for Child Health and Development, Tokyo, Japan, ²Department of Drug Dependence Research, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan, ³Department of Public Health, Juntendo University School of Medicine, Tokyo, Japan, ⁴Division of Allergy, Department of Medical Subspecialties, National Center for Child Health and Development, Tokyo, Japan, ⁵Department of Medicine II, Institute of Endocrinology and Hypertension, Tokyo Women's Medical University, Tokyo, Japan.

[109-POS] **Post-partum persistence of abnormal circadian pattern of blood pressure after preeclampsia.** Agnès Ditisheim¹, Belen Ponte¹, Gregoire Wuerzner², Michel Burnier², Michel Boulvain¹, Antoinette Pechère-Bertschi¹. ¹University Hospitals of Geneva, Geneva, Switzerland, ²University Hospitals of Lausanne, Lausanne, Switzerland.

[112-POS] **Increased post-partum prevalence of hypertension and renal dysfunction after preeclampsia.** Agnès Ditisheim¹, Belen Ponte¹, Gregoire Wuerzner², Michel Burnier², Michel Boulvain¹, Antoinette Pechère-Bertschi¹. ¹University Hospitals of Geneva, Geneva, Switzerland, ²University Hospitals of Lausanne, Lausanne, Switzerland.

[115-POS] **Development of vascuCAP™, an MR image analysis system for longitudinal surveillance of cardiovascular disease in women who developed preeclampsia.** James C. Keith, Jr.¹, Andrew J. Buckler¹, James A. Hamilton². ¹Elucid Biomedical Imaging, Inc, Wenham, MA, USA, ²Boston University School of Medicine, Boston, MA, USA.

[118-POS] **Validation of a maternal recall questionnaire for pregnancy complications associated with increased future risk for cardiovascular disease.** Ebony B. Carter¹, Jennifer J. Stuart², Leslie V. Farland³, Janet Rich-Edwards², Chloe Zera⁴, Thomas F. McElrath⁴, Ellen W. Seely⁴.
¹Washington University in St. Louis, St. Louis, MO, USA, ²Brigham and Women's Hospital/Harvard School of Public Health, Boston, MA, USA, ³Harvard School of Public Health, Boston, MA, USA, ⁴Brigham and Women's Hospital, Boston, MA, USA.

[121-POS] **Maternal blood pressure as a risk factor of hypertension and hyperlipidemia in later life.** Kanji Tanaka, Maika Oishi, Hitomi Chiba, Kaori Iino, Hideki Mizunuma. Hirosaki University Hospital, Hirosaki, Japan.

[124-POS] **Mothers with malformed offspring: is their long-term cardiovascular mortality affected? A population based registry study in Norway.** Kari Klungsoyr¹, Lisa A. DeRoo¹, Sonia Hernandez-Diaz², Nils-Halvdan Morken¹, Rolv Skjaerven¹. ¹University of Bergen, Bergen, Norway, ²Harvard School of Public Health, Boston, MA, USA.

[127-POS] **Educational level and maternal long-term risk of cardiovascular mortality by number of births.** Frode Halland¹, Lisa deRoo², Nils-Halvdan Morken¹, Kari Klungsoyr³, Allen J. Wilcox⁴, Rolv Skjaerven³. ¹University of Bergen, Haukeland University Hospital, Bergen, Norway, ²University of Bergen, Bergen, Norway, ³University of Bergen, Institute of Public Health, Bergen, Norway, ⁴NIEHS/NIH, Durham, NC, USA.

[130-POS] **Placental abruption and long-term maternal cardiovascular disease mortality: a population-based registry study in Norway and Sweden.** Lisa A. DeRoo¹, Rolv Skjaerven¹, Allen J. Wilcox², Kari Klungsoyr¹, Anna-Karin Wikstrom³, Nils-Halvdan Morken¹, Sven Cnattingius³.
¹University of Bergen, Bergen, Norway, ²National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA, ³Karolinska Institute, Stockholm, Sweden.

[133-POS] **Cardiovascular disease among women with former severe preeclampsia-presence and possible risk factors.** Ellika G. Andolf, Charlotte Jacobaeus, Ida Nord. Clinical Sciences Karolinska Institutet Danderyd Hospital, Stockholm, Sweden.

[136-POS] **Postpartum evaluation of blood pressure and proteinuria in women with severe preeclampsia.** Roberto A. Costa, Sr., Vanessa dos Santos Silva, Dayana Bitencourt Dias, Rocha Pires da Rocha, Luis Cuadrado Martin, José Carlos Peraçoli. São Paulo State University, Botucatu-SP, Brazil.

[139-POS]. **Preeclampsia and arterial stiffness - a 10-year follow up of previous preeclamptic women.** Martin Christensen¹, Camilla J.s. Kronborg², Ulla B. Knudsen³. ¹Clinical Research Unit, Randers Regional Hospital, Randers, Denmark, ²Department of Oncology, Aarhus University Hospital, Aarhus, Denmark, ³Department of Obstetrics and Gynaecology, Aarhus University Hospital, Aarhus, Denmark.

[142-POS] **Risk of cardiovascular disease in Japanese women with a history of pregnancy induced hypertension.** Kazushi Watanabe, Chiharu Kimura, Ai Iwasaki, Toshitaka Mori, Hiroshi Matsushita, Koichi Shinohara, Akihiko Wakatsuki. Aichi Medical University School of Medicine, Nagakute, Japan.

[145-POS] **Women with preeclampsia in their first pregnancy: risk for cardiovascular disease in unaffected sisters?** Rolv Skjaerven¹, Lisa deRoo¹, Kari Klungsoyr¹, Nils H. Morken¹, Janet Rich-

Edwards², Allen J. Wilcox³, Bjorn E. Vikse¹. ¹University of Bergen, Bergen, Norway, ²Harvard University, Boston, MA, USA, ³National Institute of Health, Research Triangle Park, NC, USA.

[148-POS] **Obesity in women who had preeclampsia (PE) in previous pregnancy remains as a cardiovascular risk: a first look. Nelson Sass¹, Dayana C. Ferreira², Marcela M. A. Almeida², Thais A. Facca¹, Miriam RF Silveira², Elisa Chalem², Henri A. Korke¹, Leandro G. Oliveira¹.** ¹Universidade Federal de São Paulo, São Paulo, Brazil, ²Maternidade Escola de Vila Nova Cachoeirinha, São Paulo, Brazil.

[151-POS] **Maternal mortality in Brazil and proportion to hypertensive disorders: a trend of stagnation. Nelson Sass¹, Miriam RF Silveira², Leandro G. Oliveira¹, Thais A. Facca¹, Jussara L. Sato¹, Henri A. Korke¹, Maria RS Mesquita¹.** ¹Universidade Federal de São Paulo, São Paulo, Brazil, ²Maternidade Escola de Vila Nova Cachoeirinha, São Paulo, Brazil.

[154-POS] **Changes in blood pressure during pregnancy is associated with hypertension in later life in Japanese women with or without pregnancy induced hypertension. Chiharu Kimura, Kazushi Watanabe, Ai Iwasaki, Toshitaka Mori, Hiroshi Matsushita, Koichi Shinohara, Akihiko Wakatsuki.** Aichi Medical University, Nagakute, Japan.

[157-POS] **Silibinin modulates monocytes M1/M2 profile in women with preeclampsia. Camila F. Bannwart-Castro¹, Jose C. Peracoli¹, Ingrid C. Weel², Mariana Romao², Leonardo T L Medeiros¹, Leandro G. Oliveira¹, Maria T. Peracoli².** ¹Botucatu Medical School, Sao Paulo State University, Botucatu, SP, Brazil, ²Institute of Biosciences, Sao Paulo State University, Botucatu, SP, Brazil.

[160-POS] **Spiral artery remodeling by extravillous trophoblast is inadequate and associated with attenuated regional infiltration of macrophages, NK and regulatory T cells in the decidua basalis of oocyte donation pregnancies. Yasushi Nakabayashi¹, Akitoshi Nakashima², Tomoko Shima², Hideki Sakamoto¹, Tomoko Adachi¹, Takashi Okai¹, Masao Nakabayashi¹, Shigeru Saito².** ¹Maternal and Child Health Center Aikku Hospital, Tokyo, Japan, ²University of Toyama, Toyama, Japan.

[163-POS] **Altered T cell populations in the fetal thymus and spleen in pre-eclampsia: a cohort study. David P. Eviston¹, Michael Peek², Peter Hsu², Brigitte Santner-Nanan², Mingjin Hu², Jane Dahlstrom³, Susan Arbuckle⁴, Ralph Nanan².** ¹The University of Sydney, Boonah, Australia, ²The University of Sydney, Kingswood, Australia, ³Canberra Hospital, Canberra, Australia, ⁴The Children's Hospital at Westmead, Westmead, Australia.

[166-POS] **Urine levels of MMP2, MMP9, NGLA, and KIM-1 are significantly increased in women with severe preeclampsia. Yuping Wang, Yang Gu, Susan Loyd, Lynn J. Groome.** LSUHSC-Shreveport, Shreveport, LA, USA.

[169-POS] **Elevated C-reactive protein contributes to preeclampsia via kinin signaling pathways. Nicholas Parchim, Wei Wang, Takayuki Iriyama, Olaide A. Ashimi, Chen Liu, Athar H. Siddiqui, Sean Blackwell, Baha Sibai, Rodney E. Kellems, Yang Xia.** University of Texas Health Science Center, Houston, TX, USA.

[172-POS] **Comparative expression profiling of endoplasmic reticulum aminopeptidase 2 and human leukocyte antigen-C expression in choriocarcinoma cell lines. Eun D. Lee¹, Samone Brockett¹, DaShaunda Hilliard², Maria E. Teves¹, Ronald Ramus¹, Jerome F. Strauss, III¹.** ¹Virginia Commonwealth University, Richmond, VA, USA, ²Eastern Virginia Medical School, Norfolk, VA, USA.

[175-POS] **Elevated serum inflammatory markers and preeclampsia: results from a large national cohort study. Brandie D. Taylor¹, Gong Tang², Roberta B. Ness³, Jørn Olsen⁴, David M. Hougaard⁵, Kristin Skogstrand⁵, James M. Roberts⁶, Catherine Haggerty².** ¹Texas A&M Health Science Center, College Station, TX, USA, ²University of Pittsburgh, Pittsburgh, PA, USA, ³University of Texas, Houston, TX, USA, ⁴Aarhus University, Aarhus, Denmark, ⁵Statens Serum Institute, Copenhagen, Denmark, ⁶Magee Womens Research Institute, Pittsburgh, PA, USA.

[178-POS] **Maternal and placental leptin levels are increased in patients with pre-eclampsia.** **Marta R. Hentschke**, Adriana B. Comparsi, Luiza S. Lucas, Fernando Sontag, Giovanni Gadonski, Letícia G. Paula, Carlos E. Poli-de-Figueiredo, Bartira E. Pinheiro da Costa. Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil.

[181-POS] **Association between pro-inflammatory cytokines and autophagy induction by sera from women with preeclampsia.** **Mariana L. Matias**¹, Maria T. Peracoli¹, Tomi T. Kanninen², Giovanni Sisti², Mariana Romao¹, Ingrid C. Weel¹, Jose C. Peracoli¹, Ann M. Bongiovanni², Steven S. Witkin².
¹Institute of Biosciences, Sao Paulo State University, Botucatu, Brazil, ²Division of Immunology and Infectious Diseases, Weill Cornell Medical College, New York, NY, USA.

[184-POS] **NLRP3 inflammasome induced by uric acid in monocytes from pregnant women with preeclampsia.** **Mariana L. Matias**¹, Mariana Romao², Ingrid C. Weel², Priscila R. Nunes², Vera T M Borges¹, Leandro G. de Oliveira¹, Joao P. Araujo Jr², Jose C. Peracoli¹, Maria T S Peracoli².
¹Botucatu Medical School, Botucatu, Brazil, ²Institute of Biosciences São Paulo State University, Botucatu, Brazil.

[187-POS] **Cyclosporin A attenuate inflammatory response on low-dose endotoxin induced preeclampsia in rat.** **Bihui Hu**¹, Huishu Liu¹, Qian Huang¹, JinYing Yang¹, Yanmin Jiang¹, Junjie Bao¹, Shaun Patrick Brennecke². ¹Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China, ²Department Perinatal Medicine Pregnancy Research Centre and University of Melbourne Department of Obstetrics and Gynaecology, Royal Women's Hospital, Parkville, Victoria, Australia.

[190-POS] **Association between adenosine deaminase, uric acid and inflammatory cytokines in women with preeclampsia.** Vanessa S I Giorgi¹, Vera T m Borges², Steven S. Witkin³, Camila F. Bannwart-Castro¹, Jose C. Peracoli², **Maria T s Peracoli**¹. ¹Institute of Biosciences, Sao Paulo State University, Botucatu, SP, Brazil, ²Botucatu Medical School, Sao Paulo State University, Botucatu, SP, Brazil, ³Weill Medical College of Cornell University, New York, NY, USA.

[193-POS] **Impact of maternal body mass index and fetal sex on Th1/Th2 cytokine balance in preeclampsia.** **Arihiro Shiozaki**¹, Shunji Suzuki², Katsuhiko Naruse³, Sho Soeda¹, Yousuke Ono¹, Azusa Sameshima¹, Noriko Yoneda¹, Mika Ito¹, Satoshi Yoneda¹, Hiroshi Kobayashi³, Shigeru Saito¹.
¹University of Toyama, Toyama, Japan, ²Japan Red Cross Katsushika Maternity Hospital, Tokyo, Japan, ³Nara Medical University, Kashihara, Japan.

[196-POS] **The expression of human leucocyte antigen-E (HLA-E) and natural killer cell (NK cell) in preeclampsia.** Sri Sulistyowati, Sr.¹, Sahat Siburian¹, Supriyadi Hari¹, **Erry G. Dachlan, Sr.**²
¹Dept.of Obs&Gyn MedicalFac. Sebelas Maret University, Dr Moewardi General Hospital, Surakarta, Indonesia, ²Dr. Soetomo General Hospital Surabaya Indonesia, Surabaya, Indonesia.

[199-POS] **Early intervention on increasing uterine artery resistance to prevent preeclampsia.** Agus Sulistyono, Sr., Rachmi Rachmi, Muhammad Ilham Aldika Akbar, Budi Wicaksono, Ernawati Ernawati, Aditiawarman Aditiawarman, Sr., Hermanto Tri Joewono, Sr., **Erry G. Dachlan, Sr.** Dr. Soetomo General Hospital Surabaya Indonesia, Surabaya, Indonesia.

[202-POS] **Community perceptions of pre-eclampsia in Ogun State, Nigeria: a qualitative Study.** **David O. Akeju**¹, Marianne Vidler², Olufemi T. Oladapo³, Diane Sawchuck², Rahat Qureshi⁴, Peter von Dadelszen², Olalekan O. Adetoro³, Kayode Dada⁵. ¹Department of Sociology, University of Lagos, Lagos, Nigeria, ²Department of Obstetrics and Gynaecology, and the Child and Family Research Unit, University of British Columbia, Vancouver, BC, Canada, ³Department of Fetal and Maternal Health, Olabisi Onabanjo University, Sagamu, Nigeria, ⁴Division of Women and Child Health, Aga Khan University, Karachi, Pakistan, ⁵Centre for Research in Reproductive Health, Sagamu, Nigeria.

[205-POS] **Methodology for assessing the feasibility of community level interventions for pre-eclampsia in South Asian and African contexts.** **Asif R. Khowaja**. University of British Columbia, Vancouver, Canada, Vancouver, BC, Canada.

[208-POS] **An accurate semi-automated oscillometric blood pressure device for use in pregnancy, including pre-eclampsia, in a Low- and Middle-Income Country population: the Microlife 3AS1-2.** Hannah L. Nathan, Annemarie de Greeff, Natasha L. Hezelgrave, Kate E. Duhig, Lucy C. Chappell, Andrew H. Shennan. King's College London, London, United Kingdom.

[211-POS] **Community perceptions of pre-eclampsia in Karnataka State, India: a qualitative study.** Marianne Vidler¹, Umesh Charanthimath², Geetanjali Katageri³, Umesh Ramadurg⁴, Chandrashekar Karadiguddi², Diane Sawchuck¹, Rahat Qureshi⁵, Shafik Dharamsi⁶, Peter von Dadelszen¹, Richard Derman⁷, Shivaprasad Goudar², Ashalata Mallapur³, Mrutyunjaya Bellad².

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⁴Department of Community Medicine, S Nijalingappa Medical College, Bagalkot, India, ⁵Division of Women and Child Health, Aga Khan University, Karachi, Pakistan, ⁶Department of Family Practice, Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada, ⁷Department of Obstetrics and Gynecology, Christiana Care Health System & Jefferson Medical College, Newark, DE, USA.

[214-POS] **Characteristic of inflammatory markers and nutritional profile of preeclampsia patients in Indonesia.** Martina Hutabarat, Noroyono Wibowo. Fetomaternal Division University of Indonesia, Jakarta, Indonesia.

[217-POS] **Epidemiological and perinatal profile of patients with preeclampsia reference at Guilherme Alvaro Hospital, Santos/SP – Brazil.** Beatriz Vaz Domingues Moreno¹, Júlia Mayumi Gregorio¹, Marcelo Costa Vilella dos Reis¹, Marina Estornio¹, Adriana Gomes de Lima¹, Ana Bárbara Bordignon Rodrigues Menegazzo¹, Claudia Valéria Chagas de Siqueira¹, Ivete Losada Alves Trotti², Eder Viana de Souza³, **Francisco Lázaro Pereira Sousa**¹, José Marcelo Garcia¹, Rogério Gomes dos Reis Guidoni¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Guilherme Álvaro Hospital, Santos, Brazil, ³Amparo Maternal Hospital, São Paulo, Brazil.

[220-POS] **Contribution of hypertensive disorders for maternal death in the Santos region.**

Luciana Ferreira Borbinoski¹, Natália Custódio Almeida Akamine¹, Indiamara Lorenzoni Santos¹, Miriam de Almeida Andrade¹, Maria Rita de Souza Mesquita², Paula Covas Borge Calipo¹, Stephany Risnic Chvaicer³, Natine Fuzihara Rosa³, Ana Paula de Almeida Righi³, Bruno Rafael Zaher Muniz Pontes³, José Marcelo Garcia³, Roberto Magliano de Moraes⁴, Lucas Barbosa da Silva⁵, **Francisco Lázaro Pereira Sousa**³.

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⁴Universidade Federal da Paraíba, Paraíba, Brazil, ⁵Hospital Sofia Feldman, Belo Horizonte, Brazil.

[223-POS] **Profile and distribution of hypertensive syndromes according to criteria of maternal morbidity and near-miss.** Natalia Oliveira Trajano da Silva¹, Lívia Yumi Maruoka¹, Malek Mounir Imad¹, Lucas de Sena Leme¹, Stefanie Hitome Sashida¹, Vitor Domingues Alonso Neto¹, Jussara Leiko Sato², Newton Tomio Miyashita¹, Maria Rita de Souza Mesquita², Roberto Magliano de Moraes³, Eder Viana de Souza⁴, **Francisco Lázaro Pereira Sousa**¹.

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[226-POS] **The epidemiology of preeclampsia in a reference hospital.** Ana Carolina Bergamo¹, Bárbara Bevilacqua Zeiger¹, Daniel Henrique Braga Vidal¹, Vivian Macedo Gomes Marçal¹, Maria Luisa Diaz Cunha David¹, Adriano Catapreta Lugon Ribeiro¹, Bruno Rafael Zaher Muniz Pontes¹, Kátia de Cássia Dom Bosco¹, Osmar Alves de Moura¹, José Marcelo Garcia¹, Luciana Ferreira Bordinoski², Sérgio Floriano de Toledo¹, **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Secretary of State of Health, São Paulo, Brazil.

[229-POS] **Maternal and perinatal results of vaginal delivery on pregnant women with chronic arterial hypertension.** Maria Luisa Diaz Cunha David¹, Veridiana Andrade Pires de Campos¹, Paula Seba Rahe¹, Michelle Louise Rodrigues Barbosa da Silva¹, Fernanda Marques¹, Vivian Macedo Gomes Marçal¹, José Marcelo Garcia¹, Maria Renata Lopes Natale Paltronieri¹, Maurício Saito², Sérgio Floriano de Toledo¹,

Rogério Gomes dos Reis Guidoni¹, **Francisco Lázaro Pereira Sousa**¹. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Guilherme Álvaro Hospital, Santos, Brazil.

[232-POS] **Maternal and perinatal outcomes of pregnancies complicated by chronic hypertension followed at a referral high risk outpatient clinic in Brazil.** **Maya Tinos Moreno**, Anita Cassoli Cortez, Fernanda Cavichioli, Mary Angela Parpinelli, Fernanda Garanhan Surita, Maria Laura Costa. State University of Campinas, Campinas, Brazil.

[235-POS] **CRADLE: community blood pressure measurement in rural Africa and Asia: the detection of underlying pre-eclampsia and shock.** Natasha L. Hezelgrave, **Hannah L. Nathan**, Kate E. Duhig, Paul T. Seed, Andrew H. Shennan. King's College London, London, United Kingdom.

[238-POS] **Oral antihypertensive regimens for management of severe hypertension in pregnancy: results from a pilot study in India.** **Thomas Easterling**¹, Hillary Bracken², Shuchita Mundle³, Laura Magee⁴, Peter vonDadelszen⁴, Beverly Winikoff². ¹University of Washington, Seattle, WA, USA, ²Gynuity Health Projects, New York, NY, USA, ³Government Medical College, Nagpur, India, ⁴University of British Columbia, Vancouver, BC, Canada.

[241-POS] **Community perceptions of pre-eclampsia in Sindh, Pakistan: a qualitative study.** **Asif R. Khowaja**¹, Rahat N. Qureshi¹, Sana Sheikh¹, Shujaat Zaidi¹, Rehana Salam¹, Diane Sawchuck², Marianne Vidler³, Peter von Dadelszen², Zulfiqar Bhutta¹. ¹Division of Women & Child Health, Aga Khan University, Karachi, Pakistan, ²Department of Obstetrics and Gynaecology, and the Child and Family Research Unit, University of British Columbia, VANCOUVER, BC, Canada, ³Department of Obstetrics and Gynecology, Child and Family Research Institute, University of British Columbia, Canada, Vancouver, BC, Canada.

[244-POS] **Development of a commodity security framework for life-saving maternal health commodities.** **Tabassum Firoz**¹, David O'Brien², Ellie Bahirai², Laurentiu Stan². ¹University of British Columbia, Vancouver, BC, Canada, ²John Snow Inc., Virginia, VA, USA.

[247-POS] **Preliminary external validation of the fullPIERS risk prediction model for women with pre-eclampsia using the miniPIERS dataset.** **Ugochinyere Vivian Ukah**. University of British Columbia, Vancouver, BC, Canada.

[250-POS] **Pregnancy outcomes of massively obese hypertensive gravidas..** **David G. Chaffin, Jr.**, Jessica Granger. Marshall University, Huntington, WV, USA.

[253-POS] **Angiotensin I levels influence on platelets function in pregnant women with arterial hypertension.** **Natallia Tselikava**. 1st Minsk City Clinical Hospital, Minsk, Belarus.

[256-POS] **Vitamin D restores functional abilities of fetal endothelial progenitor cells from pregnancies complicated by preeclampsia.** **Lars Brodowski**¹, Jennifer Burlakov¹, Carl A. Hubel², Frauke von Versen-Höyneck¹. ¹Hannover Medical School, Hannover, Germany, ²Magee Womens Research Institute and Foundation, Pittsburgh, PA, USA.

[259-POS] **Elevated ransglutaminase promotes the production of AT1-AA in preeclampsia.** **Renna Luo**¹, Chen Liu¹, Serra Elliott², Wei Wang¹, Patrick Daugherty², Rodney E. Kellems¹, Yang Xia¹. ¹University of Texas Health Science Center, Houston, TX, USA, ²Department of Chemical Engineering, University of California, Santa Barbara, CA, USA.

[262-POS] **Alterations in placental eicosanoid production contribute to impaired vascular remodeling in preeclampsia.** Nicole Lee, Shauna-Kay Spencer, Birdie B.d. LaMarca, **Sydney Murphy**. University of Mississippi Medical Center, Jackson, MS, USA.

[265-POS] **Hypoxic human primary extravillous trophoblast alters urokinase-type plasminogen activator (uPA) system via hypoxia-induced factor (HIF).** **Natsuki Koike**, Taihei Tsunemi, Juria

Akasaka, Aiko Shigemitsu, Katsuhiko Naruse, Hiroshi Kobayashi. Nara Medical University, Kashihara, Nara, Japan.

[268-POS] **Placental expression of the endocannabinoid system in preeclampsia. Attila Molvarec¹**, Gergely Fügedi¹, Miklós Molnár², Júlia Schönléber¹, Ilona Kovalszky³, János Rigó, Jr.¹.
¹First Department of Obstetrics and Gynecology, Semmelweis University, Budapest, Hungary, ²Institute of Pathophysiology, Semmelweis University, Budapest, Hungary, ³First Department of Pathology and Experimental Cancer Research, Semmelweis University, Budapest, Hungary.

[271-POS] **Glucocerebrosidase expression and activity in human placenta from normotensive and preeclamptic pregnancies. Jiska M. Jebbink¹**, Rolf G. Boot², Remco Keijser², Perry D. Moerland², Jan Aten², Geertruda J. Veenboer², Madelon van Wely², Maarten Buimer², Emiel Ver Loren van Themaat², Johannes M. Aerts², Joris A. van der Post², Gijs B. Afink², Carrie Ris-Stalpers².
¹Onze Lieve Vrouwe Gasthuis & Academic Medical Center, Amsterdam, Netherlands, ²Academic Medical Center, Amsterdam, Netherlands.

[274-POS] **Placental apoptotic signaling is augmented in preeclampsia: an adverse impact on the offspring. Mary Antonette M. Co**, Dean Leonard, Lena Perger, Vinayak P. Govande, Madhava R. Beeram, Richard O. Jones, Steven R. Allen, MD, Thomas J. Kuehl, **Mohammad N. Uddin**. Scott & White Healthcare/TAMHSC, Temple, TX, USA.

[277-POS] **Translational studies on soluble (pro)renin receptor and placental (pro)renin receptor in normal and preeclamptic pregnancy. Jamie Stucker**, Dean Leonard, Jessica Thomason, Lena Perger, Steven R. Allen, Madhava R. Beeram, Thomas J. Kuehl, **Mohammad N. Uddin**. Scott & White Healthcare/TAMHSC, Temple, TX, USA.

[280-POS] **Prostasin and its regulatory proteins in human placentas from pregnant women with preeclampsia and healthy pregnant controls. Britta Frederiksen-Møller¹**, Jan Stener Jørgensen², Lotte Katrine Vogel³, Boye Lagerbon Jensen⁴. ¹Odense University Hospital and University of Southern Denmark, Odense, Denmark, ²Odense University Hospital, Odense, Denmark, ³Department of Cellular and Molecular Medicine, University of Copenhagen, Denmark, Copenhagen, Denmark, ⁴Institute of Molecular Medicine, Department of Cardiovascular and Renal Research, University of Southern Denmark, Odense, Denmark.

[283-POS] **Placental expression of heat shock transcription factor 1 in healthy pregnancy and pre-eclampsia. Akrem Abdulsid¹**, Kevin Hanretty², Fiona Lyall¹. ¹Medical Genetics, Glasgow, United Kingdom, ²University of Glasgow Medical School, Glasgow, United Kingdom.

[286-POS] **Temporal and spatial expression profile of Noggin in human placenta and its ability to stimulate placenta growth factor. Wijdan Y. Abu Al-Kheir**. Aston University, Birmingham, United Kingdom.

[289-POS] **Placental heparan sulphate glycosaminoglycans in pre-eclampsia. Tilini Gunatillake¹**, Amy Chui¹, Megan Lord², John Whitelock², Padma Murthi³, Vera Ignatovic⁴, Paul Monagle⁴, Shaun Brennecke⁵, Joanne Said¹. ¹Northwest Academic Centre, The University of Melbourne, Sunshine Hospital, St Albans, Australia, ²Graduate School of Biomedical Engineering, University of New South Wales, Sydney, Australia, ³Northwest Academic Centre, The University of Melbourne, Melbourne, Australia, ⁴Murdoch Children's Research Institute and Department of Clinical Haematology and Department of Paediatrics, The Royal Children's Hospital and The University of Melbourne, Melbourne, Australia, ⁵Department of Perinatal Medicine, Pregnancy Research Centre, The Royal Women's Hospital and Department of Obstetrics and Gynaecology, The University of Melbourne, Melbourne, Australia.

[292-POS] **TLR expression in the placenta during labour and pre-eclampsia. Akrem Abdulsid**, Alexander Fletcher, Fiona Lyall. Medical Genetics, Glasgow, United Kingdom.

[295-POS] **More than baby fever: aseptic recurrent febrile reaction in pregnancy, a new form of placental intolerance? Chelsea Elwood**, Dena Bloomenthal, Susan Purkiss. UBC, Vancouver, BC, Canada.

[298-POS] **Economic assessment of preeclampsia : screening, diagnosis, treatment options, and long term outcomes - a systematic review.** Neily Zakiyah¹, Antoinette D. van Asselt¹, **Philip N. Baker**², Maarten J. Postma¹. ¹University of Groningen, Dept of Pharmacy, Unit PharmacoEpidemiology and PharmacoEconomics - PE2, Groningen, Netherlands, ²Institute of Science & Technology in Medicine, Keele University, Keele, United Kingdom.

[301-POS] **Effect of folic acid supplementation in pregnancy on preeclampsia - Folic Acid Clinical Trial (FACT).** Shi Wu Wen, **Laura Gaudet**, Josee Champagne, Ruth Rennicks White, Natalie Rybak, Mark Walker. Ottawa Hospital Research Institute, Ottawa, ON, Canada.

[304-POS] **Use of oral magnesium to prevent gestational hypertension.** **Ragnar Rylander**¹, Maria Bullarbo². ¹BioFact Environmental Health Research Center, Lerum, Sweden, ²University of Gothenburg, Gothenburg, Sweden.

[307-POS] **Pregnancy and magnesium.** **Ragnar Rylander**. BioFact Environmental Health Research Center, Lerum, Sweden.

[309-POS] **Comparison of gene expression transcription factors STOX1 (Storkhead Box 1) as a biomarker of preeclampsia.** **Mukhamad Nooryanto**. University of Brawijaya, Malang, Indonesia.

[311-POS] **Potential role of Klotho protein in the pathophysiology of preeclampsia.** **Monia Cecati**, Stefano R. Giannubilo, Alessandra Corradetti, Monica Emanuelli, Franca Saccucci, Andrea L. Tranquilli. Universita' Politecnica delle Marche, Ancona, Italy.

[313-POS] **Mechanisms of renal potassium retention during late pregnancy.** **Crystal West**, Emily Qiu, Chris Baylis, Michelle Gumz. University of Florida, Gainesville, FL, USA.

[314-POS] **Despite high aldosterone (Aldo), the distal tubule sodium chloride co-transporter, NCC, is not increased in pregnant rats.** **Crystal West**¹, Emily Qiu¹, Alicia McDonough², Shyama Masilamani³, Jill Verlander¹, Chris Baylis¹. ¹University of Florida, Gainesville, FL, USA, ²University of Southern California, Los Angeles, CA, USA, ³Virginia Commonwealth University, Richmond, VA, USA.

[315-POS] **The implacable force theory of eclampsia.** **Narayan deVera**. University of Pennsylvania, Van Nuys, CA, USA.

[316-POS] **Cytomegalovirus dysregulation of HDAC6 function in cytotrophoblast invasion.** **Kenneth F. Swan**, MaryBeth Ferris, Gabriella Pridjian, Deborah E. Sullivan, PhD, Cindy A. Morris. Tulane University School of Medicine, New Orleans, LA, USA.

[317-POS] **In vitro model of placental trophoblast differentiation and cytomegalovirus infection.** **Kenneth F. Swan**, MaryBeth Ferris, Gabriella Pridjian, Cindy A. Morris, Deborah E. Sullivan. Tulane University School of Medicine, New Orleans, LA, USA.



[98-POS] **Caffeine improves endothelial-dependent vascular function in the reduced uterine placental perfusion (RUPP) model of preeclampsia.** **Brittany A. Balsler**¹, Jacqueline Novak², Robert W. Powers³, Rolando J. Ramirez¹. ¹University Of Akron, Akron, OH, USA, ²Walsh University, North Canton, OH, USA, ³University Of Pittsburgh School of Medicine, Pittsburgh, OH, USA.

[101-POS] **A preeclampsia mouse model using CD40L gene delivery affects immune reaction.** **Keiichi Matsubara**, Yuko Matsubara, Yuka Uchikura, Miki Mori, Akihiro Nawa, M.D., Ph.D. Ehime University, SOM, Toon, Ehime, Japan.

[104-POS] **Acute Blood Pressure response to antihypertensives after experimental preeclampsia.** **Suzanne J. Pears**¹, Annemarie Hennessy², Shirlene Lim³, Katrina Chau¹, Kristen Yeung², Scott Heffernan⁴, Angela Makris⁵. ¹University of Sydney, Sydney, Australia, ²University of Western Sydney, Sydney, Australia, ³Heart Research Institute, Sydney, Australia, ⁴Royal Prince Alfred Hospital, Sydney, Australia, ⁵Liverpool Hospital, Sydney, Australia.

[107-POS] **Cellular and subcellular localization of angiotensin AT1 and AT2 receptors in guinea-pig utero-placental units along pregnancy.** **Stephanie Acuna**, Gloria Valdes. Pontificia Universidad Catolica, Santiago, Chile.

[110-POS] **Salt sensitivity in the offspring of experimental preeclamptic and normotensive baboon pregnancies.** **Kristen R. Yeung**¹, Shirlene M. Lim², Scott Heffernan³, Suzanne Pears⁴, Joanne M. Lind¹, Annemarie Hennessy¹, Angela Makris⁵. ¹University of Western Sydney, Sydney, Australia, ²The Heart Research Institute, Sydney, Australia, ³Royal Prince Alfred Hospital, Sydney, Australia, ⁴University of Sydney, Sydney, Australia, ⁵Liverpool Hospital, Sydney, Australia.

[113-POS] **Implication of renal angiotensin-(1-7) axis in the development of preeclampsia in previously hypertensive mice.** **Aida Kasaei Roodsari**¹, Dominique S. Genest², Stéphanie Falcao², Catherine Michel², Sonia Kajla², Jolanta Gutkowska³, Julie L. Lavoie, PhD⁴. ¹University of Montreal, CHUM Research Center, Montreal, QC, Canada, ²CHUM Research Center, Montreal, QC, Canada, ³CHUM Research Center, Montreal Diabetic Research Center, Montreal, QC, Canada, ⁴Department of Kinesiology and Medicine, University of Montreal, CHUM Research Center, Montreal Diabetic Research Center, Montreal, QC, Canada.

[116-POS] **RAS transgenic mouse model recapitulates pathophysiology of preeclampsia and renal injury may be mediated by VEGF.** **Jeffrey M. Denney**¹, Cynthia E. Shaw², Annette Gendron-Fitzpatrick², Ian Bird², Dinesh Shah². ¹Wake Forest University, School of Medicine, Winston Salem, NC, USA, ²University of Wisconsin, School of Medicine and Public Health, Madison, WI, USA.

[119-POS] **ADMA is lower and endothelial-dependent vascular function is improved in hypercholesterolemia with acute caffeine treatment.** **Robert Powers**¹, Paul Kukunas¹, Marcia Gallaher². ¹University of Pittsburgh, Pittsburgh, PA, USA, ²Magee-Womens Research Institute, Pittsburgh, PA, USA.

[122-POS] **Increased expression of aquaporin 4 and 9 in eclampsia-like rat model.** **Qian Huang**¹, **Huishu Liu**¹, Junjie Bao¹, Guozheng Zhang¹, Bihui Hu, Please Select¹, Shaun Patrick Brennecke². ¹Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China, ²Department Perinatal Medicine Pregnancy Research Centre and University of Melbourne Department of Obstetrics and Gynaecology, Royal Women's Hospital, Parkville, Victoria, Australia.

[125-POS] **Nrf2 deficiency interferes with trophoblast differentiation and affects the placental development in mice.** **Nisreen Kweider**¹, Jessica Lambert¹, Thomas Pufe¹, Christoph Jan Wruck¹, Werner Rath². ¹Department of Anatomy and Cell Biology, RWTH Aachen University, Aachen, Germany, ²Obstetrics and Gynaecology, University Hospital of the RWTH, Aachen, Germany, Aachen, Germany.

[128-POS] **Curcumin decreased level of pro-inflammatory cytokines in monocyte cultures exposed to preeclamptic plasma by affecting the transcription factors NF-kB and PPAR-γ.** Bambang Rahardjo. University of Brawijaya, Malang, Indonesia.

[131-POS] **Low density lipoprotein composition during normal pregnancy and in preeclampsia.** Karl Winkler¹, Christine Contini¹, Ulrich Pecks², Michael M. Hoffmann¹, Gerhard Pütz¹. ¹Institute of Clinical Chemistry and Laboratory Medicine, University Medical Center Freiburg, Freiburg, Germany, ²Department of Obstetrics and Gynecology, University Hospital of the RWTH Aachen, Aachen, Germany.

[134-POS] **Cell free DNA in Portuguese preeclamptic pregnancy.** Cristina Catarino¹, Susana Coimbra², Diana Gomes³, Luís Belo¹, Susana Rocha¹, **Manuel Bicho**⁴, Irene Rebelo¹, Alice Santos-Silva¹. ¹Laboratório de Bioquímica, Departamento de Ciências Biológicas, Faculdade de Farmácia (FFUP), Universidade do Porto; Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto, Portugal, Porto, Portugal, ²Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto; CESPU, Instituto de Investigação e Formação Avançada em Ciências e Tecnologias da Saúde, Gandra-PRD, Portugal, Porto, Portugal, ³Laboratório de Bioquímica, Departamento de Ciências Biológicas, Faculdade de Farmácia (FFUP), Universidade do Porto, Portugal, Porto, Portugal, ⁴Genetics Laboratory and Environmental Health Institute, University of Lisbon, Faculty of Medicine; Rocha Cabral Institute, Lisbon, Portugal, Lisbon, Portugal.

[137-POS] **MTHFR and COMT possible epistatic and epigenetic interactions and its modulation of some cardiovascular risk parameters in women with previous pregnancy hypertension.** Andreia Matos¹, Alda Pereira da Silva¹, Helena Maia¹, Maria Clara Bicho¹, Irene Rebelo², Maria José Areias³, **Manuel Bicho**⁴. ¹Genetics Laboratory and Environmental Health Institute, University of Lisbon, Faculty of Medicine, Portugal, Lisbon, Portugal, ²Laboratory of Biochemistry, Faculty of Pharmacy/ Institute for Molecular and Cell Biology, University of Porto, Porto, Portugal, ³Júlio Diniz Maternity, Maria Pia Hospital, Porto, Portugal, ⁴Genetics Laboratory and Environmental Health Institute, University of Lisbon, Faculty of Medicine; Rocha Cabral Institute, Lisbon, Portugal.

[140-POS] **Chymotrypsin induce soluble Fms-Like tyrosine kinase 1 release through the protease-activated receptor 2.** Chihiro Hirai. Juntendo University Faculty of Medicine, Tokyo, Japan.

[143-POS] **Lipid composition of placental tissue from patients with early-onset preeclampsia.** Henri A. Korkes¹, Nelson Sass¹, Antonio F. Moron¹, Niels O. Câmara², Tatiana Bonetti¹, Ana S. Cerdeira³, Ismael D. Silva¹, Leandro Gustavo De Oliveira¹. ¹Federal University of Sao Paulo, Sao Paulo, Brazil, ²University of Sao Paulo, Sao Paulo, Brazil, ³Harvard Medical School, Sao Paulo, Brazil.

[146-POS] **Levels of urinary NGAL and KIM-1 early in pregnancy are indicative of subclinical kidney injury in diabetic women who subsequently developed pre-eclampsia.** Michelle B. Hookham¹, Jeremy Y. Yu¹, Alicia J. Jenkins², Kristian F. Hanssen³, Christopher E. Aston⁴, Timothy J. Lyons¹. ¹Centre for Experimental Medicine, Queen's University Belfast, United Kingdom, ²NHMRC Clinical Trials Centre, University of Sydney, Sydney, Australia, ³Department of Endocrinology, Oslo University Hospital, Oslo, Norway, ⁴Harold Hamm Diabetes Center, University of Oklahoma Health Sciences Center, Oklahoma, OK, USA.

[149-POS] **Expression of lipocalin-type prostaglandin D synthase in preeclampsia patients: a novel marker for preeclampsia.** Jun Takeda¹, Kazunori Kinoshita¹, Kikumi Matsuoka², Satoru Takeda¹, Yutaka Eguchi³, Hiroshi Oda⁴, Naomi Eguchi⁵, Yoshihiro Urade⁵. ¹Juntendo University, Tokyo, Japan, ²Saitama Midical University, Kawagoe, Japan, ³Shiga University of Medical Science, Otsu, Japan, ⁴Central Research Institute of Maruha Corp., Ibaraki, Japan, ⁵Osaka Bioscience Institute, Suita, Japan.

[152-POS] **Measurement of placental growth factor isoform 2 in first trimester of pregnancy** Pertti Hurskainen, **Mikko Sairanen**. PerkinElmer, Inc., Turku, Finland.

[155-POS] **Prediction of adverse outcomes with mid-pregnancy serum placental growth factor levels and uterine artery Dopplers in high risk pregnancies.** Kari Kjos, Roxana Ghashghaei, Kristen Klisser, Douglas Woelkers. University of California, San Diego, San Diego, CA, USA.

[158-POS] **Preeclampsia risk stratification early in pregnancy: leveraging a promising metabolomics discovery in a LC-MS based clinical assay.** Liz Bond¹, Caroline Nolan¹, Katy Hyland¹, Charline Lenaerts², Philip N. Baker³, Louise C. Kenny⁴, **Robin Tuytten**¹. ¹Metabolomic Diagnostics, Little Island, Ireland, ²University of Mons, Mons, Belgium, ³Gravida: National Centre for Growth and Development, The University of Auckland, Auckland, New Zealand, ⁴The Irish Centre for Fetal and Neonatal Translational Research, Cork University Maternity Hospital, Cork, Ireland.

[161-POS] **Urine plasminogen as predictor of severe preeclampsia.** Britta Frederiksen-Møller¹, Boye Lagerbon Jensen², Morten Holm Falk³, Jacob von Bornemann Hjelmberg⁴, Jan Stener Jørgensen⁵. ¹Odense University Hospital and University of Southern Denmark, Odense, Denmark, ²Institute for Molecular Medicine, Department of Cardiovascular and Renal research, University of Southern Denmark, Odense, Denmark, ³Institute for Mathematics and Computer Science (IMADA), University of Southern Denmark, Odense, Denmark, ⁴The Danish Twin Registry Epidemiology, Biostatistics and Biodemography, University of Southern Denmark, Odense, Denmark, ⁵Department of Obstetrics and Gynaecology, Odense University Hospital, Odense, Denmark.

[164-POS] **The decreased expression of maternal circulating endothelial progenitor cells (EPCs) during pregnancy: related to the development of preeclampsia.** Nirmala G. Prabawati, Nugrahanti Prasetyorini. Brawijaya University, Malang, East Java, Indonesia.

[167-POS] **The human endogenous protection system against cell-free hemoglobin is overwhelmed during preeclampsia - new biomarkers and potential targets for therapy.** Ulrik D. Anderson¹, Magnus Gram², Maya Jälmy¹, Bo Åkerström², Stefan R. Hansson¹. ¹Skåne's University Hospital, Malmö, Sweden, ²Lund University, Lund, Sweden.

[170-POS] **Preeclampsia in a reference hospital: possible association with lipotoxicity.** Bárbara Bevilacqua Zeiger¹, Ana Carolina Bergamo¹, Daniel Henrique Braga Vidal¹, Felipe Toyama Aires², Diego Gomes Ferreira³, Mariana Scarpelini¹, José Marcelo Garcia¹, Henri Augusto Korke⁴, Maria Renata Lopes Natale Paltronieri¹, Sérgio Floriano de Toledo¹, Wittaya Chaiwangyen⁵, **Francisco Lázaro Pereira Sousa**¹, Nelson Sass⁴. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Ana Costa Hospital, Santos, Brazil, ³Guilherme Álvaro Hospital, Santos, Brazil, ⁴UNIFESP - Federal University of São Paulo, São Paulo, Brazil, ⁵Placenta-Labor - Friedrich-Schiller-University, Jena, Germany.

[173-POS] **The role of placenta growth factor as predictor of preeclampsia.** Gustavo Lacerda da Silva Calestini¹, Bruna Patrícia Noronha Reis¹, Dimitrios Labre¹, Felipe Fernando Silveira Fuentes¹, **Francisco Lázaro Pereira Sousa**¹, Leonardo Carbone Wenzel¹, Pedro Luiz Spinelli Coelho¹, Wittaya Chanwangyen², Stephanie Ospina Prieto², Diana Maria Morales Prieto², Udo Rudolf Markert², Nelson Sass³. ¹UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ²Placenta-Labor - Friedrich-Schiller-University, Jena, Germany, ³UNIFESP - Federal University of São Paulo, São Paulo, Brazil.

[176-POS] **Evaluation of antepartum fetal vitality in pregnant women with hypertensive disorders - preliminary results.** Cláudia Ghiraldini Gerales¹, Márcia Carneiro Saco¹, Pedro Luiz Spinelli Coelho², Gustavo Lacerda da Silva Calestini², Caio Barbosa Cury², Felipe Fernando Silveira Fuentes², Bárbara Bevilacqua Zeiger², José Marcelo Garcia², Sérgio Floriano de Toledo², Rogério Gomes dos Reis Guidoni², Maurício Saito¹, **Francisco Lázaro Pereira Sousa**², Corintio Mariani Neto³. ¹Guilherme Álvaro Hospital, Santos, Brazil, ²UNILUS - Lusíada Foundation / Faculty of Medical Sciences of Santos, Santos, Brazil, ³Leonor Mendes de Barros Maternity Hospital, São Paulo, Brazil.

[179-POS] **First trimester screening for early onset preeclampsia is a cost effective approach in prenatal care.** David A. Krantz, Terrence W. Hallahan, Jonathan B. Carmichael, Hsiao-Pin Liu. PerkinElmer Labs/NTD, Melville, NY, USA.

[182-POS] **Plasma prorenin levels during pregnancy.** Yukiko Mikami¹, Tatsuya Narita¹, Yasushi Takai¹, Kazunori Baba¹, Hiroyuki Seki¹, Kikumi Matsuoka². ¹Department of Obstetrics and Gynecology, Saitama Medical Center, Saitama Medical University, Kawagoe, Japan, ²Department of Biomedical Sciences, Saitama Medical Center, Saitama Medical University, Kawagoe, Japan.

[185-POS] **REPROMETA and HAPPY PREGNANCY study: combining the retrospective and prospective approach for discovery and development of new biomarkers for pregnancy complications.** Kristiina Rull¹, Pille Vaas¹, Ele Hanson¹, Pille Teesalu², Tiina Rebane³, Maris Laan⁴. ¹Women's Clinic of Tartu University Hospital; Dept of Obstetrics and Gynecology, University of Tartu, Tartu, Estonia, ²Women's Clinic of Tartu University Hospital, Tartu, Estonia, ³Children's Clinic of Tartu University Hospital, Tartu, Estonia, ⁴Institute of Molecular and Cell Biology, University of Tartu, Tartu, Estonia.

[188-POS] **The difference between placental Activin A level in preeclampsia and normal blood pressure pregnancy.** Mukhamad Nooryanto, Sr. University of Brawijaya, Indonesia, Malang, Indonesia.

[191-POS] **The fetal cholesterol acceptor potential in cord sera of intrauterine growth restricted (IUGR) neonates.** Ulrich Pecks¹, Werner Rath¹, Sarah Hirshman¹, Nicolai Maass¹, Dietmar Schlembach², Markus Mohaupt³, Geneviève Escher³. ¹University Hospital of the RWTH, Dept. of O&G, Aachen, Germany, ²University Hospital of Jena, Jena, Germany, ³Inselspital, University of Bern, Dept. of Clinical Research. Division of Hypertension, Berne, Switzerland.

[194-POS] **Extended serum lipoprotein profiling in preeclampsia and IUGR.** Ulrich Pecks¹, B. Sophia Winkler¹, Tamme W. Goecke¹, Nicolai Maass¹, Christine Contini², Karl Winkler². ¹University Hospital of the RWTH, Dept. of O&G, Aachen, Germany, ²University Medical Centre, Clinical Chemistry and Laboratory Medicine, Freiburg, Germany.

[197-POS] **Maternal lipid- and steroid hormone concentrations during the course of pregnancy and in pregnancy pathologies.** Ulrich Pecks¹, Nicola Kleine-Eggebrecht¹, B. Sophia Winkler¹, Markus Mohaupt², Geneviève Escher², Werner Rath¹. ¹University Hospital of the RWTH, Dept. of O&G, Aachen, Germany, ²Inselspital, University of Bern, Dept. of Clinical Research. Division of Hypertension, Berne, Switzerland.

[200-POS] **Inflammatory gene expressions of adipose tissue under preeclamptic culture condition.** Juria Akasaka, Katsuhiko Naruse, Natsuki Koike, Aiko Shigemitsu, Kana Iwai, Hiroshi Kobayashi. Nara Medical University, Kashihara, Nara, Japan.

[203-POS] **Electron transfer dissociation for native peptide fragmentation facilitates enhanced identification of urinary peptides and proteins in pregnancy.** Sarah Hart¹, Louise Kenny², Jenny Myers³, Philip Baker¹. ¹Keele University, Stoke on Trent, United Kingdom, ²INFANT Centre, Cork, Ireland, ³University of Manchester, Manchester, United Kingdom.

[209-POS] **Effect of aerobic training in pregnant women diagnosed with gestational diabetes: a preliminary report.** Jose G. Ramos, Roberta Bgeginski, Maria Lucia Opperman, Sérgio Martins-Costa, Rodrigo Delevatti, Rodrigo Schuch, Luis Fernando Krueh. Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.

[212-POS] **Diagnostic accuracy of urinalysis strip for proteinuria: comparison of three methods with protein/creatinine ratio.** Mauricio E. Correa¹, Anne C. Halstead², Anne-Marie Côté³, Dane A. De Silva², Li Wang², Peter von Dadelszen², Laura A. Magee². ¹Universidad Austral de Chile, Osorno, Chile, ²University of British Columbia, Vancouver, BC, Canada, ³Université de Sherbrooke, Québec, BC, Canada.

[215-POS] **False positive urinary protein:creatinine results in pregnancy using a pyrocatechol violet dye-based assay.** Mauricio E. Correa¹, Anne C. Halstead², Anne-Marie Côté³, Dane A. De Silva², Peter von Dadelszen², Laura A. Magee². ¹Universidad Austral de Chile, Osorno, Chile, ²University of British Columbia, Vancouver, BC, Canada, ³Université de Sherbrooke, Sherbrooke, QC, Canada.

[218-POS] **Beyond bar graphs: time for a new data presentation paradigm with relevance to hypertension in pregnancy?** Tracey L. Weissgerber¹, Natasa Milic², Stacey J. Winham¹, Vesna D. Garovic¹. ¹Mayo Clinic, Rochester, MN, USA, ²University of Belgrade, Mayo Clinic, Belgrade, Rochester, MN, USA.

[221-POS] **Abdominal aortic aneurysm in pregnancy. Ernawati Ernawati**, Maya Purwaningtyas, Agus Sulistyono, Sr., Aditiawarman Aditiawarman, Sr., Hermanto Tr Joewono, Sr., Puruhito Puruhito, Sr. Dr. Soetomo General Hospital / Airlangga University, Surabaya, Indonesia.

[224-POS] **Pregnancy outcome of fetal hydrocephalus at Dr. Soetomo Hospital Surabaya.** Rino Andriya, **Ernawati Ernawati**, Budi Wicaksono, Agus Sulistyono, Sr., Aditiawarman Aditiawarman, Sr., Hermanto Tri Joewono, Sr., Erry Gumilar Dachlan, Sr. Airlangga University, Surabaya, Indonesia.

[227-POS] **ThromboElastoGraphy (TEG®) and ROtational ThromboElastoMetry (ROTEM®) in pregnancy: a systematic review. Antoinette C. Bolte¹**, Frederik J. Hermans², Leonie E. Van Rheenen-Flach³. ¹Radboudumc, Nijmegen, Netherlands, ²VU University Medical Center, Amsterdam, Netherlands, ³Sint Lucas Andreas Hospital, Amsterdam, Netherlands.

[230-POS] **Racial and socio-economic disparities in maternal and fetal death among preeclamptic and eclamptic deliveries: an analysis of the nationwide inpatient sample. Eitezaz Mahmood**, Sarosh Rana, Sajid S. Shahul. Beth Israel Deaconess Medical Center, Boston, MA, USA.

[233-POS] **Postpartum depression and anxiety in hypertensive disorders of pregnancy. János Rigó, Jr.¹**, András Kecskeméti¹, Attila Molvarec¹, Eszter Lefkovic², Bernadett Szita¹, Ildikó Baji³. ¹First Department of Obstetrics and Gynecology, Faculty of Medicine, Semmelweis University, Budapest, Hungary, ²Department of Clinical Studies in Obstetrics and Gynecology, Faculty of Health Sciences, Semmelweis University, Budapest, Hungary, ³Department of Family Care Methodology, Faculty of Health Sciences, Semmelweis University, Budapest, Hungary.

[236-POS] **Patient perspectives on screening/diagnostic tests, clinical trials, and expectant management for preeclampsia. Caryn J. Rogers¹**, Jenny Hewison², Eleni Tsigas¹. ¹Preeclampsia Foundation, Melbourne, FL, USA, ²Leeds Institute of Health Sciences, Leeds, United Kingdom.

[239-POS] **Assessment of quality of life of women with preeclampsia compared with healthy pregnant women. Michelle S. Machado**, Tawana Vicente Bertagnolli, Jackeline S. Machado, Cristine H. Ferreira, Geraldo Duarte, Ricardo C. Cavalli. Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto, Brazil.

[242-POS] **Hypertensive disorders of pregnancy: a systematic review of international clinical practice guidelines. Tessa Er Gillon¹**, Anouk Pels², Peter von Dadelszen³, Karen MacDonnell⁴, **Laura A. Magee³**. ¹VU Medical Center, Amsterdam, Netherlands, ²Academic Medical Center, Amsterdam, Netherlands, ³University of British Columbia, Vancouver, BC, Canada, ⁴College of Physicians and Surgeons of British Columbia, Vancouver, BC, Canada.

[245-POS] **Assessment of medical students' knowledge about preeclampsia** Thais A. Facca, Eduardo A. Fama, Giuliana Annicchino, Juliana Vieira, Juliana Vasconcelos, Rafaela Campos, Mariana G. Jerardi, Mariana S. Geraldo, Mayra B. Silva, Bruna R. Ortega, Amelia R. Sabino, Gianna Mastroianni-Kirsztajn, **Nelson Sass**. Federal University of Sao Paulo-UNIFESP, Sao Paulo, Brazil.

[248-POS] **Relationship of uterine artery flow in the second trimester of pregnancy with the neurodevelopment of children in the second year of life - a cohort study.** Marcos M. Okido, Luiz Augusto B. Martins, Tawana V. Bertagnolli, Marco A. Barbieri, Heloisa Bettiol, Viviane C. Cardoso, **Ricardo C. Cavalli**. Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto - São Paulo, Brazil.

[251-POS] **Risk of eclampsia compared to number of prenatal visits. Elizabeth T. Greeley¹**, Kathryn L. Terry², Jeffrey V. Spencer³. ¹North Shore University Hospital, Manhasset, NY, USA, ²Brigham and Women's Hospital, Boston, MA, USA, ³The Center for Maternal Fetal Medicine, Annapolis, MD, USA.

[254-POS] **Changes in maternal cognition after previous pregnancies with preeclampsia. Katharina M. Hillerer¹**, Volker R. Jacobs¹, Ludwig Aigner², Thorsten Fischer¹. ¹Department of Obstetrics

and Gynecology, University Clinic (SALK), Paracelsus Medical University, Salzburg, Austria, ²Institute of Molecular Regenerative Medicine, Spinal Cord Injury and Tissue Regeneration Center Salzburg, Paracelsus Medical University, Salzburg, Austria.

[257-POS] **Risk of gestational hypertension in relation to number of prenatal visits. Elizabeth T. Greeley¹**, Kathryn L. Terry², Jeffrey V. Spencer³. ¹North Shore University Hospital, Manhasset, NY, USA, ²Brigham and Women's Hospital, Boston, MA, USA, ³The Center for Maternal Fetal Medicine, Annapolis, MD, USA.

[260-POS] **The effect of Syzygium cumini extract on the expression of eNOS in preeclamptic HUVEC model. Kusnarman Keman**, Siti Candra WB, Trimayanti Olfah, Trimayanti Olfah. Dr. Saiful Anwar Hospital, Malang, Indonesia.

[263-POS] **Psychological assessment of renal transplant recipients during pregnancy. Vera L. Belardi Neto, III**. Universidade Federal de São Paulo, São Paulo, Brazil.

[266-POS] **Hyperglycemia impedes first trimester cytotrophoblast function via apoptotic signaling. Chase Cawyer**, Dean Leonard, Nathan Drever, Richard R. Jones, Steven R. Allen, Madhava R. Beeram, Thomas J. Kuehl, Mohammad N. Uddin. Scott & White Healthcare/TAMHSC, Temple, TX, USA.

[269-POS] **Utero-placental cellular and subcellular expression of opposing AT1R and B2R receptors in normal and preeclamptic pregnancies. Gloria Valdes¹**, Stephanie Acuña¹, Gloria X. Soto². ¹Escuela Medicina Pontificia Universidad Católica, Santiago, Chile, ²Hospital San Borja Arriarán, Santiago, Chile.

[272-POS] **The role of autophagy in poor placement of preeclampsia. Shigeru Saito**, Akitoshi Nakashima. University of Toyama, Toyama, Japan.

[275-POS] **The alterations of villous DNA methylation associated with the pathogenesis of preeclampsia. Keiko Koide**. Showa University School of Medicine, Tokyo, Japan.

[278-POS] **A genetic connection between preeclampsia and chronic hypertension in Norwegian families. Liv Cecilie V. Thomsen¹**, Nina McCarthy², Phillip E. Melton², Kjersti Tollaksen³, Ingvill Lyslo³, Per Solberg⁴, Linda T. Roten⁵, Ottar K. Nygård⁶, Gemma Cadby², Rigmor Austgulen⁷, Eric K. Moses², Ann-Charlotte Iversen⁸, Line Bjørge¹. ¹Dep. of Gynecology and Obstetrics, Haukeland University Hospital / Dep. of Clinical Science, University of Bergen, Bergen, Norway, ²Centre for Genetic Origins of Health and Disease, University of Western Australia, Perth, Australia, ³Dep. of Gynecology and Obstetrics, Stavanger University Hospital, Stavanger, Norway, ⁴Dep. of Gynecology and Obstetrics, Levanger Hospital, Levanger, Norway, ⁵Dep. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology, Trondheim, Norway, ⁶Dep. of Heart Disease, Haukeland University Hospital / Dep. of Clinical Science, University of Bergen, Bergen, Norway, ⁷Dep. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology / Centre of Molecular Inflammation Research, Norwegian University of Science and Technology, Trondheim, Norway, ⁸Department of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology / Centre of Molecular Inflammation Research, Norwegian University of Science and Technology, Trondheim, Norway.

[281-POS] **Prediction of iatrogenic preterm delivery in women with chronic vascular disease and/or previous early onset pre-eclampsia. Ruth Cockerill**, Emma Shawkat, James Horn, Catherine Chmiel, Giovanna Bernatavicius, Edward Jonhstone, Ian Crocker, **Jenny E. Myers**. University of Manchester, Manchester, United Kingdom.

[284-POS] **Decreased circulating levels of galectin-1 in the second trimester predict the subsequent onset of not only preeclampsia but also gestational hypertension. Akihide Ohkuchi**, Chikako Hirashima, Shiho Nagayama, Hirotada Suzuki, Kayo Takahashi, Shigeki Matsubara, Mitsuaki Suzuki. Jichi Medical University, Shimotsuke-shi, Japan.

[287-POS] **Recurrence of hypertensive disorders of pregnancy, an individual patient data meta-analysis** **Miriam F. van Oostwaard**¹, Josje Langenveld², Ewoud Schuit³, Dimitri N.m. Papatsonis⁴, Ben Willem J. Mol⁵, Wessel Ganzevoort⁶. ¹Erasmus Medical Centre, Rotterdam, Netherlands, ²Atrium Medisch Centrum, Heerlen, Netherlands, ³Julius Centre for Health Sciences and Primary Care, Universitair Medisch Centrum, Utrecht, Netherlands, ⁴Amphia Ziekenhuis, Breda, Netherlands, ⁵The Robinson Institute, School of Paediatrics and Reproductive Health, University of Adelaide, Adelaide, Australia, ⁶Academisch Medisch Centrum, Amsterdam, Netherlands.

[290-POS] **Flow-mediated dilatation of brachial artery is correlated with interleukin-6 in patients with pre-eclampsia.** **Marta R. Hentschke**, Matias C. Vieira, Edson V. da Cunha Filho, Juliana Guaragna, Carlos E. Poli de Figueiredo, Bartira E. Pinheiro da Costa. Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil.

[293-POS] **Prediction of the fetal-placenta ischemia with umbilical artery velocity.** **Yanping Shen**. Medical University of China, Shenyang, China.

[296-POS] **The value of Doppler assessment of the uteroplacental circulation in predicting hypertensive disorders of pregnancy and fetal growth restriction.** **Swati Agrawal**¹, Teena Nagar², Susheela Khoiwal², Seema Arora¹, Sudha Agrawal¹, Kumar Jayant¹. ¹Sudha Hospital and Medical Research Centre, Kota, India, ²R.N.T. Medical College, Udaipur, India.

[299-POS] **First-trimester screening combining maternal risk factors and uterine artery Doppler indices is useful to predict hypertension in low-risk pregnant woman.** **Alessandra C. Marcolin**¹, Rosiane Maciel Scandiuzzi¹, Silvana Maria Quintana¹, Elaine Dantas Moisés², Ricardo Carvalho Cavalli³, Geraldo Duarte¹. ¹Faculty of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil, ²Faculty of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil, ³Faculty of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil.

[302-POS] **Cardiovascular disease in a pregnant woman's partner as a risk factor for preeclampsia.** **Claire E. Parker**, Dorota A. Doherty, Barry N.J Walters. The University of Western Australia, Subiaco, Australia.

[305-POS] **Plasma concentrations of midregional pro-adrenomedullin are blunted in women with severe preeclampsia.** **Brooke Matson**, Natalie Karpinich, Amy Murtha, William Valdar, Chad A. Grotegut, Kathleen M. Caron. Duke University School of Medicine, Durham, NC, USA.

