



Hypertension

All poster sessions take place in Salon D on the lower level of the hotel

Thursday, September 5 5:30 – 7:00 PM <u>Poster Session 1</u> TAC Poster Session Competition and Reception Sponsored by <i>Hypertension</i>	
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Cognition, Cerebrovascular Disease and Stroke	132-134
Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome	135-140
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Genetics, Epigenetics and Epidemiology	150-152
Hypertension and Aging	153-165
Microbiome, Infection and Hypertension	166-168
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Pregnancy, Preeclampsia and Developmental Programming	189-197
Proteomics and Metabolomics	198
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Vascular Biology, Remodeling, Dysfunction, Stiffness	219-233
Friday, September 6 9:00 – 10:30 AM <u>Poster Session 2 and Breakfast Reception</u> Moderated Poster Sessions	

*Note that presenters will be available throughout the entire session time (9:00- 10:30).
See times below for the moderated portion of these sessions
Headsets are available at the AV table. Please tune to the channel indicated to listen to
the moderated portion.*

9:15 – 9:45 AM	Poster Numbers
<u>MPS01 Neurogenic Mechanisms</u> Moderator: Eric Lazartigues, PhD, FAPS, FAHA	MP 01- 06
<u>MPS02 New Paradigms and Lessons learned from Hypertension Clinical Trials in 2024</u> Moderator: J. Matt Luther, MD, MSCI	MP 07-12
<u>MPS03 Renin Angiotensin</u> Moderator: Kenneth E. Bernstein, MD	MP13- 18
9:50 – 10:20 AM	Poster Numbers
<u>MPS04 Social Determinant of Health and Blood Pressure</u> Moderator: Angela L. Price, MD	MP 19 - 24
<u>MPS05 Pregnancy</u> Moderator: J. Paula Warrington, PhD, FAHA	MP 25-30
<u>MPS06 Salt</u> Moderator: Steven Crowley, MD	MP 31-36
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Renin-Angiotensin System	428-436
Resistant Hypertension	437-432
Vascular Biology, Remodeling, Dysfunction, Stiffness	443-446

Poster Session 1

P-100 TRPM7 deficiency amplifies aldosterone signalling cardiac fibroblasts

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P-101 Surgical and not medical treatment of Primary Aldosteronism increase skin K⁺ levels: pathophysiological and clinical implications

FEDERICO BERNARDO ROSSI, Francesca Torresan, Ilaria Caputo, Sofia Zanin, Brasilina Carocchia, Giovanni Bertoldi, Eva Kohlscheen, Maurizio Iacobone, Teresa M. Seccia, gianpaolo rossi
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P-102 Reducing Testing Burden in Patients Screened for Primary Aldosteronism

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P-103 Assessment of Angiotensin II-induced Calcium Signals in Primary Human Adrenocortical Cells

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P-104 Kidney arteriolar responses to liver-targeted small interference RNA (siRNA) targeting angiotensinogen in diabetic rats: comparison with other renin-angiotensin system blockers

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P-105 Comparative Effectiveness between Angiotensin Receptor Blockers and Angiotensin-Converting Enzyme Inhibitors on Mortality: a Nationwide, Population-based, Prospective Cohort Study in China

Yunfeng Wang³, Weihong Guo¹, Yang Hao¹, Xin Zheng¹, Haibo Zhang¹, Yang Yang¹, Bowang Chen¹, xiaoyan zhang¹, jianlan cui¹, Wei Xu¹, Lijuan Song¹, Chunqi Wang¹, Yi Wu¹, Harlan M. Krumholz², xi li¹, Shengshou Hu¹

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P-106 Association of long term blood pressure variability and Major Cardiovascular events in patients with primary aldosteronism

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P-107 Training for home blood pressure monitoring among women with a diagnosis or risk factors for hypertensive disorders of pregnancy

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P-108 Correlations of attended and unattended office blood pressure measurements with Left Ventricular Mass in untreated hypertensives.

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P-110 Analysis of Community-Level High Blood Pressure Awareness Efforts for Philadelphia's Unhoused Population

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P-111 Last Recorded Blood Pressure Measurement as a Proxy for Average Blood Pressure Control

Nausheen Singh, Abigail Feinberg, Nikita Barai, Jennifer Cluett, Mary Fishman, Kelsey Bryant
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P-112 Modifiable Factors Associated with Elevated Mean Arterial Pressure after Lower-Limb Loss

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P-113 Hypertension Prevalence, Awareness, Treatment, and Control in Community-Dwelling Adults in Low-Resource Areas of Chicago, Illinois

Caroline Clingan, James Walker, Felix Karthik, Nisheka N. Vanjani, Niraj Lawande, Donald M. Lloyd-Jones, Nilay S. Shah

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P-114 Reducing Racial Disparities in Hypertension Control using Multicomponent, Equity-Centered Approach

Susan Kioko¹, Christina Council², Cecilia Tomori¹

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P-115 Hypothetical Blood Pressure Lowering Interventions and Risk of Mortality in Middle-Aged and Older Chinese Adults: A Population-Based Modelling Study

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P-116 Hypertension Treatment and Control in Canadians with Diabetes

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P-117 Provider Concordance to the Current 2017 High Blood Pressure (BP) Clinical Practice Guidelines and Patient Blood Pressure Control

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P-118 Effect of renal denervation on the blood pressure and progression of diabetic kidney disease in T2DN rats

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P-119 The Heart Failure with Preserved Ejection Fraction Induced By High-Fat Diet and L-NAME in Mice Does not Induce a Renal Damage

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P-120 Statewide burden of Atrial fibrillation and flutter attributable to High Systolic Blood Pressure in the United States from 1990-2021: A Comparative and Consistent Analysis

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P-121 Weight Loss is not a Major Mediator of GLP1-Receptor Agonists' Risk Reduction in Heart Failure with Preserved Ejection Fraction

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P-122 Aberrant MicroRNA Expression May Underlie Cardiac Dysfunction in a rat model of Preeclampsia

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P-123 Gender Difference in the In-hospital Mortality for Hypertensive Heart Disease – United States Population-Based Survey Analysis

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P-124 Prognostic Significance of Free Triiodothyronine Levels in Patients with Heart Failure with Preserved Ejection Fraction and Hypertrophic Cardiomyopathy: A Multicenter Retrospective Analysis

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P-125 In an Autocrine Mechanism, Endothelial Progranulin Regulates Vascular Tone and Blood Pressure via AMPK Activation

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P-126 Exercise-Induced Changes in Skeletal Muscle of Patients with Chronic Kidney Disease on Maintenance Hemodialysis

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P-127 microRNA-204 protects against Angiotensin II-induced apoptosis in podocytes via Sox4

Lishu He², Jing Liu¹, Manoj K. Mishra³, Maya Guenther², Bhavika Therani³, Ian Markson², Rajan Pandey³, Kristie S. Usa², Pengyuan Liu³, Yong Liu³, Mingyu Liang³

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P-128 Endothelial Nitric Oxide Determines Hematopoietic Cell Fate and Osteoclastogenesis By Modulating CSF1 During Hypertension

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P-129 Assessing the impact of serum lead levels on kidney function Among hypertensive population: NHANES 2017-2020

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P-130 Predictive value of the MCG-based Nomogram model for the anatomical and functional evaluation of coronary artery lesions

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P-131 Effect of uncontrolled systolic blood pressure in hypertensive patients as a risk factor for CIN after coronary angiography with preventative management of CIN : single center prospective study

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P-132 Sex Differences in Cerebrovascular Dysfunction in the APP/PS1 TgF344-AD Rat Model of Alzheimer's Disease

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P-133 Global Burden and Trends of Stroke attributable to High Systolic Blood Pressure in High Income North America countries from 1990-2021: A Secondary analysis from the Global Burden of Disease Study 2021

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P-134 Effects of Antihypertensive Medications on All-cause Dementia: Evidence from Target Trial Emulation of 3 Million US Veterans

Yizhe Xu¹, Catherine G. Derington², Tom Greene², Daniel Scharfstein², Ryan Andrews⁷, Ransmond Berchie², Chong Zhang¹, Mark A. Supiano³, Jeff Williamson⁴, Nicholas Pajewski⁵, Jeremy Pruzin⁸, Rachel Shulman⁶, Jordana Cohen⁶, Adam P. Bress²

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P-135 Evaluating the Impact of Cumulative Blood Pressure and Metabolic Indicators on Long-Term Cardiovascular Risk: Insights from a 9-year Nationwide Prospective Cohort Study

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P-136 Phosphorylation and regulation of URAT1 by insulin and NaCl: a possible mechanism linking insulin resistance and excessive salt intake to hyperuricemia

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P-137 Real-World Impact of Semaglutide on Cardiometabolic Risk Factors in Patients without Diabetes: A Multi-Center Analysis of Electronic Health Records

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P-138 Diet Influences the Expression of Renal Sodium-Glucose Cotransporters in Juvenile Male Rats

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P-139 Exploring the cardiometabolic effects of lipid 12-hydroxyeicosapentaenoic acid through thromboxane receptor partial agonism

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P-140 Social Determinants of Health and Biologic Measures Differ by Hypertension Treatment Status Between Participants in Two Similar Clinical Trials

Mansi Totwani, Jingyi Cao, Hannah Col, Ruth-Alma N. Turkson-Ocran, Mingyu Zhang, Emily L. Aidoo, Marian Budu, Sarah Nartey, Stephen P. Juraschek

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P-141 Salt tips the balance of tryptophan metabolism between host and gut microbiota in a sex specific manner

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P-142 Cross Sex Steroid Therapy and Cardiac Function in a Rodent Model of Gender Affirming Hormone Therapy in the Male Rat.

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P-144 Estrogen Worsens Kidney Function in Hypertensive Menopausal Rats

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P-145 The Biological Effects of Cross-Sex Hormone Therapy in the Male Rat Does Not Enhance Renal Risk in Young Adulthood

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P-146 Sex-Dependent Regulation of the Endothelin System in Multi-End Organ Inflammation in Lupus-Associated Cardiovascular Disease

Marice McCrorey, Kennedy Hawkins, Jim Oates, Yasir Abdul, Adviy Ergul, Melissa Cunningham, Justin P. Van Beusecum

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P-147 Inappropriate Activation of the Leptin-Aldosterone-Endothelial Mineralocorticoid Receptor Axis Promotes Salt Sensitivity of Blood Pressure in Young Female Mice

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P-148 Loss of Ovarian Estrogen Downregulates Renal Steroidogenesis

Victoria Nasci, Eman Gohar

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P-149 Sex-Specific Blood Pressure Thresholds in Middle-Aged Adults: Results from the Atherosclerosis Risk in Communities (ARIC) Study

Katherine Williams¹, Hannah Col³, Fredrick Larbi³, Mingyu Zhang², Ruth-Alma N. Turkson-Ocran³, Long H. Ngo², Morgan Grams⁴, Josef Coresh⁴, Pamela L. Lutsey⁶, Elizabeth Selvin⁵, Lynne Wagenknecht⁸, B Gwen Windham⁷, Stephen P. Juraschek¹

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P-150 Epigenetic Mechanisms Linking Early-Life Stress to Hypertension Development: Implications for Prevention and Treatment

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P-151 National Estimates of Lifetime Risk of Hypertension in the US

Asma Rayani¹, Yejin Mok⁴, Kunihiro Matsushita², Lawrence J. Appel³

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P-152 Association of Cannabis Use with Atherosclerotic Cardiovascular Diseases Outcomes: Insights from a Meta-Analysis of a Multinational Cohort of 1.9 Million Individuals

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P-153 The Role of Lipoprotein Lipase Activation in Vascular Aging

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P-154 Statewide Burden of Hypertensive Heart Disease in the United States and its Trend from 1990-2021: An insight from the Global Burden disease study 2021

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P-155 Elevated Long-Term Triglyceride-to-High Density Lipoprotein Cholesterol Ratio Variability From Childhood Is Linked To Higher Risk Of Early-Onset Hypertension: The Bogalusa Heart Study

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P-156 Timing of Orthostatic Blood Pressure Changes is Associated with Orthostatic Symptoms in Very Old Adults: Findings from the ARIC Study.

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P-157 Acute GPER1 Activation Reduces Blood Pressure during the Inactive Period in Aged Female Mice
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P-158 Frailty and Sex are associated with Discordant Blood Pressure Measures among Very Old Adults: Results from the Atherosclerosis Risk in Communities (ARIC) Study

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P-159 Conditional deletion of ADAM17 (A disintegrin and metalloprotease 17) in microglia attenuates hypertension and associated inflammation.

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P-160 Sex Differences in Age-Dependent Hypertension and Cognitive Impairment in Sprague-Dawley Rats

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P-161 A Single-Short Partial Reprogramming of the Endothelial Cells Decreases Blood Pressure Via Attenuation of Endothelial-to-Mesenchymal Transition in Hypertensive Mice

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P-162 Senolytic Treatment Attenuates Palmitic Acid-Induced Microglial Activation: Therapeutic Implications for Obesity-Induced Sympathoexcitation

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P-163 Evolving Burden of Cardiovascular Disease attributable to High Systolic Blood Pressure in Women in 204 countries and its territories and Trend from 1990-2021: An Insight from the Global Burden of Disease study 2021

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P-164 Global Statistics of Hypertensive Heart Disease and its Trend from 1990-2021: A Benchmarking Global Analysis from the Global Burden of Disease Study 2021

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P-165 Global Burden of Pulmonary Arterial Hypertension and Its Trends Across 204 Countries and Territories from 1990 to 2021: A Comprehensive Global Analysis

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P-166 Genetic Ablation of the Bile Acid Receptor- Takeda G-protein Coupled Receptor 5 (TGR5) Promotes Weight Gain but Lowers Hypertension

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P-167 Sex Dependent Associations of the Gut Microbiota with Hypertension – A Prospective Cohort

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P-168 The Unholy Link: The Herbicide Glyphosate Contributes to Hypertension, Gut Microbiota Dysbiosis, and Sympathetic Overdrive

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P-169 SGLT2 Colocalizes on the Nucleus Tractus Solitarii Neurons in Normotensive and Hypertensive Rats in a Location-Dependent Manner

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P-170 Angiotensin II Receptor Associated Protein Expression Within the PVN of Spontaneously Hypertensive Rats

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P-171 2-Methoxyestradiol By Inhibiting Central Action of 12S-Hydroxyeicosatetraenoic Acid Protects Ovariectomized Mice From Hypertension

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P-172 The Role of Beta-Arrestin-2 (Arb-2) in Na-Specific Experience-Dependent Plasticity

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P-173 Pivotal Role for the Kinin B1R in CB1 Receptor Mediated Neuroinflammation and Pressor Response

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P-174 The endogenous circadian system modulates blood pressure reduction after an aerobic exercise session in healthy adults

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P-175 The Effect of TRF on Hypertension Development in Male Dahl Salt-Sensitive Rats

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P-176 Elevated Circulating T Cell-Monocyte Complexes in Long COVID-19 Tachycardia Syndrome: Implications of Immune Dysregulation, Inflammation, and Disease Progression

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P-177 High salt modulates Antigen Presenting Cell TNF-alpha production in an Isolevuglandin-dependent manner in Hypertensive Humans

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P-178 Sex Differences in the Role of the Immune ET-1/ET_A Axis in Controlling Blood Pressure during a Hypertension Challenge

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P-179 The Role of Sodium Induced-RGMA in Salt-Sensitive Hypertension

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P-180 Female mice with systemic lupus erythematosus produce antibodies to mitochondrial antigens and have impaired renal mitochondrial function

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P-181 Class 1 human leukocyte antigens exhibit marked variability in capacity to present isolevuglandin adducts

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P-182 Antigen Presenting Cell-specific Keap1-Nrf2 pathway Mediates Salt-Sensitive Hypertension in Humans

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P-183 Peripheral Blood Mononuclear Cells from Patients with Systemic Lupus Erythematosus Induce Inflammation and Salt Sensitivity of Blood Pressure in Humanized Mice

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P-184 Increased Granulopoiesis, Kidney Neutrophil Infiltration, and Renal Damage in a Mouse Model of Psoriasis

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P-185 Patient Portal Access, Health Literacy, Patient Trust in Health System, and Shared Decision Making Among US Adults with Hypertension: A National Cross-Sectional Study

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P-186 Current practices and interest in mobile health among individuals with or at risk for hypertensive disorders of pregnancy

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P-187 Obesity predicts left ventricular mass in youth undergoing ambulatory blood pressure monitoring

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P-188 Prevalence of AHA Pediatric Risk Categories in Youth with Hypertension Disorders: a SUPERHERO Analysis

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P-189 Maternal Hyperandrogenemia Programs Hypoandrogenemia and Intrarenal Activation of Histone Deacetylase in Adult Male Offspring

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P-190 Blood pressure monitoring and knowledge in the first year after a hypertensive disorder of pregnancy

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P-191 Progesterone Supplementation Ameliorates the Maternal Syndrome of Preeclampsia in the Dahl Salt-Sensitive Rats

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P-192 The Impact of Sleep Apnea on Preeclampsia or Eclampsia: The Mediation Role of Large High-Density Lipoprotein Components

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P-193 Adoptive transfer of placental CD4+ T Cells from preeclamptic patients with a history of COVID-19 causes hypertension and cognitive dysfunction postpartum in a pregnant rat model of preeclampsia

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P-194 Metabolic effects of GDF15 and Activin A on trophoblasts

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P-195 Vascular MAPK/ERK Activation in sFTL-1-Induced Preeclampsia *In Vivo*

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P-196 Association between Preeclampsia and Risk of Arrhythmias and Stroke: A Meta-analysis of 3,871,787 women patients.

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P-197 Identification and Characterization of Rho-related BTB Domain Containing 1 (RhoBTB1)-Cullin 3 (CUL3) Proteins in Placenta

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P-198 Computational analysis of the proteome in circulating extracellular vesicles reveals hypertension induces diabetic cardiomyopathy signaling pathway.

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P-199 Renal kallikrein-1 is not essential in adaptation to an overnight potassium load

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P-200 Immune memory contributes to chronic hypertension recurrence

Katherine Deck, Yunmeng Liu, Christoph Mora, Yunping Guo, Tonya Rafferty, Lance Benson, Shengyu Mu
University of Arkansas for Medical Sciences, Little Rock, Arkansas, United States

P-201 Macula Densa (Pro)Renin Receptor Contributes to 2-Kidney, 1-Clip-Induced Renovascular Hypertension but not Ischemic Nephropathy in Mice

Ziwei Fu¹, Kannaree Kaewsaro¹, Matias Lee¹, Ruisheng Liu², Tianxin Yang³

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P-202 Excess of anything is detrimental - unraveling role of multiple accessory renal arteries in Pickering syndrome.

Liliia Harris, Zaid M. Zahid, Nimrat Bains
Hamilton Medical Center, Dalton, Georgia, United States

P-203 Nicotine Exposure: A Catalyst for Nitrosative and Oxidative Stress in Glomerular Podocytes and Renal Impairment

Adam Jones³, Marharyta Semenikhina¹, Mykhailo Fedoriuk², Mariia Stefanenko¹, Alena Cherezova³, Denisha R. Spires⁸, Martina Veit Acosta⁴, Krisztian Stadler⁵, Daria Ilatovskaya⁶, Oleg Palygin⁷

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P-204 Global, National and regional burden and Trend of Chronic Kidney Disease due to Hypertension in 204 Countries and Territories from 1990-2021: A Benchmarking Global Analysis

Mahendra Kumar², parvinder kaur³, Mohith S. Nuthalapati⁴, Sree Abhilekha Purohit⁵, nimrat dhillon⁶, Saif Syed⁷, Ashwinikumar Shandilya⁸, Mohit Lakkimsetti¹¹, Rabia Islam¹², ROHAN RAJ⁹, JUHI PATEL¹, HARDIK D. DESAI¹⁰, Salomi Shaikh¹³

¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ²Sardar Patel Medical College, Bikaner, India, ³The Crimean State Medical University, Simferopol, Ukraine, ⁴Katuri Medical College And Hospital, Guntur, India, ⁵Shadan Institute of Medical Sciences, Hyderabad, India, ⁶Sri guru Ram das institute of medical sciences and research, Amritsar, India, ⁷Royal college of Surgeons, Dublin, Ireland, ⁸Pravara institute of medical sciences., Loni, India, ⁹Nalanda Medical College and Hospital, Patna, India, ¹⁰Gujarat Adani Institute of Medical, AHMEDABAD, India, ¹¹Mamata Medical College, Khammam, India, ¹²Punjab Medical College,, Faisalabad , Pakistan, ¹³D Y Patil University - School of Medicine, Navi Mumbai, India

P-205 Single-nucleus Sequencing Reveals Endothelial Cell-specific Dysregulation in the Kidney in Multiple Models of Hypertension

Qiongzhi Qiu¹, Yong Liu¹, Hong Xue², Jing Liu³, Bhavika Therani¹, Kristie Usa², Jing Huang¹, Andrew Greene⁵, Sridhar Rao⁴, Aron M. Geurts², Allen W. Cowley², Pengyuan Liu¹, Mingyu Liang¹

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P-206 Renal hemodynamic and transcriptomic changes in response to salt in Dahl salt-sensitive rats

Satoshi Shimada, Chun Yang, Ranjan K. Dash, Allen W. Cowley
Medical College of Wisconsin, Milwaukee, Wisconsin, United States

P-207 Regulation of Fetal-Placental ACE and ACE2 in COVID-19 Exposed Pregnancies Compared to Hypertensive and Healthy Pregnancies

narjiss aji¹, Genevieve Fregeau², Nayara cruz², Lea St-Gelais², Isabelle Vachon², Sonia Gagnon², Dulce E. Casarini³, Mariane Bertagnolli⁴

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P-208 Chromophobe Renal Cell Carcinoma Presenting as Hypertension in a Young Adult: A Case Report

Hadeel Al Kayed¹, Maryam Alqatawneh², Mahmoud Maaita³, Awni Alsuradi⁴, Husam Odaibat²

¹The University of Jordan, Amman, Jordan, ²Jordanian Royal Medical Services, Amman, Jordan, ³Medical Service Clinics, Amman, Jordan, ⁴Eye Speciality Hospital, Amman, Jordan

P-209 The novel angiotensin Alamandine-(1-5) is increased in plasma of pediatric patients with primary nephrotic syndrome

Ana Cristina S. Silva, Pedro Alves Soares Vaz de Castro, Filipe Silva, Lucas Ribeiro, Thiago Verano-Braga, Robson A. Santos
FEDERAL UNIVERSITY OF MINAS GERAIS, Belo Horizonte, Brazil

P-210 IDENTIFICATION OF ALAMANDINE-(1-5) AS A NEW ANTI-HYPERTENSIVE PEPTIDE OF THE RENIN-ANGIOTENSIN SYSTEM

Kamylle Ferraz, Adelson H. Monteiro, Sthefanie Chaves, Carolina F. Barros, Nicia Soares, Maria Jose Campagnole-Santos, Robson A. Santos
Nanobiopharmaceuticals Institute - Department of Physiology and Biophysics, UFMG, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil, Belo Horizonte, Brazil

P-211 Angiotensin-(2-7): A novel antihypertensive peptide of the renin-angiotensin-system

Carolina F. Barros¹, Kamylle Ferraz¹, Sthefanie Chaves¹, Amanda Bessa¹, Uri Vieira-Machado¹, Isadora Feng¹, Matheus Itaborahy¹, Adelson Monteiro¹, Filipe Silva¹, Clovis Nakaie², Rogerio Silva², Patricia Bersanetti², Adriana Carmona², M. Fatima Leite¹, Robson A. Santos¹
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P-212 Microinjection of the novel angiotensin, alamandine-(1-5) into insular cortex, increase blood pressure

Fernanda R. MARINS, Ana C. Godoy, Adelson Monteiro, Marco Antonio Peliky Fontes, Robson A. Santos
Nanobiopharmaceuticals Institute - Department Physiology and Biophysics, UFMG, São Lourenço, Brazil

P-213 Mechanisms of Renin-Angiotensin System-Mediated Nitric Oxide Signaling in Podocytes

Marharyta Semenikhina¹, Ruslan Bohovyk², Mariia Stefanenko¹, Mykhailo Fedoriuk¹, Christine A. Klemens², Daria Ilatovskaya³, Jim Oates¹, Alexander Staruschenko², Oleg Palygin¹
¹Medical University of South Carolina, Charleston, South Carolina, United States, ²University of South Florida, Tampa, Florida, United States, ³Augusta University, Augusta, Georgia, United States

P-214 Targeted disruption of CTCF binding in the Dahl salt-sensitive rat reveals *Renin* transcriptional dynamics

Mark Vanden Avond¹, Michael Grzybowski¹, Andrew Greene², Allen W. Cowley³, Mingyu Liang⁴, Aron M. Geurts⁵
¹The Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ²The Jackson Laboratory, Bar Harbor, Maine, United States, ³MEDICAL COLLEGE WISCONSIN, Milwaukee, Wisconsin, United States, ⁴Physiology, University of Arizona, Tucson, Arizona, United States, ⁵Medical College of Wisconsin, Milwaukee, Wisconsin, United States

P-215 The reninness score: integrative analysis of multi-omic data to define renin cell identity.

bingjie xue¹, Silvia Medrano², Jason P. Smith², Alexandre G. Martini³, Maria Luisa S. Sequeira⁴, Nathan Sheffield², Ariel R. Gomez²
¹BME, University of Virginia, Charlottesville, Virginia, United States, ²University of Virginia, Charlottesville, Virginia, United States, ³University of Brasilia, Charlottesville, Virginia, United States, ⁴UNIVERSITY VIRGINIA, Charlottesville, Virginia, United States

P-216 Distal Convoluted Tubule-Specific Deletion of Specific Deletion of (Pro)Renin Receptor in Mice Increases Energy Expenditure and Enhances Aggressiveness

Huaqing Zheng¹, Jacob Lambert¹, Fei Wang¹, James McCormick², Kannaree Kaewsaro¹, Changjiang zou¹, Tianxin Yang¹

¹Nephrology, University of Utah, Salt Lake City, Utah, United States, ²OHSU, Portland, Oregon, United States

P-217 The Prevalence And Clinical Characteristics Of Apparent And True Resistant Hypertension

Xueting Liu, xin zhang, Runyu Ye, Lirong Sun, Xiaoping Chen
West China Hospital, Chengdu, China

P-218 Resistant hypertension is associated with elevated 24-hour cortisol to cortisone ratios in black patients.

Alina Sehar¹, Kaehler Roth¹, Soumyadeep Bag¹, Hinal Rathi¹, Aesha Patel¹, John Fanning¹, Aleeza Qamar², Tanja Dudenbostel¹

¹Internal Medicine, Huntsville Regional Campus, University of Alabama at Birmingham, Huntsville, Alabama, United States, ²LSU Health Shreveport, Shreveport, Louisiana, United States

P-219 Risk factors for Accelerated Vascular Aging in Resistant Hypertension: Should we screen our patients earlier?

Soumyadeep Bag¹, Alina Sehar², Hinal Rathi³, Aleeza Qamar⁴, Aesha Patel¹, Kaehler Roth¹, John Fanning⁵, Tanja Dudenbostel⁶

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P-220 Abdominal Aortic Perivascular Adipose Tissue Lipolysis Is Activated In Hypertensive Dahl SS Rats Fed a High-Fat Diet

Miguel Chirivi¹, Javier Rendon², Adam Lauver³, Gregory D. Fink⁴, Stephanie W. Watts⁵, Andres Contreras⁶

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P-221 Yoda2, a Novel Piezo1 Agonist, Induces Relaxation in Mouse Vascular and Corpus Cavernosum Tissues

Raiana DosAnjos Moraes¹, Cintia Vieira dos Santos¹, Rinaldo Rodrigues dos Passos¹, Tiago Tomazini Goncalves¹, R Clinton C. Webb², Fernanda Priviero²

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P-222 O-GlcNAcylation induces aortic stiffness in aging female rats via CD47-SIRP α -1 signaling

Tiago JanuarioDa Costa¹, Milene T. Fontes¹, Ian Shiota Timmers Montandon¹, Emily Wood¹, Laena Pernomian¹, Ricardo Bernadino de Paula¹, Olivia Gary¹, Joseph McQuail¹, R Clinton C. Webb¹, Camilla F. Wenceslau¹, Cam McCarthy²

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P-223 Impact Of Dynamic Or Static Training On Flow-Mediated Dilatation Following Prolonged Head-Down Tilt Bedrest

Lukas Kloesges¹, Jan Hoenemann¹, Fabian Hoffmann², Sophie Bechler¹, Finn Timmermans³, Laura De Boni¹, Peter Gauger¹, Edwin Mulder¹, Stefan Moestl¹, Karsten Heusser¹, Alexandru Odainic⁴, Susanne Schmidt⁴, Marie-Therese Schmitz⁵, Tim Heise⁶, Marcel Halbach², Stephan Baldus², Steve Laurie⁷, Stuart Lee⁷, Brandon Macias⁸, Jens Jordan¹, Jens Tank¹

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P-224 RbFox2 is a Rho-related BTB Domain Containing 1 (RhoBTB1)-Cullin 3 (CUL3) Pathway Target that Regulates the Actin Cytoskeleton

Gaurav Kumar¹, Daria Golosova², Nisita Chaihongsa¹, Ibrahim Vazirabad¹, Patricia Muskus Veitia³, Kelsey Wackman¹, Ko-Ting Lu¹, Daniel Brozoski¹, Curt D. Sigmund⁴

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P-225 Persistent Vascular Dysfunction and Blood Pressure Elevation Over 12 Months After COVID-19 Recovery in Non-Hypertensive Adults – LOCHINVAR Study

Stefanie Lip¹, Tran QB Tran¹, Rebecca Hanna¹, Sarah Nichol¹, John D. McClure¹, Christian Delles¹, Linsay McCallum¹, Colin Berry¹, Rhian M. Touyz², Sandosh Padmanabhan¹

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P-226 Sex-Dependent Effects of Perivascular Adipose Tissue on Arterial Stiffness in Hypertensive

Dillon McClintock¹, Sydney Bush¹, Lisa Sather², Nathan R. Tykocki¹, Adam Lauver³, Stephanie W. Watts¹, Sara Roccabianca⁴

¹Michigan State University, East Lansing, Michigan, United States, ²Michigan State University, East Lansing, Michigan, United States, ³Michigan State University, East Lansing, Michigan, United States, ⁴Michigan State University, East Lansing, Michigan, United States

P-227 Potential roles of vascular glucose transporter 1 in development of abdominal aortic aneurysm induced by angiotensin II

Yuki Nakayama¹, Keiichi Torimoto², Victor J. Rizzo³, Satoru Eguchi⁴

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P-228 Kdm6a Regulates Extracellular Matrix Genes During Arterial Stiffening and High Blood Pressure in Female Mice

Anil Sakamuri, Candee Barris, Anne Kamau, Divya Sengottaian, Eric J. Belin De Chantemele, Benard O. Ogola
Vascular Biology Center, Medical College of Georgia at Augusta University, Augusta, Georgia, United States

P-229 Neurovascular and Cognitive Dysfunction in Hypertension at the Single-Cell Level

Anthony Pacholko¹, Samantha Schaeffer¹, Monica M. Santisteban², Gang . Wang¹, Gianfranco Racchumi¹, Giuseppe Faraco¹, Lidia Garcia-Bonilla¹, Josef Anrather¹, Costantino Iadecola¹

¹Weill Cornell Medicine, New York, New York, United States, ²Vanderbilt University Medical Center, Nashville, Tennessee, United States

P-230 Elevated Blood Pressure Promotes Perivascular Adipocyte Progenitor Proliferation and Alters Their Spatial Distribution

Javier Rendon¹, Elizabeth Rondini⁶, Hannah Garver³, Adam Lauver², Gregory D. Fink³, Teresa Krieger-Burke⁴, Jammes Granneman⁶, Stephanie W. Watts⁵, Andres Contreras⁷

¹Michigan State University, Bath, Michigan, United States, ²Michigan State University, East Lansing, Michigan, United States, ³MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States, ⁴Michigan State University, East Lansing, Michigan, United States, ⁵MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States, ⁶Wayne State University, Detroit, Michigan, United States, ⁷MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States

P-231 Self-administration of Remifentanyl Induces Endothelial Dysfunction in Thoracic Aorta and Impaired Cavernosal Reactivity of Wistar Rats

Paul Townsend Jr¹, Jacob Watson², Cintia Vieira¹, Gisele F. Bomfim⁵, Rinaldo Rodrigues¹, Carla B. Silva¹, Steven Harrod², Peter Vento², R Clinton C. Webb⁶, Fernanda Priviero⁴, Camilla F. Wenceslau³

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P-232 Estradiol Supplementation Prevents Ovariectomy-Induced Arterial Stiffness and Vascular Fibrosis

Casey G. Turner¹, Karla de Oliveira¹, Jade Breton², Gregory Martin¹, Jennifer J. Dupont¹

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P-233 Amyloid Beta Plaque Deposits Co-Localize with Endothelial Cells in the Hippocampus of Female APP^{swE}/PSEN1^{dE9} Mice During the Onset of Amyloid Pathology

Emily W. Waigi¹, Laena Pernomian¹, Alexia Crockett², Tiago JanuarioDa Costa¹, Paul Townsend Jr¹, R Clinton C. Webb¹, Joseph McQuail², Cam McCarthy¹, Fiona Hollis², Camilla F. Wenceslau¹

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Poster Session 2

Moderated Poster Sessions

9:15 AM-9:45 AM

MPS01 Neurogenic Mechanisms

Poster Moderator: Eric D. Lazartigues

MP-01 Clinical Characteristics of Morning Blood Pressure Surge in Patients with Autonomic Failure

Luis E. Okamoto, Sachin Paranjape, Yuliya Vance, Bonnie Black, Andre Diedrich, Italo Biaggioni
Medicine, Vanderbilt University Medical Ctr, Nashville, Tennessee, United States

MP-02 Inhibition of ROR γ t Ameliorates Angiotensin II-Induced Blood-Brain Barrier Disruption and Microglia Activation by Reducing Interleukin-17A Production in Rats

Yang Yu¹, Baojian Xue², Alexander G. Bassuk², Alan K. Johnson³, Shunguang Wei¹

¹Department of Internal Medicine, University of Iowa, Iowa City, Iowa, United States, ²Department of Pediatrics, University of Iowa, Iowa City, Iowa, United States, ³Department of Psychological and Brain Sciences, University of Iowa, Iowa City, Iowa, United States

MP-03 Perineuronal nets in the paraventricular nucleus of the hypothalamus are altered during DOCA-salt hypertension

Ismary Blanco¹, Sichu Chen², Erin Yeo², Monica M. Santisteban¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²Vanderbilt University, Nashville, Tennessee, United States

MP-04 Brain miR-410-3p Expression Sex-dependently Reduces Ang-II-induced Hypertension

Huijing Xia, Vahideh Tarhriz, Eric D. Lazartigues

LSU HEALTH SCIENCES CENTER, New Orleans, Louisiana, United States

MP-05 A Preliminary 10X Genomics Xenium Profiler Spatial Transcriptomics Map of Renin-Angiotensin System Genes in the Mouse Subfornical Organ

Ana H. Hantke Guixa¹, Ibrahim Vazirabad², Natalia Mathieu³, Patricia Muskus Veitia⁴, Daniel Brozoski¹, Justin L. Grobe⁵, Pablo Nakagawa⁶, Curt D. Sigmund¹

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MP-06 Medullary Neuronal Groups Regulating Renal Sympathetic Nerve Activity Differ Between Mice Versus Rats

Georgina Cano, Shelby Hernan, Alan Sved, Sean Stocker

UNIVERSITY OF PITTSBURGH, Pittsburgh, Pennsylvania, United States

9:15 AM-9:45 AM

**MPS02 New Paradigm and Lessons learned from Hypertension Clinical Trials in 2024
Poster Moderator: Matt Luther, MD, MSCI**

MP-07 Efficacy and safety of aprocitentan in patients with resistant hypertension and elevated NT-proBNP

Michael A. Weber¹, George L. Bakris², Alberto Gimona³, Krzysztof Narkiewicz⁴, Markus P. Schlaich⁵, Mouna Sassi-Sayadi³, Jiguang Wang⁶, John M. Flack⁷

¹SUNY Downstate College of Medicine, New York, New York, United States, ²The University of Chicago Medicine, Chicago, Illinois, United States, ³IDORSIA Pharmaceuticals Ltd., Allschwil, Switzerland, ⁴Medical University of Gdansk, Gdansk, Poland, ⁵Medical School, University of Western Australia, Perth, Western Australia, Australia, ⁶Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China, ⁷SIU School Medicine, Springfield, Illinois, United States

MP-08 Long-Term Impact of Bariatric Surgery on Hypertension Control and Remission: A Meta-Analysis of Randomized Controlled Trials

Sneha Annie Sebastian¹, Yash Shah², Geetha Krishnamoorthy²

¹Department of Internal Medicine, Azeezia Medical College, Kollam, Kerala, India, ²Department of Internal Medicine, Trinity Health Oakland/ Wayne State University, Pontiac, Michigan, United States

MP-09 Characteristics of Antihypertension Medication Adherence Among Patients with Resistant Hypertension in the RADIANCE HTN-TRIO Ultrasound Renal Denervation Trial

Michel Azizi¹, Ajay J. Kirtane², Michael J. Bloch³, Benjamin Kably⁴, Joachim E. Weil⁵, Georgia Thompson⁶, Maureen McGuire⁷, Candace K McClure⁸, Naomi D. Fisher⁹

¹Université Paris Descartes, Paris, France, ²Columbia University Medical Center, New York, New York, United States, ³BLUE SPRUCE MEDICINE CONSULTANTS, Reno, Nevada, United States, ⁴DMU Biologie et Génomique Médicale (BioGeM), Hôpital Bichat-Claude Bernard, Paris, France, ⁵University of Luebeck, Luebeck, Germany, ⁶Scientific Affairs, Recor Medical, Palo Alto, California, United States, ⁷Scientific Affairs, Recor Medical, Palo Alto, California, United States, ⁸Biostatistics, NAMS, Minneapolis, Minnesota, United States, ⁹BRIGHAM WOMENS HOSPITAL, Boston, Massachusetts, United States

MP-10 A Remote Pharmacist Intervention for Monitoring and Treating Hypertension for Patients Living in Rural Areas

Barry L. Carter¹, Jacob E. Simmering¹, Shelby L. Francis¹, Daniel K. Sewell¹, Rachel Finkelstein¹, Michael E. Ernst¹, Philip M. Polgreen², Linnea Polgreen¹

¹UNIVERSITY OF IOWA, Iowa City, Iowa, United States, ²UNIVERSITY OF IOWA, Iowa City, Iowa, United States

MP-11 Evaluation of a Remote Patient Monitoring Hypertension Program with Telehealth Pharmacist Management in Nephrology Clinic Patients

Neria Bitton⁴, Christine Krumich¹, LeeAnn K Webster¹, Stacy Andersen¹, John Quattrocchi⁵, Fady Gendy¹, Kamran Namjouyan¹, Ion D. Bucaloiu², Thomas Jones⁶, Atul Bali³, Emily Fry¹, Alexander Chang¹

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MP-12 Reproducibility of White Coat Hypertension and White Coat Uncontrolled Hypertension Among U.S. Adults

John M. Giacona¹, Adzona Rugovac², Manasa Kotamraju³, Venkatraghavan Sundaram⁴, Jay Gates⁵, Miguel Vazquez², Wanpen Vongpatanasin⁶

¹Applied Clinical Research & Division of Cardiology, Department of Internal Medicine, UT Southwestern Medical Center, Dallas, Texas, United States, ²Nephrology, UT Southwestern Medical Center, Dallas, Texas, United States, ³UT Southwestern Medical Center, Dallas, Texas, United States, ⁴Parkland Health & Hospital System, Parkland Center for Clinical Innovation, Dallas, Texas, United States, ⁵Peter O'Donnell Jr. School of Public Health, Dallas, Texas, United States, ⁶UNIVERSITY TX SOUTHWESTERN MED, Dallas, Texas, United States

9:15 AM-9:45 AM

MPS03 Renin Angiotensin

Poster Moderator: Kenneth E. Bernstein, MD

MP-13 Hemolysis-mediated Prolyl Endo-Peptidase plasma release – a natural protective mechanism against extreme blood pressure elevations?

Jan Wysocki, Minghao A. Ye, Peter Forster, Daniel C. Batlle
Medicine, Northwestern University, Chicago, Illinois, United States

MP-14 Identifying markers of Concentric Arterial and Arteriolar Hypertrophy (CAAH) Using Multiomics.

Lucas Almeida¹, Silvia Medrano¹, Jason P. Smith³, Manako Yamaguchi¹, Ariel Gomez¹, Maria Luisa S. Sequeira²

¹UNIVERSITY OF VIRGINIA, Charlottesville, Virginia, United States, ²UNIVERSITY VIRGINIA, Charlottesville, Virginia, United States, ³University of Virginia, Charlottesville, Virginia, United States

MP-15 Macrophage PPAR α is essential to increased immune function induced by angiotensin converting enzyme (ACE).

Kenneth E. Bernstein, Suguru Saito, Duo-Yao Cao, Ellen Bernstein, Erika E. Nishi, Tomohiro Shibata, Zakir Khan
Cedars-Sinai Medical Center, Los Angeles, California, United States

MP-16 Expression of an AT₁R Receptor Mutant which Genetically Biases G α q Specifically in Vascular Smooth Muscle Cell Causes Hypertension and Enhanced Vascular Contraction

Nisita Chaihongsa¹, Ko-Ting Lu⁵, John J. Reho², Daniel Brozoski¹, Patricia Muskus Veitia⁷, Pablo Nakagawa⁴, Justin L. Grobe³, Curt D. Sigmund⁶

¹Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ²Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ³Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ⁴Medical college of Wisconsin, Milwaukee, Wisconsin, United States, ⁵Physiology, Medical College of Wisconsin, Wauwatosa, Wisconsin, United States, ⁶Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ⁷Medical College of Wisconsin, Milwaukee, Wisconsin, United States

MP-17 Angiotensin II Inhibits Renin Secretion Directly By Eliciting Robust Calcium Oscillations In Juxtaglomerular Cells

Hiroki Yamaguchi, Nick A. Guagliardo, Silvia Medrano, Ariel Gomez, Maria Luisa S. Sequeira
University of Virginia, Charlottesville, Virginia, United States

MP-18 Evidence for An Important Physiological Role of Bradykinin B₂ Receptors in The Renomedullary Interstitial cells of The Kidney in Angiotensin II-induced Hypertension in Mice

Xiao C. Li², Rumana Hassan³, Akemi Katsurada³, Ryosuke Sato³, Samir S. El-Dahr³, Ming-zhi Zhang⁴, Ramond C. Harris⁴, Jia L. Zhuo¹

¹Department of Physiology, Tulane University School of Medicine, New Orleans, Louisiana, United States, ²Department of Physiology, Tulane University School of Medicine, New Orleans, Louisiana, United States, ³Department of Physiology, Tulane School of Medicine, New Orleans, Louisiana, United States, ⁴Department of Medicine, VANDERBILT UNIVERSITY, Nashville, Tennessee, United States

9:50 AM-10:20 AM

MPS04 Social Determinants of Health and Blood Pressure

Poster Moderator: Angela L. Price, MD

MP-19 Hypertension Prevalence Among Youth aged 8–19 years in a National Survey — United States, 2017–2020

Ahlia Sekkarie¹, Wen Zhou¹, Elizabeth Lundeen³, Omoye Imoisili⁴, Sandra Jackson², Ashutosh Kumar¹, Siran He¹, Fleetwood V. Loustalot¹

¹CDC, Atlanta, Georgia, United States, ²CDC, Chamblee, Georgia, United States, ³CDC, Atlanta, Georgia, United States, ⁴CDC, Laurel, Maryland, United States

MP-20 Leveraging Electronic Health Records to Assess Neighborhood Advantages and Risk of Cardiovascular Outcomes Among Hypertensive Patients

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MP-21 Hypertension in Young Adults: Social Determinants of Prevalence, Awareness, Treatment, and Control

Thomas J. Alexander², Abigail Gauen², Lucia Petito⁶, Ciaran N. Kohli-Lynch⁷, Thomas Carton⁵, Steven M. Smith³, Greg Merritt⁴, Faraz S. Ahmad², Norrina B. Allen¹

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MP-22 Association between 2,5-dimethylfuran exposure and the risk of early-onset hypertension: evidence from NHANES data

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MP-23 Arm Size Coverage of Popular Over-the-Counter Blood Pressure Devices and Implications in US Adults

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MP-24 Relationship of Socioeconomic Position on Incident Hypertension-related Hospitalization and Blood Pressure Control among participants in the Coronary Artery Risk Development in Young Adults (CARDIA)

Lama Ghazi¹, Cora E. Lewis², Byron C. Jaeger³, Catarina I. Kiefe⁴, Kathryn Foti⁵, Kelley P. Gabriel⁵, Norrina B. Allen⁶, Marwah Abdalla⁷, Phillip D. Levy⁸, Shakia T. Hardy⁹, Paul Muntner¹

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9:50 AM-10:20 AM

MPS05 Pregnancy

Poster Moderator: Junie P. Warrington, PhD, FAHA

MP-25 Buprenorphine pharmacotherapy reduces somatic signs of withdrawal in neonates but may not prevent cardiovascular risk in adult offspring with prenatal fentanyl exposure

Nermin Ahmed¹, Carolina Dalmasso¹, Jennifer Lamb¹, Camila Ravasi², Pavel Ortinski¹, RICARDO MARCOS PAUTASSI², Analia Loria¹

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MP-27 Pregnant Women of Advanced Maternal Age Have Higher Central Artery Stiffness Than Younger Pregnant Women

Ruda Lee¹, Mark K. Santillan², Donna A. Santillan³, Amy Stroud⁴, Virginia Nuckols⁵, Lyndsey E. Dubose³, Debra Brandt⁶, Anna E. Stanhewicz⁷, Gary L. Pierce⁸

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MP-28 Advanced Lipid Status Parameters in Women With Preeclampsia

Tamara Gojkovic¹, Daniela Ardalic², Tamara Antonic¹, Gorica Banjac², Aleksandra Zeljkovic¹, Jelena Vekic¹, Milica Miljkovic Trailovic¹, Jelena Munjas¹, Snezana Jovicic¹, Marija Saric Matutinovic¹, Jasmina Ivanisevic¹, Sandra Vladimirov¹, Vesna Spasojevic Kalimanovska¹, Zeljko Mikovic³, Aleksandra Stefanovic¹

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MP-29 Preeclampsia Dysregulates The MicroRNA Profile Of Small Extracellular Vesicles From Endothelial Colony Forming Cells

Eva Hall¹, Laura Alderfer³, Laura Haneline⁴, Donny Hanjaya-Putra²

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MP-30 The Role of CD20+ B cells in Mediating Hypertension in Preeclampsia during Pregnancy

Nathan Campbell, Miriam Hankins, Baoying Zheng, Alexandra Demesa, Ty W. Turner, Evangeline M. Deer, Lorena M. Amaral, Rachael Morris, Babbette B. Lamarca
University of Mississippi Medical C, Jackson, Mississippi, United States

9:50 AM-10:20 AM

MPS06 Salt

Poster Moderator Steven D. Crowley, MD

MP-31 The effect of dual SGLT1/2 inhibition on the progression of salt-sensitive hypertension

Olha Kravtsova, Vladislav Levchenko, Ruslan Bohovyk, Alexander Staruschenko
Molecular Pharmacology and Physiology, University of South Florida, Tampa, Florida, United States

MP-32 Megalin and lysosomal disruption in the kidney epithelial cells of high salt diet fed rats: protective role of angiotensin II type 2 receptor

Kalyani Kulkarni¹, Sanket Patel¹, Tahir Hussain²

¹Pharmacological and Pharmaceutical Sciences, University of Houston, Houston, Texas, United States, ²UNIVERSITY OF HOUSTON, Houston, Texas, United States

MP-33 A20 in the Kidney Epithelium Attenuates Angiotensin II-induced Hypertension by Constraining Renal Tubular NHE3 Expression

Xiaohan Lu¹, Jiafa Ren¹, Yi Wen¹, Robert Griffiths¹, Ting Yang¹, Gianna Hammer¹, Jia L. Zhuo², Steven D. Crowley¹

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MP-34 Muscle Sodium Content and Isolevuglandin Formation in Antigen Presenting Cells in Human Salt Sensitive Hypertension

Mert Demirci¹, Lale A. Ertuglu², Melis Sahinoz², Ashley Mutchler⁴, Alexandria P. Haynes⁴, Sharia Yasmin⁴, Mohammad Saleem⁴, Taseer Ahmad⁴, Rachele Crescenzi³, Michael Pridmore³, Cheryl L. Laffer⁴, Alp Ikizler¹, Annet Kirabo⁴

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MP-35 Angiotensin II-induced vascular response is enhanced by Extracellular Vesicles

Jin Wei², Jing Wu³, Luca Musante⁶, Ruisheng Liu⁵, Jing Liu⁴, Morgan Greig¹, Michael Harding¹, Thu H. Le⁴, Uta Erdbruegger¹

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MP-36 Excessive ATP Promotes Hypertension Via Stimulating T cells

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Posters

P-300 Modulation of Osmolyte Levels by ACE Inhibitors and SGLT-2 Inhibitors in Normotensive Rats

Mateusz Rybka¹, Lukasz Mazurek¹, Mateusz Szudzik¹, Emilia Samborowska², Marcin Ufnal¹, Marek Konop¹

¹Medical University of Warsaw, Warszawa, Poland, ²Polish Academy of Sciences, Warsaw, Poland

P-301 A Meta-Analysis of Randomized Controlled Trials: Aldosterone Synthase Inhibitors as a Therapeutic Strategy for Hypertension

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P-302 Impact of Publication of Hypertension Guidelines on Inappropriate Use of Intravenous (IV) Antihypertensive Medications for Hypertensive Urgencies (HU)

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P-304 A Prescription Trend Analysis of Antihypertensive Pharmacotherapy across Different Specialties in India

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P-305 Resolution of Resistant Hypertension with Unilateral Adrenalectomy in Bilateral Primary Aldosteronism: A Case Report from Jordan

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P-306 Aldosterone levels are associated with hypertension in post-menopausal women: the Study of Women's Health Across the Nation

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P-307 A Review Of The Burden, Management And Outcomes Of Patients With Aldosterone Dysregulation

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P-308 High Prevalence of Secondary Hypertension with Prospective Systematic Screening

Domenico Bagordo¹, Tungalagtamir Shagjaa², FEDERICO BERNARDO ROSSI¹, Giovanni Pintus³, Chiara Zanon¹, Eleonora Bertoli¹, Clement Byiringiro¹, Teresa M. Seccia¹, Gian Paolo P. ROSSI¹

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P-309 Vasodilating Effects of Macrolides: ex vivo and in vivo study

Clement Byiringiro¹, Ana M. Briones², Ana Garcia², Brasilina Carocchia¹, Teresa M. Seccia¹, Gian Paolo P. ROSSI¹

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P-310 Subclinical primary aldosteronism is associated with an increased risk of major adverse cardiovascular events

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P-311 Revisiting unattended vs attended automated office blood pressure measurements: A systematic review and meta-analysis

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P-312 Comparing Activity Logs in 24-hour Ambulatory Blood Pressure Monitoring

Carter Baughman¹, Janet Monroe¹, Emma Hanlon¹, Keerthi Bandi¹, Fredrick Larbi¹, Jennifer Cluett², Ruth-Alma N. Turkson-Ocran¹, Lariel Hadrick¹, Stephen P. Juraschek¹

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P-313 Diastolic to Systolic Arterial stiffening has Greater Prognostic Power than Diastolic Stiffness in 20-60 Years Old Patients Undergoing 24-Hour Ambulatory Blood Pressure Monitoring

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P-314 A Community Outreach Program Focused on Hypertension Awareness Reaches 600+ People in Rural Georgia and Works to Build the Next Generation of Biomedical Scientists

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P-315 Using Home Blood Pressure Monitors in the Office Setting as an Alternative to Automated Office Blood Pressure: A Quality Improvement Project

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P-316 Beyond the Cuff: Revolutionizing Hypertension Care through Human-Centered Design and Tech-Driven Solutions in an Urban Community Health Center

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P-317 Are Home Blood Pressure Devices Accurate? A Systematic Review of the Evidence

Swapnil Hiremath, Brayden Sterling, Isaac Glassman, Marcel Ruzicka

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P-318 English and Spanish-Speaking Patient Preferences on Home Blood Pressure Monitors: A Qualitative Study in an Urban Safety Net Setting

Vivian E. Kwok¹, Jonathan Shih¹, Isabel Luna¹, Hyunjin Kim¹, Faviola Garcia¹, Christian Gutierrez¹, Mahal Miles¹, Courtney Lyles², Elaine C. Khoong¹

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P-319 Organizational Determinants to Hypertension Management: A Qualitative Examination at Two Academic Learning Health Systems

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P-320 Novel Pulse Waveform Index Obtained by Ambulatory Blood Pressure Monitoring is Associated with Echocardiographic Ejection Fraction in Patients with Heart Failure

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P-321 Team-Based Care: A Winning Strategy for Managing Hypertension

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P-322 Assessing the causal associations of obstructive sleep apnea syndrome and hypertension: a bidirectional two-sample Mendelian randomization study

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P-323 Pre-Hypertension And Its Determinants In Apparently Healthy Medical Undergraduates Of An Indian Tertiary Care Setting

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P-324 Masked Hypertension Mimicking Migraine: A Case Report with Diagnostic Odyssey

Sruthi Chitralla², Nishanth Mantripragada³, Tarun Kumar Suvvari⁴, Nayanika Tummala¹, Jaideep Menda⁶, Aasim Akthar Ahmed⁵

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P-325 Additive effect of nighttime blood pressure on left ventricular strain in patients with primary aldosteronism evaluated via cardiac magnetic resonance tissue tracking

Jindong Wan, Sen Liu, Yi Yang, Xinquan Wang, Dan Wang, Peng Zhou, Peijian Wang

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P-326 Measuring Health Equity Gaps for a Blood Pressure Control Quality Improvement Program: Results from Cook County Health

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P-327 Comparing the Blood Pressure Response to Antihypertensive Treatment Intensification and Dose Increase to No Action for Uncontrolled Hypertension

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P-328 Regression to the Mean: Do confirmatory measurements influence the effect?

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P-329 Mycophenolate Mofetil Enhances Short-Term Blood Pressure Variability During Recovery in Salt-Sensitive Hypertensive African Americans

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P-330 Next-Gen Hypertension Control: Integrating Clinical Pharmacists And Cutting-Edge EPIC Electronic Medical Record For Quality And Result Driven Approaches at Federally Qualified Health Centers

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P-331 Simple Instruction and Provision of Literature on Low Salt Diet Ineffective in Reducing Salt Intake in Patients with Hypertension

Kausik Umanath, Ryann Sohaney, Douglas Atchison, EMMY ABRAHAM, Ruicong She, Indra Adrianto, Albert Levin, Sandeep Soman, Pablo A. Ortiz

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P-332 High Shared Decision-Making Scores Associated with Blood Pressure Control: The Office Guidelines Applied to Practice (Office-GAP) IMPACT Program

William Woodhams¹, Kyle Jones¹, Matthew Martz¹, Chucks Uwaje¹, Nephertiti Efeovbokhan², Zhehui Luo¹, Denise White-Perkins¹, Karen Kelly-Blake¹, William Hart-Davidson¹, Adesuwa Olomu¹

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P-333 Predicted Nationwide Health and Economic Impacts of the AMA MAP™ Hypertension Program to Improve Hypertension Control

Gregory Wozniak¹, Steven Dehmer², Brent M. Egan¹, Blaine Hardy², Michael Maciosek², Susan E. Sutherland¹, Stavros Tsipas¹

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P-334 Association Between Arthritis and Heart Failure Among People with Hypertension in United States

Chutawat KOOKANOK¹, Methavee Poochanasri², Narathorn Kulthamrongsri³, Tatchaya Kanthajan⁴, Varathavee Bhuriveth², Nicha Wareesawetsuwan⁵, Tulaton Sodsri⁶, Adivitch Sripusanapan⁷, Smuch Siramongkholkarn⁶, Sethapong Lertsakulbunlue², Nisha Wanichwecharungruang⁸, Voramol Rochanaroon¹, Kamonluk Rodsom⁵, Ekamol Tantisattamo¹

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P-335 An innate immune component in hypertension-induced cardiac dysfunction

Christoph Mora, Katherine Deck, Yunmeng Liu, Lance Benson, Tonya Rafferty, & Shengyu Mu

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P-336 The Diagnostic Value of Magnetocardiography for Left Ventricular Remodeling in Patients with Hypertension

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P-337 Impact of a population health approach using smartphone-enabled home albuminuria testing to improve screening in patients with hypertension or diabetes

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¹Geisinger, Danville, Pennsylvania, United States, ²Geisinger, Danville, Pennsylvania, United States, ³Geisinger, Danville, Pennsylvania, United States

P-338 Impaired Endothelial-Dependent Vasorelaxation and Myogenic Response in Renal Afferent Arterioles of Diabetic mice: Role of Endothelial NOX1, and New Gene Pathways.

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P-339 Association of Pre-Donation Blood Pressure with Kidney Function in Living Kidney Donors

Ekamol Tantisattamo¹, Chutawat KOOKANOK¹, Voramol Rochanaroon², Vitchapong Prasitsumrit³, Tulaton Sodsri⁴, Tatchaya Kanthajan⁵, Ariya Mongkolporn⁶, Varissara Sinkajareern⁷, Thutpharritchn Phoonakh⁷, Nopavit Mohpichai⁸, Wanprapit Noree⁹, Urairat Chuenchaem¹⁰, Methavee Poochanasri¹¹, Napat Suriyathumrongkul¹², Nisha Wanichwecharungruang¹³, Natnicha Jakramonpreeya⁴, Natee Deepan¹⁴, Vichayut Chayapinun⁸, Adivitch Sripusanapan¹⁵, Kamonluk Rodsom¹⁶, Smuch Siramongkholkarn¹⁷, Nicha Wareesawetsuwan³, Kanita Mankan¹⁵, Narathorn Kulthamrongsri¹⁸, Phuuwadith Wattanachayakul¹⁹

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P-340 Efficacy and safety of a novel single-pill combination (SPC) of allisartan isoproxil and sustained-release indapamide for uncontrolled hypertension by allisartan isoproxil monotherapy: a multicenter, randomized, double-blind, parallel-group phase III study

Han Cai¹, Zhuoqiang Lu², Jingwen Liu³, Yan Chen³, Chongyang Deng³, Shiyong He³, Jiawen Liu³, Jinxiu Lin²

¹National Regional Medical Center, Binhai Campus of the First Affiliated Hospital, Fujian Medical University, Fuzhou, China, ²First Affiliated Hospital, Fujian Medical University, Fuzhou, China, ³Shenzhen Salubris Pharmaceuticals Co., Ltd, Shenzhen, China

P-341 Orthostatic Hypertension Does Not Alter the Effect of Intensive Blood Pressure Treatment on Cardiovascular Disease and All-Cause Mortality: An Individual-Level Meta-analysis

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P-342 Sacubitril-Valsartan in Hypertension Patients with End-Stage Kidney Disease undergoing Dialysis: A Meta-Analysis

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P-343 Cerebral injury and cognitive performances are correlated with immunoinflammatory markers in hypertensive patients

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P-344 APOe Genotype Modifies the Association Between Long-Term Blood Pressure Variability and Cognitive Decline/Dementia in Older Adults

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P-345 Long-Term Blood Pressure Variability and Physical Performance Measures in Community-Dwelling Older Adults

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P-346 Expansion of meningeal lymphatic vessels in DOCA-salt hypertension

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P-347 Association between Blood Pressure, Left Ventricular Structure and Cognitive Function: Evidence from a Cohort Study in Preschool-aged Children

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P-348 Effects of Different Antihypertensive Regimens on Cognitive Function and Blood Pressure Changes in Elderly Hypertensive Patients: Network Meta-Analysis

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P-349 Prediabetes Increases the Risk of Frailty in Pre-frail Hypertensive Older Adults: Beneficial Effects of Metformin Treatment

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P-350 Circulating Endothelial microRNAs in Patients with INOCA and Diabetes Mellitus

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P-351 Obesity in Early Life Leads to Endothelial and Erectile Dysfunction in Young Adult Rats.

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P-352 Transcriptomic Effects of Prolonged Diet-Induced Obesity in Subtypes of Agouti-Related Peptide Neurons of the Hypothalamic Arcuate Nucleus

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P-353 Sexual dimorphism of blood pressure responses to angiotensin II in rats subjected to early life circadian stress

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P-354 Endothelial Sirt3 deficiency and SOD2 acetylation voids female protection from hypertension

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P-355 Multiomic Analyses Reveal Sex-specific Mechanisms Governing Cardiac Fibrosis.

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P-356 Sex-dependent Response of ATP-mediated Calcium in Renal Microvascular Smooth Muscle Cells in Ischemia-reperfusion Rats

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P-357 Renal Male and Female Cortical Mitochondria Display Bioenergetic Differences in Response to Varying Substrates

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P-358 Interaction of Cytochrome P450 (CYP) 4A10 and CYP1B1 in the Paraventricular Nucleus in the Angiotensin II-induced Hypertension and Neuroinflammation in Female Mice

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P-359 Greater NLRP3 in Males Results in a More Pro-Inflammatory T cell Profile, but Comparable Increases in Blood Pressure to Females with DOCA-Salt

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P-360 MicroRNAs: Potential Biomarkers and Therapeutic Targets for Hypertensive Nephropathy

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P-361 Characterization of a Constitutive Adiponectin-Cre Rat Reveals Expression in Adipocyte, Endothelial and Neuronal Lineages

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P-362 The Associations of Neighborhood Social and Built Environments with Ambulatory Blood Pressures in Young Adults of the Georgia Stress and Heart Cohort

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P-363 Prevalence of Hypertension in Kidney Transplant Recipients as Determined by Ambulatory BP Monitoring (ABPM)

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P-364 Chromatin Interactions Between Regulatory Elements Influence Gene Expression in Human iPSC-Derived Endothelial and Vascular Smooth Muscle Cells

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P-365 Prevalence of Hypertension in Minnesota Adults in 2023 Using Data from a Statewide Electronic Health Record Consortium

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P-366 Co-Created Intervention Promotes Uptake of Low Sodium Iodized Salt Substitute to Control Hypertension: Results from a Large Community-based Quasi-Experimental Study from India

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P-367 Cross-Species Epigenomic Maps of Intergenic Loci for Hypertension and Blood Pressure

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P-368 The Impact of Obesity on Patients Admitted for Hypertensive Emergency.

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P-369 Hospital Outcomes of Hypertensive Emergency in Black and White Patients.

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P-370 Dementia Does Not Increase Mortality in Patients Admitted for Hypertensive Emergency.

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P-371 Prevalence, Timing, and Location of Falls in an Older Population with Treated Hypertension

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P-372 Greater Long-Term Non-High Density Lipoprotein Cholesterol Variability From Childhood Is Associated With Higher Risk Of Early-Onset Hypertension: The Bogalusa Heart Study

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P-373 Statewide burden and Trend of Cardiovascular Disease attributable to High Systolic Blood Pressure in India from 1990-2021: An insight from the global burden of disease study 2021.

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P-374 Systolic blood pressure burden better predicts tau accumulation than a one-time measurement

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P-375 Cardiovascular Correlates of Hypertension in People With and Without HIV

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P-376 Klotho supplementation reverses senescence in aldosterone-salt hypertension.

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P-377 Short-Chain Fatty Acids Improve Cardiac Function in a Hypertensive Rat Model of Heart Failure

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P-378 Impaired Diurnal Control of Blood Pressure and Sodium Excretion in Aged Hypertensive Male Sprague Dawley Rats

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P-379 High Fiber Diet Attenuates Age-dependent Hypertension, Gut Dysbiosis, and Cognitive Impairment in Male Sprague Dawley Rats

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P-380 ISG15 is responsible for endothelial inflammation and vascular dysfunction induced by Spike protein 1 of SARS-CoV-2.

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P-381 Sex differences in association between gut microbiome and 24-hour blood pressure variability

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P-382 The protective role of elevated oral microbial levels in adult hypertension: NHANES 2009-2012

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P-383 Increased renal afferent nerve activity and peak response to pro-inflammatory cytokine interleukin 6 in isolated dorsal root ganglion neurons from hypertensive rats

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P-384 Deletion of the Transient Receptor Potential Vanilloid-1 (TRPV1) in Rats Attenuates Renal Sensory Nerve Responses to Renal Artery Occlusion but not Elevated Pelvic Pressure

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P-385 Effects Of a High Salt Diet On Glutamatergic Signaling In The Nucleus Of The Solitary Tract And Baroreflex Sensitivity

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P-386 Predictors of Home Blood Pressure Response to Ultrasound Renal Denervation

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P-387 Survival trajectories of the patients with malignant hypertension in the Rice Diet Program

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P-388 Electrical Stimulation of the Porcine Carotid Sinus Nerve Reliably Decreases Blood Pressure and Heart Rate

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P-389 Immunogenic Peptides Responsible for Experimental Hypertension Contribute to Systemic Lupus Erythematosus

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P-390 The Adipokine Chemerin Does Not Promote Activation or Cytokine Secretion by T Cells Stimulated With a Strong Polyclonal Activator

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P-391 Role of Renal Dopamine D2 Receptor in Inverse Salt Sensitivity and Salt Sensitivity of Blood Pressure: Insights from Nephron Segment-Specific Deletion Models

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P-393 Isolevuglandins Regulate Chromatin Accessibility in Hypertensive Human Monocytes

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P-394 Pre-Existing Hypertension Intensifies Blood Brain Barrier Leakage But Not Astrogliosis Or Microgliosis After Traumatic Brain Injury In Mice

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P-395 Activated T cells from Bph/2 Mice Have an Attenuated Cytokine Response to a Polyclonal T Cell Activator Compared to T cells from Bpn/3 Mice

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P-396 A Selective Agonist of the Beta 2 Retinoic Acid Receptor Reduces Necrosis, Lipid Peroxidation, and Oxidative Stress in Doxorubicin-induced Cardiotoxicity

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P-397 Effects of Dietary Sodium Reduction on Systemic Inflammation: Findings from DASH-Sodium Study

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P-398 The effects of care by hypertension specialists on cardiovascular outcome, blood pressure control and cost-effectiveness among uncontrolled hypertensive patients

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P-399 Defining A Negative Space: A Scoping Review of Hypertension

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P-400 Adherence to First Line Antihypertensive Medication Prescription Recommendations by Race

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P-401 Documentation of Elevated Blood Pressure Measurements in the Emergency Department: Exploratory Analysis of Factors Associated with Discussion and Comparison to Other Settings

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P-402 The Impact of Preeclampsia Education in Rural Communities

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P-403 Implementation of Knowledge Exchange Sessions to Catalyze Advancement of Sustainable Community-Clinical Relationships that Prioritize Hypertension Control.

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P-404 Using Target: BPTM Initiative Resources and Awards To Improve Evidence-Based Practice Adoption And Blood Pressure Control

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P-405 Integrating Self-Measured Blood Pressure Device Data Into Electronic Health Records – Barriers And Solutions

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P-406 Transforming Clinical Practices for Blood Pressure Management in Community Health Centers through Timely Data and Technical Support

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P-407 Sex and age differences in cardiovascular health in youth referred for hypertension disorders at baseline: A SUPERHERO Registry analysis

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P-408 Association of Social Risk Factors with Cardiovascular-Kidney-Metabolic Syndrome at Baseline in Youth with Hypertension Disorders: A SUPERHERO Analysis

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P-409 Cardiovascular Health Assessment and Intervention by AHA Pediatric Risk Category in Youth with Hypertension Disorders: a SUPERHERO Analysis

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P-410 Association Between Maternal Magnesium and Offspring Blood Pressure at 4 Years of Age: A Birth Cohort Study

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P-412 Pulmonary Hypertension in Patients with Preeclampsia: Prevalence, Predictors and Associated In-Hospital Adverse Events

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P-413 Altered Redox Status in Women With High-risk Pregnancy and Preeclampsia Between Trimesters

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P-414 Association between postpartum sleep and blood pressure reduction in women with hypertensive disorders of pregnancy

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P-415 The Current Cardiac Disease in Pregnancy -II Risk Score as a Predictor of Pregnancy Morbidity is Not Affected by Maternal Obesity

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P-416 RAAS Profiling in Human Pre-eclampsia Reveals Distinct Aldosterone Phenotypes

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P-418 Placental small-RNA sequencing reveals a distinct microRNA signature and its functional relevance in a preeclamptic rat model

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P-419 Left Ventricular Diastolic Dysfunction in Preeclamptic Patients: A Systematic Review and Meta-Analysis

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P-420 Amino acid and organic acid signature in urine of prepubescents with higher cardiometabolic risk evaluated by waist-to-height ratio

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P-421 Differential Osmolyte Profiles in Hypertensive and Normotensive Rats.

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P-422 Neuropeptide FF and Its Receptor NPFFR2 Decrease Renal Sodium Excretion and Increase Blood Pressure in Mice

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P-423 Blood Pressure and Renal Function Outcomes After Revascularization of Renal Artery Stenosis in Patients from 3 Different Clinical Settings

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P-424 Podocyte Cell-Specific Guanylyl Cyclase/Natriuretic Peptide Receptor-A is Required for Blood Pressure and Renal Hemodynamics in Sex-Specific Manner

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P-425 Role of 24h UNaK ratio in patients with hypertension and resistant hypertension by gender and race

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P-426 Reduced *Nfatc1* Expression Results in Enhanced Pressure Natriuresis and Resistance to Salt-Sensitive Hypertension

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P-427 Novel SNVs of NBCe1, D405E and I803M mutants, reduced cell-surface expression and transport activity.

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P-428 Angiotensin II vascular abnormalities in 32.5% of 3322 patients with essential hypertension(EH): Use of angiotensin II analogue, saralasin.

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P-429 Stronger Association of Angiotensinogen with Mortality than Renin or Lactate in Critical Illness

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P-430 Angiotensin-(1-7) Induces A Decrease In Proinflammatory Genes Expression Through A Mas Receptor-Mediated Translocation To Brainstem Nuclei Of Spontaneously Hypertensive Rats

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P-431 Crosstalk Between Dopamine Receptors and AT1R in Hypertension Induced Cardiac Remodeling

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P-432 Screening for Primary Aldosteronism: Effect of Test and Cutoff Level on Positivity Rate

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P-433 Impaired Renin Activity in a Bicistronic *Ren1^c-T2A-tdTomato* Reporter Mouse

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P-434 Piezo2 Channels in JG cells do not Regulate Renin Expression or Renin Release to the Circulation

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P-435 PROTEIN KINASE MODULATION IN THE INVESTIGATION OF ANGIOTENSIN-CONVERTING ENZYME AS A SIGNALING PATHWAY.

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P-436 Prorenin Increases the Firing Activity of Hypothalamic Arcuate Nucleus AgRP Neurons

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P-437 Correlation between plasma CT-proET-1 and renal dysfunction in patients with resistant hypertension. A biomarker analysis of the PRECISION study.

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P-438 Is apocritentan also sympatholytic in patients with resistant hypertension?

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P-439 An Uncommon and Missed Diagnosis of Hypertension: Fibromuscular Dysplasia

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P-440 Discovery of clinical candidate GSC002219, a highly selective oral CYP11B2 inhibitor for hypertension

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P-441 A Curious Case of Salt-Sensitive Hypertension

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P-442 Impact of arterial stiffness on the blood pressure lowering effect of the dual endothelin antagonist apocritentan in patients with resistant hypertension

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P-443 Role of miRNA-99a, endothelial mineralocorticoid receptor and CD36 in arterial stiffening

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P-444 Radial pulse wave velocity measurement method with dual ultrasound probe for low power wearables

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P-445 High Salt Intake Increases Arterial Stiffness Measured by Pulse Wave Velocity in Spontaneously Hypertension Rats

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P-446 Prediction of Cardiovascular Events by Algorithm- and Formula-based Pulse Wave Velocity: An Analysis of CARTaGENE

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P-447 Impact of Altered Receptor Expression On the Cardiovascular Response to Estrogen

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P-448 Follistatin Improves Vascular Function by Regulating Perivascular Adipose Tissue in Essential Hypertension

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P-449 A Murine Model of Mid-Thoracic Aortic Coarctation

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P-450 A dual probe ultrasound vector Doppler method for a robust and reliable estimation of blood flow volume and pulse wave velocity on the carotid artery

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P-451 Effects of Perivascular Adipose Tissue on Arterial Stiffness in an Adiposity-Driven Hypertension Model: A Longitudinal Study

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P-452 Cell Populations and Transcriptomes Differ Across Blood Pressure and Sex in Perivascular Adipose Tissue: A Single-Nuclei RNA Sequencing Study

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P-453 Dissecting tunica responsibility in arterial stress relaxation: Smooth muscle need not apply

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P-454 Screening of risk genes for carotid vulnerable plaque based on transcriptomics and experimental verification

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P-455 Integrins play a role in stress relaxation of perivascular adipose tissue

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P-456 Loss of Renal Resident Tissue Macrophages Reduces Nitric Oxide-Mediated Relaxation during Salt-Sensitive Hypertension

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