



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>	
	Poster Numbers
Aldosterone, Receptors and Signal Transduction	100- 103
Antihypertensive Drugs and Pharmacology	104-105
Blood Pressure Monitoring	106-112
BP Control and Adherence to Treatment	113-118
Cardiac Hypertrophy and Dysfunction	119-124
Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors	125-129
Clinical Trials in Hypertension and Related Morbidities	130-131
Cognition, Cerebrovascular Disease and Stroke	132-134
Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome	135-140
Gender Differences and Sex Hormones	141-149
Genetics, Epigenetics and Epidemiology	150-152
Hypertension and Aging	153-165
Microbiome, Infection and Hypertension	166-168
Neurogenic Mechanisms	169-173
Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)	174-175
Oxidative Stress, Inflammation, Immunity and Cytokines	176-184
Patient-Provider-Healthcare System Issues	185-186
Pediatric and Adolescent Hypertension	187-188
Pregnancy, Preeclampsia and Developmental Programming	189-197
Proteomics and Metabolomics	198
Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension	199-206
Renin-Angiotensin System	207-216
Resistant Hypertension	217-218
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
<u>Posters</u>	Poster Numbers
Antihypertensive Drugs and Pharmacology	300-304
Aldosterone, Receptors and Signal Transduction	305-310
Blood Pressure Monitoring	311-326
BP Control and Adherence to Treatment	327-333
Cardiac Hypertrophy and Dysfunction	334-336
Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors	337-339
Clinical Trials in Hypertension and Related Morbidities	340-342
Cognition, Cerebrovascular Disease and Stroke	343-348
Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome	349-352
Gender Differences and Sex Hormones	353-359
Genetics, Epigenetics and Epidemiology	360-367
Hypertension and Aging	368-378
Microbiome, Infection and Hypertension	379-382
Neurogenic Mechanisms	383-385
Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)	386-388
Oxidative Stress, Inflammation, Immunity and Cytokines	389-397
Patient-Provider-Healthcare System Issues	398-406
Pediatric and Adolescent Hypertension	407-410
Pregnancy, Preeclampsia and Developmental Programming	411-419
Proteomics and Metabolomics	420-421

Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension	422-427
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

Francisco J. Rios¹, Livia L. Camargo², Augusto C. Montezano³, Rhian M. Touyz⁴

¹RI-MUHC, Montreal, Quebec, Canada, ²McGill University Health Centre, Montreal, Quebec, Canada, ³McGill University Health Centre, Montreal, Quebec, Canada, ⁴McGill University, Montreal, Quebec, Canada

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 Caroccia, Giovanni Bertoldi, Eva Kohlscheen, Maurizio Iacobone, Teresa M. Seccia, gianpaolo rossi
University Hospital School of Padua, Padova, Italy

P-102 Reducing Testing Burden in Patients Screened for Primary Aldosteronism

Zachary Settlemeyer¹, John M. Flack², Annah Carney¹, Vivek Prakash³, ashley hill⁴, Stephanie Bitner⁵, Albert Botchway⁶, Kristin E. King¹, Michael Buhnerkempe⁷

¹Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ²Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ³Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ⁴Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ⁵Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ⁶Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States, ⁷Internal Medicine, Southern Illinois University School of Medicine, Springfield, Illinois, United States

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

Hala Ajjour¹, Livia Lenzini¹, Giorgia Pallafacchina², Brasilina Caroccia³, Gian Paolo D. ROSSI⁴

¹Department of Medicine-DIMED, University of Padova, Padova, Italy, ²Department of Biomedical Sciences, Neuroscience Institute -Italian National Research Council (CNR)-university of Padova, Padova, Italy, ³University of Padua, Padua, Italy, ⁴DIMED CLINICA DELLIPERTENSIONE, Padova, Italy

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

Edwyn O. Cruz-Lopez¹, Alexandre G. Martini³, Don Foster², Ivan Zlatev², Anne Kasper², Maria Luisa S. Sequeira³, Ariel R. Gomez³, Jan H. Danser¹

¹Internal Medicine, Erasmus MC, Rotterdam, Zuid-Holland, Netherlands, ²Alnylam Pharmaceuticals, Roslindale, Massachusetts, United States, ³UNIVERSITY VIRGINIA, Charlottesville, Virginia, United States

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

¹Fuwai Hospital, Beijing, China, ²Yale University, New Haven, Connecticut, United States, ³Shenzhen Clinical Center for Cardiovascular Diseases, Fuwai Hospital Chinese Academy of Medical Sciences, Shenzhen, Shenzhen, China, Shenzhen, China

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

Ayinuer Abudukeremu, Nanfang Li, Qin Luo

People's Hospital of Xinjiang Uygur Autonomous Region, Urumqi, Xinjiang, China

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

Mawulorm Denu¹, Sravya Shankara¹, Cassie Shao², Katherine Tak³, Kelton Do¹, Lara Kovell⁴

¹UMass Chan Medical School, Worcester, Massachusetts, United States, ²University of Massachusetts Chan Medical School, Weston, Massachusetts, United States, ³UMass Chan Medical School, Worcester, Massachusetts, United States, ⁴UMass Medical School, Worcester, Massachusetts, United States

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

Akinwale C. IYERU¹, Navazh Jalaludeen³, Omar Mukhtar⁵, Carmel M. McEniery⁴, Dike Ojji⁶, Joseph Cheriyian³, Ian B. Wilkinson²

¹Department of Medicine, University of Wisconsin Hospital, Madison, Wisconsin, United States, ²University of Cambridge, Cambridge, United Kingdom, ³Cambridge University Hospitals NHS, Cambridge, United Kingdom, ⁴Cambridge, United Kingdom, ⁵University of Cambridge, Cambridge, United Kingdom, ⁶University of Abuja, Gwagwalada, Abuja, Nigeria

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

Manav Parikh³, Aravind Krishnan⁴, Aurora Yuan³, Kent Bream², Vishnu Potluri¹

¹Renal-Electrolyte and Hypertension Division, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania, United States, ²Department of Family Medicine & Community Health, University of Pennsylvania Health System, Philadelphia, Pennsylvania, United States, ³College of Arts and Sciences, University of Pennsylvania, Philadelphia, Pennsylvania, United States, ⁴College of Arts and Sciences, Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania, United States

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
Mount Sinai Hospital, New York, New York, United States

P-112 Modifiable Factors Associated with Elevated Mean Arterial Pressure after Lower-Limb Loss

Samantha Stauffer¹, Frank Sarlo², John Horne³, Jaclyn M. Sions¹

¹Physical Therapy, University of Delaware, Newark, Delaware, United States, ²Christiana Spine Center, Newark, Delaware, United States, ³Independence Prosthetics-Orthotics, Newark, Delaware, United States

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

Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

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

Susan Kioko¹, Christina Council², Cecilia Tomori¹

¹Johns Hopkins University, Frederick, Maryland, United States, ²Drexel University, Philadelphia, Pennsylvania, United States

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

Man Wang¹, Haibin Li²

¹Beijing Friendship Hospital, Capital Medical University, Beijing, China, ²Beijing Chaoyang Hospital, Capital Medical University, Beijing, China

P-116 Hypertension Treatment and Control in Canadians with Diabetes

Sachin Vidur V. Pasricha¹, Lisa Dubrofsky², Bailey Goldman¹, Sheldon W. Tobe³

¹University of Toronto, Toronto, Ontario, Canada, ²Women's College Hospital, Toronto, Ontario, Canada, ³SUNNYBROOK HEALTH SCIENCES CENTRE, Toronto, Ontario, Canada

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

Yacob Tedla¹, Philip Greenland², Abel Kho³, Russell Rothman⁴

¹Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²FEINBERG SCH OF MEDICINE, Chicago, Illinois, United States, ³Northwestern University, Chicago, Illinois, United States, ⁴Vanderbilt University Medical Centre, Nashville, Tennessee, United States

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

Biyang Xu¹, Melissa Lowe¹, Vladislav Levchenko¹, Christine A. Klemens¹, Christopher T. Banek², Alexander Staruschenko¹

¹University of South Florida, Tampa, Florida, United States, ²University of Arizona, Tucson, Arizona, United States

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

Patricio Araos¹, Stefanny Figueroa², Gabriela Arenas², Javier I. Reyes Osorio², Javiera Saez², JACKELINE MOYA⁴, Ruth sepulveda⁴, Joaquin Rojas⁴, Maria Jose Fuenzalida³, Luigi Gabrielli⁴, Jorge Jalil⁴, Maria Paz ocaranza⁴, Cristian Amador²

¹Hypertension and Kidney Immunology Lab, Institute of Biomedical Science, Universidad Autónoma de Chile, Santiago, Chile, ²Laboratory of Renal Physiopathology, Faculty of Medicine and Science, Universidad San Sebastián., Santiago, Chile, ³Fundación Ciencia y Vida, Universidad San Sebastián, Santiago, Chile, ⁴Cardiovascular Diseases Division, Pontificia Universidad Católica de Chile, Santiago, Chile

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

venkata sai harshabhargav chenna⁵, Darshine Venugopal¹⁴, Ashutosh R. Rangani⁸, Ratan Pal Yadav¹³, Saif Syed¹⁰, Aayushi Desai⁹, Shrey Goel¹¹, Khushbu Patel⁶, Ashwinikumar Shandilya⁴, ROHAN RAJ⁷, JUHI PATEL², HARDIK D. DESAI³, Mohit Lakkimsetti¹², VISHRANT AMIN¹

¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ³Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁴Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ⁵University of Perpetual Help System Dalta., Dalta, Ukraine, ⁶Index Medical College, Hospital & Research Center, Indore, Indore, India, ⁷Nalanda Medical College and Hospital, Patna, Patna, India, ⁸Ternopil National Medical University, Ternopil, Ukraine, ⁹GMERS Medical College Gandhinagar, Gandhinagar, India, ¹⁰Royal college of Surgeons, Dublin, Ireland, Dublin, India, ¹¹Government Medical College and Hospital, Chandigarh, Chandigarh, India, ¹²Mamata Medical College, Khammam, Khammam, India, ¹³NRI Medical College, Guntur, India, ¹⁴University of Illinois college of medicine, Peoria, Illinois, United States

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

Sydney E. Hartsell¹, Guo Wei¹, Shalini Kasera¹, Ravinder Singh², Amara Sarwal¹, McKenna R. Nevers³, Robert E. Boucher¹, Srinivasan Beddhu¹

¹Internal Medicine, University of Utah, Salt Lake City, Utah, United States, ²Population Health Sciences, University of Utah School of Medicine, Salt Lake City, Utah, United States, ³Epidemiology, University of Utah School of Medicine, Salt Lake City, Utah, United States

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

Ramana Vaka, Nathan Campbell, Kristin Edwards, Ngoc Hoang, Baoying Zheng, Babbette B. Lamarca
UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, Mississippi, United States

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

Muhammad Yousuf², Muhammad Usman Almani¹

¹Cardiology, Jefferson Einstein Philadelphia Hospital, Philadelphia, Pennsylvania, United States, ²Quaid-e-Azam Medical College, Bahawalpur, Pakistan

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

Kuo Zhang

Department of Cardiology, Fuwai Hospital, National Center for Cardiovascular Diseases, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

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

Ariane Bruder do Nascimento, Rafael Costa, Thiago Bruder

University of Pittsburgh, Pittsburgh, Pennsylvania, United States

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

Mert Demirci¹, Dungeng Peng¹, Anthony DeMatteo¹, Jennifer E. Norman², Gwenaelle Begue³, Baback Roshanravan², Alp Ikizler¹, Jorge L. Gamboa¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²University of California Davis, Davis, California, United States, ³California State University Sacramento, Sacramento, California, United States

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

¹University of Rochester, Rochester, New York, United States, ²Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ³Physiology, University of Arizona, Tucson, Arizona, United States

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

Elizabeth M. Hennen¹, Jeffry Nyman², David G. Harrison²

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

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

Chutawat KOOKANOK⁵, Kamonluk Rodsom², Methavee Poochanasri¹, Wanprapit Noree², Urairat Chuenchaem⁵, Sethapong Lertsakulbunlue³, Thutpharritchn Phoonakh⁵, Varathpavee Bhuriveth¹, Natee Deepan⁴, Ekamol Tantisattamo⁵

¹Phramongkutklao College of Medicine, Bangkok, Thailand, ²Department of Medicine, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand, Bangkok, Thailand, ³Pharmacology, Phramongkutklao College of Medicine, Bangkok, Thailand, ⁴Chulalongkorn university, Bangkok, Thailand, ⁵University of California Irvine, Orange, California, United States

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

Yujie Cui, Junyi Zhang, Yufeng Jiang, Yafeng Zhou

The Fourth Dushu Lake Hospital affiliated to Soochow University, Suzhou, Jiangsu, China

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

YoungJae ki

chosun university college of med, Gwangju, Korea (the Republic of)

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

Xing Fang¹, Huawei Zhang¹, Jane Ryu¹, Fan Fan², Richard J. Roman¹

¹Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, Mississippi, United States, ²Augusta University, Augusta, Georgia, United States

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

parvinder kaur², Mahendra Kumar³, Deval Surana¹⁴, Mohith S. Nuthalapati⁵, Sree Abhilekha Purohit⁶, Tapan R. Giri⁴, Saif Syed⁷, Ashwinikumar Shandilya⁸, Mohit Lakkimsetti⁹, Nayanika Tummala¹³, ROHAN RAJ¹⁰, JUHI PATEL¹, HARDIK D. DESAI¹¹, VISHRANT P. AMIN¹²

¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ²The Crimean State Medical University, Simferopol, Ukraine, ³Sardar Patel Medical College, Bikaner, India, ⁴BJ Medical College, Pune, India, ⁵Katuri Medical College And Hospital, Guntur, India, ⁶Shadan Institute of Medical Sciences, Hyderabad, India, ⁷Royal college of Surgeons, Dublin, Ireland, ⁸Pravara institute of medical sciences., Loni, India, ⁹Mamata Medical College, Khammam, India, ¹⁰Nalanda Medical College and Hospital, Patna, India, ¹¹Gujarat Adani Institute of Medical, AHMEDABAD, India, ¹²G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ¹³Gitam Institute of Medical Sciences, Vishakapatnam, India, ¹⁴Surat Municipal Institute of Medical Education and Research (SMIMER), Surat, India

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

¹Department of Internal Medicine, Spencer Fox-Eccles School of Medicine, Division of Epidemiology, University of Utah, Salt Lake City, Utah, United States, ²Intermountain Healthcare Department of Population Health Sciences, Divisions of Health System Innovation and Research and Biostatistics, Spencer Fox-Eccles School of Medicine, University of Utah, Salt Lake City, Utah, United States, ³Geriatrics Division, Spencer Fox Eccles School of Medicine, University of Utah, Salt Lake City, Utah, United States, ⁴Section on Geriatric Medicine and Gerontology and the Kulynych Center for Alzheimer's Prevention, Wake Forest School of Medicine, Winston-Salem, North Carolina, United States, ⁵Department of Biostatistics and Data Science, Wake Forest School of Medicine, Winston-Salem, North Carolina, United States, ⁶Department of Medicine, Renal-

Electrolyte Department of Medicine, Renal-Electrolyte and Hypertension Division, Perelman School of Medicine, University of Pennsylvania, New Hope, Pennsylvania, United States, ⁷Department of Epidemiology, School of Public Health, Boston University, Boston, Massachusetts, United States, ⁸Banner Alzheimer's Institute, Phoenix, Arizona, United States

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

An-Tian Chen, Jian Zhang, Yuhui Zhang

Cardiology, State Key Laboratory of Cardiovascular Disease, Fuwai Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College/National Center for Cardiovascular Diseases, Beijing, China

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

Wataru Fujii¹, Osamu Yamazaki¹, Yuta Kochi², Shigeru Shibata¹

¹Nephrology Department, Faculty of Internal Medicine, Teikyo University School of Medicine, Tokyo, Japan, ²Department of Genomic Function and Diversity, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

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

Chungsoo Kim¹, Yuntian Liu¹, Ania M. Jastreboff¹, Rohan Khera¹, Harlan M. Krumholz¹, John E. Brush², Yuan Lu¹

¹Yale School of Medicine, New Haven, Connecticut, United States, ²Sentara Healthcare, Norfolk, Virginia, United States

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

Benjamin Knick, Kanwar Bhullar, Catherine Deuchler, Stephen Fischer, Gina Lee, Joseph Gigliotti
Liberty University College of Osteopathic Medicine, Fishersville, Virginia, United States

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

Tiago Tomazini Goncalves¹, Wessan Alnouri², Stefan Offermanns², Luiz Osorio Silveira Leiria³

¹Cardiovascular Translational Research Center, University of South Carolina, Columbia, South Carolina, United States, ²MPI for Heart and Lung Research, Bad Nauheim, Germany, ³Department of Pharmacology, University of Sao Paulo - Ribeirao Preto School of Medicine, Ribeirao Preto, Sao Paulo, Brazil

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

Beth Israel Deaconess Medical Ctr-Harvard Medical School, Boston, Massachusetts, United States

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

Pritam Bardhan¹, Xue Mei¹, Blair Mell¹, Ramakumar Tummala¹, Sachin Aryal¹, Ishan Manandhar¹, Ying Li², Hongbao Li², Bina Joe¹, Tao Yang¹

¹Department of Physiology & Pharmacology, The University of Toledo, Toledo, Ohio, United States, ²Department of Physiology and Pathophysiology, Xi'an Jiaotong University School of Basic Medical Sciences, Xian, China

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

Breland Crudup¹, Jordan Mallette², Harley Nabors¹, Alex Willis¹, Kathy Cockrell¹, Alexandre A. Da³, Licy Yanes Cardozo⁴, Barbara T. Alexander⁵

¹University of Mississippi Medical Center, Jackson, Mississippi, United States, ²University of Mississippi Medical Center, Madison, Mississippi, United States, ³Univ. Mississippi Medical Center, Jackson, Mississippi, United States, ⁴Univ. of Mississippi Medical Center, Jackson, Mississippi, United States, ⁵Physiology, University of Mississippi medical Center, Brandon, Mississippi, United States

P-144 Estrogen Worsens Kidney Function in Hypertensive Menopausal Rats

Ana Paula O. Leite¹, Hannah Petillo², Sophia A. Blessinger¹, Jill Daniel³, Sarah H. Lindsey²

¹Pharmacology Department, Tulane University, New Orleans, Louisiana, United States, ²Tulane University, New Orleans, Louisiana, United States, ³Department of Psychology and Brain Institute, Tulane University, New Orleans, Louisiana, United States

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

Jordan Mallette¹, Breland Crudup², Alex Willis¹, Kathy Cockrell¹, Licy Yanes Cardozo³, Barbara T. Alexander⁴

¹University of Mississippi Medical Center, Madison, Mississippi, United States, ²University of Mississippi Medical Center, Jackson, Mississippi, United States, ³Univ. of Mississippi Medical Center, Jackson, Mississippi, United States, ⁴Physiology, University of Mississippi medical Center, Brandon, Mississippi, United States

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, Advije Ergul, Melissa Cunningham, Justin P. Van Beusecum

Medical University of South Carolina, Charlotte, North Carolina, United States

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

Ishara M.G. Menik¹, Coleton Jordan¹, Candee Barris¹, Simone Kennard¹, Frederic JAISSE², Eric J. Belin De Chantemele¹

¹Augusta University, Augusta, Georgia, United States, ²Cordeliers Research Centre, Paris, France

P-148 Loss of Ovarian Estrogen Downregulates Renal Steroidogenesis

Victoria Nasci, Eman Gohar

Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

¹BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³Beth Israel Deaconess Medical Ctr, Boston, Massachusetts, United States, ⁴NYU Grossman School of Medicine, New York, New York, United States, ⁵JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland, United States, ⁶University of Minnesota, Minneapolis, Minnesota, United States, ⁷UMMC, The MIND Center, Jackson, Mississippi, United States, ⁸Public Health, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States

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

Moiud Mohyeldin¹, Ahmed M. Mustafa², Feras O. Mohamed³

¹Medicine, BronxCare Health System, Bronx, New York, United States, ²Medicine, Salaam Clinic, Cleveland, Ohio, United States, ³Diagnostic and Interventional Radiology, TMC Memorial Herrman Hospital, Houston, Texas, United States

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

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

¹Johns Hopkins University, Baltimore, Maryland, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, United States, ³JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland, United States, ⁴Johns Hopkins University, Baltimore, Maryland, United States

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

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

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

Rinaldo R. dos Passos¹, Emily Wilson², Tiago JanuarioDa Costa³, Cintia Vieira¹, Milene Fontes¹, Emily W. Waigi⁴, Paul Townsend Jr⁵, Joseph McQuail¹, Camilla F. Wenceslau⁶, R Clinton C. Webb⁷, Cam McCarthy⁸

¹University of South Carolina, Columbia, South Carolina, United States, ²University of South Carolina SOM, Columbia, South Carolina, United States, ³South Carolina School of Medicine, Columbia, South Carolina, United States, ⁴University of South Carolina, Columbia, South Carolina, United States, ⁵Cardiovascular Translational Research Center, University of South Carolina SOM, Columbia, South Carolina, United States, ⁶University Of South Carolina, Columbia, South Carolina, United States, ⁷UNIVERSITY OF SOUTH CAROLINA, Columbia, South Carolina, United States, ⁸University of South Carolina, Columbia, South Carolina, United States

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

Kushagrita Singh⁴, Muhammad Waqas², Fahad Shaukat Gill³, Adan Irfan³, Madiha Haseeb², Saif Syed⁸, Mohit Lakkimsetti⁹, Ashwinikumar Shandilya¹⁰, Rabia Islam¹¹, Hamza Islam¹², JUHI PATEL⁵, ROHAN RAJ⁷, VISHRANT P. AMIN¹, HARDIK D. DESAI⁶

¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²Jinnah sindh medical university, Lahore, Pakistan, ³Shalamar medical and dental college, Lahore, Pakistan, ⁴Government Medical College and Hospital, Chandigarh, Chandigarh, India, ⁵G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ⁶Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁷Nalanda Medical College and Hospital, Patna, Patna, India, ⁸Royal college of Surgeons, Dublin, Ireland, Dublin, Ireland, ⁹Mamata Medical College, Khammam, Khammam, India, ¹⁰Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ¹¹Punjab Medical College,, Faisalabad, Pakistan, ¹²Punjab Medical College, Faisalabad, Pakistan

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

Soo Jung Kang¹, Eunsun Gill², Phillip Hwang⁴, Ileana De Anda-Duran³, XUANYI JIN¹, Camilo Fernandez Alonso⁵, Lydia A. Bazzano⁶

¹Tulane University, New Orleans, Louisiana, United States, ²Tulane University, New Orleans, Louisiana, United States, ³Tulane University, New Orleans, Louisiana, United States, ⁴Boston University, Boston, Massachusetts, United States, ⁵Tulane University Health Sciences Center, New Orleans, Louisiana, United States, ⁶TULANE UNIVERSITY, New Orleans, Louisiana, United States

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

Md Marufuzzaman Khan¹, Hannah Col¹, Fredrick Larbi¹, Dhruvil Patil¹, Mingyu Zhang², Ruth-Alma N. Turkson-Ocran¹, Long H. Ngo², Jennifer Cluett³, Kenneth J. Mukamal¹, Joe Coresh⁴, Elizabeth Selvin⁵, Lynne Wagenknecht⁶, Timothy M. Hughes⁶, B Gwen Windham⁷, Thomas Mosley⁸, Pamela L. Lutsey⁹, Kimberly Ring¹⁰, Stephen P. Juraschek³

¹Beth Israel Deaconess Medical Ctr, Boston, Massachusetts, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ⁴SPH Welch Center, Johns Hopkins University, Baltimore, Maryland, United States, ⁵Johns Hopkins University, Baltimore, Maryland, United States, ⁶School of Medicine, Wake Forest University, Winston-Salem, North Carolina, United States, ⁷The MIND Center, The University of Mississippi Medical Center, Jackson, Mississippi, United States, ⁸The University of Mississippi Medical Center, Jackson, Mississippi, United States, ⁹University of Minnesota, Minneapolis, Minnesota, United States, ¹⁰Biostatistics, The University of North Carolina, Chapel Hill, North Carolina, United States

P-157 Acute GPER1 Activation Reduces Blood Pressure during the Inactive Period in Aged Female Mice

Supaporn Kulthinee¹, Victoria Nasci¹, Ravneet Singh¹, Christopher A. Natale², Eman Gohar¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²Linnaeus Therapeutics, Haddonfield, New Jersey, United States

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

Fredrick Larbi¹, Md Marufuzzaman Khan², Hannah Col¹, Dhruvil Patil³, Mingyu Zhang⁴, Ruth-Alma N. Turkson-Ocran⁵, Long H. Ngo⁴, Jennifer Cluett⁶, Kenneth J. Mukamal⁷, Joe Coresh⁸, Elizabeth Selvin⁹, Lynne Wagenknecht¹², Timothy M. Hughes¹², B Gwen Windham¹⁰, Thomas Mosley¹¹, Pamela L. Lutsey¹³, Kimberly Ring¹⁴, Stephen P. Juraschek¹⁵

¹Beth Israel Deaconess Medical Ctr, Boston, Massachusetts, United States, ²Beth Israel Deaconess Medical Center, Brookline, Massachusetts, United States, ³General Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States, ⁴Harvard Medical School, Boston, Massachusetts, United States, ⁵Beth Israel Deaconess Medical Ctr, Boston, Massachusetts, United States, ⁶BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ⁷BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, Massachusetts, United States, ⁸JOHNS HOPKINS SPH WELCH CENTER, Baltimore, Maryland, United States, ⁹JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland, United States, ¹⁰UMMC, The MIND Center, Jackson, Mississippi, United States, ¹¹UNIV MS MEDICAL CTR, Jackson, Mississippi, United States, ¹²School of Medicine, Wake Forest University, Winston-Salem, North Carolina, United States, ¹³University of Minnesota, Minneapolis, Minnesota, United States, ¹⁴UNC - Biostatistics, Chapel Hill, North Carolina, United States, ¹⁵BIDMC-Harvard Medical School, Boston, Massachusetts, United States

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

Uma Priya Mohan, Paula Dinh, Xinping Yue, Eric D. Lazartigues

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

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

Kayla Nist¹, Richard D. Wainford²

¹Anatomy & Neurobiology, Boston University, Decatur, Georgia, United States, ²Emory University, Atlanta, Georgia, United States

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

Laena Pernomian¹, Emily W. Waigi², Vi Nguyen³, Ahmed D. Mohammed³, Tiago JanuarioDa Costa⁴, Milene Fontes¹, Jason L. Kubinack³, Andrew V. Aitken⁵, Vinicia C. Biancardi⁶, David Sinclair⁷, Cam McCarthy⁸, Wenbin Tan⁹, Camilla F. Wenceslau¹⁰

¹Cell Biology and Anatomy, Cardiovascular Translational Research Center, University of South Carolina, School of Medicine, Columbia, South Carolina, United States, ²University of South Carolina, Columbia, South Carolina, United States, ³University of South Carolina SOM, Columbia, South Carolina, United States, ⁴South Carolina School of Medicine, Columbia, South Carolina, United States, ⁵Auburn University, Auburn, Alabama, United States, ⁶AUBURN UNIVERSITY - COLL VET MED, Auburn, Alabama, United States, ⁷Harvard Medical School, Boston, Massachusetts, United States, ⁸University of South Carolina, Columbia, South Carolina, United States, ⁹University of South Carolina SOM, Columbia, South Carolina, United States, ¹⁰University Of South Carolina, Columbia, South Carolina, United States

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

Bhuvana Plakkot, Chenoa Turtle, Madhan Subramanian

Physiological Sciences, Oklahoma State University, Stillwater, Oklahoma, United States

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

ROHAN RAJ⁴, Saif Syed⁵, Tapan R. Giri¹¹, Muhammad Waqas⁶, Harsha Choudary Pudhota⁷, Shrey Goel⁸, Ashwinikumar Shandilya⁹, Mohit Lakkimsetti¹⁰, JUHI PATEL², VISHRANT P. AMIN¹, HARDIK D. DESAI³
¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ³Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁴Nalanda Medical College and Hospital, Patna, Patna, India, ⁵Royal college of Surgeons, Dublin, Ireland, Dublin, Ireland, ⁶Jinnah sindh medical university, Lahore, Pakistan, ⁷Guntur Medical College, Guntur, India, ⁸Government Medical College and Hospital, Chandigarh, Chandigarh, India, ⁹Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ¹⁰Mamata Medical College, Khammam, Khammam, India, ¹¹BJ Medical College, Pune, Pune, India

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

Ashutosh R. Rangani³, Ragavendar Saravanabavanandan⁴, Shivani Sonani⁵, nimrat dhillon⁷, Saif Syed⁸, Ratan Pal Yadav⁹, Ashwinikumar Shandilya¹⁰, VISHRANT AMIN¹, JUHI PATEL², ROHAN RAJ¹¹, Khushbu Patel¹², HARDIK D. DESAI⁶, Mohit Lakkimsetti¹³
¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ³Ternopil National Medical University, Ternopil, Ukraine, ⁴VHS TAG Center, India, Chennai, India, ⁵Surat Municipal Institute of Medical Education and Research (SMIMER), Surat, Gujarat, India, ⁶Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁷Sri guru Ram das institute of medical sciences and research, Amritsar, India, ⁸Royal college of Surgeons, Dublin, Dublin, Ireland, ⁹NRI Medical College, Guntur, India, ¹⁰Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ¹¹Nalanda Medical College and Hospital, Patna, Patna, India, ¹²Index Medical College, Hospital & Research Center, Indore, India, ¹³Mamata Medical College, Khammam, Khammam, India

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

Saif Syed⁵, Ashwinikumar Shandilya⁶, nimrat dhillon¹², Shruthi Katam⁷, Darshine Venugopal³, Ratan Pal Yadav⁸, Danish Ahmed⁹, Mohit Lakkimsetti¹⁰, JUHI PATEL², VISHRANT AMIN¹, ROHAN RAJ¹¹, HARDIK D. DESAI⁴
¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ³University of Illinois college of medicine, Peoria, Peoria, Illinois, United States, ⁴Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁵Royal college of Surgeons, Dublin, Ireland, ⁶Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ⁷Sri Venkateswara Medical College, Tirupati, Tirupati, India, ⁸NRI Medical College, Guntur, India, ⁹Sir Seewosagur Ramgoolam Medical College, Mauritius, Dagotiere, Mauritius, ¹⁰Mamata Medical College, Khammam, Khammam,

India, ¹¹Nalanda Medical College and Hospital, Patna, Patna, India, ¹²Sri guru Ram das institute of medical sciences and research, Amritsar, India

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

Sachin Aryal¹, Ramakumar Tummala¹, Ishan Manandhar¹, Blair Mell¹, Sanjana Kumariya¹, Narendra Kondapalli¹, Pritam Bardhan¹, Piu Saha², Beng San Yeoh¹, Islam Osman¹, Charles K. Thodeti¹, Tao Yang¹, Matam Vijay-Kumar¹, Bina Joe¹

¹Physiology and Pharmacology, University of Toledo, Toledo, Ohio, United States, ²University of Toledo, Toledo, Ohio, United States

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

Bernice Leung¹, Preeti Virwani², Gordon Qian¹, Matthew HSU¹, Tommy K.K.T.S. Pijarnvanit¹, Carman Nga-Man CHEUNG¹, Yick Hin Chow², Lok Kan TANG¹, YIU-HEI TSE¹, Jia-Wen XIAN¹, Shirley Sau-Wing LAM¹, Pek Iok Crystal LEE¹, Chelsea Lo¹, Roxanna K. Liu¹, Tsi Lok HO¹, Bak Yue CHOW¹, Kin Sum Leung¹, Kwun Kwan Emily Lo², Man-Fung Yuen¹, Suet Yi Leung¹, Ivan FN HUNG¹, Jimmy Chun Yu LOUIE¹, Hani El-Nezami², Joshua Ho¹, Kui Kai Lau¹

¹The University of Hong Kong, Kowloon, Hong Kong, ²The University of Hong Kong, Hong Kong, Hong Kong, Hong Kong

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

Ishan Manandhar, Ramakumar Tummala, Sachin Aryal, Blair Mell, Xue Mei, Adriana Alviter, Mrunmayee Kandalgaoonkar, Matam Vijay-Kumar, Jasenka Zubcevic, Bina Joe
University of Toledo, Toledo, Ohio, United States

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

Priscilla Ahwin¹, Diana Martinez²

¹Cooper Medical School of Rowan University, Glassboro, New Jersey, United States, ²Cooper Medical School, Camden, New Jersey, United States

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

Andrew V. Aitken, Chad Foradori, Kristine Griffett, Vinicia C. Biancardi
Auburn University, Auburn, Alabama, United States

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

Shubha R. Dutta¹, Purnima Singh², Chi Young Song³, Ji Soo Shin⁴, Kafait U. Malik⁵

¹Pharmacology, Addiction Sciences and Toxicology, University of Tennessee Health Scie, Memphis, Tennessee, United States, ²University of Tennessee, Memphis, Tennessee, United States, ³UNIVERSITY OF TENNESSEE HSC, Memphis, Tennessee, United States, ⁴University of Tennessee HSC, Memphis, Tennessee, United States, ⁵UNIVERSITY TENNESSEE, Memphis, Tennessee, United States

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

Autumn Hamilton², Connie Grobe³, Jeffrey Segar⁴, Justin L. Grobe⁵, Curt D. Sigmund¹

¹Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ²The Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ³MCW, Milwaukee, Wisconsin, United States, ⁴medical college of wisconsin, Wauwatosa, Wisconsin, United States, ⁵Medical College of Wisconsin, Milwaukee, Wisconsin, United States

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

Drew Theobald, Abdel A. Abdel-Rahman, Srinivas Sriramula

Pharmacology and Toxicology, Brody School of Medicine at East Carolina University, Greenville, North Carolina, United States

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

Leandro Brito¹, Megan Jones¹, Nicole Chaudhary¹, George Giraud⁴, Steven A. Shea², Saurabh S. Thosar³

¹Oregon Health and Science University, Portland, Oregon, United States, ²Oregon Health & Science University, Portland, Oregon, United States, ³Oregon Health and Sci Univ, Portland, Oregon, United States, ⁴Oregon Health Science University, Portland, Oregon, United States

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

Lauren Yunker¹, Kristie Usa², Adaysha Williams¹, Brittany Mis¹, Alison J. Kriegel¹

¹Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ²Medical College of Wisconsin, Milwaukee, Wisconsin, United States

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

Marwa A. Abd-Eldayem¹, Meenakshi Golchha², Yuliya Vance³, Tan Ding³, Naome Mwesigwa⁴, Wei Chen⁵, Cyndia A. Shiao⁶, David G. Harrison⁷

¹vanderebilt medical center, Nashville, Tennessee, United States, ²Vanderbilt, Nashville, Tennessee, United States, ³VUMC, Mt. Juliet, Tennessee, United States, ⁴VUMC, NASHVILLE, Tennessee, United States, ⁵Vanderbilt Medical Center, Franklin, Tennessee, United States, ⁶VANDERBILT UNIV. MEDICAL CENTER, Nashville, Tennessee, United States, ⁷VANDERBILT, Nashville, Tennessee, United States

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

Jeremiah Afolabi, Lale A. Ertuglu, Ashley Mutchler, Mert Demirci, Taseer Ahmad, Mohammad Saleem, Quanhu Sheng, Annet Kirabo

Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

Abigail J. Brooks², Sara N. Biswal¹, Carmen De Miguel¹

¹University of Alabama at Birmingham, Birmingham, Alabama, United States, ²University of Alabama at Birmingham, Birmingham, Alabama, United States

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

Selam Desta¹, Ashley Mutchler², Lale A. Ertuglu⁴, Mohammad Saleem³, Jeanne Ishimwe⁴, Quanhu Sheng⁴, Annet Kirabo⁵

¹Vanderbilt University, Hyattsville, Maryland, United States, ²Vanderbilt University Medical Center, Nashville, Tennessee, United States, ³Vanderbilt university medical center, Nashville, Tennessee, United States, ⁴Vanderbilt University Medical Center, Nashville, Tennessee, United States, ⁵Vanderbilt University Medical Center, WHITE HOUSE, Tennessee, United States

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

Noelle Frambes¹, Fiona Hollis², Erin Taylor³, Baruk Srivastava¹, Kelly Sullivan¹, Michael J. Ryan¹

¹UofSC School of Medicine, Columbia, South Carolina, United States, ²UofSC School of Medicine, Lexington, South Carolina, United States, ³UNIVERSITY OF MS MEDICAL CENTER, Jackson, Mississippi, United States

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

Kuniko Hunter, Nathaniel Bloodworth, Marwa A. Abd-Eldayem, Wei Chen, Simon Mallal, Elizabeth Phillips, David G. Harrison

Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

Mohd M. Khan¹, Mohammad Saleem³, Taseer Ahmad², Ashley Mutchler⁴, Alexandria P. Haynes⁵, Annet Kirabo⁶

¹VUMC, Nashville, Tennessee, United States, ²Vanderbilt University Medical Center, Nashville, Tennessee, United States, ³Vanderbilt university medical center, Nashville, Tennessee, United States, ⁴Vanderbilt University Medical Center, Nashville, Tennessee, United States, ⁵Vanderbilt University, Nashville, Tennessee, United States, ⁶Vanderbilt University Medical Center, WHITE HOUSE, Tennessee, United States

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

Mohammad Saleem¹, Taseer Ahmad², Alexandria P. Haynes³, Claude F. Albritton⁴, Suha Arshad³, Phicharmon Kulapatana², Olivia Posey², Amy S. Major⁵, Charles Stein¹, Michelle Ormseth², Annet Kirabo¹

¹Division of Clinical Pharmacology, Vanderbilt university medical center, Nashville, Tennessee, United States, ²Vanderbilt University Medical Center, Nashville, Tennessee, United States, ³Vanderbilt University, Nashville, Tennessee, United States, ⁴Meharry Medical College, Nashville, Tennessee, United States, ⁵VANDERBILT UNIVERSITY Medical Center, Nashville, Tennessee, United States

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

Ziche Chen¹, Garrett Tessmer¹, Bianca Nguyen², Jason Meyer¹, Mohammad Saleem¹, Taseer Ahmad¹, Tzushan Sharon Yang¹, Annet Kirabo¹, Nicole Ward¹, Matthew R. Alexander¹

¹Vanderbilt University Medical Center, Murfreesboro, Tennessee, United States Minor Outlying Islands, ²Vanderbilt University, Nashville, Tennessee, United States

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

Yuling Chen, Erin Spaulding, Sarah E. Slone, Suratsawadee Kruahong, Yvonne Commodore-Mensah, Cheryl R. Dennison Himmelfarb

School of Nursing, Johns Hopkins University, Baltimore, Maryland, United States

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

Mawulorm Denu, Katherine Tak, Cassie Shao, Ganeev Singh, Katherine A. Sadaniantz, Lara Kovell

University of Massachusetts Chan Medical School, Weston, Massachusetts, United States

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

Maggie Murphy¹, Aric Schadler², Hong Huang², Lucrecia Valdez², Stefan Kiessling², Aftab S. Chishti², Sarah E Clark¹, Yasir A. Alsiraj², Robin C. Shoemaker², Jody Clasey², Ronnie T. Collins², John A. Bauer³

¹UNIVERSITY OF KENTUCKY, Lexington, Kentucky, United States, ²University of Kentucky, Lexington, Kentucky, United States, ³University of Kentucky Coll Med, Lexington, Kentucky, United States

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

Carol Vincent³, Giya Harry³, Margaret Murphy², Elizabeth Onugha¹, Andrew M. South⁴

¹Baylor College of Medicine, The Woodlands, Texas, United States, ²University of Kentucky College of Medicine, Lexington, Kentucky, United States, ³Wake Forest University School of Medicine, Winston Salem, North Carolina, United States, ⁴Wake Forest School of Medicine, Winston Salem, North Carolina, United States

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

John Agbo¹, Prerna Kumar³, Jane F. Reckelhoff⁴, Noha M. Shawky²

¹UMMC, Jackson, Mississippi, United States, ²UMMC, Jackson, Mississippi, United States, ³Tulane University, New Orleans, Louisiana, United States, ⁴UNIVERSITY MISSISSIPPI MED CTR, Brandon, Mississippi, United States

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

Natalie Cameron¹, Hannah Begna², Eleanor Schwarz²

¹Medicine, Northwestern University, Chicago, Illinois, United States, ²University of California San Francisco, San Francisco, California, United States

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

Christy L. Chambers¹, Michael Franks¹, Nathan Campbell², Raegyn Phillips¹, Ty W. Turner¹, Montianah J. Roseburgh¹, Jan M. Williams³, Lorena M. Amaral⁴

¹Pharmacology/Toxicology, University of Mississippi Medical Center, Canton, Mississippi, United States, ²University of Mississippi Medical C, Jackson, Mississippi, United States, ³UNIVERSITY OF MISSISSIPPI MEDI, Jackson, Mississippi, United States, ⁴MEDICAL CENTER- UMMC, Jackson, Mississippi, United States

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

Pei Chen¹, Yueying Wang², Jinjin Yuan², Fan Liu², Jiuhan Qin³, Zhang Jiahui², Yang pan⁴, Bingqian Zhu²

¹College of Nursing, University of Illinois Chicago, Chicago, Illinois, United States, ²School of Nursing, Shanghai Jiao Tong University, Shanghai, China, ³Department of Mathematics, Statistics, and Computer Science, University of Illinois Chicago, Chicago, Illinois, United States, ⁴Division of Nephrology, Department of Medicine, College of Medicine, University of Illinois Chicago, Chicago, Illinois, United States

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

Evangeline M. Deer¹, Kimberly Simmons², Owen T. Herrock¹, Nathan Campbell¹, Richard J. Roman¹, Baoying Zheng¹, Rachael Morris², Babbette B. Lamarca¹

¹University of Mississippi Medical C, Jackson, Mississippi, United States, ²OBGYN, UMMC, Jackson, Mississippi, United States

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

Sunhild Hartmann¹, Theresa Zucker², Stefan Botha¹, Ruth Schmidt-Ullrich², Kerim Secener², Christina Stern⁵, Berthold Huppertz⁴, Desiree Forstner⁴, Sabrina Y. Geisberger², Florian Herse¹, Martin Gauster⁴, Naveed Ishaque⁶, Dominik N. Mueller², Ralf Dechend³, Olivia Nonn¹

¹Charité Berlin, Berlin, Germany, ²Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin, Germany, ³Charite and Helios Clinic Berlin, Berlin, Germany, ⁴Division of Cell Biology, Histology and Embryology, Gottfried Schatz Research Center, Medical University of Graz, Graz,

Austria, ⁵Department of Obstetrics and Gynaecology, University Hospital Graz, Medical University Graz, Graz, Austria, ⁶Berlin Institute of Health (BIH), Berlin, Germany

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

Nitin Kumar, Kristina Hunker, Santhi K. Ganesh

University of Michigan, Ann Arbor, Michigan, United States

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

Vikash Jaiswal², Akash Jaiswal³, Muhammad Hanif⁴, Deborah Tibon¹, Kripa Rajak⁵, Nayanika Tummala⁷, Monodeep Biswas⁶

¹Providence Hospital, Quezon City, Philippines, ²JCCR Cardiology Research, Jaunpur, India, ³AIIMS, New Delhi, India, ⁴Upstate Medical University, New York, New York, United States, ⁵UPMC, Harrisburg, Pennsylvania, United States, ⁶University of Maryland Medical, Landisville, Pennsylvania, United States, ⁷Gitam Institute of Medical Sciences, Vishakapatnam, India

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

Alina Tvina², Gaurav Kumar³, Ko-Ting Lu⁴, Jennifer McIntosh⁵, Curt D. Sigmund¹

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

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

Vahideh Tarhiz¹, Morteza Eivazi², Huijing Xia³, Eric D. Lazartigues⁴

¹Cardiovascular Center of Excellence, Louisiana State University School of Medicine, New Orleans, Louisiana, United States, ²Department of Computer Science, Faculty of Mathematics, Statistics, and Computer Science,, University of Tabriz., Tabriz, Iran (the Islamic Republic of), ³LOUISIANA STATE UNIVERSITY, New Orleans, Louisiana, United States, ⁴LSU HEALTH SCIENCES CENTER, New Orleans, Louisiana, United States

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

Josh Curry¹, Xiao-tong Su¹, Yujiro Maeoka⁴, Chao-Ling Yang¹, Eric Delpire³, Paul A. Welling², David Ellison¹

¹Division of Nephrology and Hypertension, Oregon Health and Science University, Milwaukie, Oregon, United States, ²Johns Hopkins Medical School, Baltimore, Maryland, United States, ³Anesthesiology and Molecular and Biophysics, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ⁴Nephrology, Hiroshima University Hospital, Hiroshima, Japan

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

¹University of Utah, Salt Lake City, Utah, United States, ²UNIVERSITY OF SOUTH FLORIDA, Tampa, Florida, United States, ³UNIVERSITY UTAH, Salt Lake City, Utah, United States

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

¹MUSC, Charleston, South Carolina, United States, ²MUSC, Charleston, South Carolina, United States, ³Augusta University, Augusta, Georgia, United States, ⁴Department of Biological Sciences, Western Michigan University, Kalamazoo, Michigan, United States, ⁵Pennington Biomedical, Baton Rouge, Louisiana, United States, ⁶Augusta University, Augusta, Georgia, United States, ⁷Medical University of SC, Charleston, South Carolina, United States, ⁸Augusta University, Augusta, Georgia, United States

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

Qiongzi 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

¹University of Arizona, Tucson, Arizona, United States, ²Medical College of Wisconsin, Brookfield, Wisconsin, United States, ³University of Rochester, Rochester, New York, United States, ⁴Versiti, Brookfield, Wisconsin, United States, ⁵The Jackson Laboratory, Bar Harbor, Maine, United States

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

¹McGill University, MONTREAL , Quebec, Canada, ²Research Center of the CIUSSS Nord-de-l'Île-de-Montréal, Montreal, Quebec, Canada, ³Universidade Federal de Sao Paulo, Sao Paulo, Brazil, ⁴McGill University, Montreal, Quebec, Canada

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
Nanobiopharmaceutics 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
¹Nanobiopharmaceutics Institute - Department Physiology and Pharmacology, UFMG, Belo Horizonte, Brazil, ²UNIFESP, São Paulo, Brazil

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
Nanobiopharmaceutics 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 Convolved 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 Rath¹, 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 Rath³, Aleeza Qamar⁴, Aesha Patel¹, Kaehler Roth¹, John Fanning⁵, Tanja Dudenbostel⁶

¹Internal Medicine, Huntsville Regional Campus, University of Alabama at Birmingham, Huntsville, Alabama, United States, ²Internal Medicine, Uab Heersink School of Medicine, UAB Birmingham, Huntsville, Alabama, United States, ³Internal Medicine, University of Alabama Heersink School of Medicine, Huntsville, Alabama, United States, ⁴LSU Health Shreveport, Shreveport, Louisiana, United States, ⁵Internal Medicine, UAB Huntsville, Huntsville, Alabama, United States, ⁶University of Alabama at Birmingham, Birmingham, Alabama, United States

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

¹Large Animal Clinical Sciences, Michigan 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, ⁵MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States, ⁶MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States

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

¹Cardiovascular Translational Research Center, Cell Biology and Anatomy, University of South Carolina, Columbia, South Carolina, United States, ²Cardiovascular Translational Research Center, Cell Biology and Anatomy, Biomedical Engineering, University of South Carolina, Columbia, South Carolina, United States

P-222 O-GlcNAcylation induces aortic stiffness in aging female rats via CD47-SIRPα-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

¹Cell Biology and Anatomy, Cardiovascular Translational Research Center, University of South Carolina, School of Medicine, Columbia, South Carolina, United States, ²University of South Carolina, Columbia, South Carolina, United States

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

¹Institute of Aerospace Medicine, German Aerospace Center, Cologne, Germany, ²Clinic III for Internal Medicine, University of Cologne, Faculty of Medicine and University Hospital Cologne, Cologne, Germany, ³Department of Internal Medicine – Nephrology, Leiden University Medical Center, Leiden, Netherlands, ⁴Institute of Innate Immunity, University Hospital Bonn, Bonn, Germany, ⁵Institute of Medical Biometry, Informatics and Epidemiology (IMBIE), University Hospital Bonn, Bonn, Germany, ⁶Profil, Neuss, Germany, ⁷KBR, Houston, Texas, United States, ⁸NASA Johnson Space Center, Houston, Texas, United States

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

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

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

¹School of Cardiovascular and Metabolic Health, University of Glasgow, Glasgow, United Kingdom, ²McGill University, Montreal, Quebec, Canada

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

¹Temple University, Ambler, Pennsylvania, United States, ²Temple University School of Medicine, Philadelphia, Pennsylvania, United States, ³TEMPLE UNIVERSITY, Philadelphia, Pennsylvania, United States, ⁴TEMPLE UNIVERSITY SCHOOL OF MEDICINE, Philadelphia, Pennsylvania, United States

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 Remifentanil 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

¹CTRC, University of South Carolina School of Medicine, Columbia, South Carolina, United States, ²Psychology, University of South Carolina, Columbia, South Carolina, United States, ³University Of South Carolina, Columbia, South Carolina, United States, ⁴University of South Carolina, Columbia, South Carolina, United States, ⁵University of South Carolina, Columbia, South Carolina, United States, ⁶UNIVERSITY OF SOUTH CAROLINA, Columbia, South Carolina, United States

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

¹Tufts Medical Center, Boston, Massachusetts, United States, ²Northeastern University, Boston, Massachusetts, United States

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

¹Cell Biology and Anatomy, Cardiovascular Translational Research Center, University of South Carolina, School of Medicine, Columbia, South Carolina, United States, ²Pharmacology, Physiology and neuroscience, University of South Carolina, Columbia, South Carolina, United States

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 Tarhiz, 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 Brozowski¹, Justin L. Grobe⁵, Pablo Nakagawa⁶, Curt D. Sigmund¹

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

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 apocritentan 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

¹Geisinger, Danville, Pennsylvania, United States, ²Geisinger, Danville, Pennsylvania, United States, ³Geisinger, South Abington Twp, Pennsylvania, United States, ⁴Geisinger Medical Center, DANVILLE, Pennsylvania, United States, ⁵Geisinger, Kingston, Pennsylvania, United States, ⁶Geisinger, Hershey, Pennsylvania, United States

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 Chaihongsai¹, 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

Yuan Lu¹, Xin Xin², Chungsoo Kim³, Jordan Asher⁵, Harlan M. Krumholz⁴, John E. Brush⁵

¹Internal Medicine, Yale University, Scarsdale, New York, United States, ²Yale University, New Haven, Connecticut, United States, ³Yale University, New Haven, Connecticut, United States, ⁴Yale University, New Haven, Connecticut, United States, ⁵SENTRA HEALTHCARE, Norfolk, Virginia, United States

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

¹NORTHWESTERN UNIVERSITY, Chicago, Illinois, United States, ²NORTHWESTERN UNIV SCHOOL MEDICINE, Chicago, Illinois, United States, ³UNIVERSITY OF FLORIDA, Gainesville, Florida, United States, ⁴Patient is Partner, LLC, Brighton, Michigan, United States, ⁵Louisiana Public Health Institute, New Orleans, Louisiana, United States, ⁶Northwestern University, Chicago, Illinois, United States, ⁷Northwestern University, Chicago, Illinois, United States

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

Chenliang Ge

Guangxi Medical University, Nanning, China

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

Eileen Kaur², Asma Rayani³, Tammy M. Brady⁴, Kuni Matsushita¹

¹Department of Epidemiology, JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland, United States, ²Howard High School, Ellicott City, Maryland, United States, ³Johns Hopkins University, Baltimore, Maryland, United States, ⁴JOHN HOPKINS UNIVERSITY, Baltimore, Maryland, United States

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

¹University of Alabama at Birmingham, Birmingham, Alabama, United States, ²Univeristy of Alabama at Birmingham, Birmingham, Alabama, United States, ³Wake Forest School of Medicine, Winston Salem, North Carolina, United States, ⁴UNIV OF MASSACHUSETTS MEDICAL SCHOO, Sterling, Massachusetts, United States, ⁵University of Alabama at Birmingham, Birmiham, Alabama, United States, ⁶NORTHWESTERN UNIVERSITY, Chicago, Illinois, United States, ⁷COLUMBIA UNIVERSITY, New York, New York, United States, ⁸WAYNE STATE UNIVERSITY, Detroit, Michigan, United States, ⁹Univ of North Carolina Chapel Hill, Mebane, North Carolina, United States

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, Analía Loria¹

¹UNIVERSITY OF KENTUCKY, Lexington, Kentucky, United States, ²National University of Cordoba, Cordoba, Argentina

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

¹The University of Iowa, Iowa City, Iowa, United States, ²UNIVERSITY IOWA CARVER COLL MED, Iowa City, Iowa, United States, ³The University of Iowa, Iowa City, Iowa, United States, ⁴University of Iowa Hospitals, Iowa City, Iowa, United States, ⁵University of Iowa, Iowa City, Iowa, United States, ⁶The University of Iowa, Iowa City, Iowa, United States, ⁷The University of Iowa, Iowa City, Iowa, United States, ⁸UNIVERSITY OF IOWA, Iowa City, Iowa, United States

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

¹Department of Medical Biochemistry, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia, ²Department for High Risk Pregnancy, Gynecology and Obstetrics Clinic Narodni Front, Belgrade, Serbia, ³Department of Gynecology and Obstetrics, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

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

¹University of Notre Dame, Notre Dame, Indiana, United States, ²The University of Notre Dame, Notre Dame, Indiana, United States, ³University of Notre Dame, South Bend, Indiana, United States, ⁴Herman B Wells Center for Pediatric Research, Indianapolis, Indiana, United States

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

¹Duke University Medical Center, Durham, North Carolina, United States, ²Tulane University School of Medicine, New Orleans, Louisiana, United States

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, Rachelle Crescenzi³, Michael Pridmore³, Cheryl L. Laffer⁴, Alp Ikizler¹, Annet Kirabo⁴

¹Department of Medicine, Division of Nephrology and Hypertension, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ³Department of Radiology and Radiological Sciences, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ⁴Department of Medicine, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

¹UNIVERSITY OF VIRGINIA HEALTH SYSTE, Charlottesville, Virginia, United States, ²Boston University, Boston, Massachusetts, United States, ³University of Rochester Medical Ctr, Rochester, New York, United States, ⁴University of Rochester, Rochester, New York, United States, ⁵UNIVERSITY OF SOUTH FLORIDA, Tampa, Florida, United States, ⁶University of Pennsylvania School of Veterinary Medicine, Philadelphia, Pennsylvania, United States

MP-36 Excessive ATP Promotes Hypertension Via Stimulating T cells

Yunmeng Liu

Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, Arkansas, United States

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

Luigi Marzano, Matteo Merlo, Francesca Pizzolo, Simonetta Friso

Department of Medicine, Unit of Internal Medicine B, University of Verona School of Medicine, Azienda Ospedaliera Universitaria Integrata Verona, Policlinico "G.B. Rossi," 37134 Verona, Italy, Verona, Italy

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

Aldo Peixoto¹, Lama Ghazi², MICHAEL SIMONOV¹, Yu Yamamoto¹, Francis P. Wilson¹

¹Yale University, Hamden, Connecticut, United States, ²University of Alabama at Birmingham, Birmingham, Alabama, United States

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

Krunal Vishavadia¹, Sandip Solanki², Girish R. Kulkarni³, Hiren Prajapati⁴

¹GTU, Ahmedabad, India, ²SIIB, Pune, India, ³NU, Ahmedabad, India, ⁴IJDE, Ahmedabad, India

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

Hadeel Al Kayed¹, jwana qussous², Nada Hajjaj⁵, Saba Alwahedy², Mahmoud Maaita⁴, Awni Alsuradi³, Ramzi Tabbalat²

¹The University of Jordan, Amman, Jordan, ²Abdali Hospital, Amman, Jordan, ³Eye Speciality Hospital, Amman, Jordan, ⁴Medical Service Clinics, Amman, Jordan, ⁵Tufts Medical Center, Boston, Massachusetts, United States

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

J Brian Byrd¹, Aleda Leis², Michelle Hood², Shichi Dhar², Satish Rao¹, Samar R. El Khoudary³, Rebecca C. Thurston⁴, Daniel McConnell⁵, Richard J. Auchus⁶, Carrie Karvonen-Gutierrez²

¹Internal Medicine, UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan, United States, ²Epidemiology, University of Michigan School of Public Health, Ann Arbor, Michigan, United States, ³UNIVERSITY OF PITTSBURGH, Pittsburgh, Pennsylvania, United States, ⁴University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ⁵The University of Michigan, Ann Arbor, Michigan, United States, ⁶UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan, United States

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

Shan Luan², Abiy Agiro², Ian Daniel¹, Jan McKendrick¹, Harrison Davis¹, Joanna Huang², Karthik linganathan²

¹Avalere Health, Cheshire, United Kingdom, ²US Medical Affairs, Biopharmaceuticals, AstraZeneca, Wilmington, Delaware, United States

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

¹DIMED - Padua University, Padua, Italy, ²Department of Neurology, School of Medicine, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia, ³Sapienza, Rome, Italy

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

Clement Byiringiro¹, Ana M. Briones², Ana Garcia², Brasilina Caroccia¹, Teresa M. Seccia¹, Gian Paolo P. ROSSI¹

¹University of Padua, Padua, Italy, ²Universidad Autónoma de Madrid, Madrid, Spain

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

Amel Merabtime¹, Gregory Hundemer², Francois Madore¹, Mohsen Agharazii³, Remi Goupil¹

¹Hopital du Sacre-Coeur de Montreal, Montreal, Quebec, Canada, ²Ottawa Hospital, Ottawa, Ontario, Canada, ³CHU de Quebec, Quebec City, Quebec, Canada

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

Valerie Deragon¹, Youssef Baati¹, Laurence Trudelle¹, Amel Merabtime¹, Dean Picone², Remi Goupil¹

¹Hopital du Sacre-Coeur de Montreal, Montreal, Quebec, Canada, ²The University of Sydney, Camperdown, Tasmania, Australia

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

¹BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ²BIDMC-Harvard Medical School, Boston, Massachusetts, United States

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

Benjamin Gavish⁵, Michael Bursztyn¹, Luis M. Ruilope², Bryan Williams³, Alejandro DeLa Sierra⁴

¹Medicine, Hadassah-Hebrew University, Jerusalem, Israel, ²Hospital 12 de Octubre, Madrid, Spain, ³University College London, London, United Kingdom, ⁴HOSPITAL MUTUA TERRASSA, Terrassa, Spain, ⁵Yazmonit LTD, Jerusalem, Israel

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

Elena Dent¹, Daria Ilatovskaya¹, Brittany Pinkerton¹, Emily Crider¹, Michael J. Ryan², Jennifer C. Sullivan¹

¹Augusta University, Augusta, Georgia, United States, ²UofSC School of Medicine, Columbia, South Carolina, United States

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

Benjamin D. Gallagher, Stephen J. Huot

Internal Medicine, Yale School of Medicine, New Haven, Connecticut, United States

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

Aisha Khan¹, Kathleen McAuliff², Geetha Govindarajan¹

¹Internal Medicine/Clinical Innovation, Friend Health, Chicago, Illinois, United States, ²Friend Health, Chicago, Illinois, United States

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

Swapnil Hiremath, Brayden Sterling, Isaac Glassman, Marcel Ruzicka

University of Ottawa, Ottawa, Ontario, Canada

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

¹Medicine, UCSF, San Francisco, California, United States, ²Center for Health Care Policy and Research, University of California Davis, Davis, California, United States

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

Justin Kramer¹, Aditi Gupta², Shellie Ellis³, Jessica Reed², Yashashwi Pokharel⁴, Andrew McWilliams⁵, Yheneko Taylor⁶

¹Family Medicine, Wake Forest Univ School of Medicine, Winston Salem, North Carolina, United States, ²Division of Nephrology and Hypertension, University of Kansas Medical Center, Kansas City, Kansas, United States, ³Department of Population Health, University of Kansas Medical Center, Kansas City, Kansas, United States, ⁴Cardiology, Wake Forest Baptist Health, Winston Salem, North Carolina, United States, ⁵Department of Internal Medicine, Division of Hospital Medicine, Atrium Health, Charlotte, North Carolina, United States, ⁶Center for Health System Sciences, Atrium Health, Charlotte, North Carolina, United States

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

Keisuke Narita¹, Zihan Yuan², Nobuhiko Yasui², Satoshi Hoshide³, Kazuomi Kario⁴

¹Medicine, Columbia University Irving Medical Center, New York, New York, United States, ²A&D company, Tokyo, Japan, ³JICHI MIDICAL UNIVERSITY, Shimotsuke, Japan, ⁴JICHI MEDICAL UNIVERSITY, Tochigi-ken, Japan

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

Mingma D. Sherpa, Renata Anand

Internal Medicine, University of Buffalo, Buffalo, New York, United States

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

Jing Tao

Chongqing Emergency Medical Center, Chongqing, China

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

Sri Pranvi Boyapati³, L V SIMHACHALAM KUTIKUPPALA², Rohit Ganduboina⁴, Nayanika Tummala¹

¹Gitam Institute of Medical Sciences, Vishakapatnam, India, ²Dr YSR University of Health Sciences, Vijayawada, India, ³Siddhartha Medical College, Vijayawada, India, ⁴NRI Institute of Medical Sciences, Visakhapatnam, India

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

¹Gitam Institute of Medical Sciences, Vishakapatnam, India, ²Nimra Institute of Medical Sciences, Vijayawada, Andhra Pradesh, India, ³Apollo Clinic, Hyderabad, India, ⁴Rangaraya Medical College, Kakinada, Andhra Pradesh, India, ⁵Tbilisi State Medical University, Tbilisi, Georgia, ⁶AIIMS New Delhi, Delhi, India

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

Department of Cardiology, The First Affiliated Hospital of Chengdu Medical College, Chengdu, China

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

Lindsay Zasadzinski⁴, Tamkeen Khan⁴, Susan E. Sutherland¹, Robert Barrett¹, Kesha Love², Sharon Irons², Chantal Tinfang³, Gregory Wozniak⁴

¹American Medical Association, Greenville, South Carolina, United States, ²Cook County Health, Chicago, Illinois, United States, ³Cook County Health, Elmhurst, Illinois, United States, ⁴American Medical Association, Chicago, Illinois, United States

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

Robert Barrett¹, Benjamin Riesser¹, Susan E. Sutherland², Michael Rakotz¹, Brent M. Egan³

¹American Medical Association, Greenville, South Carolina, United States, ²American Medical Association, Greenville, South Carolina, United States, ³American Medical Association, Greenville, South Carolina, United States

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

Robert Barrett¹, Susan E. Sutherland², Benjamin Riesser¹, Michael Rakotz³, Brent M. Egan³

¹American Medical Association, Greenville, South Carolina, United States, ²American Medical Association, Greenville, South Carolina, United States, ³American Medical Association, Greenville, South Carolina, United States

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

John McNeil, Michelle Altvater

Georgia Prevention Institute, Medical college of Georgia, Augusta, Georgia, United States

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

Maria Mikhataykina¹, Neha Agrawal²

¹Quality Management, Legacy Community Health, Houston, Texas, United States, ²Clinical Pharmacy Services, Legacy Community Health, Houston, Texas, United States

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

Henry Ford Health, Detroit, Michigan, United States

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

¹Michigan State University, Okemos, Michigan, United States, ²NEA Baptist Clinic/Hospital Jonesboro Arkansas/NYIT @Arkansas State University, Jonesboro, Arkansas, United States

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

¹Improving Health Outcomes, American Medical Association, Chicago, Illinois, United States, ²HealthPartners Institute, Minneapolis, Minnesota, United States

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

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

¹Medicine, University of California Irvine School of Medicine, Orange, California, United States, ²Phramongkutklao College of Medicine, Bangkok, Thailand, ³Mayo Clinic, AZ, Phoenix, Arizona, United States, ⁴Faculty of Medicine, Srinakharinwirot University, Bangkok, Thailand, ⁵Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand, ⁶Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, ⁷Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, Chiangmai, Thailand, ⁸Central Chest Institute of Thailand, Bangkok, Thailand, Bangkok, Thailand

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

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

Christoph Mora, Katherine Deck, Yunmeng Liu, Shengyu Mu, Lance Benson, Yunping Guo

Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, Arkansas, United States

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

Jianfeng Zhang, Yufeng Jiang, Junyi Zhang, Yafeng Zhou

The Fourth Affiliated Hospital of Soochow University, Suzhou, China

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

Waleed Zafar¹, Yirui Hu², Lauren Brubaker³, Jamie Green¹, Alexander Chang¹

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.

Hong Wang², Andrew Wu³, Pablo A. Ortiz¹, Mariela Mendez⁴

¹Hypertension and Vascular Research Division, Henry Ford Health, Wayne State U, Detroit, Michigan, United States, ²Hypertension and Vascular Research Division, Henry Ford Health, Detroit, Michigan, United States, ³Hypertension and Vascular Research Division, Henry Ford Health, Wayne State U, Detroit, Michigan, United States, ⁴Hypertension and Vascular Research Division, Henry Ford Health, Wayne State University, Detroit, Michigan, United States

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

¹Division of Nephrology, Hypertension and Kidney Transplantation, Department of Medicine, University of California Irvine School of Medicine, Orange, California, United States, ²Rayong Hospital, Rayong, Thailand, ³Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, ⁴Chakri Naruebodindra Medical Institute, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, ⁵Faculty of Medicine, Srinakharinwirot University, Bangkok, Thailand, ⁶Faculty of Medicine, Thammasart University, Pathumthani, Thailand, ⁷Vimut Hospital, Phaya Thai, Bangkok, Thailand, ⁸Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, ⁹Department of Neurology and Rehabilitation, University of Illinois at Chicago, Chicago, Illinois, United States, ¹⁰Bumrungrad International Hospital, Bangkok, Thailand, ¹¹Phramongkutklao College of Medicine, Mahidol University, Bangkok, Thailand, ¹²Department of Medicine, Panyanantaphikkhu Chonprathan Medical Center, Srinakharinwirot University, Nonthaburi, Thailand, ¹³Central Chest Institute of Thailand, Bangkok, Thailand, ¹⁴Division of Academic Affairs, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ¹⁵Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, ¹⁶Department of Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, ¹⁷Division of Geriatric Medicine, Department of Medicine, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, ¹⁸Department of Cardiovascular Medicine, Mayo Clinic, Phoenix, Arizona, United States, ¹⁹Albert Einstein Medical Center, Philadelphia, Pennsylvania, United States

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, Shiyang 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

Stephen P. Juraschek¹, Jiun-Ruey Hu², Jennifer Cluett³, Carol Mita⁴, Lewis Lipsitz⁵, Lawrence J. Appel⁶, Nigel Beckett⁷, Barry R. Davis⁸, Rury Holman⁹, Edgar R. Miller¹⁰, Kenneth J. Mukamal¹¹, Ruth Peters¹², Jan Staessen¹³, Addison A. Taylor¹⁴, Jackson T. Wright¹⁵, William C. Cushman¹⁶

¹BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ²Yale Medical School, New Haven, Connecticut, United States, ³BIDMC-Harvard Medical School, Boston, Massachusetts, United States, ⁴Countway Library of Medicine, Boston, Massachusetts, United States, ⁵HEBREW REHAB-IFAR, Roslindale, Massachusetts, United States, ⁶JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland, United States, ⁷Imperial College, London, United Kingdom, ⁸University of Texas Sch Pub Hlth, Sugar Land, Texas, United States, ⁹University of Oxford, Oxford, United Kingdom, ¹⁰JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, Maryland, United States, ¹¹BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, Massachusetts, United States, ¹²George Institute, Sydney, New South Wales, Australia, ¹³University of Leuven, Leuven, Belgium, ¹⁴BAYLOR COLLEGE OF MEDICINE, Houston, Texas, United States, ¹⁵CASE WESTERN RESERVE UNIV, Cleveland, Ohio, United States, ¹⁶University of Tennessee Health Scie, Memphis, Tennessee, United States

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

Dung V. Nguyen¹, Hoai T. Nguyen², Pham Thai Giang³, Pham Nguyen Son³

¹Internal Medicine Department, VNU - University of Medicine and Pharmacy, Hanoi, Viet Nam, ²Vietnam National Heart Institute, Bach Mai Hospital, Hanoi, Viet Nam, ³Cardiology Department, 108 Military Central Hospital, Hanoi, Viet Nam

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

Lorenzo Carnevale¹, angelo maffei¹, Daniela Carnevale², Giuseppe Lembo²

¹I.R.C.C.S. Neuromed, Pozzilli, Italy, ²Sapienza University of Rome, Pozzilli, Italy

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

Michael Ernst¹, Katherine Webb², Kerry Sheets³, Robyn L. Woods², Michelle Fravel¹, Lawrence J. Beilin⁴, Sara Espinoza⁸, Suzanne G. Orchard², alice owen², Rory Wolfe², Anne Murray⁵, Raj C. Shah⁶, Kevan Polkinghorne², Christopher Reid⁷, Paul Lacaze², Joanne Ryan²

¹Department of Pharmacy Practice and Science, University of Iowa, Iowa City, Iowa, United States, ²School of Public Health and Preventive Medicine, Monash University, Melbourne, Victoria, Australia, ³Department of Medicine, Hennepin Healthcare, Minneapolis, Minnesota, United States, ⁴University of Western Australia, Perth, Western Australia, Australia, ⁵Hennepin Health Care, Edina, Minnesota, United States, ⁶Rush University Medical Center, Chicago, Illinois, United States, ⁷Curtin University, Perth, Western Australia, Australia, ⁸Medicine, Cedars-Sinai, Los Angeles, California, United States

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

Michael Ernst¹, Katherine Webb³, Kerry Sheets⁴, Robyn L. Woods³, Michelle Fravel¹, Lawrence J. Beilin², Sara Espinoza⁷, Suzanne G. Orchard³, alice owen³, Rory Wolfe³, Anne Murray⁴, Joanne Ryan³, Raj C. Shah⁵, Kevan Polkinghorne³, Christopher Reid⁶

¹University of Iowa, Iowa City, Iowa, United States, ²University of Western Australia, Perth, Western Australia, Australia, ³Monash University, Melbourne, Victoria, Australia, ⁴Hennepin Health Care, Edina, Minnesota,

United States, ⁵Rush University Medical Center, Chicago, Illinois, United States, ⁶Curtin University, Perth, Western Australia, Australia, ⁷Medicine, Cedars-Sinai, Los Angeles, California, United States

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

Melissa Sobanko, Monica M. Santisteban

Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

Jian Wang, Kun Sun

Department of Pediatric Cardiology, Xinhua Hospital, Shanghai, China

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

Jiao Yan, Ying Gao

Emergency Medical Center, Chongqing, China

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

Pasquale Mone¹, Valeria Visco⁴, Antonella Pansini², Michele Ciccarelli³, Guido Iaccarino⁵, Gaetano Santulli⁶

¹Department of Medicine, University of Molise, Campobasso, Italy, ²Asl Avellino, Avellino, Italy, ³University of Salerno, Baronissi, Italy, ⁴University of Salerno, Salerno, Italy, ⁵Federico II University, Napoli, Italy, ⁶AECOM - ITME, Bronx, New York, United States

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

Pasquale Mone¹, Marco Ferrone¹, Michele Ciccarelli², Fahimeh Varzideh³, Jessica Gambardella¹, Tullio Tesorio⁴, Gaetano Santulli¹

¹AECOM - ITME, New York City, New York, United States, ²University of Salerno, Baronissi, Italy, ³Medicine-Cardiology, Albert Einstein College of Medicine, Bronx, New York, United States, ⁴Montevergine, Mercogliano (Avellino), Italy

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

Rinaldo R. dos Passos², Cintia Vieira dos Santos¹, Kawane Moura⁸, Paul Townsend Jr³, Emily Wilson⁷, Tiago Tomazini Goncalves³, Raiana DosAnjos Moraes⁴, Camilla F. Wenceslau⁵, Cam McCarthy⁶, Fernando Silva Carneiro¹, Graziela S. Ceravolo⁹, R Clinton C. Webb¹⁰, Fernanda Priviero¹

¹Department of Pharmacology, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil, ²University of South Carolina, Columbia, South Carolina, United States, ³Cardiovascular Translational Research Center, University of South Carolina SOM, Columbia, South Carolina, United States, ⁴University of South Carolina, Columbia, South Carolina, United States, ⁵University Of South Carolina, Columbia, South Carolina, United States, ⁶University of South Carolina, Columbia, South Carolina, United States, ⁷Medical University of South Carolina, Charleston, South Carolina, United States, ⁸Department of Physiological Sciences, State University of Londrina, Londrina, PR, Brazil, ⁹State University of Londrina, Londrina, Brazil, ¹⁰UNIVERSITY OF SOUTH CAROLINA, Columbia, South Carolina, United States

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

Valerie Wagner, Patricia Muskus Veitia, Curt D. Sigmund, Pablo Nakagawa, Justin L. Grobe
Medical College of Wisconsin, Milwaukee, Wisconsin, United States

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

Hiruni M. Aponso², Mary Latimer¹, Megan K. Rhoads², David M. Pollock³

¹UNIVERSITY OF ALABAMA BIRMINGHAM, Birmingham, Alabama, United States, ²University of Alabama at Birmingham, Birmingham, Alabama, United States, ³University of Alabama at Birmingham, Birmingham, Alabama, United States

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

Anna Dikalova¹, Mingfang Ao¹, David Gius², Sergey Dikalov¹

¹Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²Mays Cancer Center at UT Health, San Antonio, Texas, United States

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

Gabriella E. Farrugia¹, Rebecca Harper¹, Crisdion Krstevski¹, Patrick Lelliott², Ian Hsu³, Malathi Dona³, Thomas Harrison², Helen Kiriazis², Daniel G. Donner², Alexander Pinto¹

¹Baker Heart and Diabetes Institute, Melbourne, Victoria, Australia, ²Baker Heart Research Institute, Melbourne, Victoria, Australia, ³Baker Heart and Diabetes Institute, Melbourne, Victoria, Australia

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

Zhengrong Guan, Clifford Jones, Samia Meera, Shali Zhang, Edward W. Inscho, Wenguang Feng
University of Alabama at Birmingham, Birmingham, Alabama, United States

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

Ryan Schibalski¹, Alena Cherezova², Adam Jones¹, Krisztian Stadler³, Daria Ilatovskaya⁴

¹Augusta University, Augusta, Georgia, United States, ²Augusta University, Augusta, Georgia, United States, ³Pennington Biomedical, Baton Rouge, Louisiana, United States, ⁴Augusta University, Augusta, Georgia, United States

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

Chi Young Song¹, Ji Soo Shin¹, Elaine Lee¹, Kafait U. Malik²

¹University of Tennessee HSC, Memphis, Tennessee, United States, ²UNIVERSITY TENNESSEE, Memphis, Tennessee, United States

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

Cameron Liss, Kasey Belanger, Jeanine Badrak, Kelly Sullivan, Peyton Hanson, Jennifer Sullivan
Physiology, AUGUSTA UNIVERSITY, Augusta, Georgia, United States

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

Hadeel Al Kayed¹, Mehmet Altintas², Ahmet Oktay³

¹The University of Jordan, Amman, Jordan, ²Department of Medicine, Rush University Medical Center, Chicago/Illinois, Illinois, United States, ³The Heart and Vascular Institute, Rush University Medical Center, Chicago/Illinois, Illinois, United States

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

Elena Y. Demireva, Christiane L. Mallett, Stephanie W. Watts, William F. Jackson, Emma D. Flood, Bridie McClusky, Adam A. Lauver, Barbara Christian, Huirong Xie
MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States

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

Yanbin Dong¹, Michelle Altvater¹, Silas Howerton¹, Haidong Zhu², Charles J. Weeks², Jie Cheng³, Wenjun Li³
¹Medicine, Augusta University, Augusta, Georgia, United States, ²Augusta University, Augusta, Georgia, United States, ³UMass Lowell, Lowell, Massachusetts, United States

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

Musab Hommos¹, Sami Alasfar¹, Jaxon Quillen¹, Matthew Buras², Bassam Abu Jawdeh¹
¹Mayo Clinic, Scottsdale, Arizona, United States, ²Mayo Clinic, Scottsdale, Arizona, United States

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

Pengyuan Liu¹, Yong Liu¹, Rajan Pandey¹, Atrayee Ray², Jing Huang¹, Qiongzi Qiu¹, Andrew Greene³, Allen W. Cowley⁴, Aron M. Geurts⁴, Sridhar Rao², Mingyu Liang¹
¹Physiology, The University of Arizona-Tucson, Tucson, Arizona, United States, ²Versiti Blood Research Institute, Milwaukee, Wisconsin, United States, ³The Jackson Laboratory, Bar Harbor, Maine, United States, ⁴Medical College of Wisconsin, Milwaukee, Wisconsin, United States

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

Karen L. Margolis¹, Alanna M. Chamberlain³, Paul Drawz²
¹HEALTHPARTNERS INSTITUTE, Minneapolis, Minnesota, United States, ²University of Minnesota, Minneapolis, Minnesota, United States, ³Mayo Clinic, Rochester, Minnesota, United States

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

Nikhil Srinivasapura Venkateshmurthy², Manisha Dubey⁴, Reena Sehgal¹, Prashant Jarhyan¹, Rajesh Khatkar¹, Shiva Prasad Konkati⁴, Manika Sharma⁵, Nicole Ide⁶, Dorairaj Prabhakaran³, Sailesh Mohan¹
¹Public Health Foundation of India, Gurgaon, India, ²Public Health Foundation of India, Gurgaon, India, ³Public Health Foundation of India, Gurgaon, India, ⁴Centre for Chronic Disease Control, Delhi, India, ⁵Resolve to Save Lives Services PLC, Delhi, India, ⁶Resolve to Save Lives, New York, New York, United States

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

Monika Tutaj¹, Chien-Wei Lin², Atrayee Ray³, Chun Yang⁴, Cary Stelloh¹¹, Pengyuan Liu⁵, Yong Liu⁶, Michael Widlansky⁷, Andrew Greene¹³, Aron M. Geurts⁸, Allen W. Cowley⁹, Mingyu Liang¹⁰, Sridhar Rao¹¹, Anne E. Kwikteck¹²
¹Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ²Medical College of Wisconsin, Brookfield, Wisconsin, United States, ³Versiti Blood Research Institute, Milwaukee, Wisconsin, United States, ⁴MEDICAL COLLEGE of WISCONSIN, Milwaukee, Wisconsin, United States, ⁵The University of Arizona-Tucson, Tucson, Arizona, United States, ⁶the University of Arizona, Tucson, Arizona, United States, ⁷Medical College of Wisconsin, Fox Point, Wisconsin, United States, ⁸Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ⁹MEDICAL COLLEGE WISCONSIN, Milwaukee, Wisconsin, United States, ¹⁰Physiology, University of Arizona, Tucson, Arizona, United States, ¹¹Versiti, Brookfield, Wisconsin, United States, ¹²Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ¹³The Jackson Laboratory, Bar Harbor, Maine, United States

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

Joseph Amoah¹, Michael Fatuyi², Francisco Somoza-Cano³, Nana Nyarko Amoah⁵, Sammir S. Dekowski¹, Frempong Asafu-Adjaye⁴
¹University Hospitals, Cleveland, Ohio, United States, ²Trihealth Good Sam Hospital, Cincinnati, Ohio, United States, ³St. Vincent Charity Medical Center, Cleveland, Ohio, United States, ⁴Case Western Reserve University, Cleveland, Ohio, United States, ⁵Pantang, Accra, Ghana

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

Joseph Amoah¹, Frempong Asafu-Adjaye², Francisco Somoza-Cano³, Nana Nyarko Amoah⁵, Michael Fatuyi⁴, Sammir S. Dekowski¹

¹University Hospitals, Cleveland, Ohio, United States, ²Case Western Reserve University, Cleveland, Ohio, United States, ³St. Vincent Charity Medical Center, Cleveland, Ohio, United States, ⁴Trihealth Good Sam Hospital, Cincinnati, Ohio, United States, ⁵Pantang, Accra, Ghana

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

Joseph Amoah¹, Sammir S. Dekowski¹, Francisco Somoza-Cano², Nana Nyarko Amoah⁵, Frempong Asafu-Adjaye³, Michael Fatuyi⁴, Sedina A. Asafu-Adjaye⁶

¹University Hospitals, Cleveland, Ohio, United States, ²St. Vincent Charity Medical Center, Cleveland, Ohio, United States, ³Case Western Reserve University, Cleveland, Ohio, United States, ⁴Trihealth Good Sam Hospital, Cincinnati, Ohio, United States, ⁵Pantang, Accra, Ghana, ⁶Case Western Reserve University, Cleveland, Ohio, United States

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

Teresa N. Harrison¹, Rong Wei¹, Kimberly Cannavale¹, Lei Qian¹, Rossy Perez¹, Raul Calderon¹, Daichi Shimbo⁴, Joseph E. Schwartz², Barrett Bowling³, Kristi Reynolds¹

¹Kaiser Permanente So. California, Pasadena, California, United States, ²Stony Brook University, New York, New York, United States, ³Duke University, Durham, North Carolina, United States, ⁴Columbia University, New York, New York, United States

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

Soo Jung Kang¹, Eunsun Gill², Phillip Hwang⁶, Ileana De Anda-Duran³, XUANYI JIN¹, Camilo Fernandez Alonso⁴, Lydia A. Bazzano⁵

¹Tulane University, New Orleans, Louisiana, United States, ²Tulane University, New Orleans, Louisiana, United States, ³Tulane University, New Orleans, Louisiana, United States, ⁴Tulane University Health Sciences Center, New Orleans, Louisiana, United States, ⁵TULANE UNIVERSITY, New Orleans, Louisiana, United States, ⁶Boston University, Boston, Massachusetts, United States

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.

Shruthi Katam⁵, Anushka Chokshi⁶, Ratan Pal Yadav⁷, Darshine Venugopal⁸, Aishwar Dixit⁹, Saif Syed¹⁰, Ashwinikumar Shandilya¹¹, Mohit Lakkimsetti¹², Nayanika Tummala¹³, ROHAN RAJ⁴, VISHRANT AMIN¹, JUHI PATEL², HARDIK D. DESAI³

¹G.M.E.R.S MEDICAL COLLEGE VALSAD, Ahmedabad, India, ²G.M.E.R.S MEDICAL COLLEGE VALSAD, Valsad, India, ³Gujarat Adani Institute of Medical, AHMEDABAD, India, ⁴Nalanda Medical College and Hospital, Patna, Patna, India, ⁵Sri Venkateswara Medical College, Tirupati, Tirupati, India, ⁶Narendra Modi Medical College, Ahmedabad, India, ⁷NRI Medical College, Guntur, India, ⁸University of Illinois college of medicine, Peoria, Peoria, Illinois, United States, ⁹Baba Raghav Das Medical College, Gorakhpur, India, ¹⁰Royal college of Surgeons, Dublin, Ireland, Dublin, Ireland, ¹¹Rural Medical college. Pravara institute of medical sciences., Ahmednagar, India, ¹²Mamata Medical College, Khammam, Khammam, India, ¹³Gitam Institute of Medical Sciences, Vishakapatnam, India

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

Sushruth Manchineella, Xiuyuan Wang, Tracy Butler, yi li, Gloria Chiang, Silky Pahlajani, Liangdong Zhou, Mony de Leon, Lidia Glodzik

Radiology - Brain Health Imaging Institute, Weill Cornell Medicine, Mason, Ohio, United States

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

Sepiso K. Masenga¹, Leta Pilic², Annet Kirabo¹

¹Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, United States, ²ST Mary's University, Twickenham, United Kingdom

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

Tsuneo Takenaka¹, Toshiaki Miyazaki², Naohito Ishii³, Arif Hasan⁴, Akira Nishiyama⁶, Matsuhiko Hayashi⁵

¹IUHW, Minato, Tokyo, Japan, ²Saitama Medical University, Iruma, Saitama, Japan, ³Kitasato University, Sagami-hara, Kanagawa, Japan, ⁴Iwate Medical University, Morioka, Iwate, Japan, ⁵Keio University, Shinjuku, Tokyo, Japan, ⁶Kagawa University, Takamatsu, Kagawa, Japan

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

Nurana Tagiyeva¹, Alisa Uhrbach¹, Sarah Kedziora², Sofia Kirke K. Forslund¹, Suphansa Sawamiphak², Ralf Dechend³, Nadine Haase¹, Dominik N. Mueller⁴

¹EXPERIMENTAL AND CLINICAL RES CTR, Berlin, Germany, ²MDC Berlin, Berlin, Germany, ³Charite and Helios Clinic Berlin, Berlin, Germany, ⁴MAX DELBRUCK CTR, Berlin, Germany

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

Kayla Nist¹, James McKenna², Richard D. Wainford²

¹Boston University, Decatur, Georgia, United States, ²Emory University, Atlanta, Georgia, United States

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

Kayla Nist¹, Angela Capriglione¹, Richard D. Wainford²

¹Boston University, Decatur, Georgia, United States, ²Emory University, Atlanta, Georgia, United States

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

Francisco J. Rios¹, Augusto C. Montezano³, Livia L. Camargo², Rheure A. Lopes⁵, Ana Garcia⁶, ELIHU ARANDAY-CORTES⁵, Ana M. Briones⁷, John McLauchlan⁵, Rhian M. Touyz⁴

¹RI-MUHC, Montreal, Quebec, Canada, ²McGill University Health Centre, Montreal, Quebec, Canada, ³McGill University Health Centre, Montreal, Quebec, Canada, ⁴McGill University, Montreal, Quebec, Canada, ⁵UNIVERSITY OF Glasgow, Glasgow, United Kingdom, ⁶Universidad Autónoma de Madrid, Madrid, Spain, ⁷Universidad Autónoma de Madrid, Madrid, Spain

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

Preeti Virwani¹, Gordon Qian¹, Carman Nga-Man CHEUNG², Tommy K.K.T.S. Pijarnvanit¹, Matthew HSU¹, Yick Hin Chow¹, Lok Kan TANG¹, YIU-HEI TSE¹, Jia-Wen XIAN¹, Shirley Sau-Wing LAM¹, Pek Iok Crystal LEE¹, Chelsea CW LO¹, Roxanna KC LIU¹, Tsi Lok HO¹, Bak Yue CHOW¹, Kin Sum Leung¹, Kwun Kwan Emily Lo¹, Man-Fung Yuen¹, Suet Yi Leung¹, Ivan FN HUNG¹, Jimmy Chun Yu Louie¹, Kay Cheong Teo¹, Hani EL-Nezamy¹, Joshua Ho¹, Kui Kai Lau¹

¹The University of Hong Kong, Hong Kong, China, ²The University of Hong Kong, Hong Kong, China

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

Di Wu¹, Shuang Bing¹, Hongbin Qiu¹, Yiying Zhang¹, Shan-jie Wang²

¹Department of Epidemiology and Biostatistics, School of Public Health, Jiamusi University, Jiamusi City, China, ²Department of Cardiology, Second Affiliated Hospital of Harbin Medical University, Harbin Medical University, Harbin, China

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

Sebastien Hayoz¹, Mason Adams¹, Deanna Clinch¹, Thaiane Foster¹, Madeleine Flynn¹, Giuliana Fusco¹, Abigail Hoyt¹, Dae-Kyung Kim¹, Kaitlyn Kwasny¹, Josiah Rautenberg¹, Gavin Robertson¹, Tevin Robertson¹, Rohit Sahota¹, Arielle K. Nilsson¹, Lizetta Zozobrado¹, Christopher T. Banek²
¹University of Arizona, Tucson, Arizona, United States, ²University of Arizona, Tucson, Arizona, United States

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

Jacob Sullivan, Tia Jain, McKenna E. Briddell, Carolilne Leal, Matias A. Preisegger, Michael S. Gold, Sean Stocker
UNIVERSITY OF PITTSBURGH, Pittsburgh, Pennsylvania, United States

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

Jesse Viggiano, Dominic Coutinho, Diana Martinez
Cooper Medical School of Rowan University, Camden, New Jersey, United States

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

Andrew Sharp¹, Michel Azizi², Ajay J. Kirtane³, Michael J. Bloch⁴, Lemont Baker⁵, Candace K McClure⁶, Naomi D. Fisher⁷
¹University Hospital of Wales, Cardiff, United Kingdom, ²Universite Paris Descartes, Paris, France, ³Columbia University Medical Center, New York, New York, United States, ⁴Blue Spruce Medicine Consultants, Reno, Nevada, United States, ⁵Scientific Affairs, Recor Medical, Palo Alto, California, United States, ⁶Biostatistics, NAMS, Minneapolis, Minnesota, United States, ⁷BRIGHAM WOMENS HOSPITAL, Boston, Massachusetts, United States

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

Friedrich C. Luft², Francis Neelon¹, Philip j. Klemmer³, William McDowel¹, Anastacia Bohannon¹, Scott Sanoff¹, Pao-Hwa Lin¹
¹Medicine, Duke University Medical Center, Durham, North Carolina, United States, ²EXPERIMENTAL AND CLINICAL RESEARCH, Berlin, Germany, ³University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States

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

Steven ONeill¹, Jeremiah Ukwela², Margaux Randolph², Vlad Marcu², Steve Majerus⁴, Jonathan Baskin³
¹Anatomy, Case Western Reserve University, Cleveland, Ohio, United States, ²Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, United States, ³Louis Stokes Cleveland Department of Veterans Affairs Medical Center, Cleveland, Ohio, United States, ⁴Electrical, Computer and Systems Engineering, Case Western Reserve University, Cleveland, Ohio, United States

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

Wei Chen, Marwa Abd-Eldayem, Nathaniel Bloodworth, David M. Patrick, David G. Harrison
Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

DEVON DATTMORE
Pharmacology and Toxicology, Michigan State University, Lansing, Michigan, United States

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

Jun Feranil¹, Raisha Campisi Cadme², Shaun Moore², Ines Armando¹, Pedro A. Jose²

¹Washington, District of Columbia, United States, ²GEORGE WA UNIV SCH MED HEALTH SCI, Washington, District of Columbia, United States

P-393 Isolevuglandins Regulate Chromatin Accessibility in Hypertensive Human Monocytes

Jaya Krishnan, Johnson Phung, Nestor de la Visitacion, David M. Patrick

Vanderbilt University Medical Center, Nashville, Tennessee, United States

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

Dominic N. Nthenge-Ngumbau, Hannah Downing, Zach DeGraff, LEI CHEN, Alan Daugherty, Kathryn Saatman

University of Kentucky, Lexington, Kentucky, United States

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

Cheryl Rockwell¹, DEVON DATTMORE¹, Paiton McDonald¹, Afrin Chowdhury¹, Saamera Awali¹, Allison Boss¹, Lisa Sather², Adam A. Lauver³

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

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

Fahimeh Varzideh¹, Stanislovas Jankauskas¹, Urna Kansakar¹, Xiao-Han Tang², Lorraine Gudas², Roberto Levi², Jessica Gambardella¹, Gaetano Santulli¹

¹Department of Medicine, Albert Einstein College of Medicine, Bronx, New York, United States, ²Department of Pharmacology, Weill Cornell Medicine, New York, New York, United States

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

Haidong Zhu, Ying Huang, Yanbin Dong

Medicine, Augusta University, Augusta, Georgia, United States

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

Li Cai¹, Ling Yao¹, Qing Zhu¹, Shasha Liu¹, Duolao Wang², Jing Hong¹, Muralbek Heizhati¹, Nanfang Li¹

¹Hypertension Center, People's Hospital of Xinjiang Uygur Autonomous Region, Urumqi, Xinjiang, China, ²LSTM, Liverpool, United Kingdom

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

Aleksandra Degtyar¹, Marcee Wilder¹, Kimberly T. Souffront²

¹Emergency Medicine, Mount Sinai, New York City, New York, United States, ²Icahn School of Medicine, New York, New York, United States

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

Andrew Nguyen², Jonathan Le³, Tzu Yu Huang¹, Patrick Botting¹, Susan Cheng¹, Joseph E. Ebinger¹

¹Cedars-Sinai Heart Institute, Los Angeles, California, United States, ²UCLA, Los Angeles, California, United States, ³Cedars-Sinai Medical Center, Los Angeles, California, United States

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

Cole Chapman², Brett Faine¹, Barry L. Carter⁴, David A. Talan³, Philip M. Polgreen⁵, Linnea Polgreen¹

¹UNIVERSITY OF IOWA, Iowa City, Iowa, United States, ²University of Iowa College of Pharm, Iowa City, Iowa, United States, ³University of California Los Angeles, Los Angeles, California, United States, ⁴UNIVERSITY IOWA COLLEGE PHARMACY, Coralville, Iowa, United States, ⁵UNIVERSITY OF IOWA, Iowa City, Iowa, United States

P-402 The Impact of Preeclampsia Education in Rural Communities

Ashley Hurd-Jackson¹, Mark K. Santillan², Kara Boeldt³, Elissa Faro², Donna A. Santillan¹

¹Carver College of Medicine, UNIVERSITY OF IOWA, Iowa City, Iowa, United States, ²UNIVERSITY IOWA CARVER COLL MED, Iowa City, Iowa, United States, ³EndPreeclampsia, Chicago, Illinois, United States

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

Diana Aguirre, Linda B. King, Kyna Shine

American Heart Association, Dallas, Texas, United States

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

Alison Smith⁵, Katherine Overton¹, Liz Montgomery², Jianing Yang³, Gregory Wozniak³, Michael Rakotz³, Michele M. Bolles⁴, Eduardo J. Sanchez²

¹American Heart Association, Dallas, Texas, United States, ²American Heart Association, Brandon, Vermont, United States, ³American Medical Association, Chicago, Illinois, United States, ⁴American Heart Association, Phoenixville, Pennsylvania, United States, ⁵American Heart Association / American Medical Association, Chicago, Illinois, United States

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

Alison Smith¹, Sondi Fiegel⁴, Josh Scales², Gary Harmon⁴, Ashley Wagner³, Eduardo J. Sanchez⁴

¹American Heart Association / American Medical Association, Highland Park, Illinois, United States, ²Uniti Health, Nashville, Tennessee, United States, ³Office of Science, Medicine and Health, American Heart Association, Madison, Wisconsin, United States, ⁴American Heart Association, Dallas, Texas, United States

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

Ashley Wagner¹, Gary Harmon¹, Nekeisha Harrison¹, Andrew L. Mills², Jan Pillai¹, Eduardo J. Sanchez¹

¹American Heart Association, Dallas, Texas, United States, ²American Heart Association, Dallas, Texas, United States

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

Maggie Murphy¹, Stefan Kiessling¹, Carol Vincent⁵, Elizabeth A. Onugha², Sandeep Riar³, Michael Walsh⁴, Andrew M. South⁵

¹UNIVERSITY OF KENTUCKY, Lexington, Kentucky, United States, ²Baylor College of Medicine, The Woodlands, Texas, United States, ³Children's Healthcare of Atlanta, Atlanta, Georgia, United States, ⁴Atrium Health Wake Forest Baptist, Winston-Salem, North Carolina, United States, ⁵Wake Forest School of Medicine, Winston Salem, North Carolina, United States

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

Elizabeth A. Onugha¹, Carol Vincent², Giya Harry², Maggie Murphy³, Andrew M. South²

¹Pediatrics, Baylor College of Medicine, Houston, Texas, United States, ²Wake Forest School of Medicine, Winston Salem, North Carolina, United States, ³UNIVERSITY OF KENTUCKY, Lexington, Kentucky, United States

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

Carol Vincent¹, Giya Harry¹, Margaret Murphy⁴, Elizabeth Onugha², Andrew M. South³

¹Wake Forest University School of Medicine, Winston Salem, North Carolina, United States, ²Baylor College of Medicine, The Woodlands, Texas, United States, ³Wake Forest School of Medicine, Winston Salem, North Carolina, United States, ⁴University of Kentucky College of Medicine, Lexington, North Carolina, United States

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

Caifang Xu¹, Shiwei Jiang¹, Jian Wang¹, Qianchuo Wang¹, Jian WANG²

¹Pediatric Cardiology, Xinhua Hospital, Shanghai, China, ²Xinhua Hospital, Shanghai, China

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

Casey Hamlet¹, Felix Afriyie¹, Omar Elkattawy¹, Gabriela Carrillo¹, Sarah M. Folk¹, Neha Patel¹, Julius M. Gardin²

¹Rutgers New Jersey Medical School, Ridgewood, New Jersey, United States, ²Rutgers New Jersey Medical School, Newark, New Jersey, United States

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

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

¹Department of Medical Biochemistry, Faculty of Pharmacy University of Belgrade, Belgrade, Serbia, ²Department for High risk Pregnancy, Gynecology and Obstetrics, Gynecology and Obstetrics Clinic Narodni Front, Belgrade, Serbia, ³Department of Gynecology and Obstetrics, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

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

Asako Mito¹, Osamu Shirasaki¹, Akiko Sankoda¹, Naoko Sakamoto¹, FUMIAKI IKENO², Latha Palaniappan², Naoko Arata¹

¹Division of Maternal Medicine, National Center for Child Health and Development, Tokyo, Japan, ²Stanford University, Palo Alto, California, United States

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

Rachael Morris¹, C. Flannery Voges-Haupt², Aurielle Fowler², James Hogg³, Emily Campbell¹, Gail Ohaegbulam¹, Laura Coats⁴, Myrna Alexander Nickens²

¹OBGYN, UMMC, Jackson, Mississippi, United States, ²UMMC, Jackson, Mississippi, United States, ³Mississippi Perinatal, Madison, Mississippi, United States, ⁴UMMC, Brandon, Mississippi, United States

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

Robin C. Shoemaker¹, Neil Patel², Elizabeth Mirsky², Dolph Davis¹, Marko Poglitsch³, Hong Huang¹, John A. Bauer¹, John O'Brien²

¹Pediatrics, University of Kentucky, Lexington, Kentucky, United States, ²Maternal Fetal Medicine, University of Kentucky, Lexington, Kentucky, United States, ³ATTOQUANT, Vienna, Austria

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

Ramana Vaka², Lorena M. Amaral¹, Christy L. Chambers², Nathan Campbell², Baoying Zheng², Babbette B. Lamarca²

¹MEDICAL CENTER- UMMC, Jackson, Mississippi, United States, ²UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, Mississippi, United States

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

Ramana Vaka, George Booz, Sarah Adcock, Elizabeth Hinton, Babbette B. Lamarca
UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, Mississippi, United States

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

Lilian Caroline Oliveira¹, Nayara Azinheira Nobrega Cruz¹, Mariana D. Passadore¹, Mariana Bocato³, JOSE GERALDO MILL², Fernando Barbosa Jr³, Dulce Elena Casarini¹

¹Universidade Federal de Sao Paulo, Sao Paulo, Brazil, ²Federal Univ Espirito Santo, Vitoria, Brazil, ³Universidade de São Paulo, Ribeirão Preto, São Paulo, Brazil

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

Marcin Ufnal¹, Lenka Tomasova³, Mateusz Szudzik¹, Klaudia M. Maksymiuk²

¹Medical University of Warsaw, Warsaw, Poland, ²Medical University of Warsaw, Warsaw, Poland, ³Slovak Academy of Sciences, Bratislava, Slovakia

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

Jun Feranil¹, Laureano D. Asico², Ines Armando³, Robin A. Felder⁴, Pedro A. Jose⁵, Hewang Lee¹

¹George Washington University, Washington, District of Columbia, United States, ²GEORGE WASHINGTON UNIVERSITY, Washington, District of Columbia, United States, ³George Washington University, Washington, District of Columbia, United States, ⁴The University of Virginia, Charlottesville, Virginia, United States, ⁵GEORGE WA UNIV SCH MED HEALTH SCI, Washington, District of Columbia, United States

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

Juan Luis Martinez², Albert Clara², Susana Vazquez¹, Isabel Galceran¹, Lidia Marcos², Maria Jose Perez Saez¹, Marta Crespo¹, Anna Oliveras¹

¹Nephrology, Hospital del Mar, Barcelona, Spain, ²Vascular Surgery, Hospital del Mar, Barcelona, Spain

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

Chandramohan Ramasamy, Kandasamy Neelamegam, Samivel Ramachandran, Kailash N. Pandey
Tulane University Health Sciences Center, New Orleans, Louisiana, United States

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

Hinalathi¹, Soumyadeep Bag¹, Alina Sehar¹, Aesha Patel¹, Kaehler Roth¹, Aleeza Qamar², John Fanning¹, Tanja Dudenbostel¹

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

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

Yves Wang², Nhu Nguyen², Luan Le², Nora Franceschini¹, Thu H. Le²

¹Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States, ²University of Rochester Medical Center, Rochester, New York, United States

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

Osamu Yamazaki, Wataru Fujii, Yumika Yakuwa, Atsuro Chonan, Taiji Furukawa, Ken Kozuma, Yoshihide Fujigaki, Shigeru Shibata
Teikyo University, Tokyo, Japan

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

Gunnar Anderson

SLOCUM DICKSON MED GROUP PC, New Hartford, New York, United States

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

Mark C. Chappell¹, Christopher L. Schaich¹, Laurence Busse⁴, Michael T. McCurdy², Jeremiah Hinson³, Jonathan Sevransky⁴, Richard E. Rothman³, David Wright⁴, Gregory Scott Martin⁴, Ashish K. Khanna¹

¹Wake Forest Univ School of Medicine, Winston Salem, North Carolina, United States, ²University of Maryland School of Medicine Joseph Medical Center, Baltimore, Maryland, United States, ³Johns Hopkins School of Medicine, Baltimore, Maryland, United States, ⁴Emory University School of Medicine, Atlanta, Georgia, United States

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

Angelica Pineda¹, Natalia Rukavina Mikusic¹, Debora Rinaldi¹, Eric D. Lazartigues², Hernan Grecco³, Mariela M. Gironacci¹

¹Universidad de Buenos Aires, Facultad de Farmacia y Bioquímica, Buenos Aires, Argentina, ²LSU HEALTH SCIENCES CENTER, New Orleans, Louisiana, United States, ³Universidad de Buenos Aires, Facultad de Ciencias Exactas, Buenos Aires, (select), Argentina

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

Nandini Vishwakarma², Drew Theobald⁴, Srinivas Sriramula³, Laxmansa C. Katwa¹

¹Physiology, Brody School of Medicine, East Carolina University, Greenville, North Carolina, United States, ²Physiology, Brody School of Medicine, East Carolina University, Greenville, North Carolina, United States, ³Pharmacology and Toxicology, Brody School of Medicine, East Carolina University, Greenville, North Carolina, United States, ⁴Pharmacology and Toxicology, Brody School of Medicine, East Carolina University, Greenville, North Carolina, United States

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

marco marcelli¹, John W. Funder², Caixia Bi³, Michael J. McPhaul¹

¹Endocrine Research, Quest Diagnostics, San Juan Capistrano, California, United States, ²Hudson Institute of Medical Research, Clayton, Victoria, Australia, ³Applied Clinical Biostatistics | Medical Informatics, Quest Diagnostics, Secaucus, New Jersey, United States

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

Silvia Medrano¹, Lucas Almeida², Maria Luisa S. Sequeira³, Roberto A. Gomez⁴

¹UNIVERSITY OF VIRGINIA, Charlottesville, Virginia, United States, ²UVA, CHARLOTTESVILLE, Virginia, United States, ³UNIVERSITY VIRGINIA, Charlottesville, Virginia, United States, ⁴UNIVERSITY OF VIRGINIA, Charlottesville, Virginia, United States

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

Vidya Nagalakshmi¹, Alexandre G. Martini², Fang Xu³, Jason P. Smith³, Ariel Gomez³, Maria Luisa S. Sequeira⁴

¹UNIVERSITY OF VIRGINIA, Charlottesville, Virginia, United States, ²University of Brasilia, Brasilia, Brazil, ³University of Virginia, Charlottesville, Virginia, United States, ⁴UNIVERSITY VIRGINIA, Charlottesville, Virginia, United States

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

Rodrigo Yokota, Ana Paula de Oliveira Leite, Lilian Caroline G. Oliveira, Andreia Cristina Febba Gomes, Dulce Elena Casarini
Medicine, Universidade Federal de Sao Paulo, Sao Paulo, Sao Paulo, Brazil

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

Haifeng Zheng¹, Shiyue Pan¹, Gang Chen¹, Gregory Morton², Michael Schwartz², Yumei Feng Earley¹

¹UNIVERSITY OF NEVADA, RENO, Reno, Nevada, United States, ²University of Washington, Seattle, Washington, United States

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

Peter Blattmann, Marc Iglarz, Roland F. Dreier, Parisa Danaietash, Mouna Sassi-Sayadi, Martine Clozel
Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland

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

Martine Clozel, Mouna Sassi-Sayadi, Roland F. Dreier
Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland

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

Melis Ketenci, Arzhang Fallahi, Mina Owlia, Forugh Homayounrooz, David H. Hsi
Department of Medicine, Stamford Hospital, Stamford, Connecticut, United States

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

Yue Lu, Guangyuan Shen, Zhilong Hu, Yuanfeng Xia, Fanglong Yang
Changchun Genescience Pharmaceuticals Co., Ltd., Shanghai, China

P-441 A Curious Case of Salt-Sensitive Hypertension

Madhumitha Rajagopal¹, Joshua L. Rein²

¹Icahn School of Medicine Mt Sinai, New York, New York, United States, ²James J Peters Department of Veterans Affairs Medical Center, Bronx, New York, United States

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

Markus P. Schlaich¹, George L. Bakris², John M. Flack³, Parisa Danaietash⁴, Mouna Sassi-Sayadi⁴, Krzysztof Narkiewicz⁵, Jiguang Wang⁶, Michael A. Weber⁷

¹UNIVERSITY OF WESTERN AUSTRALIA, Perth, Western Australia, Australia, ²The University of Chicago Medicine, Chicago, Illinois, United States, ³SIU SCHOOL MEDICINE, Springfield, Illinois, United States, ⁴Idorsia, Allschwil, Switzerland, ⁵Medical University of Gdansk, Gdansk, Poland, ⁶Ruijin Hospital,

Shanghai Jiao Tong University School of Medicine, Shanghai, China, ⁷SUNY Downstate College of Medicine, New York, New York, United States

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

Dongqing Chen¹, Aderonke E. Igbekele¹, Guanghong Jia²

¹University of Missouri School of Medicine, Columbia, Missouri, United States, ²UNIVERSITY OF MISSOURI, Columbia, Missouri, United States

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

Marco Travaglini, Federica Confalonieri, Lucia Fontana, Alessandro Colombo, Leonardo Baldassarre
TDK InvenSense, Milano, Italy

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

Thais Luma De Oliveira Roza¹, Enildo Broetto Pimentel¹, Carmem Luiza Sartorio¹, JOSE GERALDO MILL²

¹Federal University Of Espirito Santo, Cariacica, ES, Brazil, ²Federal Univ Espirito Santo, Vitoria, Brazil

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

Louis-Charles Desbiens³, Annie-Claire Nadeau-Fredette³, Francois Madore¹, Mohsen Agharazii², Remi Goupil¹

¹Hopital du Sacre-Coeur de Montreal, Montreal, Quebec, Canada, ²Hotel-Dieu de Quebec, Quebec, Quebec, Canada, ³Universite de Montreal, Montreal, Quebec, Canada

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

Ariane Imulinde Sugi¹, Alex Walker¹, Riva Menon¹, Chase Richard², Sophia A. Blessinger³

¹Tulane University, New Orleans, Louisiana, United States, ²Tulane University, New Orleans, Louisiana, United States, ³Tulane University, New Orleans, Louisiana, United States

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

Ann Kuganathan¹, Vincent Lu¹, Bo Gao¹, Melissa MacDonald¹, Jeffrey Dickhout¹, Joan Krepinsky²

¹McMaster University, Hamilton, Ontario, Canada, ²McMaster University, Hamilton, Ontario, Canada

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

Adam Lauver¹, Hannah Garver¹, Javier Rendon¹, Gregory D. Fink¹, Teresa Krieger-Burke², Andres Contreras¹, Stephanie W. Watts¹

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

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

Paolo Mattesini¹, Alessandro Ramalli¹, Marco Travaglini², Federica Confalonieri², Leonardo Baldassarre²

¹University of Florence, Florence, Italy, ²TDK InvenSense, Milan, Italy

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

Dillon McClintock¹, Sydney Bush¹, Lisa Sather², Nathan R. Tykocki¹, Stephanie W. Watts¹, Sara Roccabianca³

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

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

Leah Terrian¹, Janice Thompson², Vishal Panda⁴, Stephanie W. Watts³, Sudin Bhattacharya⁵, Rance Nault²

¹Biomedical Engineering, Michigan 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, ⁵Michigan State University, East Lansing, Michigan, United States

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

Janice Thompson¹, Stephanie W. Watts²

¹Michigan State University, East Lansing, Michigan, United States, ²MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States

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

Kuangyi Wang, Junyi Zhang, Yufeng Jiang, Yafeng Zhou

The Fourth Dushu Lake Hospital affiliated to Soochow University, Suzhou, Jiangsu, China

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

Stephanie Watts¹, Janice Thompson², Sudin Bhattacharya², Vishal K. Panda², Leah Terrian², Andres Contreras³, Rance Nault²

¹MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States, ²Michigan State University, East Lansing, Michigan, United States, ³MICHIGAN STATE UNIVERSITY, East Lansing, Michigan, United States

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

Landon Fairbanks¹, Sohom Mookherjee¹, Craig Cowley¹, Masaaki Yoshigi¹, Patricio A. Araos², J David Symons¹, Brandi Wynne¹

¹University of Utah, Salt Lake Cty, Utah, United States, ²Autonomous University of Chile, Santiago, Chile