



Hypertension

All poster sessions take place in Independence A&B

Thursday, October 8

5:30 – 7:00 PM

Poster Session 1 and Reception

Includes the TAC Poster Competition

This session is sponsored by *Hypertension*, an American Heart Association Journal

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Poster Session 1
Thursday 5:00 PM – 7:30 PM

Aldosterone, Receptors and Signal Transduction

TH100

Class-Wide Safety Profile of Aldosterone Synthase Inhibitors in Resistant Hypertension: A Meta-Analysis of Randomized Controlled Trials

Venkata Sai Abhilash Meda

TH101

Demographic Variation in Hyperaldosteronism in a Large and Diverse Population With Diagnosed Hypertension and Obstructive Sleep Apnea

Veronica Njuguna

TH102

Cardiovascular Benefits of Aldosterone-Targeted Therapies Beyond Blood Pressure Reduction in Primary Aldosteronism: A Systematic Review

Drashti Thakkar

TH103

Beyond Spironolactone: Comparative Outcomes of Finerenone versus Steroidal MRAs in Heart Failure From Landmark Trials and Real-World Evidence

Moe Htoo

TH104

Oxidative Stress-Dependent HIF-1 α /NF- κ B Signaling Drives Mineralocorticoid Receptor Expression and Activation Leading to Aortic Valve Calcification in Chronic Kidney Disease

Frederic Jaisser

TH105

Aldosterone-Induced Platelet Spleen Tyrosine Kinase Overexpression Promotes Arterial Thrombosis in Primary Aldosteronism via Mineralocorticoid Receptor Activation

Yongbo Ma

TH106

The Role of PKC β on Mineralocorticoid Receptor-Mediated Vascular Endothelial Dysfunction

Masashi Mukohda

Antihypertensive Drugs and Pharmacology

TH107

Effects of Different Antihypertensive Classes on Pulse Pressure Vary by Baseline Pulse Pressure: A Secondary Analysis of the Treatment of Mild Hypertension Study (TOMHS)

Grace Lee

TH108

Antihypertensive Mechanism Determines Retinal Hemodynamics in Isolated Systolic Hypertension

Breanna Pederson

TH109

Cardio-Kidney-Metabolic Protective Therapy Does Not Intensify With Overlap Burden in a Predominantly Black Heart Failure and Hypertension Cohort

Prince Alino

TH110

Coordinated Plasma and Kidney Proteomics Reprogramming Supports Sustained Blood Pressure Reduction After RAS Inhibition Withdrawal in Spontaneously Hypertensive Rats

Jan Danser

TH111

Trends in Single-Pill Combination Therapy for Hypertension Among US Veterans, 2000-2022

Catherine Derington

TH112

Baxdrostat Attenuates Circulating Pro-Fibrotic Protein Signatures in the BaxHTN Trial

Jamie Dwyer

Artificial Intelligence/LLM

TH113

Explainable Machine Learning Identifies Dietary Features Associated With Abnormal Blood Pressure Among United States Youth

Phu Nhan Nguyen

TH114

Artificial Intelligence Enabled Remote Monitoring Lowers Blood Pressure in High Risk First Responders

Susan Colpoys

TH115

Association of a Gamified AI Mobile Health App on Blood Pressure Outcomes

Kristen Pallok

TH116

Treat the Patient, Not the Pressure: Machine Learning Reveals Frailty and Equity as True Drivers of Hypertensive Crisis Mortality

Marlon Rivera Boadla

Blood Pressure Monitoring

TH117

Nocturnal Blood Pressure Level and Dipping in Relation to Cognitive Function and Dementia Prevalence

Dante Arrona

TH118

Improving Hypertension Control Through Remote Blood Pressure Monitoring in a Resident-Run Internal Medicine Clinic: A Quality Improvement Initiative

Elisabeth Beason

TH119

Paradoxical Association of Aldosterone-Renin Ratio With Automatic Office Blood Pressure in Chronic Kidney Disease Patients

Deven Bhakta

TH120

Placental Lead Levels and Postpartum Blood Pressure in the Fair Start Study

Sharon Kulali

TH121

Cardiovascular Outcomes Associated With Positional Blood Pressure Difference Between Supine, Seated, and Standing Positions: A Secondary Analysis of ARIC

Aldis Petriceks

TH122

The Growing Burden of Hypertensive Emergency in U.S. Emergency Departments: A Retrospective National Analysis of Trends, Mortality, and Cost (2017-2022)

Ronaldo Pichardo

TH123

Clinical Significance of Within-Visit Blood Pressure Variability: A Systematic Review

Sahithi Reddi

TH124

Occult Nocturnal Hypertension in a CKD-Enriched Rural Tertiary Hypertension Referral Cohort

Dain Shirmer

TH125

Performance of AI-Based Search Platforms for Identifying Blood Pressure Device Validation

Anna Soriano

TH126

Non-Dipping Nocturnal Blood Pressure Pattern and Post-Donation Renal Function in Living Kidney Donors

Nathasith Tangprasittichok

TH127

Home Blood Pressure Monitoring Devices in Australia: Validation and Agreement

Ritu Trivedi

TH128

Home Blood Pressure Monitoring at Random versus Standardized Times: Cross-Sectional Evidence From a Tertiary Care Center in Pakistan

Aysha Almas

TH129

Engagement Profiles With a Blood Pressure Mobile App Are Associated With Graded Reductions in Blood Pressure Over Six Months

Tiago Almeida

TH130

Remote Blood Pressure Monitoring at a Federally Qualified Health Center: A Pilot Study on Feasibility and Barriers to Enrollment in a Low-Income Community

Kavenpreet Bal

TH131

Retrospective Study Comparing Standard Care and Remote Blood Pressure Monitoring for Timely Detection of Elevated Blood Pressure for Prenatal and Postpartum Patients

Mia Charifson

TH132

Nativity is Associated With Blood Pressure Screening Across Race and Ethnicity Groups in the United States

Jay Dalal

TH133

Agreement of Smartphone-Based Cuffless Blood Pressure Estimation With Reference Measurement: A Systematic Review and Meta-Analysis of OptiBP/CamBP Validation Studies

Padideh Dancii

TH134

Facilitators and Barriers to Implementing Community-Based Blood Pressure Screenings

Gary Harmon

TH135

Team Up to Take Down Blood Pressure: Partnering in Greater Philadelphia to Reduce the Burden of Hypertension

Gary Harmon

TH136

Association Between Caregiving Duration and Hypertension Among Family Caregivers: The TMM CommCohort Study

Rieko Hatanaka

TH137

Does Cuffless Blood Pressure Monitoring Remain Accurate at Night? A Day-Night Subanalysis of an Invasive Arterial Line Validation Study

Elias Hellou

TH138

Ambulatory Blood Pressure Phenotypes in a Predominantly Rural Population

Charles Hopley

TH139

Persistent Nocturnal Hypertension in a CKD-Enriched Rural Referral Population

Charles Hopley

BP Control and Adherence to Treatment

TH140

Persistent Monotherapy Among Patients With Uncontrolled Hypertension in a Large Ambulatory Cohort

Scott Grubman

TH142

Improving Hypertension Management Through an Interdisciplinary Protocol-Driven Care Model in Rural Primary Care

Shandi Barclay

TH143

The Patient Activation Measure is Not Associated With Adherence to Home Blood Pressure Monitoring in the Heart to Heart Blood Pressure Control Study's Intervention Arm

Ameek Chaddha

TH144

Addressing the Treatment Gap in Uncontrolled Hypertension: Results From a Real-World Survey

Jieling Chen

TH145

Design, Rationale, and Baseline Findings From a Patient-Centered Randomized Trial of Technology-Enabled Team Care: The Heart-2-Heart: BP Control Partners Study

Doyle Cummings

TH146

Impact of a Mobile Health Cardiovascular Self-Management Program on Blood Pressure Control Among Medicare Advantage Beneficiaries

Vivek Gurumoorthy

TH147

Gaps in Hypertension Diagnosis, Treatment, and Blood Pressure Control in Nepal: Baseline Findings From the SCALE-NCD Trial

Maryam Hameed Khan

TH148

Agentic Artificial Intelligence Enables High Engagement and Blood Pressure Improvement in an Underserved Community Health Center Population

Jared Leitner

Cardiac Hypertrophy and Dysfunction

TH149

Ventricular Arrhythmias After CRT-D Nonresponse: A Pooled Evidence Synthesis Supporting Failure of Reverse Remodeling Over Primary CRT-Mediated Proarrhythmia

Nayana Bhandari

TH150

Pressure First, Mitral Transcatheter Edge-to-Edge Repair Later: Optimizing Afterload and Goal Directed Medical Therapy in Secondary Mitral Regurgitation

Rafla Hassan

TH151

Burden of Hypertensive Heart Disease Across South Asian Nations From 1990 to 2023: A Country-Level Analysis From the Global Burden of Disease Study

Tirath Patel

TH152

Echocardiographic Phenotyping and Clinical Outcomes in Hypertensive ICU Patients: A Retrospective Cohort Study

Anuj Timshina

Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors

TH153

A Novel Heart-to-Kidney Injury Axis: Natriuretic Peptide Signaling Drives Podocyte Dysfunction in Cardiorenal Syndrome

Thea De

TH154

A Circulating Proteomic Signature Predicts Incident Chronic Kidney Disease in Hypertensive Adults Without Diabetes

Vivek Kanpa

TH155

Association of Combined eGFR and Albuminuria With Hypertension Severity and Pulse Pressure Among U.S. Adults: A 2011 - 2023 NHANES Analysis

Boonyasit Ngamvirojcharoen

TH156

A Graded Association Between Reduced Kidney Function and Cardiovascular Mortality Among US Adults With Hypertension: A Nationally Representative Survival Analysis Using the Race-Free CKD-EPI 2021 Equation

Kwabena Odei-Kumi

Clinical Trials in Hypertension and Related Morbidities

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Effects of DASH-Patterned Groceries on Serum Potassium Levels in Black Adults Taking Potassium-Raising Medications

Marian Budu

TH158

Abnormal Blood Pressure Patterns Show Phenotype-Dependent Response to Antihypertensive Therapy: A Secondary Analysis of the Systolic Blood Pressure Intervention Trial (SPRINT)

Shreyas Rajesh

TH159

Association of Nativity Status With Cardiometabolic Risk Factors Among Participants in a Northern Virginia Community-Based Screening Program

Vanessa Alvarez

TH160

Hypertension, Comorbidities, and Polysocial Risks Differ Among Black and Latino Adults in Maryland and Washington, D.C.: A Baseline Profile of the Roots of Wellness Randomized Trial Participants

Elizabeth Andrade

TH161

Cardiovascular Comorbidities Increase the Risk of Postoperative Myocardial Infarction Following Total Hip and Knee Arthroplasty: A Systematic Review and Meta-Analysis

Diego Irigoyen Echeverria

Cognition, Cerebrovascular Disease and Stroke

TH162

HYTARNI Study in Clinic Utilization of Sacubitril Valsartan for the Management of Hypertension Prospective Observational Study

Uday Jadhav

TH163

Assessing the Impact of Arterial Stiffening on Alzheimer's Disease Progression in APPPS1 Mice

Cayla Jeff

TH164

Impaired Clearance of Parenchymal Waste in DOCA-Salt Hypertension

Olivia Kelly

TH165

Effects of Chronic Hypertension and Menopause on Cerebral Hemodynamics in Cognition-Centric Brain Regions

Emily Schellinger

TH166

Trends in Hypertension-Dementia Related Co-Mortality in the United States, 1999-2024

Jocelyn Wensel

TH167

Ang II i.c.v. is Associated With Sex-Specific Cognitive Impairment and Tau Phosphorylation in the Absence of Hypertension

Sara Zarate

TH168

Uncontrolled Hypertension is Associated With Increased Rates of Dementia: The EnligHTN Study

Vivek Bhalla

TH169

Chronic Hypertension and Social Isolation Disrupt the Blood-Brain Barrier and Memory in a Sex-Dependent Manner

Gianna DeMarco

Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome

TH170

No Effects of High Salt and Ketone Supplementation on Circulating Metabolic and Appetite Factors in Middle Aged to Older Adults

Kallie Dawkins

TH171

Guideline-Directed Cardiorenal Therapy in CKM Syndrome: Trends, Inequities, and Missed Opportunities

JATIN DHAMECHA

TH172

Impact of Blood Pressure Optimization on PREVENT-Based ASCVD Risk Classification and Treatment Indications: National Estimates From NHANES

Severyn Kushmeliuk

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Targeting the Endothelin System With a Gut Microbiota-Derived Metabolite in Obesity-Induced Type 2 Diabetes and Hypertension

Nimi Pullenkunnel Simon

TH174

The Obesity Paradox in Hypertensive Crises: A Propensity-Matched Nationwide Analysis

Nava Sharma

TH175

New Insights Into Renal Mechanisms of GLP-1RAs: Semaglutide Directly Dilates Afferent Arterioles via Vascular Smooth Muscle Cell GLP-1 Receptors

Janice Tang

TH176

Performance of Contemporary Cardiovascular Risk Estimates Against 10-Year Cardiovascular Mortality Among U.S. Adults With Diabetes

Juliet Zon

TH177

Impact of Essential Hypertension on the Risk and Progression of Diabetic Retinopathy in Patients With Type 2 Diabetes: A Cohort Study

Faisal A. Al-Harbi

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Semaglutide and Tirzepatide Reduce Clinic-Measured Blood Pressure in Adults With Overweight or Obesity: A Systematic Review and Meta-Analysis

Carlos Cantu Lopez

Genetics, Epigenetics and Epidemiology

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Systolic Blood Pressure Time in Target Range and Adverse Kidney Outcomes: A Systematic Review and Meta-Analysis

Brett Cohen

TH180

Integrated Analysis of CASC15 Isoform Regulation by Aldosterone and Angiotensin Signaling

Warley Cunha

TH181

Alcohol Use and Blood Pressure Severity in a Community-Based Nepalese Cohort

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US Trends in Ten-Year Cardiovascular Risk Scores Over Two Decades

Ofek Goldwasser

TH183

Sex-Stratified Association Between Hypertensive Heart Disease and Cardiomyopathy Prevalence Among Adults Across 13 Midwestern States: A Population-Level Trend Analysis Using the Global Burden of Disease Study, 1990-2023

Aanchal Gupta

TH184

Demographic Variation in Cardiorenal Complications Among Patients With Resistant Hypertension and Heart Failure With Preserved Ejection Fraction

Satesh Kumar

TH185

Blood Pressure Phenotypes Among Young Adults in the United States

Nghia Phu Nguyen

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Divergent Epidemiological and Economic Burdens of Hypertensive Heart Disease: A Value of Lost Welfare Study of 183 Countries

Sriphani Alekya Vanteru

TH187

The Silent Accelerator: Hypertensive Disease as a Contributing Cause in Fatal Cocaine and Psychostimulant Overdoses, United States, 1999-2020

Victor O. Adedara

TH188

Higher Exposure to Transportation Noise is Linked to Increased Blood Pressure: The English Longitudinal Study of Ageing

Samuel Cai

TH189

Income Disparities in Hypertensive-Range Blood Pressure Among US Adults Without Obesity: NHANES 2007-2018

Matthew Dandan

TH190

Global Macroeconomic Burden of High Systolic Blood Pressure: A Value of Lost Welfare Analysis Across 184 Countries Using GBD 2023 Estimates

Hardik Dineshbhai Desai

TH191

Rising Hypertensive Disease Mortality Among U.S. Women of Childbearing Age, 1999-2020: National Trends, Disparities, and Geographic Hotspots

Hardik Dineshbhai Desai

TH193

Uncontrolled Hypertension - Patient Profiles in Japan: The EnligHTN-Japan Study

Tadateru Hamada

TH194

National Trends in Hypertensive Heart Disease Mortality Across Racial, Ethnic, and Geographic Strata in the United States From 2018-2024

Mandeep Kaur

TH195

Stroke Mortality Trends Among U.S. Older Adults With Hypertensive Heart Disease: An Age Period Cohort Analysis

Rebecca Kulappuwa Wadu

TH196

Epigenome-Wide and Pathway Analysis of Blood Pressure in Hispanic People Living With HIV

Shashank Madhu

TH197

Incidence and Predictors of Hypertension Among People Living With HIV in Sub-Saharan Africa: A Systematic Review and Meta-Analysis

Leslie Tasha Mbapah

TH198

Burden, Temporal Trends, and Determinants of Hypertension in Adults Living With HIV or Tuberculosis in Sub-Saharan Africa

Leslie Tasha Mbapah

Hypertension and Aging

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Therapeutic Inertia Increases With Age in Veterans With Uncontrolled Blood Pressure

Ryan Gigstad

TH200

Discrepancy Between UACR and Serum Creatinine-Based Estimated Glomerular Filtration Rate and Its Association With All-Cause Mortality in Hypertensive Patients

Nitchanan Kitlertbanchong

TH201

Nanoparticle Encapsulated Ceftriaxone Microinjection in the Rostral Ventrolateral Medulla Attenuates Obesity Induced Hypertension and Sympathoexcitation in Male Mice

Diani Nanayakkara

TH202

Phenotyping Morbidly Obese Patients With Hypertensive Emergency- Comorbidity Based Clusters and Associated Adverse Outcomes

Parjanya Bhatt

TH203

Trends and Demographic Disparities in Arterial Embolism and Thrombosis Mortality Among Adults With Hypertension in the United States, 1999-2025: A Retrospective Analysis

Ramya richa

TH205

High Fiber Diet Attenuates Age-Dependent Salt Sensitivity of Blood Pressure in Old Male Sprague-Dawley Rats

Xiangyu Zheng

TH206

Silent Hypoperfusion Despite Severe Hypertension: A Novel High-Risk Phenotype in Critically Ill Adults

prince Darko

TH207

Hypertensive Heart Disease Mortality in the United States, 2018-2024: A Nationwide Assessment of Temporal Trends, Pandemic-Era Acceleration, and Persistent Sociodemographic Inequities

VISHRANT AMIN

TH208

Outcomes Associated With ICD-10 I16.x Coding Among Patients Meeting Physiologic Criteria for Severe Hypertension

Muhammad Sameer Arshad

TH209

Food Insecurity and Dietary Behaviors Among Adults at Risk for Stage 2 Hypertension: Evidence From LINKED-BP Program

Ariel Banks

TH210

Piezo1 Regulates Blood Pressure and Lipolytic Responses in Perivascular Adipose Tissue During Hypertension

Miguel Chirivi

TH211

Under-Coding of Hypertensive Crisis: Insights From a Large Health System

Lisa M. Cross

TH212

Premature Hypertensive Heart Disease Mortality With Obesity-Coded Metabolic Comorbidity Among U.S. Adults Aged 25-44 Years, 1999-2020

Hardik Dineshbhai Desai

TH213

Role of systemica7 Nicotinic Receptor and GABA-Dependent a7 Nicotinic Receptor in Rostral Ventrolateral Medulla in Hypertensive Rats Treated With Anti-Inflammatory and Hypotensive Electroacupuncture

Yiwei Gong

TH214

Visit-to-Visit Systolic Blood Pressure Variability and Major Adverse Cardiovascular Events

Pramod Grama

Microbiome, Infection and Hypertension

TH215

A Gut Microbiota-Derived Metabolite Targets Endothelin Signaling to Protect Against Angiotensin II-Induced Hypertension

Emmanuella Ezewudo

TH216

A Multi-Omic Assessment of Gut Microbiome, Oral Microbiome, and Serum Metabolome Associations With Hypertension

Minh Tuan Viet Nguyen

TH217

Gut Microbiota Regulate Intestinal Nutrient Transport in Salt-Sensitive Hypertension

Emily Otmanowski

Neurogenic Mechanisms

TH218

The Clock Gene, Bmal1, Contributes to the Long Term Regulation of Cardiovascular and Behavioral Function Following Adolescent Circadian Stress

Hiruni Aponso

TH219

Selective Expression of a Mutant AT1R With Prolonged Gq Signaling in AT1R-Expressing Neurons of the Subfornical Organ Enhances Na Preference in Mice

Joshua House

TH220

Blocking SK Channels in the PVN Alters the Character of Sympathetic Nerve Activity to Increase Blood Pressure

Nikolas Johnson

TH221

Cardiometabolic Dysfunction Secondary to Prenatal Fentanyl Exposure is Associated With Increased Spontaneous Activity of Paraventricular Hypothalamic Neurons

Percell Kendrick

TH222

Associations of Alamar Inflammation and Central Nervous System Proteins With Orthostatic Hypotension Among Adults With Diabetes: The ARIC Gen2 Study

Md Marufuzzaman Khan

TH223

Structural and Functional Differences in Aortic Baroreceptors Mediate Sex-Specific Differences in Baroreflex Sensitivity and Renovascular Hypertension

Gavyn Navarro

TH224

Circadian Autonomic Heart-Rate Organization in the Year Before Incident, Treatment-Naïve Hypertension

Anh Khoa Tran

Non-Pharmacological Therapy (Alternative Medicine; Nutrition/Diet; Physical Activity)

TH225

When Adolescents Cannot Fully Choose Their Food Environment: Household Financial Constraint, Food Participation, and Hypertension Prevention

Maria Balhara

TH226

Impact of a Mixed Berry Diet on Angiotensin II-Induced Cardiac Remodeling

Cameron McCarthy

TH227

Is Seeing Believing? Carotid Ultrasound Visualization as a Tool to Motivate Cardiovascular Risk Reduction in Young Adults

Zahra Sakkejha

Oxidative Stress, Inflammation, Immunity and Cytokines

TH228

Enhancing Parasympathetic Activity Reduces Oxidative Stress and Improves Endothelial Function During Lipid Challenge in Black Adults

Marwa Abd-Eldayem

TH229

Evaluating the Role of High Salt Diet on Hypertensive Risk and CD8 T Cell Response to Acute Viral Infection in Male and Female Mice

Sophia Blessinger

TH230

Five Week High Fat Diet Induces Inflammation of Mesenteric Perivascular Adipose in C57BL/6J Mice

Devon Dattmore

TH231

Ranking HLA Alleles by Isolevuglandin Presentation in Hypertension

Kuniko Hunter

TH232

Targeting CCR10 Mitigates Hypertension and End-Organ Injury by Enhancing Renal Regulatory T Cell Infiltration

Bianca Nguyen

TH233

Novel High-Parameter Immune Profiling Identifies Sex and Tissue Specific Alterations in Hypertensive Rats

Blayne Oliver

Patient-Provider-Healthcare System Issues

TH234

Hypertension Control and Therapeutic Inertia

Ava Bryan

TH235

Early Adoption of Triple-Combination Single-Pill Antihypertensive Therapy After Formulary Expansion: A Quality Improvement Initiative

Vishakha Modak

TH236

Hypertension Care Cascade in Lagos, Nigeria: Findings From a Large Opportunistic Screening Study

Micah Okwah

TH237

Evidence-Practice Gaps in Hypertension Care Cascade in Australia

Kaylee Slater

TH238

Hypertension Practice and Outcome Improvement Through a Facilitated Peer Learning Accelerator

Rebecca Alicki

TH239

Delayed Recognition of Obstructive Sleep Apnea After Hypertension Diagnosis Among Adults With Lower BMI in the All of Us Research Program

Priyanka Bheemreddy

TH240

Who Leads the “Team”? How Policy Discourse Shapes Systems, Practice, Power and Reform in Primary Care

Niamh Chapman

TH241

A Coded Multi Organ Damage Score for Risk Stratification After Hypertensive Crisis: Derivation and External Validation Across Two National Databases

Lanson Colaco

Pediatric and Adolescent Hypertension

TH242

Increased Peak Exercise Systolic Blood Pressure in Children With Hypertension

Hannah Hollon

TH243

Estimating the Concordance Between the AHA 2019 Pediatric Cardiovascular Risk Reduction and AHA 2023 Cardiovascular-Kidney-Metabolic Syndrome Staging at Baseline in Youth Receiving Subspecialty Care for Hypertension Disorders: A SUPERHERO Analysis

Aleya Monsalve

TH244

Rising Hypertensive Heart Disease Mortality Among U.S. Adolescents and Young Adults Aged 15-29 Years, 1999-2020

Khushbu Patel

TH245

Obesity is Associated With Subclinical Aldosterone Excess in Children With Primary Hypertension

Smitha Vidi

TH246

Maternal Ambient Heat Index Exposure During Pregnancy and Offspring Blood Pressure From Childhood Through Adolescence: Findings From the Environmental Influences on Child Health Outcomes (ECHO) Cohort
Mingyu Zhang

Pregnancy, Preeclampsia and Developmental Programming

TH247

Molecular Mechanisms of Amyloid Beta Clearance During and After (Pre)Eclampsia Modeled in Mice
Goodness Adegbola

TH248

Racial Differences in Systolic Blood Pressure Trajectories Across Pregnancy and Postpartum and Their Association With Preeclampsia in a U.S. Cohort
Rebekah Bhansali

TH250

Modulatory Effects of Progesterone, PIBF, and Magnesium Sulfate on TNFR2 and Immune Checkpoints Expression in a Preeclampsia Co-Culture Model
Patricia Braga da Silva Dalan

TH251

Potential Treatment Options for Superimposed Preeclampsia in a Pregnant Dahl Salt-Sensitive Rat Model
Christy Chambers

TH252

Systematic Review and Meta-Analysis on Coenzyme Q10 in Preeclampsia
Hiba Fala

TH253

Maternal High-Fat Feeding Accelerates Proteinuria and Worsens Placental Pathology in Pregnant Dahl Salt-Sensitive Rats
Krystle Hughes

TH254

Gestational Angiogenic Imbalance Predicts Long-Term Cardiovascular Risk in Women With Hypertensive Disorders of Pregnancy: A Systematic Review
Lakshmi Sai Meghana Kodali

TH255

Machine Learning Models for the Prediction of Pre-Eclampsia: A Systematic Review and Meta-Analysis
Maneeth Mylavarapu

TH256

Metformin Exposure During Polyendocrine Metabolic Ovarian Syndrome (PMOS) Pregnancy: Offspring Cardiometabolic Outcomes
Olabisi Ogunlewe

TH257

Defining Perivascular Adipose Tissues Development During Embryonic and Early Postnatal Life
Alyssa Shadowens

TH258

Adoptive Transfer of RUPP Macrophages Induce Systemic and Cerebral Vascular Dysfunction and Microglial Activation in Normal Pregnant Rats

Hellen Shepard

TH259

Uneven Progress Against Obstetric Hypertension: G20 Burden of Maternal Hypertensive Disorders and 2050 Forecasts, 1990-2023

VISHRANT AMIN

TH260

Multiplexed LC MSMS Quantification of Circulating RAAS Peptides in RUPP Rat Model of Preeclampsia

Torien Beard

TH261

Prepregnancy GLP-1 Receptor Agonist Use and Hypertensive Treatment Burden in Patients With Type 2 Diabetes and Preeclampsia

Taylor Bell

TH261B

Location Matters: Hypertensive Pregnancy Outcomes by Rurality

Briana Kulisch

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A Decade of Risk: Preeclampsia Drives Ischemic Heart Disease and Heart Failure Independent of Fetal Growth Restriction in Women Without Pre-Existing Cardiovascular Disease

Tayyaba Saleem

Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension

TH262

Role of Renal Principal Cell BK Channels in Blood Pressure Regulation

Samia LASAAD

TH263

The Effects of High Salt and Ketone Supplementation on Blood Pressure and Kidney Hemodynamics in Middle-Aged and Older Adults

Jake Muma

TH264

Ultrafast Doppler Ultrasound: A Novel Tool for Longitudinal Evaluation of Renal Vascular Function in Experimental Hypertension

Benjamin Wall

Renin-Angiotensin System

TH266

The Choroid Plexus as a Source of Functional Renin in the Brain

Ismayr Blanco

TH267

Association of Body Mass Index With Renin Suppression in Bilateral Primary Aldosteronism

Phillip Hartfield

TH268

PKM2 Links Angiotensin II Signaling to Sex-Specific Resistance Vessel Hyperreactivity via Voltage-Gated Ca²⁺ Entry

Gagandeep Kaur

TH269

Asynchronous Recovery Reveals Persistence of the Recruited Renin Cell Phenotype

Jonathan Liu

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Primary Aldosteronism Screening in Primary Care: Opportunities and Pitfalls in Interpretation

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Patterns of Mineralocorticoid Receptor Antagonist Utilization in Apparent Treatment-Resistant Hypertension: Insights From a Large Real-World Ambulatory Cohort

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Global Trends in Primary Pulmonary Arterial Hypertension Mortality in the United States, 1999-2025: A 27-Year Retrospective Analysis

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Contemporary Management of Renal Artery Stenosis in Patients Presenting With Resistant Hypertension

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Progesterone Modulates Regulatory T Cells in DOCA-Salt Treated Female Rats

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Sex Differences in Fasting Lactate and Cardiometabolic Risk Markers

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Cardiometabolic Predictors of Cutaneous Microvascular Endothelial Function in Generally Healthy Young Adults

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Vascular Biology, Remodeling, Dysfunction, Stiffness

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Integrated Transcriptomic and Proteomic Analysis Identifies Novel Post-Transcriptionally Regulated Candidates of the RhoBTB1-CUL3 Pathway in Endothelial Cells

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Endothelial Progranulin Preserves Vascular Function in Obesity via Nitric Oxide-Dependent Mechanisms

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Endothelial Piezo1 Deletion Induces Vascular Bed-Specific Gene Expression Changes in the Aorta and Mesenteric Arteries

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Histone Modification and Chromatin Remodeling Regulate VSMC Phenotypic Switching and Vascular Function Through the Regulation of CCAR1 in Vascular Aging

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Engineering Human Vascularized Adipose Organoids From Induced Pluripotent Stem Cells to Study Perivascular Adipose Tissue Function

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Endothelial Mineralocorticoid Receptor Overexpression Recapitulates the Vascular and Hemodynamic Consequences of Salt Loading in a Salt-Resistant Female Mouse Model

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Restoration of Endothelial Leptin Signaling Sex-Specifically Improves Cardiovascular Function Through Endothelin-1 Suppression in Obese Mice

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Sex-Specific Effects of Chronic Unpredictable Stress on Systemic Metabolic Parameters and Resistance Arterial Function in Mice

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Changing Hemodynamics in a Tirzepatide Super-Responder

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A Broken Heart That Keeps Breaking: Recurrent Takotsubo Cardiomyopathy Complicated by Cardiogenic Shock

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Intrarenal Doppler Hemodynamics in Chronic Heart Failure With Atrial Fibrillation

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Novel *SCNN1B* and *SCNN1G* Missense Variants Identified in Patients With Apparent Treatment-Resistant Hypertension and a Liddle-Like Phenotype: A Case Series

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Uncontrolled Hypertension in a Young Adult With Thrombotic Microangiopathy: Cause, Consequence, or Both?

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When Herbs and NSAIDs Collide: Dialysis-Requiring AKI in a Genetically Vulnerable Patient

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Marked Episodic Hypertension From Autonomic Dysfunction: A Clinical Utility of the 24-Hour Ambulatory Blood Pressure Monitoring

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A Hemodynamic Paradox: First Reported Case of Cushing Reflex Complicating Hypertension Management After Malignant MCA Infarction

Khulood Talpur

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Aldosterone, Receptors and Signal Transduction

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Primary Aldosteronism Screening Among Patients With Hypertension and Hypokalemia in a Large Academic Medical Center

Michaela Polmann

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Lorundrostat Mitigates Cardiorenal Injury Independent of Blood Pressure Reduction in an L-NAME/Angiotensin II Rat Model

Jose Romero

FR402

BREAKTHROUGH Prevalence Study With HyperPATH: Aldosterone Dysregulation is Highly Prevalent in Patients With Uncontrolled Hypertension

Jonathan Williams

FR403

Demographic Variation in High Aldosterone Renin Ratio (ARR) Among Adults With Hypertension and Primary Aldosterone Screening

Lily Xu

FR404

Aldosterone Modifies Blood Pressure Response to Weight Loss After Bariatric Surgery

Ananya Yaganti

Antihypertensive Drugs and Pharmacology

FR406

Semaglutide Lowers Blood Pressure and Reduces TAGLN Expression in Mesenteric Perivascular Adipose Tissue of High Fat Diet-Fed Dahl Salt-Sensitive Rats

Adam Lauver

FR407

Effects of Adrenomedullin in Regulating Na⁺/H⁺ Exchanger 3 Ubiquitination Modification in Renal Proximal Convoluted Tubular Epithelial Cells

Zhen-zhen Li

FR408

Dedicated Antihypertensive Use Rises Across the Ejection Fraction Spectrum While Patients With Preserved Ejection Fraction Rely on Dual-Purpose Heart Failure Agents for Blood Pressure Control

Desmonae Perry

FR409

Hydralazine is Used Predominantly as Monotherapy Rather Than the Evidence-Based Isosorbide Dinitrate Combination in Black Patients With Heart Failure and Hypertension

Desmonae Perry

FR410

Antihypertensive Drug-Induced Acute Pancreatitis: A Rare Cause

Riya Singla

FR411

Cardiovascular Benefits and Harms of Sustained Antihypertensive Treatment in Young Adults Aged 18 to 39 Years: A Target Trial Emulation

Jingzhi Yu

Artificial Intelligence/LLM

FR412

Tabular Foundation Models With Survey-Weighted Conformal Prediction for Forecasting Cost Escalation in US Adults With Hypertension: A MEPS Panel Study

Anshul Saxena

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Artificial Intelligence for Hypertension Care: Promise vs Readiness

Abeer Serag

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Cardiovascular Disease Comorbidity and Hospitalization Risk Among Emergency Department Injury Patients: A Nationally Representative Cross-Sectional Study With Natural Language Processing-Enabled Comorbidity Extraction and Transformer Pipeline

Jiancheng Ye

Blood Pressure Monitoring

FR415

Blood Pressure Levels and Incident Cardiovascular Disease in Women With a High-Risk Cardiovascular Profile

Bulemba Katende

FR416

Patient-Reported Productivity and Out-of-Pocket Costs for Hypertension Management Among Safety-Net Patients Enrolled in the REACH-SNS Self-Measured Blood Pressure Monitoring Clinical Trial

Elaine Khoong

FR417

Assessing Satisfaction With Long-Term Home Blood Pressure Monitoring After Hypertensive Disorders of Pregnancy

Kate Luo

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Community-Based Cardiovascular Health Screening Outcomes From the Helping Everyone Access Resources for Total Heart Health (HEART) Program

Sharmaine McCoy

FR419

Two Methods to Determine Inter-Arm Blood Pressure Differences for Proper Cuff Placement in Home Blood Pressure Measurement in Clinical Trials: Learnings From the Heart-2-Heart Blood Pressure Control Partners Study

Freja Murphy

FR420

Racial Differences in Cardiometabolic Risk Factors in a Northern Virginia Community Screening Program

Alexandra Pannell

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Bayesian Approach for Estimating Regression to the Mean of Blood Pressure: Application to Real-World Data From Bangladesh and Implications on a Nationwide Hypertension Program Evaluation

Chathurangi H Pathiravasan

FR422

Home versus Office Blood Pressure Measurement, Enhancing Accuracy and Patient Care

Andrea Price

FR423

High School Student-Led Community Blood Pressure Screening Identifies Frequent Above-Normal Readings in Lake Norman, North Carolina

Adam Rezai

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Control Beyond the Cuff: Self-Monitored Blood Pressure and Lifestyle Modification for Hypertension Control

Beth Short

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Inter-Rater Auscultatory Blood Pressure Agreement Across Independent Clinical Studies

Tuhin Sinha

FR426

Loudness Does Not Predict Inter-Rater Blood Pressure Agreement in Digitally Captured Auscultatory Recordings

Tuhin Sinha

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Barriers to the Routine Use of Standardized Automated Office Blood Pressure Measurement: A Multinational Survey

Anna Soriano

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Cardiovascular Effects of Chronic GLP-1-GIP and GLP-1-GIP-Glucagon Agonist Treatments on High-Fat Diet Fed 3xTg-AD Mice

Robert Speth

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Long-Term Risk of Resistant Hypertension, Hypertensive Urgency, and Hypertensive Emergency Following Preeclampsia: A Large-Scale Federated EHR Analysis

Ella Tazuh

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Assessment of ViTrack, <sup>a Continuous Blood Pressure Wearable in Pregnant Women

Mohan Thanikachalam

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Dynamic Mortality-Optimal Mean Arterial Pressure Targets in Critically Ill Patients With Hypertensive Emergency

Anuj Timshina

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Patterns and Factors Associated With Retention in Care in HEARTS Hypertension Control Programs in Three Low- and Middle-Income Countries

Eva Tseng

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Simultaneous Monitoring of Heart Rate, Blood Pressure, Body Temperature, and Wheel Activity in Group-Housed Telemetry-Instrumented Mice

Alana Valenzuela

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Intraindividual Blood Pressure Rhythmicity and Subsequent Risk for Uncontrolled Blood Pressure Among Blood Donors in the United States

Elaine Yu

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Advancing Risk Detection Through Dental-Based Blood Pressure Screening and Referral

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Assessing Differences in Average In-Office Blood Pressure Based on Number of Measurements: A Real-World Data Analysis

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Human Centered Design to Optimize Use of a Digital Self-Measured Blood Pressure Tool

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Racial and Regional Disparities in Young-Onset Hypertension Mortality in the United States, 2018-2024

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BP Control and Adherence to Treatment

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Geographic Clustering of Hypertension Mortality in the United States: Intensification of the Stroke Belt and Persistence of Extra-Regional Hotspots

prince Darko

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Association Between Social Vulnerability and Hypertension Prevalence and Treatment in the United States

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Implementation of a Cardiovascular Kidney Metabolic Hypertension Pathway in a Federally Qualified Health Center

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Apparent Treatment-Resistant Hypertension, All-Cause Mortality, and Racial and Socioeconomic Disparities Among Treated Working-Age US Adults: A Survey-Weighted Cohort Study

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No Association of Depression or Perceived Stress With Blood Pressure Among Adults With Cardiometabolic Multimorbidity in the LINKED-HEARTS Program

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Healthcare Utilization and Hypertension Control in a Healthcare for the Homeless (HCH) Clinic

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Longitudinal Simpson Paradox in the Systolic Blood Pressure Intervention Trial

Oscar Rueda-Ochoa

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Adherence to Mineralocorticoid Receptor Antagonists for Uncontrolled and Treatment-Resistant Hypertension: A Targeted Literature Review and Meta-Analysis

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Association Between Preferred Pharmacy Drive Time and Blood Pressure Control in a Large Midwest Healthcare System

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Heterogeneity in Longitudinal Follow-Up Among Patients With Hypertension: A Group-Based Trajectory Modeling Study

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Diurnal Blood Pressure and Systemic Hemodynamic Alterations in the Evolution of Hypertension and Heart Failure

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Cardiomyopathic and Heart-Failure Phenotypes in Pulmonary Hypertension Mortality: A U.S. Multiple-Cause-of-Death Analysis, 1999-2020

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Ischemic Heart Disease Mortality Attributable to High Systolic Blood Pressure in India, 1990-2023: State-Level Trends, Sex Divergence, and Projections to 2030

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Divergent Trajectories of NT-proBNP and Left Ventricular Ejection Fraction During Progressive Pulmonary Hypertension

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Cardiopulmonary Burden in Hypertensive Emergency: National Trends in Respiratory Failure, Mortality, and Resource Utilization

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Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors

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Rising Obesity- and Hyperglycemia-Attributable Hypertension-Related Chronic Kidney Disease Among Young Individuals in the United States: A Sex-Divergent Trend Between 1990 and 2023

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Circulating and Endothelial Progranulin Are Increased in Hypertension and Preserve Vascular Function Through Nitric Oxide Signaling

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Ultrasound Renal Denervation Shows Meaningful Blood Pressure Reduction in Isolated Systolic Hypertension: A Matched Global Paradise System Registry Analysis

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PCSK9 Inhibitors Reduce Major Adverse Cardiovascular Events Without Increasing Mortality, Serious Adverse Events, or Hypertension in Patients With Diabetes: A Meta-Analysis of Randomized Controlled Trials

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