

# The 46th Annual Scientific Meeting of the Japanese Society of Hypertension

## International Program (DAY 1)

October 12th Saturday

Both Live Streaming and On-site

Room 5: 4F / meeting room 411-412

\*Casual lunch buffet is available on-site.

### 9:00~ Opening Remarks

Akira Nishiyama Kagawa University, Kagawa, Japan

### 9:00~11:00 International Sponsored Symposium 1

Sponsored by A&D Company, Limited  
(On-site Presentation)

Joint program of Asia Hypertension Society Network/HOPE Asia "High-quality blood pressure management: outline "

Chairs Kazuomi Kario Jichi Medical University, Tochigi, Japan  
Ji-Guang Wang Shanghai Jiaotong University, Shanghai, China

Speakers Yan Li Shanghai Jiaotong University, Shanghai, China

*Home Blood Pressure Intervention in the Community*

Naoko Tomitani Jichi Medical University, Tochigi, Japan

*Nighttime blood pressure management: actisensitivity and circadian blood pressure variability*

Kelvin Tsoi The Chinese University of Hong Kong, Hong Kong

*Application of AI for home BP measurements*

Apichard Sukonthasarm Chiang Mai University, Chiang Mai, Thailand

*Air pollution and hypertension in Asia*

Yook-Chin Chia Sunway University, Kuala Lumpur, Malaysia

*Salt Restriction in Asia*

Discussants Kei Asayama Teikyo University, Tokyo, Japan

Jinho Shin Hanyang University Guri Hospital, Seoul, Korea

Sungha Park Yonsei University, Seoul, Korea

Yook-Chin Chia Sunway University, Kuala Lumpur, Malaysia

Apichard Sukonthasarm Chiang Mai University, Chiang Mai, Thailand

### 11:05~11:55 JSH International Session (Oral) 1

(On-line Presentation)

Chairs Hiroshi Akazawa Tokyo University, Tokyo, Japan

Yuuichi Akasaki Kagoshima University, Kagoshima, Japan

Speakers Nguyen Anh Tuyet Osaka University, Osaka, Japan

*Prediction of Hypertension using Machine Learning: Findings from STEPS*

*Noncommunicable Disease Risk Factors Survey in Vietnam*

Chengwei Liang Xiamen University, Xiamen, China

*Deep Learning Assists Early-Detection of Hypertension-Mediated Heart Damage on ECG Signals*

Zhe Hu Ruijin Hospital, Shanghai Jiaotong University, Shanghai, China

*Ambulatory blood pressure in male shift workers*

Ting-Wei Kao National Taiwan University Hospital and National Taiwan University, Taipei, Taiwan

*Performance of Primary Aldosteronism Screening in Hypertensive Patients*

Christina Daniela Brazier University of South Africa, Pretoria, South Africa

*The correlation between high and low doses of folic acid in pregnancy complications: a systematic review and meta-analysis*

**11:55~12:45 JSH International Session (Oral) 2 (On-line Presentation)**

Chairs	Kei Kamide	Osaka University, Osaka, Japan
	Takayoshi Okubo	Teikyo University, Tokyo, Japan
Speakers	Tong Feng	Southern Medical University, Guangzhou, China
	<i>Association between weekend catch-up sleep and hypertension of the United States population from 2017 to 2020: A cross-sectional study</i>	
	Boda Zhou	Tsinghua University, Beijing, China
	<i>Irregular pulse and cardiovascular disease findings from NHANES (1999-2018)</i>	
	Yao Xiao	Sichuan University, Sichuan, China
	<i>Comparison of the efficacy of different treatment regimens for resistant hypertension: A network meta-analysis</i>	
	Ming-Hsien Wu	New Taipei Municipal TuCheng Hospital, New Taipei City, Taiwan
	<i>Discontinuation versus continuation of Renin-Angiotensin System Inhibitors in Chronic Kidney Disease Stage 3-5 patients: a Meta-Analysis</i>	
	Lu Liu	Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China
	<i>The Effect of Digital Therapeutics Intervention on Improving Hypertension Management in Adults: A Meta-analysis of Randomized Controlled Trial</i>	

**12:45~13:35 JSH International Session (Oral) 3 (On-line Presentation)**

Chairs	Shinji Koba	Showa University, Tokyo, Japan
	Naohiko Anzai	Chiba University, Chiba, Japan
Speakers	Huynh Van Minh	Hue University of Medicine, Vietnam
	<i>Results of the MMM 2023 hypertension screening program in Thua Thien- Hue province</i>	
	Yu-Hsuan Lin	National Taiwan University Hospital, Taipei, Taiwan
	<i>Enhancing Diagnostic Accuracy for Primary Aldosteronism: The Role of SUV Quantification in SPECT/CT NP-59 Adrenal Scintigraphy</i>	
	Stephane Mbouna Massin	Laboratoire PRIMA SARL, Yaoundé, Cameroon
	<i>Reference Intervals for Serum Uric Acid in Sub-Saharan Africa Adult from a Reference Population of Cameroon</i>	
	Qing Ni	Kunming Yan an Hospital, Kunming, China
	<i>Analysis of SCNN1G gene polymorphism in patients with primary hypertension in Kunming area</i>	
	Jing Yang	The Third People's Hospital of Chengdu, Sichuan, China
	<i>Alleviation of the mitochondrial function impairment in doxorubicin-induced cardiomyocyte toxicity by cardioprotective agents</i>	

**13:40~15:40 International Sponsored Symposium 2 (On-site Presentation)**  
**Joint program of Asia Hypertension Society Network/HOPE Asia/APCMS "Vascular function and arterial stiffness in hypertension"**

Chairs	Satoshi Hoshide	Jichi Medical University, Tochigi, Japan
	Yook-Chin Chia	Sunway University, Kuala Lumpur, Malaysia
Speakers	Kazuomi Kario	Jichi Medical University, Tochigi, Japan
	<i>COUPLING study</i>	
	Hao-Min Cheng	Taipei Veterans General Hospital, Taipei, Taiwan
	<i>Development and Implementation of a Home Blood Pressure Management Service Model and Community-Based Blood Pressure Management Module</i>	
	Austin Yen-Hung Lin	National Taiwan University Hospital, Taipei, Taiwan
	<i>Primary aldosterone and vascular disease</i>	
	Sang Min Park	EuljiUniv, Daejeon, Korea
	<i>TBA</i>	
	HyunJin Kim	Hanyang University Guri Hospital, Seoul, Korea
	<i>The role of arterial stiffness on metabolic syndrome in Korea</i>	
	Atsushi Tanaka	Saga University, Saga, Japan
	<i>Evaluation of Vascular Function in Our Clinical Trials</i>	
Commentators	Hirofumi Tomiyama	Tokyo Medical University Hospital, Tokyo, Japan
	Yusuke Ohya	University of the Ryukyus Hospital, Okinawa, Japan

**15:50~17:10 JSH International Session (Oral) 4 Basic/Epidemiology (On-site Presentation)**

Chairs	Yasuhiro Izumiya	Osaka Metropolitan University, Osaka, Japan
	Tetsuo Nakata	Nishimura Clinic, Kyoto, Japan
Speakers	Xin Fan	Lanzhou University Second Hospital, Lanzhou, China
	<i>TRV027 reduces blood pressure in SHR and restores ventricular hypertrophy by affecting connexin 43 pathway</i>	
	Weidong Liu	The University of Osaka, Osaka, Japan
	<i>Elucidation of a novel mechanism for the development of MASH induced by oxidized low-density lipoprotein</i>	
	Jing Ma	Shanghai Institute of Hypertension, Shanghai, China
	<i>Intelligent Assist Office Blood Pressures (IOBP) Versus Awake Ambulatory Monitoring and Conventional Auscultatory Office Readings in Chinese Primary Medical Institutions</i>	
	Sang-Ho Jo	Hallym University Sacred Heart Hospital, Hwaseong, Korea
	<i>Diastolic blood pressure and long-term clinical outcome in young age: 10-year follow-up of 5,653,590 from Korean nation-wide data</i>	
	Yiqing Yang	Zhongda Hospital, Southeast University, Nanjing, China
	<i>Alcohol drinking, red cell distribution width, and stroke: a Chinese rural population-based prospective cohort study</i>	
	Yi Li	Sixth Medical Center of Chinese PLA General Hospital, Beijing, China
	<i>Association of Resting Heart Rate and Blood Pressure with Clinical Outcomes in Patients with Diabetes Mellitus</i>	
	Kaiyin Li	Cardiology, Peking University First Hospital, Beijing, China
	<i>Association between Changes in Central Blood Pressure and Peripheral Blood Pressure with Cardiovascular Events in a Chinese Community-Based Population</i>	
	Ching-Way Chen	National Taiwan University Hospital Yunlin Branch, Yunlin, Taiwan
	<i>Association of Lower Vitamin D Levels with Elevated Blood Pressure in Young Healthy Adults in Taiwan</i>	

**17:20~18:55 JSH International Best Presenter Award Candidate Session (On-site Presentation)**

Chairs	Masanari Kuwabara	Jichi Medical University, Tochigi, Japan
	Takafumi Ishida	Fukushima Medical University, Fukushima, Japan
Speakers	Tongshuai Guo	First Affiliated Hospital, Xi'an Jiaotong University, Xi'an, China <i>The association of long-term trajectories of BMI, its variability, and metabolic syndrome: A 30-year prospective cohort study</i>
	Sang-Ho Jo	Hallym University Sacred Heart Hospital, Hwaseong, Korea <i>Angiotensin-converting enzyme inhibitors/angiotensin-receptor blockers vs. calcium channel blockers for 12,478 young hypertensive patients under 40 in 10-year follow-up</i>
	Chieh Huang	School of Medicine, National Taiwan University, Taipei, Taiwan <i>Exploring High Prevalence and Comorbidities of Autonomous Cortisol Secretion in Primary Aldosteronism: A Retrospective Cohort Study and Systematic Review</i>
	Yang Wang	First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China <i>Associations of ultra long-term visit-to-visit blood pressure variability since childhood with vascular aging in midlife: a 30-year prospective cohort study</i>
	Yuxi Li	Peking University First Hospital, Beijing, China <i>Assessment of renovascular hypertension using fractional flow reserve and correlation with angiography and color Doppler ultrasonography: data from FAIR-pilot trial</i>
	Hajra Akil Gupta	National Institute For Research In Reproductive and Child Health, Mumbai, India <i>Exploring the Potential of Collectin Mediated Immunotherapy in LPS-induced Model of Pre-eclampsia</i>
	Yu-Ching Chang	National Taiwan University Hospital, Taipei, Taiwan <i>The Impact of Mineralocorticoid Receptor Antagonist Treatment versus Adrenalectomy on Cardiac Remodeling and Diastolic Function in Patients with Primary Aldosteronism</i>
	Guo Yu	Osaka University, Osaka, Japan <i>LOX-1 Potentiates Amyloid <math>\beta</math> Uptake in Microglial Cells via the Biased <math>\beta</math>-Arrestin 2 Pathway in AT1 Receptor</i>

**19:00~19:20 Award Presentation JSH International Best Presenter Award**

Presenter	Akira Nishiyama	Kagawa University, Kagawa, Japan
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## International Program (DAY 2)

October 13th Sunday

On-site program only

Room 7: 4F / meeting room 413

8:10~9:30	JSH International Session (Oral) 5	Clinical 1	(On-site Presentation)
Chairs	Tatsuhiko Azegami Takeshi Tokudome	Keio University, Tokyo, Japan Yokohama City University, Kanagawa, Japan	
Speakers	Hiroyuki Mizuno ZhengWei Chen No-Ting Lin Jieyu Liu Youngro Lee Chi Wang Pengjie Gao Jia Bo Zhu	Jichi Medical University, Tochigi, Japan National Taiwan University Hospital and National Taiwan University, Taipei, Taiwan Fu Jen Catholic University, New Taipei City, Taiwan. Peking University, Beijing, China Seoul National University, Seoul, Korea Sixth Medical Center of Chinese PLA General Hospital, Beijing, China First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China Shanghai Jiao Tong University, Shanghai, China	<i>Diagnostic Accuracy of Office Blood Pressure Measurement and Home Blood Pressure Monitoring for Hypertension Screening Among Adults</i> <i>Ageing Matters: Addressing the Challenges in Screening of Primary Aldosteronism in Elderly individuals</i> <i>The Relationship Between Tissue Inhibitor of Metalloproteinases-1 and Presence of KCNJ5 Mutation in Aldosterone Producing Adenoma Patients</i> <i>Exploring the Combined Effects of Phthalate Exposure and Physical Activity Patterns on High Blood Pressure Odds in Children</i> <i>Feasibility of watch-based blood pressure monitoring device in daily blood pressure monitoring</i> <i>In-hospital Systolic Blood Pressure Lowering Patterns and Risk of Rehospitalization for Angina in Patients with Hypertension and Coronary Artery Disease</i> <i>The correlation between neck circumference and cardiac electrical remodeling in Chinese obesity-related hypertension patients</i> <i>Morning-to-evening changes in home blood pressure as a predictor of fatal and nonfatal cardiovascular events</i>

**9:30~10:40 JSH International Session (Oral) 6 Clinical 2 (On-site Presentation)**

Chairs	Masahiro Natsuaki Yoshihiro Kokubo	Saga University, Saga, Japan National Cerebral and Cardiovascular Center Hospital, Osaka, Japan
Speakers	Yang Wang Yang Wang Danni Wang Suining Xu Anping Cai Yu Pan Thi My Linh Nguyen	First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China <i>Association of Long-term Time in Target Range for Systolic Blood Pressure Since Childhood With Arterial Stiffness in Midlife</i> First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China <i>Combined Effects of Child and Adult Elevated Blood Pressure on Adult Subclinical Kidney Damage and Albuminuria</i> First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China <i>The correlation between plasma homocysteine and morning blood pressure in patients with essential hypertension</i> First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China <i>Neck circumference is associated with serum uric acid level in patients with pre-hypertension</i> Guangdong Provincial People's Hospital, Guangzhou, China <i>Improved cardiovascular risk prediction using echocardiography in primary prevention for community populations with hypertension</i> The First Affiliated Hospital of Dalian Medical University, Dalian, China <i>The impact of TyG-BMI on Right Ventricular Systolic function in Hypertension, hs-CPR may be a mediator</i> Oxford University Clinical Research unit - Vietnam <i>Knowledge and Practice in lifestyle modification of Hypertension patients</i>

**10:40~11:50 JSH International Session (Oral) 7 Clinical 3 (On-site Presentation)**

Chairs	Syuntarou Kagiya Ryoji Ozono	Fukuseikai Hospital, Fukuoka, Japan Ozono Clinic Internal Medicine & Cardiology, Hiroshima, Japan
Speakers	Wei-Lun Chang Bo-Ching Lee Yi-Yao Chang Tsae-Ni Lee Dae-Young Kim So Ree Kim Ziwei Wang	Taipei Veterans General Hospital, Taipei, Taiwan <i>Effect of telemonitoring and community pharmacy-based home blood pressure case management</i> Medical Imaging, National Taiwan University Hospital, Taipei, Taiwan <i>Myosteatosis and sarcopenia are linked to autonomous cortisol secretion in APA</i> Far Eastern Memorial Hospital, New Taipei City, Taiwan <i>The Effect of Aldosterone on Vascular Dysfunction: A Reservoir-Pressure Analysis Study</i> Urology, National Taiwan University Hospital, Taipei, Taiwan <i>Suitability of Partial Adrenalectomy for Unilateral Primary Aldosteronism: Evaluating Success with Emphasis on Partial Success as an Optimistic Outcome</i> Inha University, Incheon, South Korea <i>Impact of home blood pressure measurement on the blood pressure control in hypertensive patients</i> Korea University Anam Hospital, Seoul, Korea <i>Relationship between systolic blood pressure and coronary flow velocity reserve in patients with chest symptoms and non-obstructive coronary arteries</i> The University of Osaka, Osaka, Japan <i>Role of <math>\alpha</math>-Synuclein in Endothelial Dysfunction and Its Implications for Age-Related Dementia</i>

**14:30~15:40 JSH International session (Poster) 1 (On-site Poster Presentation)**

Chairs	Kimiko Ishiguro	Toranomon Hospital, Tokyo, Japan
Speakers	Po-Lung Yang	National Taiwan University Hospital, Taipei, Taiwan <i>Steroid Metabolite Ratios as Predictive Biomarkers for Classical Histopathology in Primary Aldosteronism</i>
	Beining Wang	Peking University First Hospital, Beijing, China <i>Enhancing detection rate and promoting data consistency in primary aldosteronism screening: an app based on Fast Healthcare Interoperability Resources (FHIR)</i>
	Hyemooon Chung	Kyung Hee University, Seoul, Korea <i>Respiratory arousal index independently is associated with the presence of hypertension than apnea-hypopnea index in patients with obstructive sleep apnea</i>
	Wen-Kai Chu	National Taiwan University Hospital and National Taiwan University, Taipei, Taiwan <i>Incident Obstructive Sleep Apnea in Patients with Primary Aldosteronism Following COVID-19 Infection</i>
	Yong Hyun Park	Pusan National University Yangsan Hospital, Yangsan, Korea <i>Fate of Moderate to Severe Pulmonary Hypertension in Patients with Atrial Septal Defect after Surgical Correction</i>
	Moo-Yong Rhee	Dongguk University Ilsan Hospital, Goyang, Korea <i>Single-pill combination of third-dose triple antihypertensive therapy versus standard-dose monotherapy in patients with mild to moderate hypertension</i>

**14:30~15:40 JSH International session (Poster) 2 (On-site Poster Presentation)**

Chairs	Shinjo Sonoda	Saga University, Saga, Japan
Speakers	Li Yang	Zhejiang Hospital, Hangzhou, China <i>Long-term Exposure to Particulate Matter and Cause-specific Stroke Incidence: A Cohort Study in Eastern China</i>
	Li Yang	Zhejiang Hospital, Hangzhou, China <i>The long-term cardiometabolic effects of ambient ozone pollution in a large Chinese population</i>
	Jui-Yun Hsu	Medicine, College of Public Health, National Taiwan University, Taiwan <i>Association between inflammatory biomarkers with the risk of type 2 diabetes among middle-aged adults in Taiwan: a national representative study</i>
	Praveen Veerabhadrapa	The Pennsylvania State University, Berks, PA, USA <i>Cardiovascular risk factors among university employees.</i>
	He Zheng	South China University of Technology, Guangzhou, China <i>Association of antihypertensive drug target genes with stroke subtypes: A Mendelian randomization study</i>
	Xin Chen	Ruijin Hospital, Shanghai Jiaotong University, Shanghai, China <i>May Measurement Month 2020: an analysis of blood pressure screening results from China</i>



**14:30~15:40 JSH International session (Poster) 3 (On-site Poster Presentation)**

Chairs	Taku Inoue	Omoromachi Medical Center, Okinawa, Japan
Speakers	Mingyang Tang	Affiliated Fifth People's Hospital of Chengdu University of Traditional Chinese Medicine, China
		<i>A Study on the Effects of Blue Light on Blood Pressure and Endothelial Function in Mice</i>
	Alok Raghav	Gachon University, Seongnam, Korea
		<i>Exposure to endocrine disruptors organochlorine pesticides and its association with Protein kinase R like ER Kinase (PERK) in Pre-eclampsia</i>
	Qiuwen Wu	The 2nd Afliated Hospital of Harbin Medical University, Heilongjiang, China
		<i>VEGFC ameliorates salt-sensitive hypertension and hypertensive nephropathy by inhibiting NLRP3 inflammasome via activating VEGFR3-AMPK dependent autophagy pathway</i>
	Hao Li	First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China
		<i>Perivascular adipose tissue derived-leptin promotes vascular remodelling in high-fat diet induced obesity rat model</i>
	Eun Yi Oh	Yonsei University, Seoul, Korea
		<i>Involvement of endocan in vascular dysfunction in angiotensin II-induced hypertensive mice</i>
	Xiangyuan Wang	Hunan University of Traditional Chinese Medicine, Changsha, China
		<i>Study on the Mechanism of Naotaiyang in Improving White Matter Lesions Associated with Cerebrovascular Disease via Wnt/<math>\beta</math>-catenin Pathway</i>
	Nanxiang Yin	Osaka University, Osaka, Japan
		<i>Investigating Doxorubicin-Induced Senescence in Pancreatic <math>\beta</math>-Cells</i>

**14:30~15:40 JSH International session (Poster) 4 (On-site Poster Presentation)**

Chairs	Kenichi Goto	Kyushu University, Fukuoka, Japan
Speakers	Hye Yeon Koo	Seoul National University Bundang Hospital, Seongnam, Korea
		<i>The association between hypertension and cancer screening</i>
	Xiyang Li	First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China
		<i>Predictive Value of Left Atrial Global Longitudinal Strain (LAGLS) for Recurrence After Catheter Ablation in Hypertensive Patients with Atrial Fibrillation</i>
	Xia Han	Wuhan University of Science and Technology, Wuhan, China
		<i>Hospital-based education program to reduce salt intake in outpatients with mild-to-moderate hypertension: a pilot study</i>
	Sania Rauf	Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, Rawalpindi, Pakistan
		<i>Whole Exome Sequencing Reveals New Mutations in the Vasopressin Synthesis Pathway in Hypertensive Cardiovascular Disease</i>
	Bong-Goo Yoo	Kosin University Gospel Hospital, Busan, Korea
		<i>Central-Variant Posterior Reversible Encephalopathy Syndrome with Cerebellar Infarction related to Hypertension</i>



**14:30~15:40 JSH International session (Poster) 5 (On-site Poster Presentation)**

Chairs	Toshiaki Otsuka	Nippon Medical School Foundation, Tokyo, Japan
Speakers	Hyunsuk Kim	Chuncheon Sacred Heart Hospital, Chuncheon, Korea <i>Effects of Nursing Facility Residency on Mortality in Incident HD Patients</i>
	Huiyun Qu	People's Hospital of Henan University, Henan Provincial People's Hospital, Zhengzhou, China <i>Analysis of clinical and biochemical characteristics and impaired renal function in patients with indeterminate saline loading test</i>
	Huiyu Du	People's Hospital of Zhengzhou University, Henan Provincial People's Hospital, Zhengzhou, China <i>Design and validation of a scoring model for differential diagnosis of hypertensive nephropathy and IgA nephropathy in hypertension patients</i>
	Chun Yin See	National Cheng Kung University Hospital, Tainan, Taiwan <i>Seasonal Home Blood Pressure Variation is Associated with Poorer Outcomes in Patients with Chronic Kidney Disease</i>
	Chih-Cheng Wu	National Taiwan University Hospital, Hsinchu, Taiwan <i>Impact of aortic energy metrics on proteinuria in advanced CKD patients</i>

**14:30~15:40 JSH International session (Poster) 6 (On-site Poster Presentation)**

Chairs	Yoshio Iwashima	Kansai Medical University, Osaka, Japan
Speakers	Seung Hwan Han	Gachon University Gil Hospital, Incheon, Korea <i>Comparison of metabolic and inflammatory markers in non-obstructive coronary artery disease patients according to metabolic syndrome</i>
	Tetsuaki Onishi	Hyogo Prefectural Harima-Himeji General Medical Center, Hyogo, Japan <i>Association Between Estimated Salt Intake and Body Mass Index in Patients with Lifestyle-Related Diseases</i>
	Kwang Kon Koh	Gachon University, Seongnam, Korea <i>Pitavastatin Reduces Lipoprotein Levels and Improves Insulin Resistance</i>
	Kwang Kon Koh	Gachon University, Seongnam, Korea <i>Korean Survey of Cardiometabolic Syndrome 2021</i>
	Chi Wang	Sixth Medical Center of Chinese PLA General Hospital, Beijing, China <i>Association of Inflammation and Atherogenic Dyslipidemia with Incident Cardiometabolic Disease: A Longitudinal Cohort Study</i>
	Kuan-Yu Hung	Taipei Medical University, Taipei, Taiwan <i>Comparative Effectiveness of Dipeptidyl Peptidase-4 Inhibitors versus Sulfonylureas on Clinical Profiles as Add-on to Metformin in Type 2 Diabetes</i>