

Oral Sessions

Opening Ceremony **Wednesday, October 12**

Keynote Lecture

Main Hall (1F)

Chair(s)

Hiromi Rakugi, *Japan*

KL-1

Hypertension: Past Progress, Present Challenges and Future Promises

Victor J. Dzau, *USA*

Thursday, October 13

Session1		Room B-1 (2F)
7:40 - 8:40 Chair(s)	Disaster and Environmental Hazards in Hypertension-1 Dylan Burger, <i>Canada</i> ; Lars H. Lindholm, <i>Sweden</i>	
S-1-1 7:40-8:00	Particulate matter exposure and cardiovascular disorder Narsingh Verma, <i>India</i>	
S-1-2 8:00-8:15	Association of exposure to air pollutants during adolescence with blood pressure in young adulthood <u>Jingjing Wu</u> , Yao Lu <i>China, UK</i>	
S-1-3 8:15-8:35	Smart Wellness Housing And Blood Pressure Control <u>Wataru Umishio</u> , Toshiharu Ikaga, Kazuomi Kario <i>Japan</i>	

Session2		Room B-2 (2F)
7:40 - 8:40 Chair(s)	Hypertension and Psychoneurological/Physical Aging Jeff D. Williamson, <i>USA</i> ; Hiromi Rakugi, <i>Japan</i>	
S-2-1 7:40-7:49	Association of hypertension and dyslipidemia with cognitive function in community-dwelling older adults: the SONIC study <u>Yuko Nakamura</u> , Mai Kabayama, Kayo Godai, Hiroshi Akasaka, Yasuyuki Gondo, Yukie Masui, Yasumichi Arai, Tatsuro Ishizaki, Hiromi Rakugi, Kei Kamide <i>Japan</i>	
S-2-2 7:49-8:06	Regional regeneration in super-aged society Katsuya Iijima, <i>Japan</i>	
S-2-3 8:06-8:23	A review and new insights from the SPRINT MIND trial data Jeff D. Williamson, <i>USA</i>	
S-2-4 8:23-8:40	Blood pressure, antihypertensives and dementia, an individual patient data meta-analysis <u>Ruth Peters</u> , Craig Anderson, On Behalf of the Dementia Risk reduction (direct) Collaboration Representing Five Large Clinical Trials <i>Australia, UK</i>	

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Morning Seminar1		Room C-1 (1F)
7:40 - 8:40	Wearable device and Telemedicine	
Chair(s)	Hao-Min Cheng, <i>Taiwan</i>	

Sponsor: Daiichi Sankyo Co., Ltd.

- MS1** **Telemedicine and Hypertension: New digital devices for hypertension therapy - The importance of Blood Pressure Self-Management -**
 Bryan Williams, *UK*

Session3		Room C-2 (1F)
7:40 - 8:40	Imaging for Hypertension Management	
Chair(s)	Chisa Matsumoto, <i>Japan</i> ; Yook-Chin Chia, <i>Malaysia</i>	

- S-3-1** **Brain imaging for the management of hypertension**

7:40-8:00 Hidekazu Tomimoto, *Japan*

- S-3-2** **Associations of Brachial-Ankle Pulse Wave Velocity with Left Atrial Stiffness and Left Atrial Phasic Function in Hypertension**

8:00-8:10

Yan Liu, Tingting Fu, Yu Pan, Qiaobing Sun, Tao Cong, Yinong Jiang
China

- S-3-3** **Association between PEP/ET and Left Ventricular Ejection Fraction of Pulse Wave Measurements in Patients at High Cardiovascular Risk**

8:10-8:20

Yusuke Ishiyama, Tomoyuki Kabutoya, Satoshi Hoshide,
 Kazuomi Kario
Japan

- S-3-4** **Renal Imaging in Hypertension**

8:20-8:40 Roland Erich Schmieder, *Germany*

Thursday, October 13

Plenary Lecture1		Main Hall (1F)
8:40 - 9:40		
Chair(s)	Bryan Williams, <i>UK</i>	

- PL-1** **Deciphering the mystery of sleep: toward the molecular substrate for sleepiness**
 8:40-9:40 Masashi Yanagisawa, *Japan*

Featured Presentation1		Main Hall (1F)
10:00 - 11:00		
Chair(s)	Koichi Node, <i>Japan</i>	

- FP-1** **Robotics and Health: Avatar technology for supporting our future society**
 10:00-11:00 Hiroshi Ishiguro, *Japan*

WHO-ISH Joint Session		Room A (2F)
10:00 - 11:30		
Chair(s)	Maciej Tomaszewski, <i>UK</i> ; Taskeen Khan, <i>Switzerland</i>	

- JS-WHO-1** **WELCOME AND INTRODUCTION**
 10:00-10:05 Maciej Tomaszewski, *UK*
- JS-WHO-2** **WHO HYPERTENSION UPDATES**
 10:05-10:20 Taskeen Khan, *Switzerland*
- 10:20-11:10 **PANEL DISCUSSION**
EXPERIENCES ON IMPLEMENTATION AND SCALE UP
 Prabhdeep Kaur, *India*
- MEDICINE AND TECHNOLOGY ACCESS**
 Okeoma Erojikwe, *Nigeria*
- MONITORING**
 Duc Truong Lai, *Vietnam*
- QUALITY OF CARE**
 Xin-Hua Zhang, *China*

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11:10-11:30 **DISCUSSION**

Session4	Annex Hall 1 (1F)
10:00 - 11:30 Chair(s)	AOBP and Conventional Office BP Measurement George S. Stergiou, <i>Greece</i> ; Takayoshi Ohkubo, <i>Japan</i>
S-4-1 10:00-10:20	Current evidence and issues on AOBP from Japan Kei Asayama, <i>Japan</i>
S-4-2 10:20-10:40	Automated Office Blood Pressure in Research Versus Clinical Practice Martin G. Myers, <i>Canada</i>
S-4-3 10:40-10:50	Validation of blood pressure devices as per 2020 WHO technical specifications: a scoping review of global literature Shruti Murthy, Eti Rajwar, Rosemol Johnson, Krati Shrivastava, Prashanthi Kamath, Rinsy Rahman, Abhinav Devaria, Vijay Anand Ismavel, Beatrice Vetter, <u>Oommen John</u> <i>India, Switzerland</i>
S-4-4 10:50-11:00	Inconsistent guidelines-based control status of office, home, and ambulatory blood pressure measured by an all-in-one BP monitoring device <u>Kazuomi Kario</u> , Satoshi Hoshide, Naoko Tomitani, Masafumi Nishizawa, Tetsuro Yoshida, Tomoyuki Kabutoya, Takeshi Fujiwara, Hiroyuki Mizuno, Keisuke Narita, Takahiro Komori, Daisuke Suzuki, Jun Nakazato, Naoki Nakagawa, Tomohiro Katsuya, Noriko Harada <i>Japan</i>

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S-4-5 **Automated detection of atrial fibrillation during routine oscillometric measurement of blood pressure: Systematic review and meta-analysis**

11:00-11:10

Konstantinos G Kyriakoulis, Anastasios Kollias, Panagiotis Chardouvelis, Vasileios Ntousopoulos, Ariadni Menti, Antonios Destounis, George S Stergiou
Greece

S-4-6 **Cardiovascular End Points and Mortality Are Not Closer Associated With Central Than Peripheral Pulsatile Blood Pressure Components**

11:10-11:30

Qi-Fang Huang, *China*

ISH Austin Doyle Award Session	Annex Hall 2 (1F)
10:00 - 11:30	

AW-AD-1 **Seasonal Variation in Day-by-day Blood Pressure Variability and Its Effect on Cardiovascular Outcomes**

Keisuke Narita, Satoshi Hoshide, Kazuomi Kario
Japan

AW-AD-2 **Association between ambulatory blood pressure and risk of home hypertension in a normotensive population**

Shingo Nakayama, Michihiro Satoh, Hirohito Metoki, Takahisa Murakami, Yukako Tatsumi, Kei Asayama, Azusa Hara, Takuo Hirose, Megumi Tsubota Utsugi, Masahiro Kikuya, Takefumi Mori, Atsushi Hozawa, Yutaka Imai, Takayoshi Ohkubo
Japan

AW-AD-3 **Atrial Fibrillation as Predictor of Mortality in Hemodialysis Patients with Cardiovascular Disease**

Mega Febrianora, Mohammad Rizki Akbar, Mohammad Iqbal
Indonesia

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- AW-AD-4** **Renoprotective effects of canagliflozin via lessening hyperinsulinemia in diabetic patients with heart failure: a post-hoc analysis of the CANDLE trial**
Satoshi Yamaguchi, Michio Shimabukuro, Atsushi Tanaka, Koichi Node
Japan
- AW-AD-5** **Heavy metal exposures, brain gray matter thickness, and white matter hyperintensities**
Shinyoung Woo, Munjoo Bae, Eun Sun Gwak, Sung Hee Yang, Da Hui Jeong, Bo Ram Kim, Jaelim Cho, Changsoo Kim
South Korea
- AW-AD-6** **Prevalence of validated blood pressure measuring devices being sold by Amazon: 12-month prospective analysis across 10 countries**
Dean S Picone, Tan Bui, Niamh Chapman, Martin G Schultz, Christian Delles, Michael Hecht Olsen, Aletta E Schutte, George Stergiou, Raj Padwal, Paul K Whelton, James E Sharman
Australia, UK, Denmark, South Africa, Greece, Canada, USA

Session5	Room B-1 (2F)
10:00 - 11:20 Chair(s)	Disaster and Environmental Hazards in Hypertension-2 Masanori Munakata, <i>Japan</i> ; Richard Wainford, <i>USA</i>
S-5-1 10:00-10:20	Onset of lifestyle-related diseases after the Great East Japan Earthquake among residents in Fukushima Tetsuya Ohira, <i>Japan</i>
S-5-2 10:20-10:40	Disaster hypertensin and cardiovascular disease Satoshi Hoshide, <i>Japan</i>
S-5-3 10:40-11:00	Influence of the ambient temperature on blood pressure in Asia Sungha Park, <i>South Korea</i>
S-5-4 11:00-11:20	Environmental pollutants and blood pressure Neil Reginald Poulter, <i>UK</i>

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Session6		Room B-2 (2F)
10:00 - 11:30	Cerebrovascular Diseases	
Chair(s)	Paul K. Whelton, <i>USA</i> ; Masaki Mogi, <i>Japan</i>	
S-6-1	Hypertension and Stroke in Asia	
10:00-10:18	Yuda Turana, <i>Indonesia</i>	
S-6-2	Hypertension and Dementia ~learning a lesson from the SPRINT~	
10:18-10:36	Masaki Mogi, <i>Japan</i>	
S-6-3	Emergent blood pressure lowering with intravenous nicardipine for Japanese patients with acute intracerebral hemorrhage: an individual participant data analysis	
10:36-10:45	<u>Kazunori Toyoda</u> , Sohei Yoshimura, Mayumi Fukuda Doi, Adnan I Qureshi, Masatoshi Koga <i>Japan, USA</i>	
S-6-4	Impact of anti-hypertensive therapy on cerebral functional networks and connectivity	
10:45-10:54	<u>Lorenzo Carnevale</u> , Angelo Maffei, Alessandro Landolfi, Giovanni Grillea, Valeria Berardi, Daniela Carnevale, Giuseppe Lembo <i>Italy</i>	
S-6-5	Hypertension management in patients with cardiovascular disease	
10:54-11:12	Paul K. Whelton, <i>USA</i>	
S-6-6	Hypertension Management In Atrial Fibrillation Patients In Middle East	
11:12-11:30	Ghazi Haji, <i>Iraq</i>	

Session7		Room C-1 (1F)
10:00 - 11:30	Cellular Senescence and Senolysis	
Chair(s)	Theodore Kurtz, <i>USA</i> ; Jitsuo Higaki, <i>Japan</i>	
S-7-1	Targeting senescent cells as a novel therapeutic strategy for age-associated disease	
10:00-10:20	Tohru Minamino, <i>Japan</i>	

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- S-7-2** **Discovery of neuroendothelial cells and their role in hypertension and aging**
10:20-10:30 **and aging**
Urvi Nikhil Shroff, Audrey Izuhara, Sachin Deepak, Yibu Chen, Janos Peti Peterdi, Georgina Gyarmati
USA
- S-7-3** **The testosterone-androgen receptor pathway is associated with carotid atherosclerotic plaque instability in men with severe carotid atherosclerosis**
10:30-10:40 **carotid atherosclerosis**
Diana Di Iorio, Karina Gasbarrino, Huaïen Zheng, Styliani Stella Daskalopoulou
Canada
- S-7-4** **Vascular smooth muscle cell proteome and phenotypic switching in human hypertension are Nox5-dependent**
10:40-10:50 **human hypertension are Nox5-dependent**
Livia L Camargo, Sheon Mary, Sergio Lilla, Sara Zanivan, Richard C Hartley, Christian Delles, William Fuller, Francisco J Rios, Augusto C Montezano, Rhian M Touyz
Canada, UK
- S-7-5** **Asprosin induces vascular endothelial-to-mesenchymal transition in diabetic lower extremity peripheral artery disease**
10:50-11:00 **in diabetic lower extremity peripheral artery disease**
Mei You, Yushuang Liu, Bowen Wang, Zhencheng Yan
China
- S-7-6** **Neutrophil extracellular traps as mediators of endothelial damage in hypertension and diabetes**
11:00-11:10 **in hypertension and diabetes**
Chloe Landry, Fengxia Xiao, Jean Francois Thibodeau, Chet E Holterman, Lihua Xhu, Alex Gutsol, Christopher RJ Kennedy, Dylan Burger
Canada
- S-7-7** **Angiotensin, vascular aging and hypertension**
11:10-11:30 **Angiotensin, vascular aging and hypertension**
Rhian M. Touyz, *Canada*

Thursday, October 13

Session8	Room C-2 (1F)
10:00 - 11:30	Inter-Organ Communication
Chair(s)	Ulrike Muscha Steckelings, <i>Denmark</i> ; Shinichiro Miura, <i>Japan</i>
S-8-1	Multi-organ regulation of body fluid and blood pressure homeostasis
10:00-10:20	Jens Titze, <i>Singapore</i>
S-8-2	Restoration of SIRT3 expression in liver alleviates high-salt-induced hypertension
10:20-10:30	<u>Peng Gao</u> , Mei You, Li Li, Zhiming Zhu <i>China</i>
S-8-3	ROCK2 Specific Inhibition Decreases Th17/Treg Balance and Reduces Hypertension and Hypertension-Associated End-Organ Damage
10:30-10:40	<u>Daniel J Fehrenbach</u> , Charles Duncan Smart, Jean W Wassenaar, Meena S Madhur <i>USA</i>
S-8-4	Selenium levels and functional state of liver in patients with hypertension and nonalcoholic fatty liver disease
10:40-10:50	<u>Iryna Tverezovska</u> , Natalia Zhelezniakova <i>Ukraine</i>
S-8-5	Nonalcoholic fatty liver disease and arterial stiffness in treatment-naïve hypertensive patients
10:50-11:00	Cristiana Catena, Gabriele Brosolo, Luca Bulfone, Andrea Da Porto, Debora Donnini, Antonio Vacca, Laura Scandolin, Cinzia Vivarelli, Nicole Bertin, Alessandro Cavarape, Giorgio Soardo, <u>Leonardo A Sechi</u> <i>Italy</i>

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S-8-6 **Intrarenal renal resistance index and nonalcoholic fatty liver disease in untreated hypertensive patients**

11:00-11:10

Cristiana Catena, Gabriele Brosolo, Andrea Da Porto, Luca Bulfone, Debora Donnini, Laura Scandolin, Antonio Vacca, Nicole Bertin, Cinzia Vivarelli, Alessandro Cavarape, Giorgio Soardo,
Leonardo A Sechi
Italy

S-8-7 **Immunometabolism as a novel therapeutic target of cardiovascular diseases**

11:10-11:30

Yumiko Oishi, *Japan*

ISH2022 Kyoto Chairperson's Lecture

Main Hall (1F)

11:00 - 11:30

Chair(s) Maciej Tomaszewski, *UK*

CL-1 **Wisdom for conquering hypertension---FOOD, MOVE, AI: towards sustainable well-being**

11:00-11:30

Hiroshi Itoh, *Japan*

Luncheon Seminar1

Main Hall (1F)

11:50 - 12:50

Time to re-focus on hypertension management after the COVID-19 pandemic!

Chair(s) Claudio Borghi, *Italy*; Abdul Rashid, *Malaysia*

Sponsor: SERVIER

LS1-1 **Hypertension management: current recommendations and gaps in evidence (remaining questions)**

Otavio Berwanger, *Brazil*

LS1-2 **Holistic approach in the management of hypertension**

Abdul Rashid, *Malaysia*

LS1-3 **With the recent blood pressure targets, what is the new frontier for triple SPC?**

Hemant P. Thacker, *India*

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Luncheon Seminar2		Room A (2F)
11:50 - 12:50	Kidney protection: Control of blood pressure and beyond	
Chair(s)	Hiroshi Itoh, <i>Japan</i>	
	Sponsor: ONO PHARMACEUTICAL CO., LTD. /AstraZeneca K.K.	
LS2	Kidney protection: Control of blood pressure and beyond Masaomi Nangaku, <i>Japan</i>	
Luncheon Seminar3		Annex Hall 1 (1F)
11:50 - 12:50		
Chair(s)	Toshio Ogihara, <i>Japan</i>	
	Sponsor: Astellas Pharma Inc. / Kotobuki pharmaceutical Co., Ltd.	
LS3	Considerations in the management of frail older patients with type 2 diabetes - Focusing on better selection of antidiabetic agents - Ken Sugimoto, <i>Japan</i>	
Luncheon Seminar4		Annex Hall 2 (1F)
11:50 - 12:50	SGLT2 inhibitor and Heart Failure	
Chair(s)	Kouichi Tamura, <i>Japan</i>	
	Sponsor: Nippon Boehringer Ingelheim Co., Ltd.	
LS4	Use of SGLT2i in the Treatment of Heart Failure Gerasimos Filippatos, <i>Greece</i>	
Luncheon Seminar5		Room B-1 (2F)
11:50 - 12:50	Sleep apnea	
Chair(s)	Satoshi Hoshida, <i>Japan</i>	
	Sponsor: Teijin Healthcare Limited	
LS5	Diagnosis, treatment and clinical implications of sleep apnea in patients with hypertension Takatoshi Kasai, <i>Japan</i>	

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Luncheon Seminar6		Room B-2 (2F)
11:50 - 12:50	Possibility of Mineralocorticoid Receptor Antagonist for Chronic Kidney Disease with Type 2 Diabetes	
Chair(s)	Masashi Mukoyama, <i>Japan</i>	

Sponsor: Bayer Yakuhin, Ltd.

LS6-1 **Possible role of mineralocorticoid receptor (MR) in renal injury**
Akira Nishiyama, *Japan*

LS6-2 **Clinical evidence of mineralocorticoid receptor antagonists in chronic kidney diseases**
Shigeru Shibata, *Japan*

Luncheon Seminar7		Room C-1 (1F)
11:50 - 12:50	Evidence to Consensus: Renal Denervation as a Treatment for Hypertension	
Chair(s)	Michael Boehm, <i>Germany</i>	

Sponsor: Medtronic, Inc.

LS7-1 **The Evidence: Update on Spyril HTN Clinical Program**
Felix Mahfoud, *Germany*

LS7-2 **The Patient: Selection and Preferences**
Atul Pathak, *Monaco*

LS7-3 **The Practice: Update on Consensus Statements**
Yook-Chin Chia, *Malaysia*

Luncheon Seminar8		Room C-2 (1F)
11:50 - 12:50	Hypertension Diagnosis and Measurement	
Chair(s)	Daryl Hee, <i>Singapore</i>	

Sponsor: Shimadzu (Asia Pacific) Pte Ltd

LS8 **Advances in Primary Aldosteronism: A Growing Concern in the 21st Century**
Troy Puar, *Singapore*

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ISH-ESH Joint Session		Main Hall (1F)
13:40 - 15:10	Underestimated Mechanisms in Onset and Maintenance of Hypertension	
Chair(s)	Reinhold Kreutz, <i>Germany</i> ; Maciej Tomaszewski, <i>UK</i>	
JS-ISH-ESH-1	Drugs and substances that increase blood pressure	
13:40-14:02	Nadia A Khan, <i>Canada</i>	
JS-ISH-ESH-2	Noise Pollution and Arterial Hypertension	
14:02-14:24	Wiktoria Wojciechowska, <i>Poland</i>	
JS-ISH-ESH-3	Post-traumatic stress disorder and Hypertension	
14:24-14:46	Alexandre Persu, <i>Belgium</i>	
JS-ISH-ESH-4	Seasonal variation in blood pressure and the risk of cardiovascular diseases	
14:46-15:08	Takayoshi Ohkubo, <i>Japan</i>	

Session9	Room A (2F)	
13:40 - 15:10	Advancing the Drug Therapy for Hypertension	
Chair(s)	Koichi Yamamoto, <i>Japan</i> ; Wanpen Vongpatanasin, <i>USA</i>	
S-9-1	High blood pressure and Albuminuria, both therapeutic targets for cardiovascular disease protection?	
13:40-13:55	Dick de Zeeuw, <i>The Netherlands</i>	
S-9-2	Polypills for Hypertension Control in Asians	
13:55-14:10	Apichard Sukonthasarn, <i>Thailand</i>	
S-9-3	ROLE OF SACUBITRIL/VALSARTAN IN THE CONTROL OF BLOOD PRESSURE	
14:10-14:25	Luis Miguel Ruilope, <i>Spain</i>	
S-9-4	Differential effects of MR antagonists and calcium channel blockers	
14:25-14:40	Wanpen Vongpatanasin, <i>USA</i>	

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S-9-5 **Homoarginine and cardiovascular protection: potential therapeutic target?**
14:40-14:55

Catharina MC Mels, Maserame Cleopatra Mokhaneli, Rainer Böger, Edzard Schwedhelm, Shani Botha Le Roux
South Africa, Germany

S-9-6 **Epidemiology and Cardiometabolic Disorders - update of SGKT2-Is RCT meta-analysis**
14:55-15:10

Xuanyi Yang, Yu Cao, Cen Yan, Yuejie Zhang, Yuan Dong, Yingmei Feng
China

Session10	Annex Hall 1 (1F)
13:40 - 15:10	Target Blood Pressure Values
Chair(s)	Toshio Ogihara, <i>Japan</i> ; Daniel T. Lackland, <i>USA</i>

S-10-1 **What level of blood pressure is concerning in childhood?**

13:40-14:00 Joseph T. Flynn, *USA*

S-10-2 **Optimal blood pressure target to prevent severe hypertension in pregnancy: A systematic review and meta-analysis**

14:00-14:10

Makiko Abe, Hisatomi Arima, Yuichi Yoshida, Ako Fukami, Atsushi Sakima, Hirohito Metoki, Kazuhiro Tada, Asako Mito, Satoshi Morimoto, Hirotaka Shibata, Masashi Mukoyama
Japan

S-10-3 **Can Achieved Average Systolic Blood Pressure Below 130 mmHg Cause Harm in Elderly Hypertensive Patients with Left Ventricular Hypertrophy?**

14:10-14:20

Sondre Heimark, Stevo Julius, Giuseppe Mancina, Camilla Soraas, Maria Mehlum, Kristian Wachtell, Knut Liestol, Sverre Erik Kjeldsen, Michael Weber
Norway, USA, Italy

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- S-10-4** **The association between blood pressure per the 2019 JSH and 2017 ACC/AHA guidelines and heart failure risk: the Suita Study**
 14:20-14:30 Ahmed Arafa, Yoshihiro Kokubo, Masayuki Teramoto, Rena Kashima, Keiko Shimamoto, Yoko Nakao, Miki Matsuo, Fumiki Yoshihara, Chisato Izumi
Japan
- S-10-5** **Optimal Blood Pressure and Cardiovascular Risk Management in Patients with Atrial Fibrillation**
 14:30-14:50 Gregory Lip, *UK*
- S-10-6** **Blood Pressure Targets for Secondary Prevention of Stroke**
 14:50-15:10 Kazunori Toyoda, *Japan*

Session11		Annex Hall 2 (1F)
13:40 - 15:10	Examination of Vascular Function	
Chair(s)	Hirofumi Tomiyama, <i>Japan</i> ; Godwin Roger Constantine, <i>Sri Lanka</i>	
S-11-1	Arterial Stiffness and Hemodynamic Parameters for the Early Prediction of Preeclampsia: a Prospective Cohort Study	
13:40-13:50	<u>Stella S Daskalopoulou</u> , Kim Phan, Ian Schiller, Nandini Dendukuri, Yessica Haydee Gomez, Jessica Gorgui, Amira El Messidi, Haim Abenhaim, Elham Rahme, Robert Gagnon <i>Canada</i>	
S-11-2	Aortic pulse wave velocity and cardiovascular risk	
13:50-14:10	Thomas Weber, <i>Austria</i>	
S-11-3	Clinical implication of aortic stiffness	
14:10-14:30	Hao-Min Cheng, <i>Taiwan</i>	
S-11-4	Lipids and oxidative stress markers in cardiovascular diseases	
14:30-14:50	Jacek Jozwiak, <i>Poland</i>	
S-11-5	Clinical implication of FMD	
14:50-15:10	Yukihito Higashi, <i>Japan</i>	

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ISH-JSH Team-Based Medicine / CME Committee Joint Session Room B-1 (2F)

13:40 - 15:10 Exercise Guidance for Elderly Hypertensives : New Perspective for Disability Prevention

Chair(s) Sungha Park, *South Korea*; Shinichiro Miura, *Japan*

JS-CME-1 The hypertension team: The role of the pharmacist, nurse, and teamwork in hypertension therapy.

13:40-14:05

Hayden Barry Bosworth, *USA*

JS-CME-2 Reduction in cardiovascular morbidity and mortality by cardiac rehabilitation: what's the evidence?

14:05-14:30

Shigeru Makita, *Japan*

JS-CME-3 Exercise in the prevention and treatment of hypertension and associated cardiovascular risk

14:30-14:55

Henner Hanssen, *Switzerland*

WiHR Session1

Room B-2 (2F)

13:40 - 15:10 Career Development in Hypertension Research

Chair(s) Ulrike Muscha Steckelings, *Denmark*; Niamh Chapman, *Australia*

WiHR-1-1 The work of the Women in Hypertension Research Committee of the International Society of Hypertension

13:40-13:55

Ulrike Muscha Steckelings, *Denmark*

WiHR-1-2 How I got to where I am today - Opportunities and Challenges

13:55-14:15

Tazeen Jafar, *Singapore*

WiHR-1-3 How I got to where I am today - A Japanese Perspective

14:15-14:35

Midori Yatabe, *Japan*

WiHR-1-4 Panel Discussion: Challenges of a female's career

14:35-15:10

Tazeen Jafar, *Singapore*

Hamdi Jama, *Australia*

Ching Siew Mooi, *Malaysia*

Ulrike Muscha Steckelings, *Denmark*

Midori Yatabe, *Japan*

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Session12	Room C-1 (1F)
13:40 - 15:10	Bridging the Gap between Basic Science and Clinical Practice in Hypertension Chair(s) Teo Boon Wee, <i>Singapore</i> ; Tatsuhiko Mori, <i>Japan</i>
S-12-1 13:40-14:00	Past and future of hypertension research Giuseppe Mancia, <i>Italy</i>
S-12-2 14:00-14:10	ENHANCING MAS1:ETBR INTERACTION AS A POTENTIAL VASOPROTECTIVE STRATEGY IN STROKE-PRONE SHR <u>Jithin Kuriakose</u> , Augusto Montezano, Rheure Alves Lopes, Yuan Yan Sin, John McAbney, Kayley Scott, Wendy Beattie, Delyth Graham, George Scott Baillie, Rhian Touyz <i>UK, Canada</i>
S-12-3 14:10-14:20	Beneficial effects of empagliflozin on metabolic parameters and diastolic function in spontaneously hypertensive rats fed a high-fat diet <u>Ivana Vaněčková</u> , Silvie Hojna, Josef Zicha, Hana Malinska, Martina Huttli, Frantisek Papousek <i>Czech Republic</i>
S-12-4 14:20-14:30	CITE-seq identifies Trem2-dependent gene program driving cardiac remodeling in a hypertensive model of heart failure with preserved ejection fraction <u>Charles Duncan Smart</u> , Daniel Fehrenbach, Jean Wassenaar, Vineet Agarwal, Debra Dixon, Anna R Hemnes, Amanda C Doran, Deepak Gupta, Meena S Madhur <i>USA</i>
S-12-5 14:30-14:40	Impairment of renal blood flow autoregulation and pressure-natriuresis: role in the development of heart failure in Ren-2 transgenic hypertensive rats <u>Zuzana Honetschlagerova</u> , Janusz Sadowski, Elzbieta Kompanowska Jezierska, Ludek Cervenka <i>Czech Republic, Poland</i>

Oral Sessions

- S-12-6** **Cardioprotective effects of finerenone associated with the suppression of myocardial sodium accumulation in aldosterone-induced rats**
 14:40-14:50 Asadur MD Rahman, Tatsuya Sawano, Kento Kitada, Daisuke Nakano, Takashi Morikawa, Takeshi Imamura, Hiroyuki Ohsaki, Yoshio Konishi, Akira Nishiyama
Japan
- S-12-7** **The Renin Angiotensin System in Basic and Clinical Research**
 14:50-15:10 Thomas Unger, *The Netherlands*

Session13	Room C-2 (1F)
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13:40 - 15:10	Adrenal Pathology and Hypertension
Chair(s)	Satoshi Morimoto, <i>Japan</i> ; Yuda Turana, <i>Indonesia</i>

- S-13-1** **Management of adrenal incidentalomas**
 13:40-13:58 Alessandro Prete, *UK*
- S-13-2** **Pathology update of Cushing's syndrome and primary aldosteronism according to WHO 2022**
 13:58-14:16 Hironobu Sasano, Yuto Yamazaki, Fumitoshi Satoh
Japan
- S-13-3** **An approach to identify the undetermined adipocyte-derived factor(s) that stimulate aldosterone synthase gene (CYP11B2) expression**
 14:16-14:25 Hiroki Shimada, Ikuko Sato, Atsushi Yokoyama, Yasuhiro Nakamura, Akira Sugawara
Japan
- S-13-4** **Inhibitory Impacts of Chlorogenic Acid on Adrenal Catecholamine Secretion**
 14:25-14:34 Dong Yoon Lim, Young Youp Koh
South Korea
- S-13-5** **Updates on familial hyperaldosteronism**
 14:34-14:52 Michael Stowasser, *Australia*

Thursday, October 13

- S-13-6** **Recent advances in the management of pheochromocytoma and paraganglioma**
 14:52-15:10 Akiyo Tanabe, Mitsuhide Naruse
Japan

Session14		Main Hall (1F)
15:30 - 17:00	Guidelines for the Management of Hypertension	
Chair(s)	Toshihiko Ishimitsu, <i>Japan</i> ; Bryan Williams, <i>UK</i>	
S-14-1	Similarities and differences between international and Asian guidelines for the management of high blood pressure	
15:30-15:48	Yook-Chin Chia, <i>Malaysia</i>	
S-14-2	Amelioration of discrepancy between physicians and patients in hypertension management (tentative)	
15:48-16:06	Naoyuki Hasebe, <i>Japan</i>	
S-14-3	Which is the optimal BP target to achieve? Should Guidelines be updated?	
16:06-16:24	<u>Paolo Verdecchia</u> , Fabio Angeli, Giampaolo Reboldi <i>Italy</i>	
S-14-4	Viewpoint on Guidelines for Management of Hypertension in Latin America	
16:24-16:42	Agustin J. Ramirez, <i>Argentina</i>	
S-14-5	JSH Guideline for the management of hypertension 2019 (JSH2019) ~ Concept and subsequent challenges ~	
16:42-17:00	Nobuhito Hirawa, <i>Japan</i>	

Session15		Room A (2F)
15:30 - 17:00	How to Achieve Hypertension Zero in Community?	
Chair(s)	Hiroaki Matsuoka, <i>Japan</i> ; Aletta E. Schutte, <i>Australia</i>	
S-15-1	Epidemiology and control of hypertension in Japan	
15:30-15:48	Katsuyuki Miura, <i>Japan</i>	

Oral Sessions

- S-15-2** **Community-Based Approaches to Prevention and Management of Hypertension**
 15:48-16:06
 Keith C Ferdinand, *USA*
- S-15-3** **Cost-effectiveness of a full scope of pharmacist care for hypertension in Australia**
 16:06-16:24
Aletta E. Schutte, Markus P Schlaich, Karissa Johnston, Carlo A Marra, Ross T Tsuyuki
Australia, Canada, New Zealand
- S-15-4** **Efforts aimed to achieve hypertension zero in community; experience in Makurazaki city**
 16:24-16:42
 Mitsuru Ohishi, *Japan*
- S-15-5** **Gaps and advances for the prevention of hypertension in Africa: Insights from the ExAMIN Youth SA study**
 16:42-17:00
 Ruan Kruger, *South Africa*

Session16	Annex Hall 1 (1F)
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15:30 - 17:00 Chair(s)	Resistant Hypertension Andrzej Januszewicz, <i>Poland</i> ; Kazunori Toyoda, <i>Japan</i>
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- S-16-1** **Resistant hypertension: clinical characteristics and blood pressure control**
 15:30-15:48
Cheryl Carcel, Bruce Neal, Kris Rogers, Suzanne Oparil, Krzysztof Narkiewicz, Jiguang Wang, Ernesto L. Schiffrin, Michel Azizi, Neil Poulter, John Chalmers
Australia, USA, Czech Republic, China, Canada, France, UK
- S-16-2** **Clinical management of mineralocorticoid receptor-associated hypertension**
 15:48-16:06
 Atsuhiko Ichihara, *Japan*
- S-16-3** **Antihypertensive treatment prescribing behaviours in French general practice in 2021**
 16:06-16:15
 Jean-Jacques Mourad, *France*

Thursday, October 13

- S-16-4** **Pharmacokinetics, pharmacodynamics, and safety results from a phase 1 multiple ascending dose study of the selective aldosterone synthase inhibitor CIN-107**
 16:15-16:24 Mason W Freeman, Mary Bond, Brian Murphy, James Hui, Jonathan Isaacson
USA
- S-16-5** **Causes and management of renovascular hypertension**
 16:24-16:42 Andrzej Januszewicz, *Poland*
- S-16-6** **Natriuretic peptides and humoral factors in cardiorenal syndrome and resistant hypertension**
 16:42-17:00 Masashi Mukoyama, *Japan*

Session17		Annex Hall 2 (1F)
15:30 - 17:00	DM and Metabolic Syndrome	
Chair(s)	Koichi Node, <i>Japan</i> ; S. N. Narasingan, <i>India</i>	

- S-17-1** **Uric Acid and cardiovascular diseases**
 15:30-15:50 Claudio Borghi, *Italy*
- S-17-2** **Cluster analysis of diabetes and hypertension**
 15:50-16:10 Michio Shimabukuro, *Japan*
- S-17-3** **Antidiabetic drug therapy and survival in elderly frail patients. Real-life evidence from Italy**
 16:10-16:20 Laura Savare, Federico Rea, Valeria Valsassina, Giovanni Corrao, Giuseppe Mancia
Italy
- S-17-4** **Effectiveness of statin intensive therapy in type 2 diabetes with high visit-to-visit blood pressure variability**
 16:20-16:30 Shota Ikeda, Keisuke Shinohara, Nobuyuki Enzan, Shouji Matsushima, Takeshi Tohyama, Kouta Funakoshi, Junji Kishimoto, Hiroshi Itoh, Issei Komuro, Hiroyuki Tsutsui
Japan

Oral Sessions

S-17-5 **Effect of mineralocorticoid receptor blocker, esaxerenone, on home blood pressure and albuminuria in Japanese hypertensive patients with DKD (EX-DKD Study)**

16:30-16:40

Haruhito A. Uchida, Hirofumi Nakajima, Masami Hashimoto, Akihiko Nakamura, Tomokazu Nunoue, Kazuharu Murakami, Takeshi Hosoya, Kiichi Komoto, Takashi Taguchi, Takaaki Akasaka, Kuzuhito Shiosakai, Kotaro Sugimoto, Jun Wada
Japan

S-17-6 **SGLT2 Inhibition on Vascular Function and Atherosclerosis: Cleared or Yet?**

16:40-17:00

Atsushi Tanaka, Koichi Noda
Japan

ISH-JSH Next Generation Committee Joint Session

Room B-1 (2F)

15:30 - 17:00 Case with Hypertension World Grand Prix 2022
Chair(s) Takuya Kishi, *Japan*

JS-NG-1 **Non-Communicable Diseases (NCDs) Prevention and Control: Policies and Progress in Nepal**

Sagun Paudel, *Nepal*

JS-NG-2 **Long-term efficacy and safety of aliskiren in four cases with malignant hypertension**

Wataru Fujii, Minoru Yasukawa, Fumika Ochiai Homma, Chikayuki Morimoto, Shinichiro Asakawa, Michito Nagura, Shigeyuki Arai, Osamu Yamazaki, Yoshifuru Tamura, Yoshihide Fujigaki, Shigeru Shibata
Japan

JS-NG-3 **Unique imaging findings in renal artery fibromuscular dysplasia**

Yuanyuan Kang, Jianzhong Xu, Jiguang Wang
China

Thursday, October 13

- JS-NG-4** **PREVALENCE OF ARTERIAL HYPERTENSION IN THE POPULATION LIVING IN THE RADIOACTIVE CONTAMINATED TERRITORY (CROSS-SECTIONAL STUDY)**
Andrei Ivanovich Schastlivenko, Belarus
- JS-NG-5** **Thrombotic microangiopathy or malignant hypertension: which comes first? A case report from a tertiary care hospital**
Monika Vitkauskaitė, Ernesta Macioniene, Marta Monika Janusaite, Agne Cerkauskaitė, Egle Asakiene, Rasa Dobrovolskiene, Mindaugas Serpytis, Sarunas Judickas, Marius Miglinas
Lithuania
- JS-NG-6** **FRESH START: A LIFESTYLE INTERVENTION APPROACH IN REVERSING HYPERTENSION**
Mary Jane Bercasio Botabara, Byshe Mallorca Fernan, Abraham Peralta Racca
Philippines
- JS-NG-7** **Association between plasma aldosterone concentration and ambulatory blood pressure profile in patients with primary aldosteronism**
Ryutaro Morita, Kengo Azushima, Sumire Sunohara, Tomohiko Kanaoka, Hiromichi Wakui, Yoshiyuki Toya, Kouichi Tamura
Japan
- JS-NG-8** **Case Report: Possible New Channelopathy Associated with Elevated Aldosterone Levels**
Lulia Iatan, Kaitlyn Mellor, Nadia Khan
Canada
- JS-NG-9** **Primary Hyperaldosteronism in a Triplet Pregnancy: Considerations for intra-partum diagnosis and management**
Birinder Kaur Mangat, Kirsten Grabowska, Jagoda Kissock
Canada

Oral Sessions

JS-NG-10 A RARE CAUSE OF TREATMENT-RESISTANT HYPERTENSION

Martin Hausberg, Karl Heinz Seitz, Dogu Teber, Peter Reimer,
Thomas Rueciger
Germany

Sponsored Symposium1

Room B-2 (2F)

15:30 - 17:00

Chair(s) Kei Asayama, *Japan*; Masaki Mogi, *Japan*

Sponsor: Takeda Pharmaceutical Company Limited

SS1-1 Blood pressure management in an ecosystem context

Yuichiro Yano, *Japan*

SS1-2 Possible role of the skin in blood pressure regulation

Akira Nishiyama, *Japan*

Session18

Room C-1 (1F)

15:30 - 17:00 Vascular Biology and Hypertension

Chair(s) Yukihiro Higashi, *Japan*; Adam Greenstein, *UK*

S-18-1 The Usual Hemodynamic Mechanism Causing Salt-Induced

15:30-15:50 **Hypertension: Abnormally Increased Cardiac Output or Vascular Resistance?**

Theodore Kurtz, *USA*

S-18-2 Hypertension as the driver of cerebral small vessel disease and dementia

15:50-16:10 Harry Anthony Pritchard, Jade Taylor, Lowri Evans, Adam Greenstein
UK

S-18-3 SGLT2 inhibitor canagliflozin antagonizes salt-sensitive hypertension through modifying TRPC3 mediated vascular calcium handling

16:10-16:20 Yu Zhao, Li Li, Zongshi Lu, Yingru Hu, Hexuan Zhang, Fang Sun, Qiang Li, Chengkang He, Wentao Shu, Lijuan Wang, Tingbing Cao, Zhencheng Yan, Daoyan Liu, Peng Gao, Zhiming Zhu
China

Thursday, October 13

- S-18-4** **ACE2 is involved in SARS-CoV-2 induced endothelial cell inflammation independent of viral replication**
 16:20-16:30 Augusto Montezano, Livia L Camargo, Sheon Mary, Karla B Neves, Francisco J Rios, Rheure A Lopes, Wendy Beattie, Imogen Herbert, Vanessa Herder, Agnieszka M Szemiel, Steven McFarlane, Massimo Palmarini, David Bhella, Rhian M Touyz
Canada, UK
- S-18-5** **Endothelial GATA5 positively regulates angiogenesis via cathepsin S-mediated Angpt2/Fik1 and MMP2/9 signaling pathways**
 16:30-16:40 Anmin Ren, Qian Gan, Xinkai Qu
China
- S-18-6** **Salt and age-related hypertension**
 16:40-17:00 Wakako Kawarazaki, Takeshi Marumo, Toshiro Fujita
Japan

Session19	Room C-2 (1F)
15:30 - 17:00 Chair(s)	New Devices, Vaccines, and Cell Therapy for Hypertension <u>Hirofumi Hitomi</u> , <i>Japan</i> ; <u>Brandi Wynne</u> , <i>USA</i>
S-19-1 15:30-15:50	Therapeutic Vaccine for chronic diseases Hironori Nakagami, <i>Japan</i>
S-19-2 15:50-16:10	Extracellular Vesicles: Biomarkers and Beyond Dylan Burger, <i>Canada</i>
S-19-3 16:10-16:20	Angiotensin II reduces the expression of Cx43 and inhibits the c-SRC /MAPK/ERK pathway via Cx43 in cardiomyocytes <u>Xin Fan</u> , Xinrong Chen, Runmin Sun, Chengkun Kou, Wenting Wang, Qiongying Wang, Jing Yu <i>China</i>
S-19-4 16:20-16:40	Angiotensinogen siRNA for hypertensive patients A.H. Jan Danser, <i>The Netherlands</i>
S-19-5 16:40-17:00	Refurbishing Old Targets for New Hypertension Treatments Brandi Wynne, <i>USA</i>

Oral Sessions

Morning Seminar2		Annex Hall 1 (1F)
7:40 - 8:40	The challenge of nocturnal blood pressure measurement	
Chair(s)	Gianfranco Parati, <i>Italy</i> ; Kazuomi Kario, <i>Japan</i>	
		Sponsor: SOMNOmedics GmbH
MS2-1	Seeing in the dark - why it is so important to measure nocturnal blood pressure	
	Gianfranco Parati, <i>Italy</i>	
MS2-2	Clinical evidence of nocturnal blood pressure in hypertension	
	Kazuomi Kario, <i>Japan</i>	
MS2-3	Accuracy of blood pressure determined by two cuffs simultaneously	
	Tomas Bothe, <i>Germany</i>	
MS2-4	Sleep disorder related nocturnal blood pressure fluctuations determined by PTT method	
	Gert K�uchler, <i>Germany</i>	
MS2-5	ABPMpro - the best of both methods	
	Tinta Visser, <i>Germany</i>	

Session20		Annex Hall 2 (1F)
7:40 - 8:40	Cardiovascular Disease, Heart Failure and Atrial Fibrillation-1	
Chair(s)	Paolo Verdecchia, <i>Italy</i> ; Sverre Erik Kjeldsen, <i>Norway</i>	
S-20-1	Atrial Fibrillation, Arterial Hypertension and Aldosterone: The Triple Trouble	
7:40-8:00	Gian Paolo Rossi, <i>Italy</i>	
S-20-2	Is hypertension a cause of atrial cardiomyopathy in patients with atrial fibrillation? -Evidence from atrial biopsy-	
8:00-8:10	Yuya Takahashi, Takanori Yamaguchi, Toyokazu Otsubo, Kana Nakashima, Kodai Shinzato, Ryosuke Osako, Shigeki Shichida, Koichi Node	
	<i>Japan</i>	

Friday, October 14

- S-20-3** **Plasma Atrial and Brain Natriuretic Peptides Levels and the Risk of Incident Atrial Fibrillation: The Suita Study**
 8:10-8:20 Yoshihiro Kokubo, Rena Kashima, Masayuki Teramoto, Ahmed Arafa, Keiko Shimamoto, Qi Gao, Aya Higashiyama, Kyoko Honda Kohmo, Makoto Watanabe, Tomoharu Dohi, Chisa Matsumoto, Kengo Kusano
Japan, Egypt
- S-20-4** **Hypertension and Cardiovascular Disease in Asia**
 8:20-8:40 Rafael Castillo, *Philippines*

Session21	Room B-2 (2F)
7:40 - 8:40 Chair(s)	Multidisciplinary Approach to Clinical Inertia <u>Yasuaki Dohi</u> , <i>Japan</i> ; <u>Aletta E. Schutte</u> , <i>Australia</i>
S-21-1 7:40-8:00	Implementing HEARTS hypertension control project in China <u>Xin-Hua Zhang</u> , Tingrui Guan, Hao Wang, Haiying Zhao, Hongxia Huang, Lisheng Liu, Tom Frieden <i>China, USA</i>
S-21-2 8:00-8:10	May Measurement Month in Nepal: Five-year comparison of blood pressure screening results in 2017 - 2021 <u>Yoko Inagaki</u> , Sweta Koilala, Harikrishna Bhattarai, Shiva Raj Mishra, Tara Ballav Adhikari, Pratik Khanal, Pawan Acharya, Craig Mclachlan, Neli R Poulter, Baghawan Koilala, Michael Hecht Oslon, Dinesh Neupane <i>USA, Nepal, Australia, UK, Denmark</i>
S-21-3 8:10-8:20	Effectiveness and acceptability of Mobile Phone Text Messaging Intervention to Improve Blood Pressure Control (TEXT4BP) among Hypertensive Patients in Nepal <u>Buna Bhandari Bhattarai</u> , Padmanesan Narasimhan, Rohan Jayasuriya, Abhinav Vaidya, Aletta E Schutte <i>Nepal, Australia</i>

Oral Sessions

- S-21-4** **Current Realities of Home Blood Pressure Monitoring from Physicians Perspectives: Results from Asia HBPM Survey 2020**
 8:20-8:30 Tzung-Dau Wang, *Taiwan*
- S-21-5** **Comparison of third-dose triple versus third-dose dual antihypertensive combination therapies in patients with essential hypertension during 8-week follow-up**
 8:30-8:40 Soon Jun Hong, Moo Yong Rhee, Myung Ho Jeong, Dae Hee Kim, Sang Wook Lim, Kyungil Park, Jin Bae Lee, Ki Chul Sung, Seok Yeon Kim
South Korea

Morning Seminar3		Room C-1 (1F)
7:40 - 8:40	Diabetes	
Chair(s)	Atsuhiko Ichihara, <i>Japan</i>	

Sponsor: MSD K.K.

- MS3** **The unique relationship between obesity and type 2 diabetes in Far East ~and the experience of GLP1 receptor agonist~**
 Shu Meguro, *Japan*

RAG Session: Americas		Room C-2 (1F)
7:40 - 8:40	Hypertension Research in the Americas	
Chair(s)	Cesar Romero, <i>USA</i> ; Dylan Burger, <i>Canada</i>	

- RAG-Americas-1** **Clinical research in Latin America: from sponsored to investigator initiated research**
 7:40-7:50 Daniel Piskorz, *Argentina*
- RAG-Americas-2** **Trends, opportunities and funds in Latin America**
 7:50-8:00 Débora Simões Almeida Colombari, *Brazil*
- RAG-Americas-3** **Trends, opportunities and funds in North America**
 8:00-8:10 Brandi Wynne, *USA*
- RAG-Americas-4** **The future of hypertension research: Precision Medicine**
 8:10-8:20 Dagnóvar Aristizábal, *Colombia*

Friday, October 14

RAG-Americas-5 Panel Discussion

8:20-8:40

Plenary Lecture2		Main Hall (1F)
9:00 - 9:40		
Chair(s)	Kazuwa Nakao, <i>Japan</i>	

PL-2	Toward precision medicine of metabolic diseases based on genetic ancestry	
9:00-9:40	Hiroo Imura, <i>Japan</i>	

ISH Position Paper Session		Main Hall (1F)
10:00 - 11:30		
Chair(s)	ISH Position Papers and Other Publications (2021-2022) Maciej Tomaszewski, <i>UK</i> ; Hiroshi Itoh, <i>Japan</i>	

ISH-PP-1	ISH Position Papers, publications and other initiatives of the Society	
10:00-10:05	Maciej Tomaszewski, <i>UK</i>	

ISH-PP-2	ISH Position Paper 1: Virtual Management of Hypertension	
10:05-10:15	Nadia A Khan, <i>Canada</i>	

ISH-PP-3	ISH Position Paper 2: Bedtime Dosing of Antihypertensive Medications: Systematic Review and Consensus Statement	
10:15-10:25	George S. Stergiou, <i>Greece</i>	

ISH-PP-4	ISH Position Paper 3: Lifestyle changes in hypertension	
10:25-10:35	Fadi J. Charchar, <i>Australia</i>	

ISH-PP-5	ISH Position Paper 4: Combination treatment in hypertension	
10:35-10:45	Bryan Williams, <i>UK</i>	

ISH-PP-6	Addressing global disparities in blood pressure control: Perspectives of the International Society of Hypertension	
10:45-10:55	Aletta E. Schutte, <i>Australia</i>	

Oral Sessions

ISH-PP-7 Scaling-up Hypertension Care in Resource-Challenged Settings
10:55-11:05 **Globally**
Tazeen Jafar, *Singapore*

ISH-PP-8 General Discussion

Session22	Room A (2F)
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10:00 - 11:30 Chair(s)	Genetic and Epigenetic Regulation of Blood Pressure Mari Ishida, <i>Japan</i> ; Stephen Harrap, <i>Australia</i>
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S-22-1 Genetic mechanisms of hypertension in different forms of primary aldosteronism
10:00-10:20
Maria-Christina Zennaro, Fabio L Fernandes-Rosa,
Sheerazed Boulkroun
France

S-22-2 Phenome-wide analysis of a blood pressure polygenic risk score
10:20-10:30
Felix Vaura, Teemu Niiranen
Finland

S-22-3 Uncovering new genes, tissues and therapeutic targets for blood pressure through large-scale transcriptome-wide association studies
10:30-10:40
Xiaoguang Xu, Chachrit Khunsriraksakul, James M Eales,
Havell Markus, Lida Wang, Sushant Saluja, Abigail Lay,
Tomasz J Guzik, Andrew P Morris, Dajiang J Liu, Fadi J Charchar,
Maciej Tomaszewski
UK, USA, Poland, Australia

Friday, October 14

- S-22-4** **Genome wide association study of fibromuscular dysplasia reveals mechanistic links with blood pressure regulation and other vascular diseases**
 10:40-10:50 Adrien Georges, Min Lee Yang, Takiy Eddine Berrandou, Lu Liu, Ines Sadoug Sayed, Ozan Dikilitas, Mikka Vikkula, Andrzej Januszewicz, Iftikhar J Kullo, Michel Azizi, Xavier Jeunemaitre, Alexandre Persu, Jason C Kovacic, Santhi K Ganesh, Nabila Bouatia Naji
France, USA, Belgium, Poland, Australia
- S-22-5** **Screening of Primary Aldosteronism Rat Model with Cacna1d Mutation**
 10:50-11:00 Huan Wang, Gaowei Mao, Hui Chen
China
- S-22-6** **Renal expression of microRNAs and their association with blood pressure regulation - insights from small RNA-sequencing of 493 human kidneys**
 11:00-11:10 David Scannali, Xiaoguang Xu, James M Eales, Maciej Drzal, Timothy Rainey, Pawel Bogdanski, Wojciech Wystrychowski, Joanna Zywiec, Ewa Zukowska Szczechowska, Tomasz J Guzik, Andrew P Morris, Fadi J Charchar, Maciej Tomaszewski
UK, Poland, Australia
- S-22-7** **Genomic analyses of hypertension-associated diseases across ethnic groups and species**
 11:10-11:30 Norihiro Kato, *Japan*

Session23	Annex Hall 1 (1F)
10:00 - 11:20 Chair(s)	Hypertension and Occupational Health Augustine Odili, <i>Nigeria</i> ; Katarzyna Stolarz-Skrzypek, <i>Poland</i>
S-23-1 10:00-10:20	Occupational and environmental influences on hypertension Michael Bursztyn, <i>Israel</i>

Oral Sessions

- S-23-2** **Clinical significance of work stress induced increase in blood pressure in hypertension management**
 10:20-10:40 Masanori Munakata, *Japan*
- S-23-3** **Effect of a Workplace-Based Primary Prevention Intervention for cardiovascular disease on Incidence of Hypertension - A Cluster Randomized Controlled Trial**
 10:40-10:50 Zhen Hu, *China*
- S-23-4** **Effects of Rotating night shift on Circadian pattern of Ambulatory Blood Pressure/Heart Rate, Salivary cortisol and Sulfatoxy melatonin levels**
 10:50-11:00 B Anjum, Narsingh Verma, Sandeep Tiwari, Qulsoom Naz, Ranjana Singh, Abbas Ali Mahdi
India
- S-23-5** **Two-Year Responses of Office and Ambulatory Blood Pressure to First Occupational Lead Exposure**
 11:00-11:20 Yu-Ling Yu, Wen-Yi Yang, Lutgarde Thijs, Jesus Melgarejo, Cai-Guo Yu, Dong-Mei Wei, Fang-Fei Wei, Tim Nawrot, Zhen-Yu Zhang, Jan Staessen
Belgium, China

Session24	Annex Hall 2 (1F)
10:00 - 11:30	For Perfect Hypertension Control in Daily Clinical Practice: Japan Method
Chair(s)	Atsushi Sakima, <i>Japan</i> ; Hyeon Chang Kim, <i>South Korea</i>

- S-24-1** **Old habits die hard. Reduced-sodium school lunches in elementary schools will create a new low-sodium eating habit in Japan**
 10:00-10:20 Miho Kusaka, *Japan*
- S-24-2** **Impact of febuxostat on visit-to-visit blood pressure variability: Insights from the randomized PRIZE study**
 10:20-10:35 Yuichi Saito, Atsushi Tanaka, Yoshio Kobayashi, Koichi Node
Japan

Friday, October 14

- S-24-3** **Current Trend of Hypertension Practice by Specialists and Non-specialists in the Japanese Primary Care Settings - J-DOME Study**
 10:35-10:50 Narumi Eguchi, Kei Asayama, Tomohiro Katsuya, Yutaka Hatori, Masaaki Miyakawa, Mitsuhiko Noda
Japan
- S-24-4** **Significance of the Japan medical association Database Of clinical MEDicine (J-DOME) in the treatment of hypertension in Japan**
 10:50-11:10 Tomohiro Katsuya, *Japan*
- S-24-5** **Real world data in hypertension: data from Japan medical association Database Of clinical Medicine (J-DOME) study in Kanagawa**
 11:10-11:30 Kazuo Kobayashi, *Japan*

Session25		Room B-1 (2F)
10:00 - 11:30	Preemptive Medicine and Life Course Approach in Hypertension	Sang-Hyun Ihm, <i>South Korea</i> ; Rafael Castillo, <i>Philippines</i>
S-25-1	Pathophysiology and management of isolated diastolic hypertension	Cesar Romero, <i>USA</i>
S-25-2	Achievements and challenges of food and nutrition education "Shokuiku": experience in Japan	Yukari Takemi, <i>Japan</i>
S-25-3	Trends in Socioeconomic Inequalities in Obesity Among Korean Adolescents: the Korea Youth Risk Behavior Web-based Survey (KYRBS) 2006 to 2020	<u>Eunji Kim</u> , Hyeon Chang Kim <i>South Korea</i>

Oral Sessions

- S-25-4** **Higher urinary angiotensin converting enzyme activity is observed in Brazilian children and adolescents with dyslipidemia**
10:40-10:48 Nayara Azinheira Nóbrega Cruz, Lillian Caroline Goncalves de Oliveira, Jose Geraldo Mill, Dulce Elena Casarini
Brazil
- S-25-5** **Assessing the level of practice among primary care physicians regarding hypertensive disease of pregnancy(HDP): a cross-sectional national survey in Malaysia.**
10:48-10:56 Dhashani Sivaratnam, Siew Moi Ching, Girija Mohana Krishnan, Ahmad Najmi Hio, Nursyafiqah Mohd Sultan, Mohd Nabil Mohd Neezar, Hui Zhi Lim, Ain Aliah Zafirah
Malaysia
- S-25-6** **Interconception Care for the women who suffered from Hypertensive Disorders of Pregnancy**
10:56-11:12 Asako Mito, *USA*
- S-25-7** **Long term implication of hypertension on pregnancy.**
11:12-11:28 Albertino Damasceno, *Mozambique*

Session26

Room B-2 (2F)

10:00 - 11:30 Denervation for High Blood Pressure Control
Chair(s) Kazuomi Kario, *Japan*; Michel Azizi, *France*

Sponsor: Otsuka Medical Devices Co., Ltd. / ReCor Medical Inc.

- S-26-1** **Lessons Learned About Hypertension from Renal Denervation Clinical Trials**
10:00-10:18 Michael Weber, *USA*
- S-26-2** **Ultrasound renal denervation across the hypertension spectrum**
10:18-10:36 Michel Azizi, *France*
- S-26-3** **Renal denervation in hypertension management - where do we stand?**
10:36-10:54 Felix Mahfoud, *Germany*

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S-26-4 **Multi-organ denervation for cardiometabolic risk reduction**
 10:54-11:12 Markus P. Schlaich, *Australia*

S-26-5 **Renal denervation in Asia: guidelines and perspectives in clinical practice**
 11:12-11:30 Kazuomi Kario, *Japan*

Session27		Room C-1 (1F)
10:00 - 11:30	Kidney and Blood Pressure	
Chair(s)	Kazutoshi Miyashita, <i>Japan</i> ; Richard Wainford, <i>USA</i>	

S-27-1 **The roles of kidney in blood pressure elevation**
 10:00-10:18 Sadayoshi Ito, *Japan*

S-27-2 **Renal water loss-induced skin water conservation leads to high blood pressure in spontaneously hypertensive rats**
 10:18-10:27 Takahiro Ogura, Kento Kitada, Norihiko Morisawa, Satoshi Kidoguchi, Daisuke Nakano, Jens Titze, Akira Nishiyama
Japan, Singapore

S-27-3 **Hypertensive nephropathy: Glomerular proteomic profiling of kidney biopsies reveals a signature of disease progression**
 10:27-10:36 Haavard Mikkelsen, Bjorn Egil Vikse, Oystein Eikrem, Andreas Scherer, Kenneth Finne, Tarig Osman, Hans-Peter Marti
Norway, Finland

S-27-4 **Oxidized LDL potentiates angiotensin II-induced Galphaq activation through the AT1-LOX1 receptor complex in kidney cells**
 10:36-10:45 Yibin Huang, Koichi Yamamoto, Toshimasa Takahashi, Jittoku Ihara, Yoichi Nozato, Hiromi Rakugi
Japan

Oral Sessions

- S-27-5** **Deletion of AT_{1a} Receptors in The Proximal Tubules Augments Natriuretic Response to Atrial Natriuretic Peptide via NPR/cGMP/NO Signaling**
10:45-10:54 *Xiao C. Li, Chih Hong Wang, Rumana Hassan, Ana Paula Oliveira Leite, Akemi Sato, Courtney Dugas, Ryosuke Sato, Jia L Zhuo*
USA
- S-27-6** **Adaptive immunity regulates renal salt-retention and blood pressure**
10:54-11:12 *Shengyu Mu, USA*
- S-27-7** **Ubiquitin proteasome system and blood pressure regulation**
11:12-11:30 *Shigeru Shibata, Japan*

Luncheon Seminar9

Main Hall (1F)

11:50 - 12:50

Chair(s) *Shigeru Shibata, Japan*

Sponsor: Novartis Pharma K.K. Medical Affairs Division /
Otsuka Pharmaceutical Co., Ltd. Medical Affairs

LS9

One step forward! Target the BP

Tatsuo Shimosawa, Japan

Luncheon Seminar10

Room A (2F)

11:50 - 12:50

Chair(s) *Hiromi Rakugi, Japan*

Penetration of home blood pressure measurement in Asia

Sponsor: OMRON Healthcare Co., Ltd.

LS10

Penetration of home blood pressure measurement in Asia

Tzung-Dau Wang, Taiwan, Republic Of China

Friday, October 14

Luncheon Seminar11		Annex Hall 1 (1F)
11:50 - 12:50	How to use MRB in hypertension treatment	
Chair(s)	Hisashi Kai, <i>Japan</i>	

Sponsor: Daiichi Sankyo Co., Ltd.

- LS11** **Current total care of trajectory from hypertension to cardiovascular events: shift from guidelines to personalized medicine**
 Kazuomi Kario, *Japan*

Luncheon Seminar12		Annex Hall 2 (1F)
11:50 - 12:50		
Chair(s)	Takayoshi Ohkubo, <i>Japan</i>	

Sponsor: Takeda Pharmaceutical Company Limited

- LS12** **How to achieve optimal BP? -HBP Zero town-**
 Mitsuru Ohishi, *Japan*

Luncheon Seminar13		Room B-1 (2F)
11:50 - 12:50		
Chair(s)	Hideo Matsuura, <i>Japan</i>	

Sponsor: TAISHO PHARMCEUTICAL CO., LTD.

- LS13** **SGLT inhibitor and sympathetic nervous system/blood pressure**
 Akira Nishiyama, *Japan*

Luncheon Seminar14		Room C-1 (1F)
11:50 - 12:50	Diabetes	
Chair(s)	Toshimasa Yamauchi, <i>Japan</i>	

Sponsor: SANOFI

- LS14** **Epigenetic Regulation of Brown-Fat-Specific Genes by Nuclear Factor I-A and Its Role in Energy Homeostasis**
 Hironori Waki, *Japan*

Oral Sessions

Luncheon Seminar15		Room C-2 (1F)
11:50 - 12:50	Diabetes	
Chair(s)	Mitsuru Ohsugi, <i>Japan</i>	

Sponsor: Mitsubishi Tanabe Pharma Corporation

- LS15** **NAD biology as a potent therapeutic target for diabetes and hypertension**
 Jun Yoshino, *Japan*

Plenary Lecture3		Main Hall (1F)
14:00 - 15:00		
Chair(s)	Hiroshi Itoh, <i>Japan</i>	

- PL-3** **Recent Progress in iPS Cell Research and Application**
 14:00-15:00 Shinya Yamanaka, *Japan*

Featured Presentation2		Main Hall (1F)
15:00 - 15:40		
Chair(s)	Aletta E. Schutte, <i>Australia</i>	

- FP-2** **Health Maintenance and Teamwork in Space**
 15:00-15:40 Naoko Yamazaki, *Japan*

Session28		Room A (2F)
15:00 - 16:40	Late Breaking Session	
Chair(s)	Hiromi Rakugi, <i>Japan</i> ; Ernesto L. Schiffrin, <i>Canada</i>	

- S-28-1** **Cardiovascular outcomes in adults with hypertension with evening versus morning dosing of usual antihypertensives in the UK. The TIME study**

Thomas MacLennal MacDonald, Isla Shelah Mackenzie, Amy Rogers, Neil R Poulter, Bryan Williams, Morris J Brown, David J Webb, Ian Ford, David Rorie, Kerr Grieve, Fillippo Pigazzani, Peter M Rothwell, Robin Young, Alex McConnachie, Chim C Lang
UK

Friday, October 14

- S-28-2** **Effect of esaxerenone on nocturnal blood pressure combined with renin-angiotensin system inhibitor or calcium channel blocker in uncontrolled hypertension**
 15:25-15:35 Kazuomi Kario, Sadayoshi Ito, Hiroshi Itoh, Hiromi Rakugi, Yasuyuki Okuda, Satoru Yamakawa
Japan
- S-28-3** **Comparative effectiveness and implementation of digital health interventions for people with hypertension: Systematic review and meta-analysis of randomised controlled trials**
 15:35-15:45 George Siopis, George Moschonis, Evette Eweka, Jenny Jung, Dominika Kwasnicka, Bernard Yeboah-Asiamah Asare, Vimarsha Kodithuwakku, Ruben Willems, Nick Verhaeghe, Lieven Annemans, Rajesh Vedanthan, Brian Oldenburg, Yannis Manios
Australia, Belgium, Greece, USA
- S-28-4** **Association between Income and Progression of Chronic Kidney Disease in Japan: a nationwide cohort study**
 15:45-15:55 Nana Ishimura, Kosuke Inoue, Naoki Kondo
Japan
- S-28-5** **Circulating angiotensin converting enzyme 2 activity as a cardiovascular risk marker in a young healthy population: The African-PREDICT study**
 15:55-16:05 Lebo F Gafane-Matemane, Louise M Burrell, Sheila K Patel, Ruan Kruger, Aletta E Schutte
South Africa, Australia
- S-28-6** **Urinary metabolomics, dietary salt intake and blood pressure: The African-PREDICT study**
 16:05-16:15 Michél Strauss-Kruger, Tertia van Zyl, Marlien Pieters, Ruan Kruger, Gontse Mokwatsi, Lebo Gafane-Matemane, Hlengiwe Mbongwa, Adriaan Jacobs, Aletta Elisabeth Schutte, Roan Louw, Carina Mels
South Africa, Australia

Oral Sessions

S-28-7 Gene variants that neutralize mortality risk from hypertension and

16:15-16:25 **thereby increase lifespan**

Brian J. Morris, Randi Chen, Timothy A. Donlon, Kamal H. Maskai,
D. Craig Willcox, Philip M.c. Davy, Richard C. Allsopp,
Bradley J. Willcox
USA, Australia, Japan

S-28-8 The ASCOT Legacy Cohort: The long-term effects of blood

16:25-16:40 **pressure and blood pressure variability on cardiovascular and renal outcomes**

Peter Sever, Ajay Gupta, William Whiteley, Thomas Godec,
Somayeh Rostamian, Judith Mackay, Neil Poulter,
Andrew Whitehouse
UK

ISH New Investigator Oral Presentation Award Session

Annex Hall 1 (1F)

15:00 - 16:30

Chair(s) *Daniel Piskorz, Argentina; Tazeen Jafar, Singapore*

Judge

Richard Wainford, *USA*
Tomasz Guzik, *UK*
Yanina Timasheva, *Japan*
Augusto Montezano, *UK/Brazil*

AW-NI-1

Angiotensin II Exaggerates SARS-CoV-2 Specific T-cell Response in Convalescent Individuals Following COVID-19

Moudhi Almutlaq, Fatmah A Mansour, Hassan S Alamri,
Fayhan Alroqi, Tlili Barhoumi
Saudi Arabia

AW-NI-2

A high-fibre diet attenuates hypertension by improving gut barrier integrity via SCFA-receptor signalling

Rikeish R Muralitharan, Evany Dinakis, Liang Xie, Hamdi Jama,
Michael Nakai, Madeleine Paterson, Chad Johnson,
Ekaterina Salimova, Natalie Bitto, Maria Kaparakis Liaskos,
Joanne A O Donnell, Charles R Mackay, Francine Z Marques
Australia

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- AW-NI-3** **Effects of renal denervation on left and right ventricular function in hypertensive rats with heart failure induced by volume overload**
Matus Miklovic, Olga Gawrys, Peter Kala, Zuzana Honetschlagerova, Sarka Jichova, Zdenka Vanourkova, Zuzana Huskova, Sona Kikerlova, Tomas Mracek, David Sedmera, Hana Maxova, Vojtech Melenovsky
Czech Republic
- AW-NI-4** **May Measurement Month 2021: An analysis of blood pressure screening results from Nepal**
Yoko Inagaki, Sweta Koilala, Kiran Poudel, Kiran Tiwari, Abhishek Sapkota, Pabitra Babu Soti, Dinesh Neupane
USA, Nepal
- AW-NI-5** **Cost-effectiveness of Intensive versus Standard Blood-Pressure Control among hypertensive patients in Taiwan: A simulation modelling study**
Chia-Te Liao, Han Siong Toh, Dongmei Wei, Jesus Melgarejo, WeiTing Chang, Zhenyu Zhang
Belgium, Taiwan
- AW-NI-6** **Mineralocorticoid receptor activation leads to high blood pressure due to body potassium and water loss**
Shintaro Minegishi, Norihiko Morisawa, Kento Kitada, Johannes Wild, Yam Wan Keat, Hong Yu Han, Adriana Marton, Kaoru Minegishi, Lim Tzy Tiing, Tomoaki Ishigami, Kouichi Tamura, Akira Nishiyama, Jean Paul Kovalik, Jens Titze
Singapore, Japan, Germany, USA

Session29		Annex Hall 2 (1F)
15:00 - 16:30 Chair(s)	Cardiovascular Disease, Heart Failure and Atrial Fibrillation-2 Hisashi Kai, <i>Japan</i> ; Neusa Jessen, <i>Mozambique</i>	
S-29-1 15:00-15:20	Hypertension and heart failure: new insights Issei Komuro, <i>Japan</i>	

Oral Sessions

- S-29-2** **Medical Therapy for Heart Failure with Preserved Ejection Fraction**
 15:20-15:40 Sverre Erik Kjeldsen, *Norway*
- S-29-3** **The relationship between ventricular-arterial coupling and aerobic capacity across the cardiovascular disease continuum: focus on proximal aortic stiffness.**
 15:40-15:50 Nicola Riccardo Pugliese, Francesco Faita, Frank Ruschitzka, Stefano Taddei, Bryan Williams, Francesco Antonini Canterin, Stefano Masi
Italy, Switzerland, UK
- S-29-4** **Association between obese status and incident left ventricular hypertrophy differed by achieved systolic blood pressure level**
 15:50-16:00 Anping Cai, Lin Liu, Jiyan Chen, Yingling Zhou, Yingqing Feng
China
- S-29-5** **Early changes in left atrial strain and global ventricular function in hypertensive patients with heart failure with preserved EF**
 16:00-16:10 Krasimira Hristova, Nikolay Tselov, Svetlin Tsonev, Rumen Marinov, Galina Zlatancheva, Boris Slavchev
Bulgaria
- S-29-6** **Electrocardiographic Abnormalities among Newly Presenting Hypertensive Patients: Report From Cardiovascular Risk Prediction Registry**
 16:10-16:30 Abiodun Moshood Adeoye, Oladimeji Adebayo, Augustine Onyeaghala, Adekunle Fakunle, Lawrence Adebuseye
Nigeria

Meet the Experts

Room B-1 (2F)

15:00 - 15:40 How to Use Mineralocorticoid Receptor Blockers in Hypertension
 Chair(s) Sadayoshi Ito, *Japan*; Bryan Williams, *UK*

ME-1 **Role of MR blockers in resistant and refractory hypertension**
 15:00-15:20 Suzanne Oparil, *USA*

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ME-2 **MR blockers as the possible first-line therapy in hypertension**
 15:20-15:40 Hirotaka Shibata, *Japan*

APSH Oral Presentation Session		Room B-2 (2F)
15:00 - 16:30		
Chair(s)	Hiroshi Itoh, <i>Japan</i> ; Abdul Rashid Abdul Rahman, <i>Malaysia</i>	

APSH-OP-1 **Therapeutic target and clinical impact of day-to-day blood pressure variability in hypertensive patients with covid-19**
 15:00-15:15 Prana Jagannatha Gusti Ngurah, AA Ayu Dwi Adelia Yasmin, I Wayan Agus Surya Pradnyana, Stanly Kamardi, Elionardo Enrique Pangkahila
Indonesia

APSH-OP-2 **Intracellular transportation of amyloid beta via interaction between angiotensin II Type 1 receptor and receptor of advanced glycation end products**
 15:15-15:30 Yibin Huang, Koichi Yamamoto, Tsuneo Nakajima, Shuko Takeda, Hiromi Rakugi
Japan

APSH-OP-3 **Vitamin D deficiency exacerbates monocrotaline-induced pulmonary arterial hypertension in rats: Possible involvement of TGF- β / α -SMA signaling pathway**
 15:30-15:45 Sadia Shah, Harlokes N Narayan Yadav
India

APSH-OP-4 **Histological measures of structural kidney damage are associated with shortening of kidney telomere length**
 15:45-16:00 Olutope Arinola Akinnibosun, James Eales, Huy Nguyen, Pawel Bogdanski, Ewa Zukowska Szczechowska, Matthew Denniff, John Dromer, Maciej Tomaszewski, Fadi Charchar
Australia, UK, Poland

Oral Sessions

APSH-OP-5 **Measures of long-term systolic blood pressure variability and their associations with the risk of incident type 2 diabetes mellitus**
 16:00-16:15

Zean Song, Yupeng He, Chifa Chiang, Abubakr A A Alshoabi, Km Saif Ur Rahman, Md Razib Mamun, Atsuko Aoyama, Yoshihisa Hirakawa, Masaaki Matsunaga, Atsuhiko Ota, Koji Tamakoshi, Yuanying Li, Hiroshi Yatsuya
Japan

APSH-OP-6 **Association Between the Gut Microbiome and their Metabolites with Human Blood Pressure Variability**
 16:15-16:30

Evany Dinakis, Michael Nakai, Paul Gill, Rosilene Ribeiro, Stephanie Yiallourou, Yusuke Sata, Jane Muir, Melinda Carrington, Geoffrey A Head, David M Kaye, Francine Z Marques
Australia

Session30	Room C-1 (1F)
15:00 - 16:30	Diversity in Hypertension-Related Diseases and Life-Style Modification
Chair(s)	Satoko Nakamura, <i>Japan</i> ; Ulrike Muscha Steckelings, <i>Denmark</i>

S-30-1 **The importance of multidisciplinary intervention for the prevention of CVD in Japan**
 15:00-15:16

Mai Kabayama, Kei Kamide
Japan

S-30-2 **Asian management of hypertension: Current status, home BP monitoring, and specific concerns in Philippines**
 15:16-15:32

Jorge Admiral Sison, *Philippines*

S-30-3 **Ethnicity and Risk of Cardiovascular Disease**
 15:32-15:48

Nadia A Khan, *Canada*

S-30-4 **Sex Differences in Impact of Cumulative Systolic Blood Pressure from Childhood to Adulthood on Albuminuria: A 30-year Prospective Cohort Study**
 15:48-15:58

Dan Wang, Jianjun Mu
China

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S-30-5 Dietary patterns and cardiovascular and kidney phenotypes in an Uruguayan population cohort
 15:58-16:14
Paula Moliterno, Carmen Marino Donangelo, Luciana Borgarello, Matias Pecora, Alicia Olascoaga, Oscar Noboa, Jose Boggia
Uruguay, Austria

S-30-6 Promotion of diversity and inclusion (D&I) by the Japanese Society of Hypertension (JSH): JSH Asahikawa Declaration
 16:14-16:30
 Satoko Nakamura, *Japan*

RAG Session: APAC		Room C-2 (1F)
15:00 - 16:00	Socio-Medical Issues in Hypertension Control in Asian-Pacific Countries	
Chair(s)	Wook Bum Pyun, <i>South Korea</i> ; Akira Nishiyama, <i>Japan</i>	

RAG-APAC-1 Social aging in the Asia-Pacific region
 15:00-15:10
 Praew Kotruchin, *Thailand*

RAG-APAC-2 Diabetic epidemic in in Asian-Pacific region
 15:10-15:20
 Yuqing Zhang, *China*

RAG-APAC-3 Sodium-Potassium strategy in Asian-Pacific region
 15:20-15:30
 Yook-Chin Chia, *Malaysia*

RAG-APAC-4 How to make Asian-Pacific Hypertension Fact Sheet (example of Korean Hypertension Fact Sheet)
 15:30-15:40
 Hae-Young Lee, *South Korea*

15:40-16:00 **Toward Asian-Pacific Hypertension Fact Sheet (Panel discussion)**
 Saulat Siddique, *Pakistan*
 Jiguang Wang, *China*
 Erwinanto Sp. Jp(k), *Indonesia*
 Sheikh Mohammed Shariful Islam, *Australia*
 Rafael Castillo, *Philippines*

Oral Sessions

Debate Session 1 Room B-1 (2F)

15:40 - 16:30

Chair(s) Claudio Borghi, *Italy*; Yukihiro Higashi, *Japan*

Theme. Does arterial stiffness add benefit to hypertension management?

DB-1-1 Pro: Yes arterial stiffness adds benefit to hypertension management

15:40-15:55 Charalambos Vlachopoulos, *Greece*

DB-2-2 Con: No arterial stiffness does not add benefit to hypertension management

15:55-16:10 Bryan Williams, *UK*

Special Presentation Main Hall (1F)

15:50 - 17:30

Chair(s) Fadi J. Charchar, *Australia*; Louise Burrell, *Australia*

SP-1 Aggressive BP management in older Asian people

15:50-16:08 Weili Zhang, *China*

SP-2 Future hypertension research

16:08-16:26 Akira Nishiyama, *Japan*

SP-3 Precision Medicine

16:26-16:44 Anna F. Dominiczak, *UK*

SP-4

16:44-17:02 Takuya Kishi, *Japan*

SP-5 Presentation Zen: The Art of Presenting with Impact

17:02-17:32 Garr Reynolds, *Japan*

RAG Session: MENA Room C-2 (1F)

16:00 - 17:00 Hypertension Challenges in Middle East and North Africa. An Urgent Call for Action

Chair(s) Tawfik Albassam, *Saudi Arabia*; Ghazi Haji, *Iraq*

RAG-MENA-1 Hypertension Prospective and challenges in MENA region

16:00-16:20 Jafar Alsaied, *Bahrain*

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RAG-MENA-2 CV risk profile and lifestyle pattern in the MENA

16:20-16:40 Robert N Najem, Sola Aoun Bahous
Lebanon

RAG-MENA-3 Hypertension management in our region. Which guidelines to follow?

16:40-17:00 **Abdulla Shehab**, *United Arab Emirates*

ISH2022 Kyoto Young Investigator Award Session Annex Hall 1 (1F)

16:30 - 18:00

Chair(s) Yusuke Ohya, *Japan*; Nobuhito Hirawa, *Japan*

- AW-YI-1** **Continuous non-mutagenic DNA damage in podocytes activates pathogenic memory T cells through altered DNA methylation**
Ran Nakamichi, Japan
- AW-YI-2** **Effects of renal denervation on left and right ventricular function in hypertensive rats with heart failure induced by volume overload**
Matus Miklovic, Czech Republic
- AW-YI-3** **Peak of Nocturnal Blood Pressure Surge in Seconds is Associated with Left Ventricular Mass Index in Obstructive Sleep Apnea Patients**
Ayako Kokubo (Urabe), Japan
- AW-YI-4** **The relationship between ventricular-arterial coupling and aerobic capacity across the cardiovascular disease continuum: focus on proximal aortic stiffness.**
Nicola Riccardo Pugliese, Italy
- AW-YI-5** **GUT MICROBIAL METABOLITES LOWER 24-HOUR SYSTOLIC BLOOD PRESSURE IN HYPERTENSIVE PATIENTS**
Hamdi Jama, Australia
- AW-YI-6** **The burden of cardiovascular disease attributable to high systolic blood pressure across China and its provinces from 2005 to 2018**
Xue Cao, China

Oral Sessions

- AW-YI-7** **Hypertension and its associations with multimorbidity: an analysis of 4 million participants from May Measurement Month 2017-2019**
 Carolina Janssen, *Netherlands*

Session31	Annex Hall 2 (1F)
16:30 - 18:00	Global Burden of Disease (GBD) on Hypertension
Chair(s)	Kei Kamide, <i>Japan</i> ; Thomas Kahan, <i>Sweden</i>
S-31-1	Estimating the Global Burden of High Systolic Blood Pressure
16:30-16:50	Gregory A. Roth, <i>USA</i>
S-31-2	GBD on hypertension and cognitive function in Americas
16:50-17:10	Gladys Elena Maestre, <i>Venezuela</i>
S-31-3	Burden of hypertensive heart disease and high systolic blood pressure in Australia from 1990-2019: Results from the GBD study
17:10-17:20	<u>Sheikh Mohammed Shariful Islam</u> , Reza Daryabeygi, Payam Ghaffari, Xiaoyue Xu, Rachel Huxley, Ralph Maddison, Aletta E Schutte <i>Australia, Iran, Islamic Rep</i>
S-31-4	STROKE BURDEN AND HYPERTENSION IN THE ASIA-PACIFIC REGION
17:20-17:30	Veerendra Chadachan, Ashish Anil Sule, Jam Chin Tay, Tek Siong Chee, Emmett Tsz Yeung Wong, Tian Hai Koh, Lip Ping Low, Vernon Min Sen Oh, Akira Wu, Pankaj Handa, <u>Teo Boon Wee</u> <i>Singapore</i>
S-31-5	SOCIO-ECONOMIC IMPACT AND BURDEN OF HYPERTENSION IN THE PHILIPPINES PROJECTED IN 2050
17:30-17:40	<u>Leilani Basa Mercado Asis Asis</u> , Deborah Ignacia David Ona, Dolores Bonzon, Gilbert Vilela, Alejandro Diaz, Benjamin Balmores, Marlon Co, Arnold Benjamin Mina, Esperanza Cabral, Abdias Aquino, Nelson Abelardo, Lynn Gomez, Les Paul Valdez, Rafael Castillo <i>Philippines</i>

Friday, October 14

S-31-6 **Current Status and Future Perspectives of Elderly Hypertension in Asia**
 17:40-18:00 **Asia**
 Myeong-Chan Cho, *South Korea*

Sponsored Symposium2		Room B-1 (2F)
16:30 - 18:00	STEP Trial: What we have learned?	
Chair(s)	Jun Cai, <i>China</i> ; Yong Li, <i>China</i>	

Sponsor: Daiichi Sankyo Co., Ltd.

SS2-1 **Cardiovascular Benefits of Intensive BP Control in Patients in Asia**
 Tzung-Dau Wang, *Taiwan*

SS2-2 **Cardiovascular Benefits of Intensive Blood Pressure Control in Older Hypertensive Patients in Asia**
 Weili Zhang, *China*

APSH Invited Lecture; Presidential Lecture and Awards Ceremony		Room B-2 (2F)
16:30 - 18:00		
Chair(s)	Teo Boon Wee, <i>Singapore</i> ; Abdul Rashid Abdul Rahman, <i>Malaysia</i>	

APSH Invited Lecture

AW-APSH-1 **Targeting windows of plasticity to prevent hypertension**
 16:30-17:10 Kate Denton, *Australia*

APSH Presidential Lecture

AW-APSH-2 **"Mineralocorticoid receptor (MR)-associated hypertension " in "Greedy Organ Hypothesis "**
 17:10-17:50 Hiroshi Itoh, *Japan*

Presentation of YI Certificates and Presentation of Oral Award Prize

AW-APSH-3 Awardee
 17:50-18:00

Oral Sessions

WiHR Session2		Room C-1 (1F)
16:30 - 18:00	Hypertension in Pregnancy and Childhood	
Chair(s)	Hind Beheiry, <i>Sudan</i> ; Audrey Adji, <i>Australia</i>	
WiHR-2-1	Blood Pressure Measurement during Pregnancy	
16:30-16:52	Pensée Wu, <i>UK</i>	
WiHR-2-2	Premature Birth and Hypertension in Mothers and Children	
16:52-17:14	Anne Monique Nuyt, <i>Canada</i>	
WiHR-2-3	Challenges and opportunities for cardiovascular health promotion in children	
17:14-17:36	Ruan Kruger, <i>South Africa</i>	
WiHR-2-4	A Novel LNK Between Genetics, Inflammation, and Hypertension	
17:36-17:57	Meena S. Madhur, <i>USA</i> , the winner of ISH Mid-Career Award for Women	

ISH-JSH International Committee Joint Session		Room A (2F)
16:40 - 18:10	Agreement Regarding Overcoming Hypertension in the Asian Hypertension Society Network 2022	
Chair(s)	Koichi Yamamoto, <i>Japan</i> ; Yuichiro Yano, <i>Japan</i> ; Kenichi Katsurada, <i>Japan</i>	
JS-IC	1. Opening	
	Akira Nishiyama, <i>Japan</i>	
	2. Overview and outcome of this project	
	Satoshi Hoshide, <i>Japan</i>	
	3. Comments from each country/region	
	Chi-Sheng Hung, <i>Taiwan</i>	
	Yook-Chin Chia, <i>Malaysia</i>	
	Tsolmon Unurjargal, <i>Mongolia</i>	
	Sirisawat Wanthong, <i>Thailand</i>	
	Sungha Park, <i>South Korea</i>	
	Teo Boon Wee, <i>Singapore</i>	
	Huynh Van Minh, <i>Vietnam</i>	
	Saulat Siddique, <i>Pakistan</i>	

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Deborah Ignacia D. Ona, *Philippines*
 Jiguang Wang, *China*
 Yuda Turana, *Indonesia*
 Godwin Roger Constantine, *Sri Lanka*
 Narsingh Verma, *India*

4. Closing remark

Hiromi Rakugi, *Japan*

RAG Session: Africa		Room C-2 (1F)
17:00 - 18:00		
Chair(s)	Basden Onwubere, <i>Nigeria</i>	
RAG-AFRICA-1	Epidemiological transition: What have we learnt from recent hypertension data across Africa	
17:00-17:10	<i>Albertino Damasceno, Mozambique</i>	
RAG-AFRICA-2	Capacity building for effective task sharing in hypertension care: Initial experience from the hypertension school for non-physician health worker	
17:10-17:20	<i>Augustine Odili, Nigeria</i>	
RAG-AFRICA-3	Hypertension Control Strategies in Low-and-Middle Income Countries: Sharing experiences across countries	
17:20-17:30	<i>Dinesh Neupane, USA</i>	
RAG-AFRICA-4	Antihypertensive clinical trials in Africa: Where are we?	
17:30-17:40	<i>Abiodun Moshood Adeoye, Nigeria</i>	
17:40-18:00	Discussion	

Oral Sessions

Session32		Annex Hall 1 (1F)
7:40 - 8:40	Digital Devices for Hypertension Therapy	
Chair(s)	Kazuyuki Shimada, <i>Japan</i> ; George S. Stergiou, <i>Greece</i>	
S-32-1	Hypertension therapy using web-based programming and interpretation of ambulatory blood pressure monitoring	
7:40-8:00	Jiguang Wang, <i>China</i>	
S-32-2	Hypertension therapy using diagnostic service for ambulatory blood pressure monitoring	
8:00-8:20	Anastasia Susie Mihailidou, <i>Australia</i>	
S-32-3	Recent IDACO analysis on the risk of progression to sustained hypertension from white-coat hypertension or masked hypertension.	
8:20-8:40	Katarzyna Stolarz-Skrzypek, <i>Poland</i>	

WHL-ISH-RTSL Joint Session		Annex Hall 2 (1F)
7:40 - 8:40	SALT INTAKE AND HYPERTENSION in the WORLD: CURRENT CHALLENGES	
Chair(s)	Michael Weber, <i>USA</i> ; Xin-Hua Zhang, <i>China</i>	
JS-WHL-ISH-RTSL-1	Assessing salt intake in African populations. How to obtain reliable data?	
7:40-7:52	Albertino Damasceno, <i>Mozambique</i>	
JS-WHL-ISH-RTSL-2	Why should we worry about sodium intake, if we include a diuretic in the hypertension treatment regimen ?	
7:52-8:04	Daniel T. Lackland, <i>USA</i>	
JS-WHL-ISH-RTSL-3	Is the current recommendation by guidelines for hypertension to keep daily sodium intake below 5 g (sodium below 2300 mg) realistic ?	
8:04-8:16	Paul K. Whelton, <i>USA</i>	

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- JS-WHL-ISH-RTSL-4 **Social and political aspects related to promoting salt reduction and healthy diets in a population. Differences among high, mid and low income countries?**
 8:16-8:28
 Anastase Dzudie, *Cameroon*
- 8:28-8:40 **Discussion**

ISH-KSH Joint Session		Room B-1 (2F)
7:40 - 8:40		
Chair(s)	Sang-Hyun Ihm, <i>South Korea</i> ; Maciej Tomaszewski, <i>UK</i>	
JS-ISH-KSH-1	Lifestyle changes in management of resistant hypertension	
7:40-7:52	Fadi J. Charchar, <i>Australia</i>	
JS-ISH-KSH-2	Diagnostic approach to pseudo-resistant hypertension	
7:52-8:04	Maciej Tomaszewski, <i>UK</i>	
JS-ISH-KSH-3	Prognosis of refractory hypertension	
8:04-8:16	Hae-Young Lee, <i>South Korea</i>	
JS-ISH-KSH-4	Epidemiology of resistant hypertension in Korea: ABPM registry data	
8:16-8:28	Jinho Shin, <i>South Korea</i>	
8:28-8:40	Discussion	

Session33		Room B-2 (2F)
7:40 - 8:40		
Chair(s)	Prevalence, Awareness, Treatment and Control of Blood Pressure in the World Tzung-Dau Wang, <i>Taiwan</i> ; Satoshi Hoshide, <i>Japan</i>	
S-33-1	Task sharing for Control of Hypertension: the Nigerian Experience	
7:40-7:57	Augustine Odili, <i>Nigeria</i>	
S-33-2	Blood Pressure Levels in Young Adults and Cardiovascular Disease Later in Life: CARDIA Study	
7:57-8:14	Yuichiro Yano, <i>Japan</i>	

Oral Sessions

S-33-3 Evaluating the prevalence, awareness, and control of hypertension:

8:14-8:23 **A Community, Based Cross Sectional Study**

Maha Ismail Elamin, Dina Ahmed Hassan, Marwa Ismail Elamin, Hind Mamoun Beheri, Asma Abd Alall, Naema Ahmed Fahal, Safa Ahmed Medani, Azza Basheir Musa, Ibtisam Ahmed Ali
Sudan, Ireland

S-33-4 Blood pressure pattern among teenagers in Bahrain

8:23-8:40 Jafar Alsaid, *Bahrain*

Morning Seminar4 Room C-1 (1F)

7:40 - 8:40 "Advancing the treatment of uncontrolled Hypertension with RDN"

Chair(s) Kazuomi Kario, *Japan*

Sponsor: Otsuka Medical Devices Co., Ltd. / ReCor Medical Inc.

MS4-1 Latest advancements of RDN

Felix Mahfoud, *Germany*

MS4-2 Key Insights from RADIANCE-HTN Clinical Program

Michel Azizi, *France*

MS4-3 RADIANCE DUO Study

Kazuomi Kario, *Japan*

ECCR/HBPRCA Breakfast Joint Session Room C-2 (1F)

7:40 - 8:40

Chair(s) Marisol Fernandez-Alfonso, *Spain*; Markus P. Schlaich, *Australia*

JS-ECCR/HBPRCA-1 Primary Aldosteronism and Atrial Fibrillation

7:40-7:55 Gian Paolo Rossi, *Italy*

JS-ECCR/HBPRCA-2 Homocysteine and Lipoprotein (a) as a determinant of arterial stiffness and a predictor of hypertension mediated target organ damage (HMOD)

7:55-8:10

Revathy Carnagarin, Patrice Mwapatayi, Markus Schlaich
Australia

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JS-ECCR/HBPRCA-3 Novel Fibrogenic Cellular Drivers of Aortic Stiffening

8:10-8:25 Antony Vinh, *Australia*

JS-ECCR/HBPRCA-4 Neural Control of Cardiovascular Function and Erythropoiesis by the Brain RAS

8:25-8:40

Andre Felipe Rodrigues, Mihail Todiras, Fatimunnisa Qadri, Natalia Alenina, Michael Bader
Germany

Plenary Lecture4		Main Hall (1F)
9:00 - 10:00		
Chair(s)	Toshiro Fujita, <i>Japan</i>	

PL-4 Insights into molecular mechanisms of hypertension from human genetics

9:00-10:00

Richard P. Lifton, *USA*

Featured Presentation3		Main Hall (1F)
10:20 - 11:20		
Chair(s)	Hiroshi Itoh, <i>Japan</i>	

FP-3 Research on Complete Nutrition Meal to Avoid the Metabolic Domino Effect, Realizing Mibyou Prevention (Disease-Free State)

10:20-11:20

Noritaka Ando, *Japan*

Sponsored Symposium3		Room A (2F)
10:20 - 11:50		Development of innovative sensing technologies towards ZERO cardiovascular event
Chair(s)	Bryan Williams, <i>UK</i>	

Sponsor: OMRON Healthcare Co., Ltd.

SS3-1 Perspectives in Wearable 24-hr Blood Pressure Monitoring

Kazuomi Kario, *Japan*

SS3-2 New Perspectives for Nocturnal Blood Pressure Monitoring

Gianfranco Parati, *Italy*

Oral Sessions

- SS3-3 Early Detection of Atrial Fibrillation Recurrence After Ablation Using a Blood Pressure Monitor With Electrocardiogram**
Keitaro Senoo, *Japan*

Session34	Annex Hall 1 (1F)
10:20 - 11:50	Epidemiology of Hypertension and Cardiometabolic Disorders
Chair(s)	Daichi Shimbo, <i>USA</i> ; Yuichiro Yano, <i>Japan</i>
S-34-1	Central hypertension is a non-negligible cardiovascular risk factor
10:20-10:40	Yan Li, <i>China</i>
S-34-2	Trends in Hypertension in Singapore and Evidence-Based Solutions
10:40-11:00	Tazeen Jafar, <i>Singapore</i>
S-34-3	The health awareness and spillover effects of a community intervention by home blood pressure measurement: Nose Study
11:00-11:10	<u>Mai Kabayama</u> , Arisa Wada, Kayo Godai, Michiko Kido, Sumiyo Hashimoto, Makiko Higashi, Hiromi Hatanaka, Takeshi Kikuchi, Takayuki Dodo, Yasuharu Tabara, Kei Asayama, Takayoshi Okubo, Hiromi Rakugi, Kei Kamide <i>Japan</i>
S-34-4	Hypertension and some related risk factors from May Measurement Month screening programme in Vietnam from 2017 to 2019.
11:10-11:30	<u>Huynh Van Minh</u> , Nguyen Lan Viet, Cao Thuc Sinh, Phan Nam Hung, Nguyen Thi Mngoc, Ngo Van Hung, Tran Kim Son, Doan Chi Thang, Nguyen Duc Thuan, To Anh Tuan <i>Vietnam</i>
S-34-5	Perspectives from longitudinal cohort study in northern Japan -Hypertension, metabolic disorders and cardiovascular disease-
11:30-11:50	Shigeyuki Saitoh, <i>Japan</i>

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Session35	Annex Hall 2 (1F)
10:20 - 11:50 Chair(s)	Sleep Apnea and Severe Hypertension Hiroshi Kusunoki, <i>Japan</i> ; Adam Greenstein, <i>UK</i>
S-35-1 10:20-10:40	Sleep Apnea and Refractory Hypertension Elizabeth Muxfeldt, <i>Brazil</i>
S-35-2 10:40-10:50	The impact of renal denervation procedure on the use of antihypertensive drugs. A real-life investigation from Italy <u>Federico Rea</u> , Gabriella Morabito, Laura Savare, Giovanni Corrao, Giuseppe Mancia <i>Italy</i>
S-35-3 10:50-11:00	HAMA, an European Registry of Malignant Hypertension supported by the European Society of Hypertension: preliminary results and current perspectives <u>Sebastien Rubin</u> , Aurelien Lorthioir, Jean Michel Halimi, Pierre Louis Tharoux, Cremer Antoine, Stephane Debeugny, Alexandre Persu, Gosse Philippe, Boulestreau Romain <i>France, Belgium</i>
S-35-4 11:00-11:10	Peak of Nocturnal Blood Pressure Surge in Seconds is Associated with Left Ventricular Mass Index in Obstructive Sleep Apnea Patients <u>Ayako Kokubo (Urabe)</u> , Mitsuo Kuwabara, Yuki Ota, Naoko Tomitani, Shingo Yamashita, Toshikazu Shiga, Kazuomi Kario <i>Japan</i>
S-35-5 11:10-11:20	Higher Plasma Aldosterone Concentrations Are Associated With Elevated Risk of Aortic Dissection and Aneurysm: a Case-Control Study <u>Qing Zhu</u> , Mulalibieke Heizhati, Menghui Wang, Qin Luo, Xiaoguang Yao, Nanfang Li <i>China</i>

Oral Sessions

S-35-6 **Long-term Reduction in Morning and Nighttime Blood Pressure after Renal Denervation: 36-Month Results from SPYRAL HTN-ON MED Pilot Trial**

11:20-11:30

Kazuomi Kario, Felix Mahfoud, David E Kandzari, Raymond R Townsend, Michael A Weber, Roland E Schmieder, Konstantinos Tsioufis, Stuart Pocock, Martin Fahy, Michael Boehm
Japan, Germany, USA, Greece, UK

S-35-7 **Obstructive Sleep Apnea and Risk of CKD: findings from the Atherosclerosis Risk in Communities Study**

11:30-11:50

Kunihiro Matsushita, USA

Sponsored Symposium4 Room B-1 (2F)

10:20 - 11:50 **Current Status and Issues of Hypertension in Japan and Treatment of Hypertension with ARNI**

Chair(s) *Nobuhito Hirawa, Japan*

Sponsor: Novartis Pharma K.K. Medical Affairs Division /
Otsuka Pharmaceutical Co., Ltd. Medical Affairs

SS4-1 **Current Status and Issues of Hypertension in Japan**

Mitsuru Ohishi, Japan

SS4-2 **24-hour blood pressure control and its role of ARNI**

Satoshi Hoshide, Japan

Debate Session 2 Room B-2 (2F)

10:20 - 11:50

Chair(s) *Rafael Castillo, Philippines; Gladys Elena Maestre, Venezuela*

Theme1. Should we start antihypertensive treatment with combination therapy?

DB-2-1 **Starting antihypertensive treatment with combination therapy- Pro.**

10:20-10:35 *Alexandre Persu, Belgium*

DB-2-2 **Starting Antihypertensive Treatment with Combination Therapy:**

10:35-10:50 **Con Side of the Argument**

Jan A Staessen, Belgium

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Theme2. Should we stop antihypertensive medications for the end-of-life patients with hypertension?

DB-2-3 **Yes, Antihypertensive strategies in end-of-life old patients**

10:50-11:05 Athanase Benetos, *France*

DB-2-4 **No, we should not stop antihypertensive medications for end-of-life patients with hypertension.**

11:05-11:20 Hiromi Rakugi, *Japan*

ISH Communications Committee Session Room C-1 (1F)

10:20 - 11:20 Controversies in Academia Mini-Debates
Chair(s) Dylan Burger, *Canada*; Quynh Nhu Dinh, *Australia*

Topic1-Social media activity should be incorporated into performance reviews

JS-CC-1 **Pros:**

10:30-10:40 Erika Jones, *South Africa*

JS-CC-2 **Cons:**

10:40-10:50 Erika Jones, *South Africa*

Topic2-Publishing of work through pre-prints should become standard practice

JS-CC-3 **Pros:**

11:00-11:10 Dylan Burger, *Canada*

JS-CC-4 **Cons:**

11:10-11:20 Swapnil Hiremath, *Canada*

Moderators Joseph T. Flynn, *USA*

Brandi Wynne, *USA*

Cesar Romero, *USA*

Session36 Room C-2 (1F)

10:20 - 11:50 Team Approach for Healthy Aged Society
Chair(s) Tomohisa Yamashita, *Japan*; Neusa Jessen, *Mozambique*

S-36-1 **Type of exercise and arterial stiffness**

10:20-10:38 Motohiko Miyachi, *Japan*

Oral Sessions

- S-36-2** **Social framework to promote salt reduction and healthy diets within hypertension and stroke prevention**
 10:38-10:56 Jorge Polonia, *Portugal*
- S-36-3** **Nurses contribution to hypertension**
 10:56-11:14 Lyne Cloutier, *Canada*
- S-36-4** **Strategy of health promotion for health and longevity in Okinawa, Japan**
 11:14-11:32 Yusuke Ohya, Atsushi Sakima
Japan
- S-36-5** **Team-based care to diagnose, treat and control hypertension: Findings from Resolve to Save Lives (RTSL)**
 11:32-11:50 Lawrence J Appel, *USA*

Luncheon Seminar16

Main Hall (1F)

12:10 - 13:10

Chair(s) Kazuyuki Shimada, *Japan*

Sponsor: Novartis Pharma K.K. Medical Affairs Division /
 Otsuka Pharmaceutical Co., Ltd. Medical Affairs

LS16 **Safe and effective treatment of hypertension with ARNI**

Atsuhiko Ichihara, *Japan*

Luncheon Seminar17

Room A (2F)

12:10 - 13:10 Remote Patient Monitoring for Hypertension Management
 Beyond the Pandemic, True Value for the Social and Clinical
 Needs

Chair(s) Richard McManus, *UK*

Sponsor: OMRON Healthcare Co., Ltd.

LS17-1 **Challenges and evidence in remote hypertension management**

Richard McManus, *UK*

LS17-2 **Improving Hypertension Care at the Community Level, Case from London**

Satin Patel, *UK*

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LS17-3 **Practical Considerations for Hypertension Remote Patient Monitoring**

Stephen D Persell, *US*

LS17-4 **Optimal Patients Profiles for the Remote Patient Monitoring, Case from Mount Sinai Health System**

Robert Fields, *US*

Luncheon Seminar18 **Annex Hall 1 (1F)**

12:10 - 13:10 **The importance of home blood pressure: Real World Evidence**
Chair(s) Wang Tzung-Dau, *Taiwan*

Sponsor: Daiichi Sankyo Co., Ltd.

LS18 **The importance of home blood pressure; Highlights from 2022 Scientific Congress**

Bryan Williams, *UK*

Luncheon Seminar19 **Annex Hall 2 (1F)**

12:10 - 13:10 **Diabetes**
Chair(s) Kazutoshi Miyashita, *Japan*

Sponsor: MSD K.K.

LS19 **Effects of the comprehensive management on the prevention of diabetic complications**

Kohjiro Ueki, *Japan*

Luncheon Seminar20 **Room B-1 (2F)**

12:10 - 13:10 **Evolution of Hypertension Management: The Increasing Role of Renal Denervation**
Chair(s) Hiroyoshi Yokoi, *Japan*; Hisashi Kai, *Japan*

Sponsor: Medtronic Japan Co., Ltd.

LS20-1 **Renal Denervation for the Proceduralist: Putting it into Practice**
Jiro Aoki, *Japan*

LS20-2 **Renal Denervation and why it works**
Markus P. Schlaich, *Australia*

Oral Sessions

Luncheon Seminar21		Room C-1 (1F)
12:10 - 13:10	PERFECT 24-HR HYPERTENSION MANAGEMENT UP-TO-DATE AND FUTURE	
Chair(s)	George S. Stergiou, <i>Greece</i> ; Anastasia Susie Mihailidou, <i>Australia</i>	

Sponsor: A&D Company, Limited

LS21-1 Home-Activity ICT-based Japan Ambulatory Blood Pressure Monitoring Prospective study (HI-JAMP)

Kazuomi Kario, *Japan*

LS21-2 Status of ambulatory blood pressure monitoring and home blood pressure monitoring for the diagnosis and management of hypertension in the US

Daichi Shimbo, *USA*

Luncheon Seminar22		Room C-2 (1F)
12:10 - 13:10	Renal Anemia	
Chair(s)	Kunihiro Yamagata, <i>Japan</i>	

Sponsor: Kyowa Kirin Co., Ltd.

LS22 Significance of renal anemia management in cardiovascular diseases -Expectations for HIF-PHIs -

Koichiro Kuwahara, *Japan*

Session37		Main Hall (1F)
14:00 - 15:30	Conventional and Future BP Measurement	
Chair(s)	Deborah Ignacia D. Ona, <i>Philippines</i> ; Yukako Tatsumi, <i>Japan</i>	

S-37-1 Prognostic Utility of Morning Blood Pressure Surge

14:00-14:20 Chen-Huan Chen, *Taiwan*

S-37-2 Circadian rhythm of peripheral and central arterial blood pressures in relation to all-cause mortality

Jianfeng Huang, *China*

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- S-37-3** **Nighttime and Daytime Home Blood Pressure and the Cardiovascular Disease Incidence in Treatment-Resistant Hypertension**
 14:30-14:40 Keisuke Narita, Satoshi Hoshide, Kazuomi Kario
Japan
- S-37-4** **TRANSCATHETER AORTIC VALVE REPLACEMENT DOES NOT RESULT IN SUSTAINED LOAD TRANSFER WITH INCREASED VASCULAR LOAD**
 14:40-14:50 Ning Song, Audrey Adji, Sara Hungerford, Mayooran Namasivayam, Christopher Hayward, Andrew Jabbour, David Muller
Australia
- S-37-5** **How to check whether a blood pressure device has been properly validated for accuracy**
 14:50-15:10 James E. Sharman, *Australia*
- S-37-6** **The promise of cuffless blood pressure monitoring in managing hypertension**
 15:10-15:30 Aletta E. Schutte, *Australia*

Session38		Room A (2F)
14:00 - 16:20	Genetics, Epigenetics, and microRNAs in Hypertension and Cardiovascular Diseases	
Chair(s)	Norihiro Kato, <i>Japan</i> ; Stephen Harrap, <i>Australia</i>	

- S-38-1** **Epigenetic mechanism of salt-sensitive hypertension**
 14:00-14:20 Toshiro Fujita, *Japan*
- S-38-2** **Prevention of experimental genetic hypertension - genomic clues from the kidney.**
 14:20-14:40 Sean Byars, Priscilla Prestes, Vara Suphapimol, Nathan De Vries, Mariana Del Rosso Le Melo, Michelle Maier, Nilesh Samani, Jennifer Wilkinson Berka, Andrew Allen, Fadi Charchar, Stephen Harrap
Australia, UK

Oral Sessions

- S-38-3** **Long noncoding RNA p21 alleviates endothelial progenitor cells damage and promotes endothelial repair in hypertension through enhancing autophagy**
14:40-14:50
Chao Li, Yunlun Li
China
- S-38-4** **Association between DNA methylation age or DNA damage in urinary shedding cells and early CKD**
14:50-15:00
Akihito Hishikawa, Kaori Hayashi, Erina Sugita, Norifumi Yoshimoto, Ran Nakamichi, Eriko Yoshida, Ryoko Shimizu, Hiromasa Takaishi, Hiroshi Itoh
Japan
- S-38-5** **Identification of Ferroptosis-Related Genes in Carotid Atherosclerosis on Bioinformatic Analysis**
15:00-15:10
Qiuqing Cai, *China*
- S-38-6** **Dysfunction of ATP2B1, one of hypertension associated genes, in CD4+ T cells induce colitis through the CD4+ T-cell dysregulation**
15:10-15:20
Amarsanaa Javkhiant, Kensuke Toyama, Masaki Mogi
Japan
- S-38-7** **Continuous non-mutagenic DNA damage in podocytes activates pathogenic memory T cells through altered DNA methylation**
15:20-15:30
Ran Nakamichi, Kaori Hayashi, Akihito Hishikawa, Shunsuke Chikuma, Norifumi Yoshimoto, Erina Sugita, Eriko Yoshida, Hiroshi Itoh
Japan
- S-38-8** **LncRNA PSR Regulates Vascular Remodeling through Encoding a Novel Protein Arteridin**
15:30-15:40
Junyi Yu, Gengze Wu, Jining Yang, Xue Gong, Hao Luo, Zaicheng Xu, Miao Tian, Peili Yang, Qiao Mei, Chen Gao, Bing Zhang, Yibin Wang, Chunyu Zeng
China, USA, Singapore

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S-38-9 **DNA damage repair and DNA methylation in the kidney and CKD**
 15:40-16:00 Kaori Hayashi, Hiroshi Itoh
Japan

S-38-10 **The Non-coding genome in hypertension**
 16:00-16:20 Fadi J. Charchar, *Australia*

ISH2022 Kyoto Best Oral Presentation Award Session		Annex Hall 1 (1F)
14:00 - 16:30		
Chair(s)	Shigeru Shibata, <i>Japan</i> ; Dylan Burger, <i>Canada</i>	
AW-BO-1	Restoration of SIRT3 expression in liver alleviates high-salt-induced hypertension Peng Gao, <i>China</i>	
AW-BO-2	Optimal blood pressure target to prevent severe hypertension in pregnancy: A systematic review and meta-analysis Makiko Abe, <i>Japan</i>	
AW-BO-3	Phenome-wide analysis of a blood pressure polygenic risk score Felix Vaura, <i>Finland</i>	
AW-BO-4	Effect of mineralocorticoid receptor blocker, esaxerenone, on home blood pressure and albuminuria in Japanese hypertensive patients with DKD (EX-DKD Study) Haruhito A. Uchida, <i>Japan</i>	
AW-BO-5	Discovery of neuroendothelial cells and their role in hypertension and aging Georgina Gyarmati, <i>USA</i>	
AW-BO-6	Emergent blood pressure lowering with intravenous nicardipine for Japanese patients with acute intracerebral hemorrhage: an individual participant data analysis Kazunori Toyoda, <i>Japan</i>	

Oral Sessions

- AW-BO-7** **Comparison of third-dose triple versus third-dose dual antihypertensive combination therapies in patients with essential hypertension during 8-week follow-up**
 Soon Jun Hong, *South Korea*
- AW-BO-8** **Hypertensive nephropathy: Glomerular proteomic profiling of kidney biopsies reveals a signature of disease progression**
 Hans-Peter Marti, *Norway*
- AW-BO-9** **SGLT2 inhibitor canagliflozin antagonizes salt-sensitive hypertension through modifying TRPC3 mediated vascular calcium handling**
 Yu Zhao, *China*
- AW-BO-10** **Association of exposure to air pollutants during adolescence with blood pressure in young adulthood**
 Jingjing Wu, *China*

HOPE Asia Joint Session	Annex Hall 2 (1F)
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14:00 - 15:30

Chair(s) Kazuomi Kario, *Japan*; Jiguang Wang, *China*

- JS-HOPE Asia-1** **Comparison of Ethnic Differences of Knowledge, attitudes and practice of salt intake and blood pressure level Malaysia**
 14:00-14:15 Yook-Chin Chia, *Malaysia*
- JS-HOPE Asia-2** **Blood Pressure Variability and Neurodegenerative Diseases**
 14:15-14:30 Yuda Turana, *Indonesia*
- JS-HOPE Asia-3** **Home blood pressure monitoring: evidence behind the 722 protocol**
 14:30-14:45 Tzung-Dau Wang, *Taiwan*
- JS-HOPE Asia-4** **Telemedicine in Hypertension**
 14:45-15:00 Teo Boon Wee, *Singapore*
- JS-HOPE Asia-5** **Adolescent hypertension in Asia**
 15:00-15:15 Narsingh Verma, *India*

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JS-HOPE Asia-6 Masked hypertension and PWV

15:15-15:30 Yan Li, *China*

Session39	Room B-1 (2F)
14:00 - 15:30 Chair(s)	COVID-19 and Hypertension- Myths and Facts <i>Hisashi Kai, Japan; Reinhold Kreutz, Germany</i>
S-39-1	Hypertension and COVID-19 in Japan
14:00-14:20	<u>Kouichi Tamura</u> , Yasushi Matsuzawa, Kazuo Kobayashi <i>Japan</i>
S-39-2	Effects of RAS inhibitors on tissue ACE2 expression in animal models
14:20-14:40	<u>Hisashi Kai</u> , Mamiko Kai <i>Japan</i>
S-39-3	Endothelial inflammation and dysfunction induced by SARS-CoV-2 Spike protein 1 involve ADAM17 and Interferon activation pathways
14:40-14:50	<u>Francisco J Rios</u> , Augusto C Montezano, Livia L Camargo, Rheure A Lopes, Ana B Garcia Redondo, Eliju Aranday Cortes, Ana M Briones, John Mclauchlan, Rhian M Touyz <i>UK, Spain, Canada</i>
S-39-4	Plasma from SARS-CoV-2 Patients Induces Oxidative Stress and Endothelial Dysfunction via Angiotensin II Type 1 Receptor (AT1R)/ P38 MAPK Pathway
14:50-15:00	Moudhi Almutlaq, Fatmah A Mansour, Hassan S Alamri, Fayhan Alroqi, <u>Tlili Barhoumi</u> <i>Saudi Arabia</i>
S-39-5	Factors affecting development of AKI among covid-19 hypertensive patients
15:00-15:10	<u>Intisar Abdelrahim Bashir Omer</u> , Maha Esmail Elamin, Dina Ahmed Hasan <i>Sudan</i>

Oral Sessions

S-39-6 **Diverse biology of human ACE2**

15:10-15:30 Louise Burrell, *Australia*

Sponsored Symposium5

Room B-2 (2F)

14:00 - 15:30 Hypertension paradox & MRB

Chair(s) Sadayoshi Ito, *Japan*

Sponsor: Daiichi Sankyo Co., Ltd.

SS5-1 **Imagination means nothing without doing. Charlie Chaplin**

-Block the receptor, fight salt-

Tatsuo Shimosawa, *Japan*

SS5-2 **New salt concept and significance of MR inhibition**

Akira Nishiyama, *Japan*

SS5-3 **Mineralocorticoid receptor-associated hypertension and its organ damage in diabetes**

Hiroataka Shibata, *Japan*

Session40

Room C-1 (1F)

14:00 - 15:30 Inflammation and Immunity

Chair(s) Tomasz Guzik, *UK*; Daisuke Nagata, *Japan*

S-40-1 **Inflammation and immunity in hypertension**

14:00-14:18 Ernesto L. Schiffrin, *Canada*

S-40-2 **Translating novel inflammatory mechanisms of hypertension to clinical practice - from chronic inflammatory disorders to periodontitis.**

Tomasz Guzik, *UK*

S-40-3 **Memory Gamma Delta T Cells Play a Role in Hypertension**

14:36-14:45 Pierre Paradis, Kevin Comeau, Ernesto L Schiffrin
Canada

Saturday, October 15

- S-40-4** **Angiotensin II-induced blood pressure elevation was potentiated together with increases in interferon-gamma producing T cells in interleukin-23 receptor-deficient mice**
 14:45-14:54 *Pierre Paradis*, Brandon Shokoples, Kevin Comeau, Akinori Higaki, Nathanne S Ferreira, Antoine Caillon, Olga Berillo, Mohamed Oukka, Ernesto L Schiffrin
Canada, USA
- S-40-5** **Role of interferon gamma in T cell mediated salt-retention in the kidney and progression of hypertension**
 14:54-15:03 *Lance N Benson*, Yunmeng Liu, Yunping Guo, Yunzhao Xiong, Katherine Deck, Christoph Mora, Shengyu Mu
USA
- S-40-6** **Activation of Cathepsin S/CXCL1 axis-mediated macrophage and tubular cell crosstalk leads to renal inflammation and fibrosis**
 15:03-15:12 *Xiao-Dong Li*, Shun He, Yuanyuan Lu, Jiguang Wang, Pingjin Gao
China
- S-40-7** **The angiotensin AT2-receptor: New insights into signaling using proteomics**
 15:12-15:30 Ulrike Muscha Steckelings, *Denmark*

RAG Session: SACA		Room C-2 (1F)
14:00 - 15:30		
Chair(s)	<i>Mohammad Ishaq, Pakistan; Feroz Memon, Pakistan</i>	
RAG-SACA-1	Nutritional Risk Factors in SACA region	
14:00-14:15	<i>Mansi V. Patil, India</i>	
RAG-SACA-2	Epidemiology of Hypertension in South Asia	
14:15-14:30	<i>Udaya Ralapanawa, Sri Lanka</i>	
RAG-SACA-3	Role of Primary Care Physician to Manage Hypertension in a Low-resource Setting	
14:30-14:45	<i>Lingkan Barua, Bangladesh</i>	

Oral Sessions

RAG-SACA-4 A five-year summary of the MMM campaign in Nepal

14:45-15:00 Dinesh Neupane, *USA, Nepal*

RAG-SACA-5 Health System Strengthening Activities for Better Hypertension Care

Arun Pulikkottil Jose, *India*

15:15-15:30 **General Discussion**

Featured Presentation4

Main Hall (1F)

15:30 - 16:30

Chair(s) Kazutoshi Miyashita, *Japan*

FP-4 Spirit of Kyoto, spirit of Zen

15:00-16:30 Daiko Matsuyama, *Japan*

Session41

Annex Hall 2 (1F)

15:30 - 17:00 Chronic Kidney Disease (CKD)

Chair(s) Sungha Park, *South Korea*; Masashi Mukoyama, *Japan*

S-41-1 Past, present and future of CKD in Japan

15:30-15:48 Naoki Kashihara, *Japan*

S-41-2 Role of tertiary lymphoid tissues in kidney inflammation

15:48-16:06 Motoko Yanagita, *Japan*

S-41-3 Hypertension and kidney disease in Singapore

16:06-16:24 Teo Boon Wee, *Singapore*

S-41-4 Hypertension and kidney disease progression

16:24-16:42 Marcelo Orias, *USA*

S-41-5 New Insights into the Optimal Antihypertensive Therapy in CKD Patients

Toshihiko Ishimitsu, *Japan*

Saturday, October 15

WiHR Session3		Room B-1 (2F)
15:30 - 17:00	Hypertension in Women	
Chair(s)	Mansi V. Patil, <i>India</i> ; Ching Siew Mooi, <i>Malaysia</i>	
WiHR-3-1	Guidelines for studying sex-differences in hypertension in preclinical models	
15:30-15:52	Kate Denton, <i>Australia</i>	
WiHR-3-2	Adherence and the Management of Hypertension in Women	
15:52-16:14	Erika Jones, <i>South Africa</i>	
WiHR-3-3	May Measurement Month Analysis: Hypertension in Women around the World	
16:14-16:36	Niamh Chapman, <i>Australia</i>	
WiHR-3-4	The Many Knowledge Gaps in the Field of Hypertension in Women	
16:36-16:57	Lizzy M Brewster, <i>Netherlands</i>	

Sponsored Symposium6		Room B-2 (2F)
15:30 - 17:00	SGLT2 inhibitor and Cardio-Renal Interaction	
Chair(s)	Ryuichi Morishita, <i>Japan</i>	
	Sponsor: ONO PHARMACEUTICAL CO., LTD. /AstraZeneca K.K.	
SS6-1	Cardiorenal prognosis-oriented heart failure treatment	
	Motoaki Sano, <i>Japan</i>	
SS6-2	Possible mechanism of renoprotection by SGLT2 inhibitor	
	Akira Nishiyama, <i>Japan</i>	

ISH Mentorship and Training Committee Session		Room C-1 (1F)
15:30 - 17:00	How to Be a Chameleon Researcher and Adapt to Change	
Chair(s)	Quynh Nhu Dinh, <i>Australia</i> ; Robert Gros Muralitharan, <i>Canada</i>	
JS-MT-1	Maintaining an active research career during COVID-19 lockdowns	
15:30-15:40	Yugeesh R Lankadeva, <i>Australia</i>	
JS-MT-2	Networking beyond conferences	
15:40-15:50	Maria Jelinic, <i>Australia</i>	

Oral Sessions

- JS-MT-3** **Transition from PhD student to post-doctoral researcher and supervisor**
15:50-16:00 Cesar Romero, *USA*
- JS-MT-4** **Transition from mentee to mentor**
16:00-16:10 Charlotte Mills, *UK*
- JS-MT-5** **Maintaining an active research career during parenthood: an experienced parent perspective**
16:10-16:20 Nadia A Khan, *Canada*
- JS-MT-6** **Multi-country journeys and adapting to new funding systems**
16:20-16:30 Mariane Bertagnolli, *Canada*

ISH Awards Ceremony, Presidential Lecture and Franz Volhard Award Lecture Main Hall (1F)

17:00 - 18:30

Chair(s) Maciej Tomaszewski, *UK*; Bryan Williams, *UK*; Tomasz Guzik, *UK*

- ISH-PL-1** **ISH Presidential Lecture**
17:00-17:30 **Genetic mechanisms of blood pressure regulation and human hypertension - What have we learnt from kidney multi - omics?**
Maciej Tomaszewski, *UK*
- ISH-PL-2** **Presentation of ISH Awards**
17:30-18:00
- ISH-PL-3** **ISH Franz Volhard Award Lecture**
18:00-18:30 **My Road in Academic Cardiology**
Suzanne Oparil, *USA*

Sunday, October 16

Session42	Main Hall (1F)
7:30 - 9:00	Convergence of Communicable and Non-Communicable Diseases in the Post-COVID-19 Era Chair(s) Junichi Yatabe, <i>Japan</i> ; Anastasia Susie Mihailidou, <i>Australia</i>
S-42-1 7:30-7:50	Lifestyle, psychological, socioeconomic and environmental factors and their impact on hypertension during the COVID-19 pandemic Reinhold Kreutz, <i>Germany</i>
S-42-2 7:50-8:00	COVID-19 and Arterial Stiffness in vaccinated young adults without prior co-morbidities: a cross-sectional analysis of the Fit@4COVID cohort study <u>Telmo Pereira</u> , Charlotta Karlsson, Fabio Lira, Armando Caseiro, Joaquim Castanheira, Ana Faria, Bente Gruner Svealy, Manuel Coelhoesilva <i>Portugal, Brazil, Sweden</i>
S-42-3 8:00-8:10	HIV INFECTION AND ANTIRETROVIRAL THERAPY ARE ASSOCIATED WITH INCREASED ARTERIAL STIFFNESS: A SYSTEMATIC REVIEW AND META-ANALYSIS <u>Alvin Kuate Defo</u> , Mhd Diaa Chalati, Christopher Labos, Lesley K Fellows, Nancy E Mayo, Stella S Daskalopoulou <i>Canada</i>
S-42-4 8:10-8:20	ISOLATED NOCTURNAL HYPERTENSION IN PATIENTS LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS (HIV) <u>Matias G Zanuzzi</u> , Silvina M Lopez, Maximo J Cattaneo, Maria A Perez Maure, Cecile D Lahiri, Cesar A Romero <i>Argentina, USA</i>
S-42-5 8:20-8:30	New onset hypertension and early changes in left ventricular function in post COVID -19 condition <u>Nikolay Tselov</u> , Ani Rasheva, Krasimira Hristova, Kamelia Genova <i>Bulgaria</i>
S-42-6 8:30-8:40	COVID-19 mortality correlates with chronic disease burden among countries' ongoing social development Shuichiro Araki, <i>Japan</i>

Oral Sessions

S-42-7 **Telemedicine for Post-COVID-19 Management of Hypertension**
 8:40-9:00 Midori Yatabe, *Japan*

Session43	Room A (2F)
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7:30 - 9:00	Generation and Life Course Factors in Hypertension
Chair(s)	Anna F. Dominiczak, <i>UK</i> ; Yoshihiro Kokubo, <i>Japan</i>

S-43-1 **The changing epidemiology of hypertension in children and adolescents.**
 7:30-7:46 Empar Lurbe, *Spain*

S-43-2 **Preterm birth: A new risk factor for adult hypertension**
 7:46-8:02 Anne Monique Nuyt, *Canada*

S-43-3 **Intrauterine growth restriction causes an alteration in kidney gene expression**
 8:02-8:11 Suttira Intapad, *USA*

S-43-4 **Central adiposity in childhood increases the likelihood of early vascular aging**
 8:11-8:20 Ruan Kruger, Kebiditswe Lesego Masike, Aletta Sophia Uys, Yolandi Breet
South Africa

S-43-5 **A prospective observation for orthostatic dysregulation and intolerance in adolescence: Study Protocol of the Suita Offspring Study**
 8:20-8:29 Rena Kashima, Yoshihiro Kokubo, Ahmed Arafa, Masayuki Teramoto, Akane Nakai, Yukie Sakai, Saya Nosaka, Yuka Yasui, Miho Kogirima, Yoshiaki Kato, Yasuhiko Sakata
Japan

S-43-6 **Hypertension from Childhood to Adulthood: the BT20+ Study**
 8:29-8:45 Juliana Kagura, Romain Meer, Daniel Boateng, Kerstin Klipstein-Grobusch, Shane Anthony Norris
South Africa, The Netherlands

Sunday, October 16

- S-43-7** **Hypertension in adolescents and young people: opportunities for intervention in South Africa**
 8:45-9:01 Erika Jones, *South Africa*

Session44	Annex Hall 1 (1F)
7:30 - 9:00	Healthy Diet and Cardio-Metabolic Diseases-1
Chair(s)	Rudy M. Ortiz, <i>USA</i> ; Maria Castañeda-Bueno, <i>Mexico</i>

- S-44-1** **Salting a bird's tail**
 7:30-7:50 Tatsuo Shimosawa, *Japan*
- S-44-2** **Antihypertensive effect of galangin in renal artery stenosis-induced hypertensive rats**
 7:50-8:00 Nisita Chaihongsa, Weerapon Sangartit, Siwayu Rattanakanokchai, Sarawoot Bunbupha, Poungrat Pakdeechote, Putcharawipa Maneesai
Thailand
- S-44-3** **Gender Difference in the Association of Dietary Calcium Intake with Blood pressure: Analysis of the NHANES 2017 - 2020**
 8:00-8:10 Ekamol Tantisattamo, Chalothorn Wannaphut, Phuuwadith Wattanachayakul, Nattanicha Chairsimaneepan, Pakin Lalitnithi, Chawin Lopimpisuth, Watsachon Pangkanon, Chanattha Thimphitthaya, Piengpitch Naunsilp
USA, Thailand
- S-44-4** **Post-stroke supplementation with short-chain fatty acids accelerates recovery in mice via the G-protein coupled receptors**
 8:10-8:20 Alex Peh, Evany Dinakis, Charles R Mackay, Brad Rs Broughton, Francine Z Marques
Australia
- S-44-5** **Relations of age, visceral fat area, HOMA-R, and lifestyle habits with hypertension in the comprehensive health checkup program**
 8:20-8:30 Hiroshi Hirose, Ryoko Shimizu, Masaaki Mori
Japan

Oral Sessions

- S-44-6** **Assessing the effect of simple carbohydrate restricted diet on blood pressure levels of hypertensive**
8:30-8:40 **blood pressure levels of hypertensive**
Mansi V. Patil, Vishal S Patil
India
- S-44-7** **Caloric Restriction and Blood Pressure Regulation during Metabolic Syndrome**
8:40-9:00 **Syndrome**
Rudy M. Ortiz, *USA*

WHL-ISH-Lancet Commission on Hypertension Joint Session Annex Hall 2 (1F)

7:30 - 8:30 **VALIDITY OF AUTOMATED BLOOD PRESSURE MEASUREMENT DEVICES IN CLINICAL PRACTICE AND PUBLIC HEALTH. A GLOBAL NEED FOR MORE PRECISE HYPERTENSION MANAGEMENT**

Chair(s) Paul K. Whelton, *USA*; Gianfranco Parati, *Italy*

JS-WHL-ISH-Lancet-1 **Introduction by Chairpersons: BP Measurement in the history and in the Guidelines**
7:30-7:35 **Introduction by Chairpersons: BP Measurement in the history and in the Guidelines**
Gianfranco Parati, *Italy*

JS-WHL-ISH-Lancet-2 **What constitutes an acceptable test of clinical validity?**
7:35-7:45 **What constitutes an acceptable test of clinical validity?**
James E. Sharman, *Australia*

JS-WHL-ISH-Lancet-3 **How can clinicians and the public determine whether a blood pressure measuring device is clinically valid?**
7:45-7:55 **How can clinicians and the public determine whether a blood pressure measuring device is clinically valid?**
George S. Stergiou, *Greece*

JS-WHL-ISH-Lancet-4 **VALIDITY OF AUTOMATED BPMD IN CLINICAL PRACTICE AND PUBLIC HEALTH. A GLOBAL NEED FOR HYPERTENSION MANAGEMENT**
7:55-8:05 **VALIDITY OF AUTOMATED BPMD IN CLINICAL PRACTICE AND PUBLIC HEALTH. A GLOBAL NEED FOR HYPERTENSION MANAGEMENT**
Pedro Ordunez, Cintia Lombardi
USA

JS-WHL-ISH-Lancet-5 **How to ensure the sale of clinically validated BP devices in low- and middle-income countries**
8:05-8:15 **How to ensure the sale of clinically validated BP devices in low- and middle-income countries**
Aletta E. Schutte, *Australia*

8:15-8:30 **Discussion**

Sunday, October 16

Session45		Room B-1 (2F)
7:30 - 8:30	Onco-Hypertension	
Chair(s)	Hidehiro Kaneko, <i>Japan</i> ; Rhian M. Touyz, <i>Canada</i>	
S-45-1	Onco-Hypertension : concept and future perspectives	
7:30-7:48	Satoshi Kidoguchi, <i>Japan</i>	
S-45-2	The Evaluation of Left Ventricular Geometry and Left Ventricular Ejection Fraction between Cancer Patients Before and After Chemotherapy	
7:48-7:56	<u>Niyata Hananta Karunawan</u> , Iin Irnawati Jusuf, Alvin Tonang, Zulfahmi Wahab, Rheno Rachmandita, William Alfred Lopian Pandeiro <i>Indonesia</i>	
S-45-3	PARP inhibition ameliorates VEGF inhibitor-associated vascular dysfunction via TRPM2	
7:56-8:04	<u>Karla Bianca Neves</u> , Rheure Alves Lopes, Ninian Lang, Augusto C Montezano, Rhian M Touyz <i>UK, Canada</i>	
S-45-4	The effects of handgrip stress test on hemodynamic parameters in patients with hypertension and diastolic heart failure	
8:04-8:12	<u>Krasimira Hristova</u> , Nikolay Tselov, Svetlin Tsonev, Rumen Marinov, Boris Slavchev, Galina Zlatancheva, Toni Velikov, Vasil Stoyanovski <i>Bulgaria</i>	
S-45-5	Onco-hypertension; Hypertension, antihypertensives and the cancer	
8:12-8:30	Wook Bum Pyun, <i>South Korea</i>	

Session46		Room B-2 (2F)
7:30 - 9:00	Evidence and Perspective of White-coat Hypertension and Masked Hypertension	
Chair(s)	Deborah Ignacia D. Ona, <i>Philippines</i> ; Wakako Kawarazaki, <i>Japan</i>	
S-46-1	White-coat Hypertension and Masked Hypertension: Overall Evidence and Perspective from USA	
7:30-7:50	Daichi Shimbo, <i>USA</i>	

Oral Sessions

- S-46-2** **Daytime maximum ambulatory blood pressure and risk of stroke in individuals with increased ambulatory arterial stiffness index: the JAMP study**
7:50-8:00
Satoshi Hoshide, Naoko Tomitani, Kazuomi Kario
Japan
- S-46-3** **Antihypertensive treatment in masked hypertension for target organ protection (ANTI-MASK): A randomized, double-blind, placebo-controlled trial**
8:00-8:10
Jianfeng Huang, Dongyan Zhang, Dewei An, Mingxuan Li, Xin Chen, Yingqing Feng, Qidong Zheng, Yan Li, Jiguang Wang
China
- S-46-4** **Nondipper pulse rate pattern was associated with blood pressure variability and increase of BNP: J-HOP study**
8:10-8:20
Tomoyuki Kabutoya, Satoshi Hoshide, Kazuomi Kario
Japan
- S-46-5** **The intra-week variability on home blood pressure with or without antihypertensive medication: Nose Study**
8:20-8:30
Mio Kubo, Kayo Godai, Mai Kabayama, Arisa Wada, Michiko Kido, Sumiyo Hashimoto, Makiko Higashi, Hiromi Hatanaka, Takeshi Kikuchi, Takayuki Dodo, Yasuharu Tabara, Kei Asayama, Takayoshi Ohkubo, Hiromi Rakugi, Kei Kamide
Japan
- S-46-6** **Comparing Office, Central, Home and Ambulatory Blood Pressure in Predicting Left Ventricular Mass**
8:30-8:50
Lucas S Aparicio, Veronica Andrea Peuchot, Diego Hernan Giunta, Rocio Martinez, Jessica Barochiner
Argentina

Sunday, October 16

Morning Seminar5		Room C-1 (1F)
7:30 - 8:30	Prevention of Cardiovascular Events in Patients with Hypertension	
Chair(s)	Masataka Sata, <i>Japan</i> ; Tatsuya Morimoto, <i>Japan</i>	

Sponsor: Japan Cardiovascular Association

MS5-1 Nocturnal Hypertension and Heart Failure

Kazuomi Kario, *Japan*

MS5-2 How to prevent future development of HFpEF by pharmacotherapy

Thomas Kahan, *Sweden*

Session47		Main Hall (1F)
9:00 - 10:30	AI and Big Data Analysis in the Management of Hypertension	
Chair(s)	Masanari Kuwabara, <i>Japan</i> ; Hirotsugu Ueshima, <i>Japan</i>	

S-47-1 The Potential of AI in Hypertension Treatment

9:00-9:16 Yasushi Okuno, *Japan*

S-47-2 Diagnosis of primary aldosteronism using artificial intelligence.

9:16-9:32 Graeme Eisenhofer, *Germany*

S-47-3 Application of AI for screening cardiovascular disease

9:32-9:48 Nobuyuki Kagiyama, *Japan*

S-47-4 The burden of cardiovascular disease attributable to high systolic blood pressure across China and its provinces from 2005 to 2018

9:48-9:58 Xue Cao, Zhenping Zhao, Yuting Kang, Yixin Tian, Yuxin Song, Liming Wang, Yuna He, Linfeng Zhang, Zuo Chen, Congyi Zheng, Lu Chen, Zhen Hu, Haoqi Zhou, Maigeng Zhou, Zengwu Wang
China

S-47-5 Current Status of Hypertension in Korea: a nationwide population-based study

9:58-10:14 Hyeon Chang Kim, Hokyoo Lee, Hyeok-Hee Lee
South Korea

Oral Sessions

- S-47-6** **Big Data and Real-world Data for Hypertension Management in the Era of Digital Health**
 10:14-10:30 Mihoko Okada, *Japan*

Session48	Room A (2F)
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9:00 - 10:30	Exercise & Sarcopenia
Chair(s)	Hidenori Urata, <i>Japan</i> ; Thomas Kahan, <i>Sweden</i>

- S-48-1** **Exercise training considering the characteristics of Sarcopenia and Frailty**
 9:00-9:18 Tetsuya Takahashi, Miho Yokoyama, Tomoyuki Morisawa, Masakazu Saitoh, Tihru Minamino, Hiroyuki Daida
Japan

- S-48-2** **Energy expenditure and physical activity in life style-related diseases**
 9:18-9:36 Fuminori Katsukawa, *Japan*

- S-48-3** **Physical activity and healthy aging**
 9:36-9:54 Hiroyuki Shimada, *Japan*

- S-48-4** **Physical frailty in hypertension management**
 9:54-10:12 Koichi Yamamoto, *Japan*

- S-48-5** **Vascular Ageing and Exercise**
 10:12-10:30 Rachel Climie, *Australia*

Session49	Annex Hall 1 (1F)
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9:10 - 10:30	Healthy Diet and Cardio-Metabolic Diseases-2
Chair(s)	Bruce Neal, <i>Australia</i> ; Megumi Fujita, <i>Japan</i>

- S-49-1** **Nutrition, Cardio-metabolic Risk and the Metabolome**
 9:10-9:30 Paul Elliott, *UK*

- S-49-2** **Recent evidence on mediterranean diet and blood pressure control**
 9:30-9:50 Costas Tsioufis, *Greece*

Sunday, October 16

- S-49-3** **The association between calf circumference and mid-upper arm circumference and prevalence of hypertension: Findings from the PURE China Study**
 9:50-10:00 Xinyue Lang, Wei Li
China
- S-49-4** **Urinary Biomarker Analyses on Japanese, Mediterranean and Euro-Western Populations: Which is Better for Post-pandemic Longevity?**
 10:00-10:10 Yukio Yamori, Miki Sagara, Hideki Mori, Mari Mori
Japan
- S-49-5** **Practical and personal education of dietary therapy in hypertensive patients**
 10:10-10:30 Takuya Tsuchihashi, *Japan*

Sponsored Symposium7

Annex Hall 2 (1F)

9:00 - 10:30	A Novel Nutritional Approach for a Sustainable and Healthy Society
Chair(s)	Atsushi Sakima, <i>Japan</i> ; Katsuyuki Miura, <i>Japan</i>

Sponsor: Ajinomoto Co., Inc.

- SS7-1** **A Novel Profiling System: Challenges and Opportunities for a Comprehensive Food Scoring**
 Dariush Mozaffarian, *USA*
- SS7-2** **A Salt Reduction Initiative without Compromising Taste**
 Hitomi Hayabuchi, *Japan*
- SS7-3** **An Alternative Japanese Approach to Reducing Sodium while Enhancing Taste and Desirability**
 Shuhei Nomura, *Japan*

Oral Sessions

AHA Session Clinical Case; Clinical-Pathological Conference (CPC) in cooperation with Hypertension, AN AMERICAN HEART ASSOCIATION JOURNAL Room B-1 (2F)

9:00 - 10:00 Recurring Secondary Hypertension: Not Always the Same Cause

Chair(s) Meena S. Madhur, *USA*; Tazeen Jafar, *Singapore*

JS-AHA-1 Elvira Fanelli, *Italy*

9:00-9:30

JS-AHA-2 Alexandre Persu, *Belgium*

9:30-10:00

Session50 Room B-2 (2F)

9:00 - 10:30 Biomarkers for Hypertension Management

Chair(s) Tatsuo Shimosawa, *Japan*; Daniel Piskorz, *Argentina*

S-50-1 Increased fibroblast growth factor-21 in chronic kidney disease is a trade-off between survival benefit and blood pressure dysregulation

9:00-9:20

Makoto Kuro-o, *Japan*

S-50-2 UltraFast LC-MS analysis for the chemical adherence testing: sub minute run times for a panel of nine cardiometabolic medications

9:20-9:30

Dan Lane, Leong Ng, Donald JI Jones, Pankaj Gupta
UK

S-50-3 MICROSAMPLING BASED MASS SPECTROMETRY FOR QUANTIFICATION OF ANGIOTENSIN PEPTIDES IN THE RENIN ANGIOTENSIN ALDOSTERONE SYSTEM

9:30-9:40

Dennis Bernieh, Dan Lane, Henry Gill, Don Jones, Pankaj Gupta
UK

S-50-4 Increased plasma neurofilament light and cerebral atrophy in patients with type 2 diabetes and left ventricular hypertrophy

9:40-9:50

Sheila K Patel, Carolina Restrepo, Mohamed Khlif, Emilio Werden, Jay Ramchand, Piyush M Srivastava, Richard J Macisaac, Elif I Ekinci, Louise M Burrell, Amy Brodtmann
Australia

Sunday, October 16

S-50-5 **Salt sensitivity as marker for hypertension management**
 9:50-10:10 Chiara Livia Lanzani, Lorena Citterio, Marco Simonini, Zagato Laura,
 Manunta Paolo
Italy

S-50-6 **How to Assess Beneficial Effects of Antihypertensive Treatments**
 10:10-10:30 Daniel Piskorz, *Argentina*

Session51	Room C-1 (1F)
9:00 - 10:30 Chair(s)	Role of the Sympathetic Nervous System in Hypertension Yoshitaka Hirooka, <i>Japan</i> ; Richard Wainford, <i>USA</i>
S-51-1 9:00-9:20	Sympathetic Regulation of Salt Sensitivity Richard Wainford, <i>USA</i>
S-51-2 9:20-9:40	Role of the sympathetic nervous system in hypertension: Focused on the central nervous system Yoshitaka Hirooka, <i>Japan</i>
S-51-3 9:40-9:50	Empagliflozin ameliorates cardiac hypertrophy and renal injury with sympathoinhibition in a rat model of hypertensive heart failure <u>Sho Matsumoto</u> , Keisuke Shinohara, Shota Ikeda, Soichiro Kashihara, Ryosuke Nakashima, Daisuke Yoshida, Yoshiyasu Ono, Hiroyuki Tsutsui <i>Japan</i>
S-51-4 9:50-10:00	Renal denervation improves fluid retention by modulating renal SGLT2 function in rats with heart failure <u>Kenichi Katsurada</u> , Shyam S Nandi, Kaushik P Patel, Kazuomi Kario <i>Japan, USA</i>
S-51-5 10:00-10:10	Different contribution of afferent renal nerves to development of hypertension and hypertensive heart failure in several rat models of hypertension <u>Keisuke Shinohara</u> , Shota Ikeda, Ryosuke Nakashima, Sho Matsumoto, Daisuke Yoshida, Yoshiyasu Ono, Hiroyuki Tsutsui <i>Japan</i>

Oral Sessions

- S-51-6** **Renovascular hypertension and brain: role of the renin-angiotensin system and sodium**
 10:10-10:30 *Débora Simões Almeida Colombari, Brazil*

Session52	Room C-2 (1F)
9:00 - 10:00	Top Rated Abstract Session
Chair(s)	Gianfranco Parati, <i>Italy</i> ; Yasuharu Tabara, <i>Japan</i>

- S-52-1** **Cardiovascular outcomes in hypertensive patients who discontinue study medication in a large outcome trial. The LIFE Study.**
 9:00-9:10 Kristian Wachtell, Stevo Julius, Peter M Okin, Anders M Greve, Richard B Devereux, Suzanne Oparil, Sverre Erik Kjeldsen, Kurt Boman
USA, Denmark, Norway, Sweden

- S-52-2** **PARAMETERS INDICATING HYPERTENSION PREVALENCE IN THREE-YEAR FOLLOW-UP STUDY OF INDIVIDUALS WITH HIGH NORMAL BLOOD PRESSURE**
 9:10-9:20 Theodoros Kalos, Kyriakos Dimitriadis, Ioannis Andrikou, Eleni Manta, Christos Fragoulis, Dimitris Konstantinidis, Fotis Tatakis, Ioannis Leontsinis, Emmanouil Matzouranis, Maria Kariori, Drogaris Sotiris, Dimitris Polyzos, Christina Filippou, Kostas Tsioufis
Greece

- S-52-3** **Role of novel echocardiographic methods to detect early myocardial dysfunction in women with preeclampsia**
 9:20-9:30 Krasimira Atanasova Hristova, Nikolay Tselov, Rumen Marinov, Georgi Stamenov, Kristina Chacheva, Marina Michova, Daniel Georgiev, Jeni Panayotova, Sanina Persenska, Neli Dimova, Anelia Racheva
Bulgaria

Sunday, October 16

- S-52-4** **Blood pressure categories and progression of common carotid artery stenosis degree in a Japanese urban population: The Suita Study**
 9:30-9:40
Masayuki Teramoto, Yoshihiro Kokubo, Rena Kashima, Ahmed Arafa, Keiko Shimamoto, Qi Gao, Hiroharu Kataoka, Koji Iihara
Japan, Egypt
- S-52-5** **MEASURING DRUG LEVELS USING A DRIED BLOOD SPOT COMBINED WITH PERSONALIZED FEEDBACK TO IMPROVE RESISTANT HYPERTENSION: A RANDOMIZED CONTROLLED TRIAL**
 9:40-9:50
Laura Elizabeth Johanna Peeters, Mariette HW Kappers, Dennis A Hesselink, Teun van Gelder, Birgit CP Koch, Jorie Versmissen, RHYME RCT research group
The Netherlands
- S-52-6** **Hypertension and its Complications are common in a low Resource Specialty clinic in Nigeria**
 9:50-10:00
Umar Gati Adamu, Tanko Musa, Aisha Abdullahi, Idogonsit Okon Ibok
Nigeria, South Africa

Session53	Main Hall (1F)
11:10 - 12:40 Chair(s)	SDGs and Hypertension Mitsuru Ohishi, <i>Japan</i> ; Nadia A. Khan, <i>Canada</i>
S-53-1 11:10-11:26	Socioeconomic factors and prevention of cardiovascular diseases in Asia Rajeev Gupta, <i>India</i>
S-53-2 11:26-11:42	The burden of uncontrolled hypertension in Cameroon, Africa Anastase Dzudie, <i>Cameroon</i>
S-53-3 11:42-11:58	Development of risk scores to prevent cardiovascular diseases <u>Yoshihiro Kokubo</u> , Rena Kashima, Masayuki Teramoto, Ahmed Arafa, Keiko Shimamoto, Saya Nosaka, Saori Maeda, Haruna Kawachi, Yuka Yasui, Chisa Matsumoto, Emi Watanabe, Yukie Sakai <i>Japan, Egypt</i>

Oral Sessions

- S-53-4** **Hypertension and its associations with multimorbidity: an analysis of 4 million participants from May Measurement Month 2017-2019**
 11:58-12:08 Carolina Janssen, Wei Wang, Markus Schlaich, Aletta E Schutte, George Stergiou, Neil R Poulter, Thomas Beaney
UK, Australia, Greece
- S-53-5** **Building a monolith of cardiovascular care - the medical DX and patient well-being**
 12:08-12:24 Yasuko K Bando, *Japan*
- S-53-6** **Analysis of BP screening in Pakistan (MMM experience)**
 12:24-12:40 Mohammad Ishaq, *Pakistan*

Session54	Room A (2F)
11:10 - 12:40 Chair(s)	Global Effort to Promote Low-Salt, Potassium-Rich Diet <u>Yoshihiro Taniyama</u> , <i>Japan</i> ; <u>Enrico Agabiti-Rosei</u> , <i>Italy</i>
S-54-1 11:10-11:28	Effect of Salt Substitution on Cardiovascular Events and Death Bruce Neal, <i>Australia</i>
S-54-2 11:28-11:46	Role of the thiazide-sensitive Na⁺:Cl⁻ cotransporter in the blood pressure-lowering effect of potassium rich diets. Maria Castañeda-Bueno, <i>Mexico</i>
S-54-3 11:46-11:55	Prediction and prevention of the onset of hypertension from the viewpoint of estimated 24-hour salt excretion and physical fitness test <u>Kiminori Kato</u> , Tomoaki Ishigami, Hirohito Sone <i>Japan</i>
S-54-4 11:55-12:04	Dietary salt intake assessed by spot urinary sodium excretion from child to adulthood in a Japanese town <u>Naoki Nakagawa</u> , Yuka Matsuo, Naoyuki Hasebe <i>Japan</i>

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S-54-5 **Changes in estimated salt and potassium intake and sodium-to-potassium ratio using spot urine measurements: a 10-year follow-up of NIPPON DATA2010**

12:04-12:13

Kaori Kitaoka, Aya Kadota, Yukiko Okami, Keiko Kondo, Akiko Harada, Katsushi Yoshita, Yuichiro Yano, Takayoshi Ohkubo, Tomonori Okamura, Akira Okayama, Kasuyuki Miura
Japan

S-54-6 **Sarcocornia-based salt substitution and vascular function in healthy young adults: a randomized and controlled pilot study**

12:13-12:22

Telmo Pereira, Armando Caseiro, Aida Silva, Maria Barroca, Ana Faria
Portugal

S-54-7 **Urinary Na/K ratio as the risk marker for essential hypertension**

12:22-12:40

Yasuharu Tabara, *Japan*

Session55	Annex Hall 1 (1F)
11:10 - 12:40 Chair(s)	Progress and Future in Primary Aldosteronism Hirotaaka Shibata, <i>Japan</i> ; Erika Jones, <i>South Africa</i>

S-55-1 **Primary Aldosteronism - Where to from Here?**

11:10-11:30

John W. Funder, *Australia*

S-55-2 **Steroid Profiling in Primary Aldosteronism - From Back and White to Colors**

11:30-11:50

Adina Turcu, *USA*

S-55-3 **Mineralocorticoid Receptor Antagonists Improve Quality of Life in Patients with Primary Aldosteronism**

11:50-12:00

Nao Imaishi, Yuichi Yoshida, Kanako Shibuta, Shotaro Miyamoto, Yoshinori Ozeki, Mitsuhiro Okamoto, Koro Gotoh, Takayuki Masaki, Hirotaaka Shibata
Japan

S-55-4 **Histopathology-Genotype Correlation of Aldosterone- Producing Adenomas**

12:00-12:20

Elena Aisha Azizan, *Malaysia*

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S-55-5 **CT guided and transvenous radiofrequency ablation for primary aldosteronism**
 12:20-12:40 Kei Takase, *Japan*

ISH-JSH Hypertension Research Editorial Committee Session Annex Hall 2 (1F)

11:10 - 12:40 Hypertension Research Up-To-Date 2021. ~Current Topics of Hypertension Journals.~
 Chair(s) Satoshi Hoshide, *Japan*; Masaki Mogi, *Japan*

JS-HR-1 **Update of vascular function**
 11:10-11:17 Tatsuya Maruhashi, Yukihito Higashi
Japan

JS-HR-2 **Hypertension management in CKD: update for better cardio-renal outcomes**
 11:17-11:24 Takahiro Masuda, Daisuke Nagata
Japan

JS-HR-3 **Heart Disease-Focus on Left Atrium Structure-**
 11:24-11:31 Michiaki Nagai, *Japan*

JS-HR-4 **Preeclampsia up to date; what we should know for mother and child.**
 11:31-11:38 Kanako Bokuda, Atsuhiko Ichihara
Japan

JS-HR-5 **Appropriate blood pressure assessment methods for the prevention of hypertension complications by new technologies**
 11:38-11:45 Yoichi Nozato, *Japan*

JS-HR-6 **considering frailty and exercise for management of hypertension and hypertensive organ damage**
 11:45-11:52 Ayumi Toba, *Japan*

JS-HR-7 **Blood Pressure Variability; Therapeutic Target for the Prevention of Cardiovascular Disease**
 11:52-11:59 Keisuke Narita, *Japan*

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- JS-HR-8** **Progress of Obesity/Diabetes in Area of Hypertension Research 2021**
 11:59-12:06 Atsushi Tanaka, Koichi Node
Japan
- JS-HR-9** **A new era of progress in primary aldosteronism treatment, a new aldosterone assay, and a Clinical Practice Guideline**
 12:06-12:13 Yuichi Yoshida, Hiroataka Shibata
Japan
- JS-HR-10** **Advances in renal denervation for treating hypertension**
 12:13-12:20 Kenichi Katsurada, *Japan*
- JS-HR-11** **Hot topics in uric acid research**
 12:20-12:27 Masanari Kuwabara, Takahide Kodama
Japan
- JS-HR-12** **Basic research: elucidation of "mosaic" pathogenesis of hypertension**
 12:27-12:34 Keisuke Shinohara, *Japan*

Session56	Room B-1 (2F)
11:10 - 12:40	Management of Hypertension Using ICT and Personal Health Record
Chair(s)	Fadi J. Charchar, <i>Australia</i> ; Emi Ushigome, <i>Japan</i>

- S-56-1** **Clinical trials of telemonitoring to support the management of hypertension in primary care and pregnancy**
 11:10-11:30 Richard McManus, *UK*
- S-56-2** **Home blood pressure measurement for hypertension management in the real world: The importance of reporting home blood pressure to doctors**
 11:30-11:40 Moo Yong Rhee, Je Sang Kim, Ki Bum Won, Ji Hyun Kim, Ungeong Do, Hae Young Kim, Deuk Young Nah
South Korea

Oral Sessions

- S-56-3** **Response of community residents to promotion of recommending home blood pressure measurement and factors associated with everyday-measurement:NOSE study**
11:40-11:50 Arisa Wada, Mai Kabayama, Kayo Godai, Michiko Kido, Sumiyo Hashimoto, Makiko Higashi, Hiromi Hatanaka, Takeshi Kikuchi, Takayuki Dodo, Kei Asayama, Takayoshi Ohkubo, Hiromi Rakugi, Yasuharu Tabara, Kei Kamide
Japan
- S-56-4** **ESTABLISHING A NEPHROLOGY-LED AMBULATORY BLOOD PRESSURE MONITORING SERVICE IN SINGAPORE**
11:50-12:00 Umer Farooq Khan, Matthew Ross Dcosta, Clara Lee Ying Nghoh
Singapore
- S-56-5** **Blood pressure telemonitoring for detecting cardiovascular disorders**
12:00-12:20 Thomas Kahan, *Sweden*
- S-56-6** **Home blood pressure survey in Southeast and East Asia**
12:20-12:40 Tzung-Dau Wang, *Taiwan*

Session57

Room B-2 (2F)

11:10 - 12:40 **The Gut Microbiota in Blood Pressure Regulation**
Chair(s) Dominik Müller, *Germany*; Masataka Sata, *Japan*

- S-57-1** **Guidelines for gut microbiota studies in experimental and clinical hypertension**
11:10-11:28 Francine Z Marques, *Australia*
- S-57-2** **The gut microbiome and cardiovascular risk factors in humans**
11:28-11:46 Ana Maria Valdes, *UK*

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- S-57-3** **GUT MICROBIAL METABOLITES LOWER 24-HOUR SYSTOLIC BLOOD PRESSURE IN HYPERTENSIVE PATIENTS**
11:46-11:55 Hamdi Jama, Dakota Rhysjones, Michael Nakai, Chu K K Yao, Rachel E Climie, Yusuke Sata, Dovile Anderson, Darren J Creek, Geoffrey A Head, David M Kaye, Charles Mackay, Jane Muir, Francine Z Marques
Australia
- S-57-4** **The role of oral L-tyrosine, metabolised by the gut microbiota into p-Cresol derived metabolites, in blood pressure regulation**
11:55-12:04 Chudan Xu, Joanne A O Donnell, Evany Dinakis, Liang Xie, Michael Nakai, Chris Barlow, Francine Z Marques
Australia
- S-57-5** **Gut microbiome diversity and brain volume among general Japanese men**
12:04-12:13 Sabrina Ahmed, Yuichiro Yano, Zhang Hexun, Yukiko Okami, Nazar Mohd Azahar, Keiko Kondo, Hisatomi Arima, Sayuki Torii, Mohammad Moniruzzaman, Aya Kadota, Akira Andoh, Akihiko Shiino, Hirotsugu Ueshima, Katsuyuki Miura
Japan
- S-57-6** **Obstructive Sleep Apnea Induced Gut Dysbiosis Stimulates a Proinflammatory Response that Promotes Neuroinflammation and Hypertension**
12:13-12:22 Sriram Ayyaswamy, Bojun Zhang, Huanan Shi, Robert Bryan, David Durgan
USA
- S-57-7** **How the gut microbiota regulates blood pressure: the role of the immune system**
12:22-12:40 Dominik Müller, *Germany*

Oral Sessions

		Room C-1 (1F)
11:10 - 12:40	Fibromuscular Dysplasia (FMD) in Asia: A Disease to (Re) discover	
Chair(s)	Osami Kawarada, <i>Japan</i> ; Alexandre Persu, <i>Belgium</i>	
JS-FMD-1	The International Consensus on FMD	
11:10-11:22	Alexandre Persu, <i>Belgium</i>	
JS-FMD-2	Asian vs. Caucasian patients in the European/International FMD Registry (FEIRI)	
11:22-11:34	Elvira Fanelli, <i>Italy</i>	
JS-FMD-3	FMD in Asia: the Kyoto experience	
11:34-11:46	Kan Zen, <i>Japan</i>	
JS-FMD-4	FMD in Asia: the Shanghai experience	
11:46-11:58	Jianzhong Xu, <i>China</i>	
JS-FMD-5	Differential diagnosis of FMD in Asia- vascular surgeons' viewpoint	
11:58-12:10	Kentaro Matsubara, <i>Japan</i>	
JS-FMD-6	Renovascular Hypertension in Japan: FMD vs. Atherosclerotic Renal Artery Stenosis	
12:10-12:22	Osami Kawarada, <i>Japan</i>	
JS-FMD-7	General Discussion	
12:22-12:40		

Session58		Room C-2 (1F)
11:10 - 12:10	Cuffless Blood Pressure Measurement: Has the Time Come?	
Chair(s)	Jiguang Wang, <i>China</i> ; Kei Asayama, <i>Japan</i>	
S-58-1	Patient perspectives of a cuffless blood pressure device compared to classic out-of-clinic methods	
11:10-11:20	<u>Sonali Rukshana Gnanenthiran</u> , Hueiming Liu, Isabella Tan, Justine Chan, Markus P Schlaich, Aletta E Schutte <i>Australia</i>	

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- S-58-2** **Cuffless wearable 24-hour blood pressure monitoring versus standard ambulatory monitoring**
11:20-11:30 Isabella Tan, Sonali R Gnanenthiran, Justine Chan,
Konstantinos G Kyriakoulis, Markus P Schlaich, George S Stergiou,
Aletta E Schutte
Australia, Greece
- S-58-3** **How could continuous cuffless automated blood pressure measurement devices contribute to hypertension management?**
11:30-11:50 Gianfranco Parati, *Italy*
- S-58-4** **Are cuffless blood pressure measuring devices ready for clinical use?**
11:50-12:10 George S. Stergiou, *Greece*