



# SCIENTIFIC PROGRAMME

The ESH 2022 Scientific Programme is still preliminary and subject to changes.

Please note that all times refer to the Greek Time Zone in June 2022: EEST (Eastern European Summer Time)

## FRIDAY, JUNE 17

**13:00-14:30**

### MITROPOULOS ROOM

Meeting of the ESH Working Group on Small Arteries

**SEXUAL DYSFUNCTION, MICROCIRCULATION, AND INFLAMMATION**

Chairpersons: A. Virdis (Pisa, ITALY), M. Viigimaa (Tallin, ESTONIA)

**13:00-13:20** Interactions between erectile dysfunction, cardiovascular disease and cardiovascular drugs  
D. Terentes-Printzios (Athens, GREECE)

**13:20-13:40** Androgens and cardiovascular risk throughout the life course: focus on vascular inflammation  
R. Touyz (Montréal, Québec, CANADA)

**13:40-14:00** Inflammatory mechanisms of sexual dysfunction  
T. Guzik (Glasgow, UNITED KINGDOM)

**14:00-14:20** Recent research in sexual dysfunction  
K. Stavropoulos

**14:20-14:30** General Discussion

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**13:00-14:30**

### SKALKOTAS ROOM

Meeting of the ESH Working Group on Hypertension and the Brain

**RESEARCH OPPORTUNITIES ON BLOOD PRESSURE AND COGNITION**

(setting an agenda for multicentric collaborative studies)

Chairpersons: A. Coca (Barcelona, SPAIN), P. Guimarães Cunha (Guimarães, PORTUGAL)

**13:00-13:20** The CEREBRO study - CEntRal hEmodynamics, Blood pRessure and cognitiOn  
P. Guimarães Cunha (Guimaraes, PORTUGAL)

**13:20-13:40** The impact of Central Hemodynamic biomarkers in acute ischemic stroke prognosis and outcome  
D. Gasecki (Gdansk, POLAND)

**13:40-14:00** Sympathetic Nervous System and Cognition  
D. Hering (Gdansk, POLAND)

**14:00-14:30** General Discussion

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**13:00-14:30**

**BANQUETING ROOM**

**Meeting of the ESH Working Group on Endocrine Hypertension**

Chairpersons: J. Widimsky Jr (Prague, CZECH REPUBLIC), P. Mulatero (Turin, ITALY)

- 13:00-13:05 Introduction and summary of the WG activities**  
J. Widimsky Jr (Prague, CZECH REPUBLIC), P. Mulatero (Turin, ITALY)
- 13:05-13:15 Presurgical and anesthetic management of pheochromocytoma**  
M. Araujo-Castro (Madrid, SPAIN)
- 13:15-13:30 Role of CTNNB1 mutations in primary aldosteronism**  
M. Brown (London, UNITED KINGDOM)
- 13:30-13:45 Hidden hypercortisolism: when and how should be treated**  
I. Chiodini (Milan, ITALY)
- 13:45-13:55 Extracellular vesicles as mediators of vascular damage in primary aldosteronism**  
J. Burrello (Turin, ITALY)
- 13:55-14:05 Management of primary aldosteronism in pregnancy**  
L. Amar (Paris, FRANCE)
- 14:05-14:15 Management of pheochromocytoma in pregnancy**  
J. Lenders (THE NETHERLANDS)
- 14:15-14:30 Final discussion**
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**13:00-14:30**

**ROOM MC 2**

**Meeting of the ESH Working Group on Lifestyle, Cardiovascular Pharmacotherapy and Adherence**

Chairpersons: M. Azizi (Paris, FRANCE), M. Burnier (Lausanne, SWITZERLAND)

- 13:00-13:15 Recommendations for the use of Chemical Adherence Testing**  
P. Gupta (Leicester, UNITED KINGDOM)
- 13:15-13:30 Post-traumatic disorders and adherence**  
A. Persu (Brussels, BELGIUM)
- 13:30-13:45 Sodium and potassium and cardiovascular events. What is the place of salt substitutes**  
J. Polonia (Matosinhos, PORTUGAL)
- 13:45-14:00 New drug therapies in hypertension**  
J. Versmissen (Rotterdam, THE NETHERLANDS)
- 14:00-14:15 How to promote adherence to a lifelong active lifestyle**  
V. Cornelissen (Leuven, BELGIUM)
- 14:15-14:30 General Discussion**
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**13:30-14:30**

**ROOM MC 3**

**Meeting of the ESH Working Group on Large Arteries**

**BREAKING NEWS FROM THE ESH WORKING GROUP ON LARGE ARTERIES**

Chairpersons: R.M. Bruno (Paris, FRANCE), B. Spronck (Maastricht, THE NETHERLANDS)

- 13:30-13:45 SPARTE Study: Normalization of Arterial Stiffness and Cardiovascular Events in Patients with Hypertension at Medium to Very High Risk**  
S. Laurent (Paris, FRANCE)
- 13:45-13:50 Discussion**

- 13:50-14:05 **Recommendations for the Use of Pulse Wave Velocity in the Clinic - Update 2022**  
C. Vlachopoulos (Athens, GREECE), A. Protogerou (Athens, GREECE), T. Weber (Wels, AUSTRIA)
- 14:10-14:25 **2022 Guidelines for Validation of Non-invasive Arterial Pulse Wave Velocity Measurement Devices**  
B. Spronck (Maastricht, THE NETHERLANDS)
- 14:25-14:30 **Discussion**
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13:30-14:30

**CONFERENCE ROOM 1**

**Meeting of the ESH Working Group on Diabetes and Metabolic Risk Factors**

**DIABETES AND CARDIOMETABOLIC RISK FACTORS**

Chairpersons: G. Grassi (Milan, ITALY), J. Jordan (Cologne, GERMANY), V. Kotsis (Thessaloniki, GREECE), P. Nilsson (Malmö, SWEDEN), M. Schlaich (Perth, AUSTRALIA)

- 13:30-13:40 **Cardiovascular effects of SGLT2 in T2D and obesity**  
P. Nilsson (Malmö, SWEDEN)
- 13:40-13:50 **Hypertension outcomes of diabetes clinical trials with SGLT2 or GLPi**  
V. Kotsis (Thessaloniki, GREECE)
- 13:50-14:00 **Renal Denervation in obesity. Is it possible and when?**  
M. Schlaich (Perth, AUSTRALIA)
- 14:00-14:10 **Obesity in the space station. What can we expect?**  
J. Jordan (Cologne, GERMANY)
- 14:10-14:20 **Obesity induced kidney disease future pandemic**  
J. Redon (Valencia, SPAIN)
- 14:20-14:30 **New WG registry on ABPM in obese patients and weight gain or loss**  
C. Antza (Thessaloniki, GREECE)
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14:30-16:00

**MITROPOULOS ROOM**

**Meeting of the ESH Working Group on Blood Pressure Monitoring and Cardiovascular Variability**

**SIX HOT QUESTIONS ON BLOOD PRESSURE MONITORING IN CLINICAL PRACTICE**

- 14:30-14:35 **Introduction**  
G. Mancia (Milan, ITALY), G. Parati (Milan, ITALY), G.S. Stergiou (Athens, GREECE)
- 14:35-14:48 **1. Office blood pressure measurement:**  
Chairperson: E. O'Brien (Dublin, IRELAND)
- 14:35-14:42 **Does it still have a role? When and how?**  
J. Filipovsky (Pilsen, CZECH REPUBLIC)
- 14:42-14:48 **Comments**  
Discussants: A. Mihailidou (Kensington, AUSTRALIA), M. Myers (Toronto, CANADA)
- 14:48-15:01 **2. Nocturnal hypertension:**  
Chairperson: K. Kario (Tochigi, JAPAN)
- 14:48-14:55 **How to diagnose? How to treat?**  
P. Palatini (Padua, ITALY)
- 14:55-15:01 **Comments**  
Discussants: E. Manios (Athens, GREECE), E. Dolan (Dublin, IRELAND)

- 15:01-15:14 **3. White coat and masked hypertension:**  
Chairperson: A. Schutte (Sydney, AUSTRALIA)
- 15:01-15:08 **When to treat? How to follow?**  
G. Parati (Milan, ITALY)
- 15:08-15:14 **Comments**  
Discussants: G. Bilo (Milan, ITALY), T. Niiranen (Turku, FINLAND)
- 15:14-15:27 **4. Cuffless wearable blood pressure monitors:**  
Chairperson: A. Avolio (Sydney, AUSTRALIA)
- 15:14-15:21 **What do they offer? Are they accurate? Should they be used?**  
G.S. Stergiou (Athens, GREECE)
- 15:21-15:27 **Comments**  
Discussants: R. Asmar (Paris, FRANCE), G. Wuerzner (Lausanne, SWITZERLAND)
- 15:27-15:40 **5. Central blood pressure measurement:**  
Chairperson: A. de la Sierra (Terrassa-SELECT, SPAIN)
- 15:27-15:34 **Does it optimise clinical decisions in some cases?**  
J. Sharman (Hobart, AUSTRALIA)
- 15:34-15:40 **Comments**  
Discussants: T. Ohkubo (Sendai, JAPAN), A. Protogerou (Athens, GREECE)
- 15:40-15:53 **6. Seasonal variation in blood pressure:**  
Chairperson: J. Wang (Shanghai, CHINA)
- 15:40-15:47 **How should it be considered in clinical practice?**  
K. Asayama (Tokyo, JAPAN)
- 15:47-15:53 **Comments**  
Discussants: A. Kollias (Athens, GREECE), F. Saladini (Padua, ITALY)
- 15:53-16:00 **Conclusions**  
R. Kreutz (Berlin, GERMANY), E. O'Brien (Dublin, IRELAND), P. Palatini (Padua, ITALY)
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**14:30-16:00**

**ROOM MC 3**

**Meeting of the ESH Working Group on Hypertension and Kidney**

Chairpersons: M. Pruijm (Lausanne, SWITZERLAND), P. Sarafidis (Thessaloniki, GREECE)

- 14:30-14:50 **Adherence to antihypertensive treatment in patients with CKD: a barrier to optimal renoprotection**  
M. Burnier (Lausanne, SWITZERLAND)
- 14:50-15:10 **Sex differences in blood pressure prevalence and control in patients with CKD**  
R. Minutolo (Naples, ITALY)
- 15:10-15:30 **Dietary potassium, sodium and bicarbonate: effects on blood pressure in CKD**  
L. Vogt (Amsterdam, THE NETHERLANDS)
- 15:30-15:50 **Mineralocorticoid receptor antagonists and nephroprotection: from background evidence to outcome data**  
M.-E. Alexandrou (Thessaloniki, GREECE)
- 15:50-16:00 **General Discussion**
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14:30-16:00

**CONFERENCE ROOM 1**

Meeting of the ESH Working Group on Hypertension and Cardiovascular Disease in Special Populations

Chairpersons: R. Kreutz (Berlin, GERMANY), A. Persu (Brussels, BELGIUM)

14:30-14:40 **Why ESH needs a new working group on special populations?**  
R. Kreutz (Berlin, GERMANY)

What is different and what is new in.....

14:40-15:00 **Migrants with hypertension**  
P.A. Modesti (Florence, ITALY)

15:00-15:20 **Older frail patients**  
A. Benetos (Nancy, FRANCE)

15:20-15:40 **Pregnant and breastfeeding women**  
C. Thomopoulos (Athens, GREECE)

15:40-16:00 **General discussion**

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15:00-16:00

**SKALKOTAS ROOM**

Meeting of the Working Group on Hypertension and the Heart

Chairpersons: E. Agabiti-Rosei (Brescia, ITALY), K. Tsioufis (Athens, GREECE)

15:00-15:10 **CMR in Hypertension and LVH**  
A. Kasiakogias (Athens, GREECE)

15:10-15:15 **Discussion**

*Management of cardiac complications in elderly hypertensive patients. The importance of frailty:*

15:15-15:25 **LVH and Heart Failure**  
M. Camafort (Barcelona, SPAIN)

15:25-15:30 **Discussion**

15:30-15:40 **Coronary artery disease**  
T. Grodzicki (Krakow, POLAND)

15:40-15:45 **Discussion**

15:45-15:55 **Gender differences**  
I. Sudano (Zurich, SWITZERLAND)

15:55-16:00 **Discussion**

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15:00-16:00

**BANQUETING ROOM**

Meeting of the ESH Working Group on Hypertension in Children and Adolescents

**HIGH BLOOD PRESSURE IN CHILDREN AND ADOLESCENTS: NEW INSIGHTS**

Chairpersons: D. Drozd (Krakow, POLAND), S. Erdine (Istanbul, TURKEY)

15:00-15:10 **Screen time and sleep disorders in the origin of high BP in youth**  
M. Wójcik (Krakow, POLAND)

15:10-15:20 **The economic impact of childhood obesity**  
B. Lopez-Valcarcel (Gran canaria, SPAIN)

15:20-15:30 **Building international networks for innovation on hypertension in children and adolescents**  
J. Carrero (Valencia, SPAIN)

15:30-15:50 **Target organ damage in pediatric primary hypertension**  
B. Falkner (Philadelphia, USA)

15:50-16:00 **General discussion**

15:00-16:00

ROOM MC 2

**Meeting of the ESH Working Group on Device-Based Treatment of Hypertension  
UNMET NEEDS IN RENAL DENERVATION**

Chairpersons: D. Hering (Gdansk, POLAND), R.E. Schmieder (Erlagen, GERMANY)

**Long-term durability of RDN:**

- 15:00-15:05 **What do we know?**  
J. Weil (Lubeck, GERMANY)
- 15:05-15:10 **Discussion**
- 15:10-15:15 **Does re-innervation happen?**  
M. Schlaich (Perth, AUSTRALIA)
- 15:15-15:20 **Discussion**

**Effects on Hypertension-Mediated Organ Damage:**

- 15:20-15:25 **What do we know?**  
C. Ott (Erlangen, GERMANY)
- 15:25-15:30 **Discussion**
- 15:30-15:35 **Do we need an outcome trial?**  
F. Mahfoud (Homburg/Saar, GERMANY)
- 15:35-15:40 **Discussion**

**Hypertension and Atrial Fibrillation:**

- 15:40-15:45 **What do we know?**  
K. Dimitriadis (Athens, GREECE)
- 15:45-15:50 **Discussion**
- 15:50-15:55 **The place of RDN denervation**  
B. Kroon (Maastricht, THE NETHERLANDS)
- 15:55-16:00 **Discussion**

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16:30-17:30

MITROPOULOS ROOM

**Joint Session ESH-WHL (World Hypertension League)**

**CALL TO ACTION FOR HYPERTENSION CONTROL IN AFRICA**

Chairpersons: J. Brguljan-Hitij (Ljubljana, SLOVENIA), M. Owolabi (NIGERIA)

- 16:30-16:42 **Hypertension epidemic in low resource settings. Focus on Africa**  
A. Dzudie (Yaounde, CAMEROON)
- 16:42-16:54 **The HEARTS programme**  
X.-H. Zhang (Urumqi, CHINA)
- 16:54-17:06 **Blood pressure measurement and digital health solutions: perspectives for Africa**  
G. Parati (Milan, ITALY)
- 17:06-17:18 **Call to action of governments, health care personnel, associations and individuals**  
D.T. Lackland (Charleston, USA)
- 17:18-17:30 **General Discussion**
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16:30-17:30

**SKALKOTAS ROOM**

**Iberian Session**

**THE IBERICAN STUDY: ANALYSIS OF CARDIOVASCULAR RISK IN SPAIN**

Chairpersons: A. Coca (Barcelona, SPAIN), J. Polo Garcia (Cáceres, SPAIN)

- 16:30-16:55 **Impact of the association of cardiovascular risk factors in patients seen in primary care**  
R.M. Micó-Pérez (Xátiva-Ontinyent, SPAIN)
- 16:55-17:20 **Role of genetic information in the evaluation of cardiovascular risk**  
V. Martin-Sánchez (León, SPAIN)
- 17:20-17:30 **Discussion**  
A. Coca (Barcelona, SPAIN)
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16:30-17:30

**BANQUETING ROOM**

**Session Jointe ESH et Société d'Hypertension de Langue Française - Joint Session ESH and French speaking Hypertension Societies**

**NOUVEAUTÉS DANS LE DOMAINE DE L'HYPERTENSION - INNOVATION IN HYPERTENSION**

Chairpersons: A. Pathak (Monaco, MONACO), A. Persu (Brussels, BELGIUM)

- 16:30-16:42 **Gestion de l'urgence hypertensive. Management of hypertensive emergencies**  
R. Boulestreau (Bordeaux-ÉTAT., FRANCE)
- 16:42-16:54 **La cardiopathie hypertensive hypertrophique. Management of hypertensive cardiopathy**  
R. N'Guetta
- 16:54-17:06 **Nouvelles voies thérapeutiques dans l'HTA. Innovative pathways for the management of Hypertension**  
J.S. Hulot (FRANCE)
- 17:06-17:18 **Nouvelles méthodes de mesures. New devices to manage Blood Pressure**  
G. Wuerzner (Lausanne, SWITZERLAND)
- 17:18-17:30 **General Discussion**
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16:30-17:30

**ROOM MC 2**

**THE BALKAN SYMPOSIUM**

Chairpersons: Z. Dika (Zagreb, CROATIA), M. Doumas (Thessaloniki, GREECE), V. Stojanov (Belgrade, SERBIA)

- 16:30-16:36 **Benefits of functional food consumption on microvascular function in young healthy persons**  
P. Šušnara (CROATIA)
- 16:36-16:38 **Mentor: I. Drenjancevic (Osijek, CROATIA)**
- 16:38-16:44 **Sympathetic overdrive and target organ damage**  
I. Andrikou (GREECE)
- 16:44-16:46 **Mentor: T. Makris (Athens, GREECE)**
- 16:45-16:52 **Twenty-four-hours pulse wave velocity and target organ damages in young hypertensive patients**  
V. Prelevic (Zagreb, CROATIA)
- 16:52-16:54 **Mentor: D. Radunovic (MONTENEGRO), B. Jelakovic (Zagreb, CROATIA)**
- 16:56-17:02 **Nine years trends in atrial fibrillation prevalence among Romanian adult hypertensives**  
C. Cojocar (Bucharest, ROMANIA)
- 17:02-17:04 **Mentor: M. Dorobantu (Bucharest, ROMANIA)**

- 17:04-17:10 **Slovenian experiences with telemedicine in hypertension management**  
A. Kabaklic (Ljubljana, SLOVENIA)
- 17:10-17:12 Mentor: J. Brguljan-Hitij (Ljubljana, SLOVENIA)
- 17:12-17:18 **Arterial Stiffness in pregnancy**  
N. Radivojevic (Belgrade, SERBIA)
- 17:18-17:20 Mentor: V. Stojanov (Belgrade, SERBIA)
- 17:20-17:30 **General Discussion**
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16:30-17:30

**ROOM MC 3**

Joint Session ESH- WHO (World Health Organization)

**NONCOMMUNICABLE DISEASES AND MIGRANT HEALTH**

Chairpersons: G. Costanzo (Rome, ITALY), K. Tsioufis (Athens, GREECE)

- 16:30-16:45 **Health and Migration: vision and key findings**  
R. Hossain
- 16:45-17:00 **Non communicable disease of migrant population in Europe**  
P.A. Modesti (Florence, ITALY)
- 17:00-17:15 **NCDs in ethnic minority and migrant populations: the role of cultural, geographical and socio-economic context**  
C. Agyemang (Amsterdam, THE NETHERLANDS)
- 17:15-17:30 **General Discussion**
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16:30-17:30

**CONFERENCE ROOM 1**

Portuguese Speaking Countries Session

**HYPERTENSION FOLLOW-UP DURING THE COVID-19 PANDEMIC SURGE**

Chairpersons: L. Bronze (Lisbon, PORTUGAL), J. Polonia (Matosinhos, PORTUGAL)

- 16:30-16:35 **Introduction**  
L. Bronze (Lisbon, PORTUGAL), J. Polonia (Matosinhos, PORTUGAL)
- 16:35-16:45 **Hypertension follow- up in Portuguese Primary Care System**  
R.M. de Pinho (Lisbon, PORTUGAL)
- 16:45-16:55 **Hypertension Management in the Covid-19 pandemic: experiences from Portugal**  
F. Pinto (Santa Maria Feira, PORTUGAL)
- 16:55-17:05 **Hypertension Management in the Covid-19 pandemic: experiences from Brazil**  
L. Magalhães (Salvador, BRAZIL)
- 17:05-17:30 **Panel Discussion**
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18:00-19:30

**A. TRIANTI ROOM**

Opening of the Congress

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# SATURDAY, JUNE 18

07:45-08:45

## MITROPOULOS ROOM

Breakfast Session

### TREATMENT OF HYPERTENSIVE EMERGENCIES

Chairpersons: P. Gosse (Bordeaux, FRANCE), M. Salvetti (Brescia, ITALY)

07:45-08:05    **Malignant hypertension**  
R. Boulestreau (Bordeaux, FRANCE)

08:05-08:25    **Hypertension urgency**  
C. Fragoulis (Athens, GREECE)

08:25-08:45    **General Discussion**

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07:45-08:45

## SKALKOTAS ROOM

Breakfast Session

### FIBROMUSCULAR DISPLASIA (FMD) - BEYOND RENAL ARTERIES

Chairpersons: C. Chrysochou (Salford, UNITED KINGDOM), A. Persu (Brussels, BELGIUM)

07:45-07:57    **The international consensus of FMD in a nutshell**  
A. Persu (Brussels, BELGIUM)

07:57-08:09    **Neurovascular FMD - what the internist should know**  
M. Zedde (Reggio Emilia, ITALY)

08:09-08:21    **Visceral FMD - always benign?**  
P. Van der Niepen (Brussels, BELGIUM)

08:21-08:45    **General Discussion**

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07:45-08:45

## BANQUETING ROOM

Breakfast Session

### ONCOLOGY MEETS HYPERTENSION: CURRENT TRENDS

Chairpersons: P. Zebekakis (Thessaloniki, GREECE), M. Rajzer (Cracow, POLAND)

07:45-07:57    **Monitoring blood pressure during antineoplastic therapy**  
E. Gkaliagkousi (Thessaloniki, GREECE)

07:57-08:09    **Antineoplastic drugs and hypertension: Clinical evidence**  
A. Douros (Montreal, QC, CANADA)

08:09-08:21    **Management of antineoplastic drug-induced hypertension**  
A. Battistoni (Rome, ITALY)

08:21-08:45    **General Discussion**

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07:45-08:45

**ROOM MC 2**

**Breakfast Session**

**HYPERTENSION AND ATRIAL FIBRILLATION**

Chairpersons: K. Lundwall (Stockholm, SWEDEN), A.J. Manolis (Athens, GREECE)

07:45-07:57 **How to screen for atrial fibrillation in patients with hypertension**

*TBD*

07:57-08:09 **How to measure blood pressure in atrial fibrillation**

A. Kollias (Athens, GREECE)

08:09-08:21 **What should be the BP target in atrial fibrillation**

M. Dorobantu (Bucharest, ROMANIA)

08:21-08:45 **General Discussion**

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07:45-08:45

**ROOM MC 3**

**Breakfast Session**

**WHAT THE GENERAL HYPERTENSIOLOGIST NEEDS TO KNOW ABOUT SPECIFIC CHRONIC KIDNEY DISEASE PATIENTS?**

Chairpersons: P.W. de Leeuw (Maastricht, THE NETHERLANDS), J. Boletis (GREECE)

07:45-07:57 **Intradialytic hypertension in hemodialysis patients**

R. Kalaitzidis (Ioannina, GREECE)

07:57-08:09 **Hypertension in patients with renal transplantation: an ESH position statement**

J.-M. Halimi (Tours, FRANCE)

08:09-08:21 **Hypertension in chronic kidney disease in albuminuria**

S. Lionaki (Athens, GREECE)

08:21-08:45 **General Discussion**

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07:45-08:45

**CONFERENCE ROOM 1**

**Breakfast Session**

**MULTIMODALITY IMAGING FOR HMOD. WHICH MODALITY REMAINS THE GOLD STANDARD**

Chairpersons: D. Lovic (Nis, SERBIA), T. Kahan (Stockholm, SWEDEN)

At the level of:

07:45-07:57 **Heart**

D. Lovic (Nis, SERBIA)

07:57-08:09 **Vessels**

K. Stamatelopoulos (Athens, GREECE)

08:09-08:21 **Eye**

A. Triantafyllou (Thessaloniki, GREECE)

08:21-08:45 **General Discussion**

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08:00-09:00

**A. TRIANTI ROOM**

Joint Session ESH-CHL (Chinese Hypertension League)

**JOINT SESSION ON CENTRAL HAEMODYNAMICS**

Chairpersons: R. Kreutz (Berlin, GERMANY), J. Wang (Shanghai, CHINA)

- 08:00-08:12 **Current status and future perspectives on central haemodynamics**  
Y. Li (Shanghai, CHINA)
- 08:12-08:24 **Risk stratification by cross-classification of central and brachial blood pressure**  
Y.-B. Cheng (Shanghai, CHINA)
- 08:24-08:36 **Challenges in the Establishment of Reference Values for Central SBP**  
T. Weber (Wels, AUSTRIA)
- 08:36-08:48 **Central Hemodynamics and the Heart**  
E. Agabiti-Rosei (Brescia, ITALY)
- 08:48-09:00 **General Discussion**
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09:00-10:00

**BANQUETING ROOM**

Plenary Session 1

**WHAT IS THE OPTIMAL BP TARGET IN CKD?**

Chairpersons: J. Redon (Valencia, SPAIN), P. Sarafidis (Thessaloniki, GREECE)

Debate: SYSTOLIC BP <120 MMHG

- 09:00-09:10 **Yes**  
J. Mann (GERMANY)
- 09:10-09:15 **Discussion**
- 09:15-09:25 **No**  
M. Arici (Ankara, TURKEY)
- 09:25-09:30 **Discussion**
- 09:30-10:00 **Keynote lecture**  
**PRECISION MEDICINE AND PRECISION DIAGNOSTICS - LESSONS FROM THE PANDEMIC**  
A.F. Dominiczak (Glasgow, UNITED KINGDOM)
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09:00-10:00

**ROOM MC 2**

Oral Session 1

**LIFESTYLE CHANGES**

Chairpersons: V. Cornelissen (Leuven, BELGIUM), M. Koutsilieris (GREECE)

- 09:00-09:20 **LECTURE: Evaluation of fitness in a hypertensive patient. Exercise stress test or Cardiopulmonary exercise testing?**  
H. Triantafyllidi (Athens, GREECE)
- 09:20-09:30 **EXERCISE CAPACITY AND MORTALITY RISK IN A WIDE AGE SPECTRUM COHORT OF 750,302 VETERANS**  
Andreas Pittaras (1), Charles Faselis (2), Michael Doumas (2), Haralampos Grassos (1), Konstantinos Stavropoulos (2), Konstantinos Imprialos (2), Maria Papavasiliou (2), Athanasios Manolis (1), Jonathan Myers (4), Peter Kokkinos (2,3)  
(1) Athens (GREECE), (2) Washington DC (USA), (3) NJ (USA), (4) Palo Alto CA (USA)
- 09:30-09:40 **THE VALUE OF MULTIPLE 24-HOUR URINE SAMPLES FOR ESTIMATING SODIUM INTAKE**  
Jolan Van Maaren, Malik Esseghi, Bert-Jan van den Born, Liffert Vogt, Rik Olde Engberink  
Amsterdam (THE NETHERLANDS)

- 09:40-09:50 EXPOSURES TO INTIMATE PARTNER VIOLENCE AND NON-PARTNER SEXUAL VIOLENCE ARE ASSOCIATED WITH HYPERTENSION IN SOUTH AFRICAN WOMEN**  
Kim Nguyen (1), Naeemah Abrahams (2), Rachel Jewkes (2, 3), Shibe Mhlongo (2), Soraya Seedat (4), Bronwyn Meyers (5, 6), Carl Lombard (7), Claudia Garcia-Moreno (8), Esnat Chirwa (2), Andre Kengne (1, 9), Nasheeta Peer (1, 9)  
*(1) Cape Town and Durban (SOUTH AFRICA), (2) Cape Town and Pretoria (SOUTH AFRICA), (3) Cape Town (SOUTH AFRICA), (4) Cape Town (SOUTH AFRICA), (5) Cape Town (SOUTH AFRICA), (6) Perth (AUSTRALIA), (7) Cape Town (SOUTH AFRICA), (8) Geneva (SWITZERLAND), (9) Cape Town (SOUTH AFRICA)*
- 09:50-10:00 REDUCED NACL COTRANSPORTER ABUNDANCE AND PHOSPHORYLATION IN URINARY EXTRACELLULAR VESICLES IN RESPONSE TO KCL SUPPLEMENTS IN HEALTHY ADULTS MAINTAINED ON A HIGH-NA+ LOW-K+ DIET: A**  
Aihua Wu, Martin Wolley (1,2), Hannah Mayr (3), Diane Cowley, Bo Li, Paul Welling (4), Katrina Campbell (3), Robert Fenton (5), Michael Stowasser  
*(1) Brisbane (AUSTRALIA), (2) Brisbane (AUSTRALIA), (3) Brisbane (AUSTRALIA), (4) Baltimore (USA), (5) Aarhus (DENMARK)*
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**09:00-10:00  
ROOM MC 3**

Joint Session ESH-ISH (International Society of Hypertension)

**NEW THERAPEUTIC OPPORTUNITIES FOR MANAGEMENT OF HYPERTENSION**

Chairpersons: M. Tomaszewski (Manchester, UNITED KINGDOM), R. Kreutz (Berlin, GERMANY)

- 09:00-09:12 Non-steroidal mineralocorticoid receptor (MR) antagonists for "MR-associated hypertension**  
H. Itoh (Tokyo, JAPAN)
- 09:12-09:24 SGLT2 inhibitors: Have they been overlooked as Blood Pressure lowering agents?**  
B. Williams (London, UNITED KINGDOM)
- 09:24-09:36 Novel antihypertensive treatments targeting the Renin-Angiotensin-System**  
A.H.J. Danser (Rotterdam, THE NETHERLANDS)
- 09:36-09:48 Novel antihypertensive drugs beyond the RAS**  
P. van de Borne (Brussels, BELGIUM)
- 09:48-10:00 General Discussion**
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**09:00-10:00  
CONFERENCE ROOM 1**

Oral Session 2

**THERAPEUTICS AND CLINICAL TRIALS**

Chairpersons: F. Mahfoud (Homburg/Saar, GERMANY), C. Stefanadis (GREECE)

- 09:00-09:10 EFFECT OF A WEB-BASED MANAGEMENT PLATFORM ON HYPERTENSION CONTROL IN COMMUNITY: A RANDOMIZED CLINICAL TRIAL**  
Haoqi Zhou, Xin Wang, Zuo Chen, Linfeng Zhang, Congyi Zheng, Lu Chen, Jiayin Cai, Xue Cao, Zengwu Wang  
*Beijing (CHINA)*
- 09:10-09:20 IS BASAL NITRIC OXIDE ACTIVITY OF THE RENAL VASCULATURE ALTERED? ANALYSIS OF A RANDOMIZED CONTROLLED TRIAL COMPARING TWO COMBINATION THERAPIES.**  
Dennis Kannenkeril, Christian Ott (1, 2), Agnes Bosch, Kristina Striepe, Robert Pietschner, Mario Schiffer, Roland E. Schmieder  
*(1) Erlangen (GERMANY), (2) Nürnberg (GERMANY)*
- 09:20-09:40 LECTURE: Promising technologies for HTN treatment**  
V. Papademetriou (USA)

**09:40-09:50 TIME DOSING OF ANTIHYPERTENSIVE TREATMENT AND PROGNOSIS**  
Alejandro De La Sierra (1), Luis Ruilope (2), Pablo Martinez-Camblor (3), Ernest Vinyoles (4), Manuel Gorostidi (5), Julian Segura (2), Bryan Williams (6)  
*(1) Terrassa (SPAIN), (2) Madrid (SPAIN), (3) Hannover (UNITED STATES), (4) Barcelona (SPAIN), (5) Oviedo (SPAIN), (6) London (UNITED KINGDOM)*

**09:50-10:00 INDIVIDUAL ANTIHYPERTENSIVE MEDICATION AND SKIN CANCER RISK: A SYSTEMATIC REVIEW AND META-ANALYSIS**  
Annalena Heisel, Mart D. Vuurboom, Joost G. Daams, Menno A. de Rie, Liffert Vogt, Bert -Jan van den Born, Rik H.G. Olde Engberink  
*Amsterdam (NETHERLANDS)*

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**09:30-10:30**  
**SKALKOTAS ROOM**

**Oral Session 3**

**MICROCIRCULATION**

Chairperson: J. Weil (Lubeck, GERMANY)

**09:30-09:40 TARGETING SIRT1 RESCUES AGE- AND OBESITY-INDUCED HUMAN MICROVASCULAR DYSFUNCTION**  
Alessandro Mengozzi (1), Sarah Costantino (2), Francesco Paneni (2), Emiliano Duranti (1), Stefano Taddei (1), Agostino Virdis (1), Stefano Masi (1)  
*(1) Pisa (ITALY), (2) Zurich (SWITZERLAND)*

**09:40-10:00 LECTURE: Fasting small vessels to reduce microvascular inflammation and remodeling**  
A. Virdis (Pisa, ITALY)

**10:00-10:10 IMPAIRED SKIN MICROCIRCULATION DYNAMICS IN PATIENTS WITH RHEUMATOID ARTHRITIS: ASSOCIATION WITH ARTERIAL STIFFNESS AND CORONARY MICROVASCULAR PERFUSION**  
Panagiota Anyfanti, Eleni Gavriilaki, Barbara Nikolaidou, Areti Triantafyllou, Panagiotis Dolgyras, Hippokrates Zarifis, Antonios Lazaridis, Nikolaos Koletsos, Stella Douma, Eugenia Gkaliagkousi  
*(1) Thessaloniki (GREECE)*

**10:10-10:20 7-DAYS HIGH-SALT DIET AFFECTS NO-MEDIATED MICROVASCULAR ENDOTHELIAL VASODILATION IN YOUNG HEALTHY INDIVIDUALS**  
Leon Peric, Ines Drenjancevic, Mihael Kolar, Petar Susnjara, Ana Stupin  
*Osijek (CROATIA)*

**10:20-10:30 CLINICAL CHARACTERISTICS OF PATIENTS WITH FIBROMUSCULAR DYSPLASIA ASSOCIATED WITH ANEURYSMS (ARCADIA-POL STUDY)**  
Paulina Talarowska (1), Magdalena Januszewicz (2), Katarzyna Jozwik-Plebanek (1), Piotr Dobrowolski (1), Aleksander Prejbisz (1), Elzbieta Florczak (1), Dariusz Gasecki (3), Jaroslaw Zylkowski (2), Ilona Michalowska (4), Marek Kabat (1), Alexandre Persu (5), Andrzej Januszewicz (1)  
*(1) Warsaw (POLAND), (2) Warsaw (POLAND), (3) Gdansk (POLAND), (4) Warsaw (POLAND), (5) Brussels (BELGIUM)*

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10:00-11:00

**A. TRIANTI ROOM**

Minisymposium Supported by Servier

**BETA-BLOCKERS IN COMBINATIONS: ADDITIONAL OPPORTUNITY TO INDIVIDUALIZE TREATMENT FOR HYPERTENSIVE PATIENTS WITH CARDIAC DISEASES**

Chairpersons: R. Kreutz (Berlin, GERMANY), K. Tsioufis (Athens, GREECE)

- 10:00-10:03 **Introduction**  
R. Kreutz (Berlin, GERMANY)
- 10:03-10:17 **Elevated heart rate in hypertensive patients: should we adapt treatment?**  
S. Masi (Pisa, ITALY)
- 10:17-10:31 **Hypertensive patients with chronic coronary syndrome (CCS): how to optimize therapy?**  
K. Tsioufis (Athens, GREECE)
- 10:31-10:45 **What about hypertensive patients with atrial fibrillation?**  
R. Kreutz (Berlin, GERMANY)
- 10:45-10:57 **Q&A session**
- 10:57-11:00 **Conclusion**  
K. Tsioufis (Athens, GREECE)
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10:00-11:00

**MITROPOULOS ROOM**

Workshop

**MASTERING: NIGHTTIME HYPERTENSION AND NON- DIPPERS - IMPLICATIONS FOR THERAPY**

Chairpersons: G. Parati (Milan, ITALY), E. O'Brien (Dublin, IRELAND)

- 10:00-10:10 **Clinical relevance of nocturnal hypertension and non-dipping**  
T. Niiranen (Turku, FINLAND)
- 10:10-10:20 **Detection of nighttime hypertension and non-dippers**  
D. Shimbo (USA)
- 10:20-10:30 **Evidence on bedtime drug treatment - short-term blood pressure studies**  
M. Bursztyn (Jerusalem, ISRAEL)
- 10:30-10:40 **Evidence on bedtime drug treatment - long-term outcome studies**  
M. Burnier (Lausanne, SWITZERLAND)
- 10:40-11:00 **General Discussion**
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10:00-11:00

**ROOM MC 2**

Oral Session 4

**CEREBROVASCULAR DISEASES, STROKE, AND COGNITIVE DYSFUNCTION**

Chairpersons: P. Guimarães Cunha (Guimaraes, PORTUGAL), G. Ntaios (Larissa, GREECE)

- 10:00-10:10 **MRI IN THE ASSESSMENT OF CEREBRAL INJURY AND CEREBROPROTECTIVE EFFECTS OF RENAL DENERVATION IN RESISTANT ARTERIAL HYPERTENSION**  
Anna Sukhareva, Alla Falkovskaya, Andrey E. Baev, Olga V Mochula, Alexandra S Maksimova, Nadezhda I Ryumshina, Tatyana A Shelkovnikova, Irina V Zyubanova, Ekaterina I Tsoi, Musheg A Manukyan, Viktor F Mordovin, Vladimir Yu Ussov  
*Tomsk (RUSSIA)*
- 10:10-10:40 **DEBATE: IN THE SETTING OF ACUTE INTRACEREBRAL HEMORRHAGE, SYSTOLIC BLOOD PRESSURE SHOULD BE LOWERED**
- 10:10-10:25 **<140 mmHg?**  
E. Sandset (NORWAY)

- 10:25-10:40 **>140 mmHg?**  
E. Manios (Athens, GREECE)
- 10:40-10:50 **EXCESSIVE PULSATILE POWER IN CAROTID ARTERIES IS ASSOCIATED REDUCED COGNITIVE FUNCTION: PULSATILE AND STEADY STATE ARTERIAL HEMODYNAMICS IN TWO COMMUNITY-BASED COHORTS**  
Shao -Yuan Chuang (1), Jiun-Jr Wang Wang (2), Chen -Hua Lin (3), Wen -Harn Pan (4), Liang -Kung Chen (5), Pei -Ning Wang (6), Chen -Huan Chen (7), Hao -Min Cheng (7)  
(1) Miaoli (TAIWAN), (2) New Taipei City (TAIWAN), (3) Taipei (TAIWAN), (4) Taipei (TAIWAN), (5) Taipei (TAIWAN), (6) Taipei (TAIWAN), (7) Taipei (TAIWAN)
- 10:50-11:00 **PREDICTING LONG-TERM SURVIVAL AFTER AN ISCHEMIC STROKE. THE ESH-STROKE SURVEY**  
Peter Wohlfahrt (1), Alena Krajcoviechova (1), Otto Mayer jr (2), Jiri Vanek (2), David Hlinovsky (1), Lenka Kielbergerova (2), Vera Lanska (1), Renata Cifkova (1)  
(1) Prague (CZECH REPUBLIC), (2) Pilsen (CZECH REPUBLIC)
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10:15-11:15

**BANQUETING ROOM**

**Oral Session 5**

**EPIDEMIOLOGY AND GLOBAL BURDEN**

Chairpersons: J. Al Said (New Orleans, USA), P. Stylianou (Nicosia, CYPRUS)

- 10:15-10:25 **PRELIMINARY REPORT: BLOOD PRESSURE TRAJECTORIES OVER TIME IN A MULTI-ETHNIC POPULATION**  
Esther Martha Ca Vriend, Thomas Adriaan Bouwmeester, Henrike Galenkamp, Didier Collard, Bert-Jan Hendrik Van Den Born  
*Amsterdam (THE NETHERLANDS)*
- 10:25-10:35 **SERUM URIC ACID, LEFT VENTRICULAR MASS AND CARDIOVASCULAR DEATH. THE URIC ACID RIGHT FOR HEART HEALTH (URRAH) STUDY**  
Maria Lorenza Muiesan (1), Massimo Salvetti (1), Anna Paini (1), Claudia Agabiti Rosei (1), Agostino Virdis (2), Edoardo Casiglia (3), Valerie Tikhonoff (3), Carlo Maria Barbagallo (4), M Cirillo (5), Giovanbattista Desideri (6), Claudio Ferri (6), Ferruccio Galletti (5), Cristina Giannattasio (7), Guido Iaccarino (5), Francesca Mallamaci (8), Stefano Masi (2), Alberto Mazza (3), Paolo Palatini (3), Roberto Pontremoli (9), Paolo Verdecchia (9), Massimo Volpe (10), Guido Grassi (7), Claudio Borghi (9)  
(1) Brescia (ITALY), (2) Pisa (ITALY), (3) Padua (ITALY), (4) Palermo (ITALY), (5) Naples (ITALY), (6) L'Aquila (ITALY), (7) Milan (ITALY), (8) Reggio Calabria (ITALY), (9) Bologna (ITALY), Rome (ITALY)
- 10:35-10:45 **BURDEN OF DISEASE OF HYPERTENSION IN THE PHILIPPINES PROJECTED IN 2050**  
Leilani Mercado-Asis (1), Deborah Ignacia Ona (1), Dolores Bonzon (1), Gilbert Vilela (2), Alejandro Diaz (1), Benjamin Balmores (2), Marlon Co (3), Arnold Benjamin Mina (4), Esperanza Cabral (5), Abdias Aquino (2), Nelson Abelardo (1), Lynn Gomez (6), Les Paul Valdez (1), Rafael Castillo (1)  
(1) Manila (PHILIPPINES), (2) Quezon City (PHILIPPINES), (3) Cebu City (PHILIPPINES), (4) Silang, Cavite (PHILIPPINES), (5) Makati City (PHILIPPINES), (6) Muntinlupa City (PHILIPPINES)
- 10:45-10:55 **ESTIMATES OF CARDIOVASCULAR DISEASES BURDEN ATTRIBUTABLE TO HIGH SODIUM INTAKE FROM 1990 TO 2019: A SYSTEMATIC ANALYSIS OF DATA FROM THE GLOBAL BURDEN OF DISEASE STUDY**  
KEKE WANG, Jing Liu, Xiang Bu, Jianjun Mu  
*Xi'an (CHINA)*
- 10:55-11:15 **LECTURE: An Update on MMM project**  
N. Poulter (London, UNITED KINGDOM)
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10:15-11:15

MC 3

Oral Session 6

KIDNEY 1

Chairpersons: I. Lazareva (Minsk, RUSSIA), V. Stojanov (Belgrade, SERBIA)

- 10:15-10:35 **LECTURE: HTN and chronic disease cluster**  
F. Martinez (Valencia, SPAIN)
- 10:35-10:45 **IMPACT OF BODY FAT DISTRIBUTION, ADIPOCYTOKINES AND VARIABILITY IN ASSOCIATED GENES ON KIDNEY TRANSPLANT OUTCOMES**  
Roberto Nicolas Robles Perez (1), Guadalupe Garcia Pino (2), Enrique Luna (1), Maria Angeles Tormo (3), Sonia Mota-Zamorano (3), Luz M Gonzalez (3), Guillermo Gervasini (3)  
(1) Badajoz (SPAIN), (2) Zafra (SPAIN), (3) Badajoz (SPAIN)
- 10:45-10:55 **AORTIC CALCIFICATION INCREASES CENTRAL BLOOD PRESSURE RELATIVE TO BRACHIAL BLOOD PRESSURE IN CKD PATIENTS – A STUDY IN PATIENTS UNDERGOING ELECTIVE CORONARY ANGIOGRAPHY**  
Jakob Nyvad (1), Kent Lodberg Christensen (2), Gratien Andersen (3), Mark Reinhard (1), Sebastian Nielsen (1), Martin Thomsen (1), Jesper Møller Jensen (2), Bjarne Linde Nørgaard (2), Niels Henrik Buus (1)  
(1) Aarhus (DENMARK), (2) Aarhus (DENMARK), (3) Aarhus (DENMARK)
- 10:55-11:05 **KIDNEY SUBCLINICAL LESIONS IN HYPERTENSION PHENOTYPES DEFINED BY HOME BLOOD PRESSURE MONITORING AMONG YOUNG ADULTS ENROLLED IN A FAMILY HEALTH STRATEGY UNIT**  
Inah Maria Drummond Peclly, Ana Cristina Tenorio C. Fernandes, Rafael Barbosa Da S. Bica, Vitoria Santa Marinha Flumingnan, Beatriz Deberaldini Marinho, Luisa Leite Vaz Da Silva, Rodney Barberá Boghossian, Michelle Felipe Falcão, Valter Correa Branco Neto, Heito De O. M. Rego Bandeira, Carlos Augusto Parente M. Moura, Nathalia Rossilho Ushijima, Elizabeth Silaid Muxfeldt  
Rio de Janeiro (BRAZIL)
- 11:05-11:15 **DISENTANGLING THE SHARED HERITABILITY OF THE PREDISPOSITION TO HYPERTENSION AND TYPE 2 DIABETES**  
Yanina Timasheva (1), Zhanna Balkhiyarova (2), Inga Prokopenko (2)  
(1) Ufa (RUSSIAN FEDERATION), (2) Guildford (UNITED KINGDOM)
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10:15-11:15

CONFERENCE ROOM 1

Oral Session 7

ENDOCRINE AND GENETIC HYPERTENSION

Chairpersons: M. Azizi (Paris, FRANCE), G. Kaltsas (Athens, GREECE)

- 10:15-10:25 **DEVELOPMENT OF CLINICAL SCORING SYSTEM AND MACHINE LEARNING-BASED MODEL TO PREDICT DIAGNOSIS OF PRIMARY ALDOSTERONISM IN PATIENTS WITH HYPERTENSION**  
Fabrizio Buffolo (1), Jacopo Burrello (1), Alessio Burrello (2), Daniel Heinrich (3), Christian Adolf (3), Lisa Marie Muller (3), Rusi Chen (1), Vittorio Forestiero (1), Elisa Sconfienza (1), Martina Tetti (1), Franco Veglio (1), Tracy Ann Williams (1), Paolo Mulatero (1), Silvia Monticone (1)  
(1) Turin (ITALY), (2) Bologna (ITALY), (3) Munich (GERMANY)
- 10:25-10:35 **DEVELOPMENT OF AN ADRENOCORTICAL CELL MODEL OF CALCIUM SIGNALING MODULATION TO DECIPHER THE MOLECULAR MECHANISMS RESPONSIBLE FOR PRIMARY ALDOSTERONISM**  
Bakhta Fedlaoui, Teresa Cosentino, Zeina Al Sayed, Isabelle Giscos-Douriez, Fabio L Fernandes-Rosa, Jean -Sebastien Hulot (1), Chris Magnus (2), Scott M Sternson (2), Maria-Christina Zennaro (1), Sheerazed Boulkroun  
(1) Paris (FRANCE), (2) Ashburn, Virginia (USA)



**10:35-10:45 PROFILING CIRCULATING EXTRACELLULAR VESICLE SURFACE ANTIGENS IN PRIMARY ALDOSTERONISM**  
Jacopo Burrello (1), Martina Tetti (1), Vittorio Forestiero (1), Vanessa Biemmi (2), Sara Bolis (2), Margherita Pomatto (1), Martina Amongero (1), Dario Di Silvestre (3), Pierluigi Mauri (3), Giuseppe Vassalli (2), Giovanni Camussi (1), Tracy Ann Williams (1,4), Paolo Mulatero (1), Lucio Barile (2), Silvia Monticone (1)  
(1) Turin (ITALY), (2) Lugano (SWITZERLAND), (3) Milan (ITALY), (4) Munich (GERMANY)

**10:45-11:05 LECTURE: Essential hypertension: a fake entity**  
G. Rossi (Padua, ITALY)

**11:05-11:15 HIGHER SYSTOLIC BLOOD PRESSURE IN FEMALE PATIENTS WITH MITOCHONDRIAL DISEASE**  
JAAP DEINUM, Daan Viering, Marjolein D Van Borselen, René Bindels, Jeroen De Baaij, Mirian CH Janssen  
Nijmegen (THE NETHERLANDS)

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**11:00-12:00**

**SKALKOTAS ROOM**

**Minisymposium Supported by Medtronic**

**ADVANCING HYPERTENSION TREATMENT: BEYOND LIFESTYLE MODIFICATIONS AND MEDICATIONS**

Chairperson: K. Tsioufis (Athens, GREECE)

**11:00-11:04 Introduction**

K. Tsioufis (Athens, GREECE)

**11:04-11:14 Renal Denervation safety, durability and high-risk patients**

M. Schlaich (Perth, AUSTRALIA)

**11:14-11:29 Society Guidance on Incorporating Renal Denervation into the Hypertension Care Pathway**

K. Tsioufis (Athens, GREECE), J.A. Garcia-Donaire (Madrid, SPAIN)

**11:29-11:39 What does my patient want? Investigating the patient perspective**

A. Pathak (Monaco, MONACO)

**11:39-11:57 Overcoming Barriers: is RDN ready for prime time?**

R.E. Schmieder (Erlangen, GERMANY), A. Pathak (Monaco, MONACO), M. Schlaich (Perth, AUSTRALIA)

**11:57-12:00 Wrap up**

K. Tsioufis (Athens, GREECE)

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**11:15-12:15**

**A. TRIANTI ROOM**

**Workshop**

**HYPERTENSION AND CARDIOMETABOLIC RISK**

Chairpersons: J. Jordan (Cologne, GERMANY), G. Grassi (Milan, ITALY)

**11:15-11:25 Hypertension and lipid profile: new targets**

B. Levy (Paris, FRANCE)

**11:25-11:35 Hypertension and Uric acid: an update**

C. Borghi (Bologna, ITALY)

**11:35-11:45 Weight loss (Pharmacological, non pharmacological) and obesity related hypertension**

V. Kotsis (Thessaloniki, GREECE)

**11:45-11:55 Hypertension and insulin resistance: what is new**

B. Egan (Greenville, SC, USA)

**11:55-12:15 General discussion**

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11:30-12:30

**MITROPOULOS ROOM**

Hands On Supported by Aktiia

**CONTINUOUS CUFFLESS WEARABLE BLOOD PRESSURE DEVICES: POTENTIAL CLINICAL USES FOR THE OPTIMAL MANAGEMENT OF HYPERTENSION**

Chairperson: G.S. Stergiou (Athens, GREECE)

- 11:30-11:42 **Challenges of traditional BP monitors in understanding BP phenotype: seeing the movie, not the stillframe**  
N. Poulter (London, UNITED KINGDOM)
- 11:42-11:54 **Changing the goal: Time in target range now a realistic treatment target**  
A. Schutte (Sydney, AUSTRALIA)
- 11:54-12:06 **Cuffless BP measurement: the connected link between patients and physicians**  
G. Wuerzner (Lausanne, SWITZERLAND)
- 12:06-12:18 **Technology by itself will not help - the human interface as the final piece of the puzzle**  
J. Shah (USA)
- 12:18-12:30 **Q/A Session and Discussion**
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11:30-12:30

**BANQUETING ROOM**

Late-Breakers - ORAL SESSION 1

- 11:30-11:40 **PROGNOSTIC CUTOFF OF TRIGLYCERIDES PREDICTING CARDIOVASCULAR OUTCOME IN A LARGE REGIONAL-BASED ITALIAN DATABASE**  
Valerie Tikhonoff (1), Edoardo Casiglia (1), Agostino Virdis (2), Carlo Barbagallo (3), Massimo Cirillo (3), Giambattista Desideri (3), Claudio Ferri (3), Ferruccio Galletti (3), Guido Grassi (3), Cristina Giannattasio (3), Guido Iaccarino (3), Alberto Mazza (3), M Lorenza Muiesan (3), Paolo Palatini (3), Gianfranco Parati (3), Roberto Pontremoli (3), Paolo Verdecchia (3), Massimo Volpe (3), Andrea Ungar (3), Caludio Borghi (4)  
*(1) Padua (ITALY), (2) Pisa (ITALY), (3) Milan (ITALY), (4) Bologna (ITALY)*
- 11:40-11:50 **EFFECT OF THE COVID-19 PANDEMIC ON THE NYCHTHEMERAL BLOOD PRESSUREPROFILE**  
Daryl Tcheutchoua Nzokou, Phillipe Van De Borne, Martin Chaumont  
*(1) Brussels (BELGIUM)*
- 11:50-12:00 **INITIATION OF EMPAGLIFLOZIN THERAPY IS ASSOCIATED WITH A CLINICALLY RELEVANT DECREASE IN BLOOD PRESSURE IN PATIENTS WITH TYPE 2 DIABETES MELLITUS AND UNCONTROLLED HYPERTENSION**  
Agnieszka Kuzior, Alba Hernandez-Lazaro, Ricardo De Leon-Durango, Carlos Rios-Gomez, Claudia Arnas-Leon, Carmen Acosta-Calero, Paula Maria Fernandeztrujillo-Comenge, Ana Delia Santana-Suarez, Paula Gonzalez-Diaz, Francisco Javier Martinez Martin  
*Las Palmas de Gran Canaria (SPAIN)*
- 12:00-12:10 **AMBULATORY BLOOD PRESSURE MONITORING: A NEW DIAGNOSTIC APPROACH FOR DETECTION OF HYPOTENSION IN REFLEX SYNCOPE (SYNABPM 1 STUDY)**  
Giulia Rivasi (1), Antonella Gropelli (2), Michele Brignole (2), Davide Soranna (2), Antonella Zambon (2), Grzegorz Bilo (2), Martino Pengo (2), Bashaar Sharad (3), Viktor Hamrefors (3), Martina Rafanelli (1), Giuseppe Dario Testa (1), Ciara Rice (4), Rose Anne Kenny (4), Richard Sutton (5), Andrea Ungar (1), Artur Fedorowski (6), Gianfranco Parati (2)  
*(1) Florence (ITALY), (2) Milan (ITALY), (3) Malmo (SWEDEN), (4) Dublin (IRELAND), (5) London (UNITED KINGDOM), (6) Stockholm (SWEDEN)*
- 12:10-12:20 **PREVALENCE AND PREDICTORS OF NOCTURNAL BLOOD PRESSURE DIPPING IN CHRONIC KIDNEY DISEASE**  
Justina Motiejunaite (1,2), Natalia Alencar De Pinho (2), Florence Arnoult, Nahid Tabibzadeh (1), Francois Vrtovsniak (1), Martin Flamant (1), Emmanuelle Vidal-Petiot (1)  
*(1) Paris (FRANCE), (2) Villejuif (FRANCE)*

**12:20-12:30 ACUTE POST-DYNAMIC, ISOMETRIC AND COMBINED RESISTANCE EXERCISE HYPOTENSION IN PATIENTS WITH HYPERTENSION: A RANDOMIZED STUDY**  
Claudia Lucia De Moraes Forjaz, Laura G Oliveira-Silva, Natan D. Silva-Junior, Andrea Pio-Abreu, Gioviano V. Silva, Luciano L. Drager, Julio S. Sousa, Rafael Y. Fecchio  
*São Paulo (BRAZIL)*

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**11:30-12:30**

**ROOM MC 2**

**Minisymposium Supported by Sanofi**

**INITIAL SINGLE PILL COMBINATIONS IN HYPERTENSION MANAGEMENT**

Chairpersons: R. Kreutz (Berlin, GERMANY), A. Januszewicz (Warsaw, POLAND)

**11:30-11:55 A must**  
A. Persu (Brussels, BELGIUM)

**11:55-11:20 Not always**  
M. Burnier (Lausanne, SWITZERLAND)

**12:20-12:30 Panel Discussion and Q/A**

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**11:30-12:30**

**ROOM MC 3**

**Workshop**

**MASTERING: HYPERTENSION IN WOMEN FROM DIAGNOSIS TO TREATMENT**

Chairpersons: C. Thomopoulos (Athens, GREECE), R. Cifková (Prague, CZECH REPUBLIC)

**11:30-11:40 Assisted reproductive technology and hypertensive disorders in pregnancy**  
C. Thomopoulos (Athens, GREECE)

**11:40-11:50 Hypertension treatment of a woman planning a pregnancy**  
J. Brguljan-Hitij (Ljubljana, SLOVENIA)

**11:50-12:00 Treatment of hypertensive disorders during peri-partum**  
R. Cifková (Prague, CZECH REPUBLIC)

**12:00-12:10 Early screening for preeclampsia**  
P. Kosinski (Warsaw, POLAND)

**12:10-12:30 General discussion**

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**11:30-12:30**

**CONFERENCE ROOM 1**

**Oral Session 8**

**PRECISION MEDICINE AND ARTIFICIAL INTELLIGENCE IN HYPERTENSION**

Chairpersons: F. Pinto (Santa Maria Feira, PORTUGAL), P. E. Vardas (Athens, GREECE)

**11:30-11:40 PREDICTING THE PATTERN OF ANATOMICAL LEFT VENTRICULAR HYPERTROPHY USING ELECTROPHYSIOLOGICAL BIOMARKERS FROM THE ECG QRS COMPLEX IN HYPERTENSIVE INDIVIDUALS FROM UK BIOBANK**  
Hafiz Naderi, Julia Ramírez, Stefan Van Duijvenboden, Nay Aung, Kenneth Fung, William Young, Steffen Petersen, Patricia Munroe

**11:40-11:50 PROGNOSTIC SIGNIFICANCE OF BLOOD PRESSURE PARAMETERS FOR PREDICTING CARDIOVASCULAR DEATH**  
Weiting Wang  
*Taipei (TAIWAN)*

- 11:50-12:00**    **PREDICTIVE PERFORMANCE OF MACHINE LEARNING MODELS FOR DETECTION OF INCIDENT HEART FAILURE USING MULTI-CENTRE DATA**  
Frantisek Sabovcik, Evangelos Ntalianis, Nicholas Cauwenberghs, Tatiana Kuznetsova  
*Leuven (BELGIUM)*
- 12:00-12:10**    **TIME SERIES CLUSTERING OF LEFT ATRIAL STRAIN CURVES FOR RISK STRATIFICATION IN THE GENERAL POPULATION**  
Evangelos Ntalianis, Frantisek Sabovcik, Yne Daels, Nicholas Couwenberghs, Tatiana Kuznetsova  
*Leuven (BELGIUM)*
- 12:10-12:20**    **PREDICTING THE RISK OF SYNCOPE IN PATIENTS WITH AN INDICATION FOR ANTIHYPERTENSIVE TREATMENT: DEVELOPMENT OF THE STRATIFY-SYNCOPE PREDICTION MODEL**  
KOSHIARIS CONSTANTINOS, Richard Stevens, F.D. Richard Hobbs, Richard J. Mcmanus, James P. Sheppard  
*Oxford (UNITED KINGDOM)*
- 12:20-12:30**    **ASSOCIATIONS BETWEEN EPICARDIAL FAT AND LEFT VENTRICULAR GEOMETRY IN YOUNG NON-OBESE HYPERTENSIVES**  
Irina Khomova, Anastasia Khramkova, Elena Shavarova, Nadezhda Ezhova, Ekaterina Shkolnikova, Maya Maksimova, Olga Aryutina, Zhanna Kobalava  
*Moscow (RUSSIA)*
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**13:00-14:30**

**A. TRIANTI ROOM**

Satellite Symposium Supported by Servier

**WITH THE RECENT BP TARGETS, WHAT IS THE NEW FRONTIER FOR TRIPLE SPC AND BEYOND?**

Chairpersons: K. Narkiewicz (Gdansk, POLAND), A. Pathak (Monaco, MONACO)

- 13:00-13:03**    **Introduction**  
A. Pathak (Monaco, MONACO)
- 13:03-13:23**    **Ambitious guidelines and daily clinical practice: how to fill the gap?**  
K. Narkiewicz (Gdansk, POLAND)
- 13:23-13:43**    **Triple single-pill combination (SPC): when and for whom?**  
C. Borghi (Bologna, ITALY)
- 13:43-14:03**    **Beyond triple therapy: what are the next steps?**  
A. Pathak (Monaco, MONACO)
- 14:03-14:28**    **Panel discussion: How to improve the management of hypertension in daily clinical practice: is there a need for an innovative approach?**  
Panelists: K. Narkiewicz (Gdansk, POLAND), C. Borghi (Bologna, ITALY), A. Pathak (Monaco, MONACO), M. Burnier (Lausanne, SWITZERLAND)
- 14:28-14:30**    **Conclusion**  
K. Narkiewicz (Gdansk, POLAND)

13:30-14:30

**SKALKOTAS ROOM**

**Workshop**

**WEARABLE BLOOD PRESSURE MONITORS: HAS TIME COME?**

Chairpersons: G.S. Stergiou (Athens, GREECE), A. Avolio (Sydney, AUSTRALIA)

**13:30-13:38 Devices available on the market**

J. Sharman (Hobart, AUSTRALIA)

**13:38-13:46 Different technologies and device types**

R. Mukkamala (Pittsburgh, PA, USA)

**13:46-14:04 Accuracy issues and validation protocol**

K. Kyriakoulis (Athens, GREECE)

**14:04-14:12 Recommendations and future developments**

A. Avolio (Sydney, AUSTRALIA)

**14:12-14:24 Comments**

K. Asayama (Tokyo, JAPAN), A. Schutte (Sydney, AUSTRALIA), G. Wuerzner (Lausanne, SWITZERLAND)

**14:24-14:30 General discussion**

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13:30-14:30

**ROOM MC 2**

**Oral Session 9**

**SPECIFIC HOT ISSUES IN HYPERTENSION (PREGNANCY, ADULthood, EMERGENCY)**

Chairpersons: E. Hatziagelaki (Athens, GREECE), R. Cifková (Prague, CZECH REPUBLIC)

**13:30-13:40 CURRENT PRACTICES OF BP MEASUREMENT IN CHILDREN AND ADOLESCENTS ACROSS EUROPEAN COUNTRIES: A SURVEY BY THE HYPERCHILDNET COST ACTION WG ON DEVICES**

Styliani Stampouli, Fabiana Floriano (2,3), Beatriz López-Valcárcel (3), Elke Wuhl (4), Empar Lurbe (5,6) (1) Thessaloniki (GREECE), (2) Bahia (BRAZIL), (3) Las Palmas (SPAIN), (4) Heideberg (GERMANY), (5) Valencia (SPAIN), (6) Madrid (SPAIN)

**13:40-13:50 CIRCADIAN BLOOD PRESSURE PROFILE IN PEDIATRIC PATIENTS WITH PRIMARY HYPERTENSION**

Piotr Skrzypczyk, Anna Ofiara, Michal Szyszka, Anna Wabik, Radoslaw Pietrzak, Bozena Werner, Malgorzata Panczyk-Tomaszewska  
Warsaw (POLAND)

**13:50-14:00 SERUM MYOSTATIN IS ASSOCIATED WITH PULSE WAVE VELOCITY RATIO IN HEALTHY ADOLESCENTS. THE MACISTE STUDY.**

Giacomo Pucci (1), Marco D'abbondanza (2), Rosa Curcio (1), Riccardo Alcidi (2), Tommaso Campanella (1), Lorenzo Chiatti (1), Vito Veca (2), Leandro Sanesi (2), Fabio Anastasio (3), Luisa Nunziangeli (4), Stefano Ministrini (1,5), Gaetano Vaudo (1) (1) Perugia (ITALY), (2) Terni (ITALY), (3) Mondovì (ITALY), (4) Terni (ITALY), (5) Zurich (SWITZERLAND)

**14:00-14:10 PERSISTENCE OF BLOOD PRESSURE PHENOTYPES ACCORDING TO OFFICE AND 24 HOUR AMBULATORY BLOOD PRESSURE IN CHILDREN**

Fernando Martinez (1,2), Julio Alvarez (3,4), Francisco Ponce (4), Josep Redon (2,4), Empar Lurbe (3,4) (1) Valencia (SPAIN), (2) Valencia (SPAIN), (3) Valencia (SPAIN), (4) Madrid (SPAIN)

**14:10-14:20 AGE AS A RISK FACTOR FOR CARDIOVASCULAR EVENTS IN PATIENTS WITH HYPERTENSIVE CRISES AFTER 12-MONTH FOLLOW-UP: A GREEK REGISTRY**

Christos Fragkoulis, Dimitrios Polyzos, Andreas Mavroudis, Kyriakos Dimitriadis, Maria Kariori, Ioannis Leontsinis, Ioannis Andrikou, Niki Kakouri, Maria Kouremeti, Kalliopi Grigoriou, Costas Thomopoulos, Dimitrios Konstantinidis, Konstantinos Tsioufis  
Athens (GREECE)

**14:20-14:30 ACUTE CORONARY SYNDROMES DURING PREGNANCY AND POST-PARTUM IN FRANCE, THE NATIONWIDE CONCEPTION STUDY**  
jacques Blacher (1), Gregory Lailier (1), Amélie Gabet (1), Clémence Grave (1), Nolwenn Regnault (1), Catherine Deneux-Tharoux (2), Sandrine Kretz (1), Vassilis Tsatsaris (1), Geneviève Plu-Bureau (1), Valérie Olié (2)  
(1) *Paris (FRANCE)*, (2) *Saint-maurice (FRANCE)*

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**14:00-15:00**  
**ROOM MC 3**

**Oral Session 10**

**EXPERIMENTAL HYPERTENSION AND PHARMACOLOGY**

Chairpersons: S. Filipová (Bratislava, SLOVAK REPUBLIC), T. McCormack (London, UNITED KINGDOM)

**14:00-14:10 FINERENONE PREVENTS RENAL AND VASCULAR DAMAGE IN A NOVEL MODEL OF TYPE 1 DIABETES MELLITUS**

Marta Sanz-Gómez (1), Elena Vega-Martín (1), Daniel González-Moreno (2), Chiara Pizzamiglio (1), Francisco J. Manzano-Lista (1), Peter Kolkhof (3), Reinhold Kreutz (4), María S. Fernández-Alfonso (1)  
(1) *Madrid (SPAIN)*, (2) *Madrid (SPAIN)*, (3) *Wuppertal (GERMANY)*, (4) *Berlin (GERMANY)*

**14:10-14:20 NOX5 EXPRESSION IN A VASCULAR SMOOTH MUSCLE CELL-SPECIFIC MANNER INDUCES FIBROBLAST PHENOTYPIC SWITCH AND PRO-FIBROTIC EFFECTS**

Augusto Montezano (1), Francisco Rios (1), Zachariel Blaikie (1), Tomador Saad (1), Livia Camargo (1), Roberto Palacios-Ramirez (2), Antoine Tarjus (2), Agnieszka Sagan (1), Wendy Beattie (1), Tomasz Guzik (1), Frederic Jaisser (2), Delyth Graham (1), Rhian Touyz (1)  
(1) *Glasgow (UNITED KINGDOM)*, (2) *Paris (FRANCE)*

**14:20-14:30 THERAPEUTIC EFFECTS OF NEBULIZATION- BASED DELIVERY OF ANTI-MIR-146A IN EXPERIMENTAL PULMONARY ARTERIAL HYPERTENSION**

Joana Gomes, Pedro Ferreira (1,2), Rui Adão, Carolina Rocha, Inês Vasconcelos, Beatriz Rego, Pedro Salvador, Adelino Moreira, Carmén Silva  
(1) *Porto (PORTUGAL)*, (2) *Paris (FRANCE)*

**14:30-14:50 LECTURE: Novelties in assessing organ damage**

E. Agabiti-Rosei (Brescia, ITALY)

**14:50-15:00 THROMBOXANE-DEPENDENT CORONARY VASOCONSTRICTION IN OBESE MICE: ROLE OF PEROXYNITRITE**

Elisa Villa, Amelia Rios, Bruno Escalante  
*Apodaca (MEXICO)*

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**14:00-15:00**  
**CONFERENCE ROOM 1**

**Oral Session 11**

**BLOOD PRESSURE MEASUREMENT 1**

Chairpersons: V. Katsi (Athens, GREECE), F. Limbourg (Hannover, GERMANY)

**14:00-14:20 LECTURE: How to prescribe exercise in the management of hypertensive patients**

V. Cornelissen (Leuven, BELGIUM)

**14:20-14:30 HOME BLOOD PRESSURE MONITORING SCHEDULE: OPTIMAL AND MINIMUM BASED ON 2,122 INDIVIDUAL SUBJECTS' DATA**

Konstantinos Kyriakoulis (1), Angeliki Ntineri (1), Teemu Niiranen (2), Annika Lindroos (2), Antti Jula (2), Claire Schwartz (3), Anastasios Kollias (1), Emmanuel Andreadis (1), Richard McManus (3), George Stergiou (1)  
(1) *Athens (GREECE)*, (2) *Turku (FINLAND)*, (5) *Oxford (UNITED KINGDOM)*

- 14:30-14:40 WHITE-COAT HYPERTENSION WITHOUT ORGAN DAMAGE: IMPACT OF LONG-TERM MORTALITY, NEW HYPERTENSION AND NEW ORGAN DAMAGE**  
Gino Seravalle (1), Rita Facchetti (2), Jennifer Vanoli (2), Raffaella Dell'oro (2), Guido Grassi (2), Giuseppe Mancina (2)  
(1) Milan (ITALY), (2) Monza (ITALY)
- 14:40-14:50 RISK STRATIFICATION BY CROSS-CLASSIFICATION OF CENTRAL AND BRACHIAL SYSTOLIC BLOOD PRESSURE**  
Yi -Bang Cheng (1), Lutgarde Thijs (2), Lucas S. Aparicio (3), Qi -Fang Huang (1), Fang -Fei Wei (2), Yu -Ling Yu (2), Jessica Barochiner (3), Chang -Sheng Sheng (1), Wen-Yi Yang (2), Teemu J. Niiranen (4), José Boggia (5), Zhen -Yu Zhang (2), Katarzyna Stolarz-Skrzypek (6), Natasza Gilis-Malinowska (7), Valérie Tikhonoff (8), Wiktorija Wojciechowska (6), Edoardo Casiglia (8), Krzysztof Narkiewicz (7), Jan Filipovský (9), Kalina Kawecka-Jaszcz (6), Ji -Guang Wang (1), Yan Li (1), Jan A. Staessen (10)  
(1) Shanghai (CHINA), (2) Leuven (BELGIUM), (3) Buenos Aires (ARGENTINA), (4) Turku (FINLAND), (5) Montevideo (URUGUAY), (6) Kraków (POLAND), (7) Gdansk (POLAND), (8) Padua (ITALY), (9) Pilsen (CZECH REPUBLIC), (10) Mechelen (BELGIUM)
- 14:50-15:00 ANTIHYPERTENSIVE DRUG TREATMENT IN WHITE-COAT HYPERTENSION: DATA FROM THE PLAQUE HYPERTENSION LIPID-LOWERING ITALIAN STUDY (PHYLLIS)**  
Fosca Quarti-Trevano (1), Gino Seravalle (2), Raffaella Dell'Oro (1), Rita Facchetti (1), Guido Grassi (1), Giuseppe Mancina (1)  
(1) Monza (ITALY), (2) Milan (ITALY)
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**14:30-16:00**

**BANQUETING ROOM**

**Teaching Seminar - Session 1**

**BLOOD PRESSURE MEASUREMENT. WHAT THE 2021 ESH PRACTICE GUIDELINES RECOMMEND**

Chairpersons: D.L. Clement (Ghent, BELGIUM), A. de la Sierra (Terrassa-SELECT, SPAIN)

- 14:30-14:50 Office blood pressure measurement**  
R. Asmar (Paris, FRANCE)
- 14:50-15:10 Ambulatory blood pressure monitoring**  
P. Palatini (Padua, ITALY)
- 15:10-15:30 Home blood pressure monitoring**  
G. Bilo (Milan, ITALY)
- 15:30-15:50 Pharmacy/Kiosk/Telemonitoring**  
A. Mihailidou (Kensington, AUSTRALIA)
- 15:50-16:00 General Discussion**
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**14:45-15:45**

**A. TRIANTI ROOM**

**Oral Session 12**

**HYPERTENSION IN CHILDREN**

Chairpersons: M. Miglinas (Vilnius, LITHUANIA)

- 14:45-14:55 VASCULAR AGING IN THE YOUNG: CAROTID STIFFNESS POPULATION CENTILES AND ASSOCIATION WITH BLOOD PRESSURE IN THE KIGGS COHORT**  
Julia Büschges (1), Angelika Schaffrath Rosario, Giselle Sarganas (1), Karsten Königstein (1,2), Arno Schmidt-Trucksäss (2), Hannelore Neuhauser (1)  
(1) Berlin (GERMANY), (2) Basel (SWITZERLAND)
- 14:55-15:05 COMMON CAROTID ARTERY ELASTICITY, INTIMA-DIAMETER RATIO, AND TENSILE STRESS IN PEDIATRIC PATIENTS WITH PRIMARY HYPERTENSION**  
Michał Szyszka, Piotr Skrzypczyk, Anna Ofiara, Anna Wabik, Małgorzata Panczyk-Tomasz  
Warsaw (POLAND)



- 15:05-15:15**    **THE PREVALENCE AND IMPACT OF ISOLATED DIASTOLIC HYPERTENSION IN CHILDREN.**  
Robert Myette (1), Lukasz Obrycki (2), Mieczyslaw Litwin (2), Tomas Seeman (3,4), Janusz Feber (1)  
(1) Ottawa (CANADA), (2) Warsaw (POLAND), (3) Prague (CZECH REPUBLIC), (4) Munich (GERMANY)
- 15:15-15:25**    **SYSTOLIC AND DIASTOLIC LEFT VENTRICULAR DYSFUNCTION IN CHILDREN WITH  
PRIMARY HYPERTENSION: A SYSTEMATIC REVIEW**  
Karolis Azukaitis (1), Rina Rus (2), Elif Sagsak (3), Augustina Jankauskiene (1), Manish Sinha (4),  
Mieczyslaw Litwin (5), Hyperchildnet Wg3 (6)  
(1) Vilnius (LITHUANIA), (2) Ljubljana (SLOVENIA), (3) Istanbul (TURKEY),  
(4) London (UNITED KINGDOM), (5) Warsaw (POLAND), (6) Valencia (SPAIN)
- 15:25-15:45**    **LECTURE: Pediatric primary hypertension: gaps in knowledge and needed research**  
E. Lurbe (Valencia, SPAIN)
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**15:00-16:00**

**MITROPOULOS ROOM**

Minisymposium Supported by Menarini

**A NOBEL PRIZE MOLECULE FOR HYPERTENSION**

Chairpersons: R. Kreutz (Berlin, GERMANY), G. Mancia (Milan, ITALY)

- 15:00-15:05**    **Introduction**  
R. Kreutz (Berlin, GERMANY)
- 15:05-15:20**    **The burden of Hypertension: are we doing enough?**  
G. Mancia (Milan, ITALY)
- 15:20-15:35**    **One size does not fit all: NO-based unique features of nebivolol**  
A.J. Manolis (Athens, GREECE)
- 15:35-15:50**    **When blood pressure needs more control, what's better?**  
M. Volpe (Rome, ITALY)
- 15:50-16:00**    **Q&A session and Closing remarks**
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**15:00-16:00**

**SKALKOTAS ROOM**

Joint Session ESH-ESC (European Society of Cardiology)

**HYPERTENSION AND ORGAN DAMAGE**

Chairpersons: E. Agabiti-Rosei (Brescia, ITALY), T. Kahan (Stockholm, SWEDEN)

- 15:00-15:12**    **Left ventricular hypertrophy in hypertensive children and adolescents**  
E. Lurbe (Valencia, SPAIN)
- 15:12-15:24**    **The right ventricle in hypertension**  
M. Tadic (Berlin, GERMANY)
- 15:24-15:36**    **Cardiac effects of renal denervation**  
F. Mahfoud (Homburg/Saar, GERMANY)
- 15:36-15:48**    **Heart failure in patients with CKD: what are the lessons from recent outcome trials?**  
P. Sarafidis (Thessaloniki, GREECE)
- 15:48-16:00**    **General Discussion**
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15:00-15:45

**ROOM MC 2**

**Meet-the-Expert**

**TREATING HTN AND DM TO PREVENT HF. ONE SHOT - ONE KILL?**

Coordinator: G. Filippatos (Athens, GREECE)

15:00-15:15 **The CKD therapeutic perspective**

Expert: G. Bakris (Chicago, USA)

15:15-15:30 **The HF therapeutic perspective**

Expert: M. Böhm (Homburg / Saar, GERMANY)

15:30-15:45 **The DM therapeutic perspective**

Expert: P. Rossing (Copenhagen, DENMARK)

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15:00-16:00

**ROOM MC 3**

**How-to Session**

**HYPERTENSION IN BLACK AFRICANS: CONSENSUS STATEMENT OUTLINE**

Chairpersons: N. Ntusi (Cape Town, SOUTH AFRICA), N. Poulter (London, UNITED KINGDOM)

15:00-15:06 **Introduction**

N. Poulter (London, UNITED KINGDOM)

15:06-15:14 **The Burden of Hypertension in Africa**

F. Bukachi (Nairobi, KENYA)

15:14-15:22 **Determinants, Characteristics and Pathophysiology of Hypertension in Africa**

E. Jones (Cape Town, SOUTH AFRICA)

15:22-15:27 **Question Time**

15:27-15:35 **Awareness, Treatment and Control of Hypertension in Africa**

A. Dzudie (Yaounde, CAMEROON)

15:35-15:43 **Optimal Management**

D. Ojji (Abuja, NIGERIA)

15:43-15:48 **Question Time**

15:48-15:54 **Future Research and Prospects**

N. Ntusi (Cape Town, SOUTH AFRICA)

15:54-16:00 **Close of Meeting**

E. Ogola (Nairobi, KENYA)

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15:00-16:00

**CONFERENCE ROOM 1**

**Oral Session 13**

**MOLECULAR MECHANISMS**

Chairpersons: F.J. Charchar (Ballarat, AUSTRALIA), M. Marketou (Heraklion, GREECE)

15:00-15:10 **ASSOCIATIONS BETWEEN PLASMA METABOLOMICS AND BLOOD PRESSURE ACROSS ETHNICITIES: THE HELIUS STUDY**

Barbara Verhaar (1), Charlotte M. Mosterd (1), Didier Collard (1), Henrike Galenkamp (1), Bert-Jan H. van den Born (1), Majon Muller (1), Elena Rampanelli (1), Max Nieuwdorp (1,2), Daniël H. van Raalte (1)

(1) Amsterdam (THE NETHERLANDS), (2) Gothenburg (SWEDEN)

- 15:10-15:20 THE CAUSAL ROLE OF SERUM CALCIUM, PTH AND FGF23 ON BLOOD PRESSURE: ACTWO-SAMPLE MENDELIAN RANDOMIZATION**  
Alice Giontella (1), Luca A. Lotta (2), John D. Overton (2), Aris Baras (2), Regeneron Genetics Center (2), Pietro Minuz (1), Olle Melander (3), Cristiano Fava (1)  
(1) Verona (ITALY), (2) Tarrytown (USA), (3) Malmö (SWEDEN)
- 15:20-15:30 HIGH MOBILITY GROUP BOX-1 IS INCREASED IN NEWLY DIAGNOSED ESSENTIAL HYPERTENSIVES AND CORRELATES WITH HYPERTENSION-MEDIATED TARGET ORGAN DAMAGE**  
Antonios Lazaridis, Eleni Gavriilaki, Panagiotis Dolgyras, Nikolaos Koletsos, Areti Triantafyllou, Panagiota Anyfanti, Olga Pavlidou, Kyriakos Goulas, Stella Douma, Eugenia Gkaliagkousi  
Thessaloniki (GREECE)
- 15:30-15:40 PATIENTS WITH PSORIASIS PRESENT IMPAIRED MICROVASCULAR REACTIVITY INDEPENDENTLY OF TRADITIONAL CARDIOVASCULAR RISK FACTORS**  
Anastasia Margouta, Panagiota Anyfanti, Barbara Nikolaidou, Panagiotis Dolgyras, Antonios Lazaridis, Nikolaos Vakalopoulos, Elizabeth Lazaridou, Aikaterini Patsatsi, Stella Douma, Eugenia Gkaliagkousi  
Thessaloniki (GREECE)
- 15:40-16:00 LECTURE: How to implement genetic testing in cardiovascular medicine**  
M.J. Caulfield (London, UNITED KINGDOM)
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**16:30-18:00**

**A. TRIANTI ROOM**

**Plenary Session 2**

**ANTIHYPERTENSIVE THERAPY 2022**

Chairpersons: M. Volpe (Rome, ITALY), M.A. Weber (New York, USA)

**Debate: B-BLOCKER AS FIRST LINE INCLUDING UNCOMPLICATED HTN?**

- 16:30-16:40 Yes**  
K. Narkiewicz (Gdansk, POLAND)
- 16:40-16:45 Discussion**
- 16:45-16:55 No**  
I. Wilkinson (Cambridge, UNITED KINGDOM)
- 16:55-17:00 Discussion**

**Debate: RAS BLOCKERS TO ALL?**

- 17:00-17:10 Yes**  
A.H.J. Danser (Rotterdam, THE NETHERLANDS)
- 17:10-17:15 Discussion**
- 17:15-17:25 No**  
A.M. Heagerty (Manchester, UNITED KINGDOM)
- 17:25-17:30 Discussion**

**Debate: IS SPIRONOLACTONE THE BEST FOURTH DRUG?**

- 17:30-17:40 Yes**  
M. Brown (London, UNITED KINGDOM)
- 17:40-17:45 Discussion**
- 17:45-17:55 No**  
P. van de Borne (Brussels, BELGIUM)
- 17:55-18:00 Discussion**
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16:30-17:30

**SKALKOTAS ROOM**

Joint Session ESH-ARTERY Society

**ARTERIAL BIOMARKERS IN CLINICAL HYPERTENSION: HOW TO MOVE EVEN FURTHER?**

Chairpersons: B. Spronck (Maastricht, THE NETHERLANDS), T. Weber (Wels, AUSTRIA)

- 16:30-16:40 **How to design the ideal RCT to test the clinical impact of arterial stiffness**  
C. McEniery (Cambridge, UNITED KINGDOM)
- 16:40-16:45 **Comment**  
Discussant: T. Kahan (Stockholm, SWEDEN)
- 16:45-16:55 **How to design the ideal RCT to test the clinical impact of aortic blood pressure?**  
J. Sharman (Hobart, AUSTRALIA)
- 16:55-17:00 **Comment**  
Discussant: P. Boutouyrie (Paris, FRANCE)
- 17:00-17:10 **Can we improve our clinical practice using pressure waveform analysis?**  
B. Hametner (Vienna, AUSTRIA)
- 17:10-17:15 **Comment**  
Discussant: *TBD*
- 17:15-17:25 **How to combine arterial biomarkers to improve cardiovascular risk stratification?**  
J. Nemcsik (Budapest, HUNGARY)
- 17:25-17:30 **Comment**  
Discussant: C. Rajkumar (Brighton, UNITED KINGDOM)
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17:00-18:00

**BANQUETING ROOM**

Clinical Cases Session

**HOW TO MANAGE A HYPERTENSIVE PATIENT WITH ELECTROLYTE DISORDERS**

Chairpersons: D. Petras (Athens, GREECE), A. Postadzhiyan (Sofia, BULGARIA)

- 17:00-17:15 **A 72 years old hypertensive diabetic female with high serum potassium levels ( $K^+=5.4\text{mEq/l}$ )**  
E. Mantzouranis (Athens, GREECE), C. Chrysohoou (Athens, GREECE)
- 17:15-17:20 **Discussion**
- 17:20-17:35 **A 82 years old uncontrolled hypertensive male with ankle edema and low serum sodium levels ( $Na^{++}=126\text{mEq/l}$ )**  
M. Burnier (Lausanne, SWITZERLAND), K. Damianaki (Lausanne, SWITZERLAND)
- 17:35-17:40 **Discussion**
- 17:40-17:55 **A 36-year-old hypertensive female with severe hypokalemia 1.3-2.5 mEq/l**  
T. Kamenova (BULGARIA), J. Matrozova (BULGARIA)
- 17:55-18:00 **Discussion**
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**18:15-19:15**

**A. TRIANTI ROOM**

Joint Session ESH-ACC (American College of Cardiology)

**HOME BLOOD PRESSURE MONITORING- AMERICAN AND EUROPEAN PERSPECTIVES AND FUTURE DIRECTIONS**

Chairpersons: E. Yang (Bellevue, WA, USA), R. Kreutz (Berlin, GERMANY)

**18:15-18:25 Home blood pressure monitoring- US perspective**

N. Bello (Los Angeles, CA, USA)

**18:25-18:35 Home blood pressure monitoring - European perspective**

A. Ntineri (Athens, GREECE)

**18:35-19:05 Panel Discussion**

G.S. Stergiou (Athens, GREECE), K. Ferdinand (New Orleans, LA, USA), N. Bello (Los Angeles, CA, USA),  
A. Ntineri (Athens, GREECE)

**19:05-19:15 Questions and Answers**

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**18:15-19:15**

**MITROPOULOS ROOM**

Joint Session ESH-HSH and Hellenic Society of Internal medicine, Hellenic Atherosclerosis Society and  
Hellenic Society of Cardiology

**DIABETES AND CARDIOMETABOLIC RISK FACTORS**

Chairpersons: I. Kanakakis (GREECE), T. Makris (Athens, GREECE)

**18:15-18:27 Sympathetic overactivity in cardiometabolic disease**

G. Grassi (Milan, ITALY)

**18:27-18:39 Obesity induced atherogenic dyslipidemia**

E. Liberopoulos (Athens, GREECE)

**18:39-18:51 Obesity induced damage in the heart, liver and vessels beyond classical risk factors**

V. Kotsis (Thessaloniki, GREECE)

**18:51-19:03 How to screen an asymptomatic diabetic hypertensive patient for CAD**

N. Tentolouris (Athens, GREECE)

**19:03-19:15 General Discussion**

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**18:15-19:15**

**SKALKOTAS ROOM**

Clinical Cases Session

**HOW TO MANAGE A HYPERTENSIVE PATIENT WITH COMORBIDITIES**

Chairpersons: Y. Sharabi (Tel Hashomer, ISRAEL), Š. Sokolovic (Sarajevo, BOSNIA AND HERZEGOVINA)

**18:15-18:30 A 42 years old hypertensive patient with OSAS**

N. Karpettas (Nicosia, CYPRUS)

**18:30-18:35 Discussion**

**18:35-18:50 A 82 years old hypertensive patient with Parkinson disease**

I. Leontsinis (GREECE)

**18:50-18:55 Discussion**

**18:55-19:10 A 78 years old patient with CKD and anemia**

M. van der Giet (Berlin, GERMANY)

**19:10-19:15 Discussion**

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**18:15-19:15**

**BANQUETING ROOM**

**Clinical Cases Session**

**HOW TO MANAGE HYPERTENSION IN ADOLESCENTS**

Chairpersons: S. Stabouli (Thessaloniki, GREECE), B. Falkner (Philadelphia, USA)

**18:15-18:30**    **Obese adolescent with systolic hypertension**

P. Iliakis (Athens, GREECE), D. Konstantinidis (Athens, GREECE)

**18:30-18:35**    **Discussion**

**18:35-18:50**    **Adolescent with CAKUT (Congenital Anomaly of Kidney and Urinary Tract) and stage 1 hypertension**

K. Chrysaidou (Thessaloniki, GREECE)

**18:50-18:55**    **Discussion**

**18:55-19:10**    **Adolescent with acute severe hypertension**

K. Azukaitis (Vilnius, LITHUANIA), A. Jankauskiene (Vilnius, LITHUANIA)

**19:10-19:15**    **Discussion**

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# SUNDAY, JUNE 19

07:45-08:45

## MITROPOULOS ROOM

### Breakfast Session

#### GREY ZONES IN THE FIELD OF HYPERTENSION TREATMENT

Chairpersons: D. Tousoulis (GREECE), D. Gaita (Timisoara, ROMANIA)

- 07:45-07:57    **Use of aspirin for primary prevention**  
M. Viigimaa (Tallin, ESTONIA)
- 07:57-08:09    **Are there gender differences in clinical management?**  
E. Gerdts (Bergen, NORWAY)
- 08:09-08:21    **Should white coat HTN be treated**  
D. Konstantinidis (Athens, GREECE)
- 08:21-08:45    **General Discussion**
- 

07:45-08:45

## SKALKOTAS ROOM

### Breakfast Session

#### LIVING IN AN UNHEALTHY ENVIRONMENT.    HOW TO ACHIEVE BLOOD PRESSURE TARGETS

Chairpersons: C. Faselis (Washington, DC, USA), M. Marketou (Heraklion, GREECE),  
E. Shlyakhto (Saint Petersburg, RUSSIA)

- 07:45-07:55    **In case of very high altitude**  
G. Bilo (Milan, ITALY)
- 07:55-08:05    **In case of so much noise**  
*TBD*
- 08:05-08:15    **In case of Ambient temperature**  
P.A. Modesti (Florence, ITALY)
- 08:15-08:25    **In case of Air pollution**  
C. Grassos (Athens, GREECE)
- 08:25-08:45    **General Discussion**
- 

07:45-08:45

## BANQUETING ROOM

### Breakfast Session

#### UNDERSTANDING BETTER THE COGNITIVE IMPAIRMENT IN HYPERTENSION

Chairpersons: N. Khan (Vancouver, CANADA), S. Papageorgiou (Athens, GREECE)

- 07:45-07:57    **Blood pressure variability and cognition**  
C. Tzourio (Bordeaux, FRANCE)
- 07:57-08:09    **How to detect and monitor cognitive impairment in hypertensive patients**  
P. Guimarães Cunha (Guimaraes, PORTUGAL)
- 08:09-08:21    **Optimal antihypertensive treatment in prevention and treatment of Dementia**  
A. Coca (Barcelona, SPAIN)
- 08:21-08:45    **General Discussion**
-

07:45-08:45

**ROOM MC 2**

Breakfast Session

**HYPERTENSION AND STROKE**

Chairpersons: C. Savopoulos (Thessaloniki, GREECE), D. Lovic (Nis, SERBIA)

- 07:45-07:57 **Optimal blood pressure for mechanical thrombectomy in acute ischemic stroke patients**  
G. Tsivgoulis (Athens, GREECE)
- 07:57-08:09 **Blood pressure targets in the post-acute phase of stroke in different stroke subtypes**  
D. Gasecki (Gdansk, POLAND)
- 08:09-08:21 **The impact of blood pressure variability on stroke risk**  
D. Hering (Gdansk, POLAND)
- 08:21-08:45 **General Discussion**
- 

07:45-08:45

**ROOM MC 3**

Breakfast Session

**UNDERSTANDING BETTER HYPERTENSION IN OLDER ADULTS**

Chairpersons: M. Camafort (Barcelona, SPAIN), A. Benetos (Nancy, FRANCE)

- 07:45-07:57 **Assessment of frailty markers: interest and feasibility issues**  
A. Benetos (Nancy, FRANCE)
- 07:57-08:09 **How to start and when to up titrate drug treatment**  
A. Ungar (Florence, ITALY)
- 08:09-08:21 **Deprescribing antihypertensive treatment: In whom, how and when should we attempt it?**  
J. Sheppard (Oxford, UNITED KINGDOM)
- 08:21-08:45 **General Discussion**
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07:45-08:45

**CONFERENCE ROOM 1**

Breakfast Session

**SHIFTING EXERCISE RECOMMENDATIONS IN HYPERTENSION AND COMORBIDITIES**

Chairpersons: A. Pittaras (Athens, GREECE), P. Kokkinos (Washington, DC, USA), J. Zafiris (GREECE)

- 07:45-07:57 **Exercise recommendations for hypertensive patients: With or without cardiovascular risk factors**  
P. Kokkinos (Washington, DC, USA)
- 07:57-08:09 **Exercise recommendations for hypertensive patients: with atrial fibrillation**  
A. Pittaras (Athens, GREECE)
- 08:09-08:21 **Exercise recommendations for hypertensive patients: With CAD**  
B. Weisser (Kiel, GERMANY)
- 08:21-08:45 **General Discussion**
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08:00-09:00

**A. TRIANTI ROOM**

Joint Session ESH-KSH (Korean Society of Hypertension)

**CURRENT CONCEPTS OF HYPERTENSION MANAGEMENT IN YOUNG PATIENTS**

Chairpersons: S.-H. Ihm (Bucheon, SOUTH KOREA), E. Lurbe (Valencia, SPAIN)

- 08:00-08:12 **Suboptimal management of young hypertensive patients in Korea**  
H.-Y. Lee (Seoul, SOUTH KOREA)
- 08:12-08:24 **HMOD in hypertensive youth: assessment and clinical implications**  
A. Jankauskiene (Vilnius, LITHUANIA)
- 08:24-08:36 **Adherence to antihypertensive medications and CVD risk in young hypertensive patients**  
H.C. Kim (Seoul, SOUTH KOREA)
- 08:36-08:48 **Insights on ambulatory blood pressure monitoring in youth**  
E. Lurbe (Valencia, SPAIN)
- 08:48-09:00 **General Discussion**
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09:00-10:00

**SKALKOTAS ROOM**

Joint Session ESH-ERA (European Renal Association)

**CURRENT CONCEPTS IN HYPERTENSION AND KIDNEY DISEASE**

Chairpersons: M. Burnier (Lausanne, SWITZERLAND), R. Kreutz (Berlin, GERMANY)

- 09:00-09:12 **Nephroprotection in diabetic kidney disease from ACEIs/ARBs to SGLT-2 inhibitors and MRAs. Are we at the end of the road?**  
C. Wanner (GERMANY)
- 09:12-09:24 **Fluid status assessment with lung ultrasound in ESRD: effects on BP control and cardiovascular events**  
F. Mallamaci (Reggio Calabria, ITALY)
- 09:24-09:36 **Renal oxygenation with BOLD MRI in hypertension and kidney disease**  
M. Pruijm (Lausanne, SWITZERLAND)
- 09:36-09:48 **Kidney disease, renal artery stenosis and abdominal aortic aneurysm: a morbid set of interplays?**  
P. Sarafidis (Thessaloniki, GREECE)
- 09:48-10:00 **General Discussion**
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09:00-10:00

**BANQUETING ROOM**

**PLENARY SESSION 3**

Chairpersons: J.A. Garcia-Donaire (Madrid, SPAIN), R.E. Schmieder (Erlangen, GERMANY)

- 09:00-09:30 **Debate: WHAT SHOULD BE THE ROLE OF RDN IN THE CLINICAL PRACTICE?**
- 09:00-09:10 **Mainly to difficult HTN**  
K. Tsioufis (Athens, GREECE)
- 09:10-09:15 **Discussion**
- 09:15-09:25 **A more general option**  
M. Böhm (Homburg / Saar, GERMANY)
- 09:25-09:30 **Discussion**
- 09:30-10:00 **Keynote lecture**  
**REPRODUCIBILITY IN BIOMEDICAL RESEARCH: WHAT NEXT**  
J. Ioannidis (Stanford, CA, USA)
-



09:00-10:00

CONFERENCE ROOM 1

Oral Session 14

LIFESTYLE AND COMORBIDITIES

Chairpersons: M.-C. Cho (Cheongju, SOUTH KOREA), V. Lambadiari (Athens, GREECE)

- 09:00-09:10 **SECULAR TRENDS OF BODY MASS INDEX AND BLOOD PRESSURE DURING 1977-2020; NATIONWIDE REGISTRY OF 2.8 MILLION ADOLESCENTS**  
Boris Fishman (1), Yair Zloof (2), Omri Orr (3), Avishai M Tsur (1), Ariel Furer (1), Ma'ayan Omer (2), Gabriel Chodick (4), Adi Leiba (5), Estela Derazne (6), Dorit Tzur (2), Arnon Afek (1), Ehud Grossman(1), Gilad Twig (2)  
(1) Ramat Gan (ISRAEL), (2) Ramat Gan (ISRAEL), (3) Haida (ISRAEL), (4) Tel Aviv (ISRAEL), (5) Ashdod (ISRAEL), (6) Tel Aviv (ISRAEL)
- 09:10-09:20 **IMPORTANCE OF URIC ACID THRESHOLD IN ITS CORRELATION WITH METABOLIC SYNDROME**  
Alessandro Maloberti (1), Ilaria Garofani (2), Stefano Fumagalli (2), Claudio Mario Ciampi (1), Paolo Ossola (1), Marco Carbonaro (1), Massimiliano Monticelli (1), Giovanni Tavecchia (1), Michele Bombelli (3), Cristina Giannattasio (1)  
(1) Milan (ITALY), (2) Milan (ITALY), (3) Desio (ITALY)
- 09:20-09:30 **NON-INVASIVE BIOCHEMICAL SCORES OF NAFLD AND CAROTID MORPHOFUNCTIONAL ALTERATIONS IN NEVER TREATED ESSENTIAL HYPERTENSIVE PATIENTS**  
Giulia Candusso, Cristiana Catena, Giorgio Soardo, Valeria Baiano, Laura Scandolin, Luca Bulfone, Antonio Vacca, Debora Donnini, Andrea Da Porto, Gabriele Brosolo, Gianluca Colussi, Alessandro Cavarape, Cinzia Vivarelli, Nicole Bertin, Leonardo Sechi  
Udine (ITALY)
- 09:30-09:50 **LECTURE: How to target potassium: by diet or supplements?**  
C. Borghi (Bologna, ITALY)
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09:15-10:15

ROOM: MC 2

Oral Session 15

LARGE ARTERIES

Chairpersons: C. Vlachopoulos (Athens, GREECE), T. Weber (Wels, AUSTRIA)

- 09:15-09:45 **Debate: ARTERIAL STIFFNESS WILL GUIDE MY HYPERTENSION MANAGEMENT**
- 09:15-09:30 **Yes**  
S. Laurent (Paris, FRANCE)
- 09:30-09:45 **No**  
B. Williams (London, UNITED KINGDOM)
- 09:45-09:55 **ARTERIAL ELASTICITY PREDICTS CARDIOVASCULAR MORBIDITY AND MORTALITY- A LONGITUDINAL STUDY IN THE VARA-SKÖVDE COHORT**  
Gabor Szalo (1), Margareta Hellgren (1), Matthew Allison (2), Ulf Lindblad (1), Bledar Daka (1)  
(1) Gothenburg (SWEDEN), (2) San Diego (UNITED STATES)
- 09:55-10:05 **AWARENESS AND LIMITATIONS OF MEASURING VASCULAR AGEING IN EVERYDAY PRACTICE. A PILOT QUALITATIVE ANALYSIS FROM VASCAGENET(CA18216)**  
Areti Triantafyllou (1), Stavria -Artemis Elia (2), Chloe Park (3), Rachel Climie (4), Christopher C. Mayer (5), Thomas Weber (6), Andrie G. Panayiotou (2)  
(1) Thessaloniki (GREECE), (2) Limassol (CYPRUS), (3) London (UNITED KINGDOM), (4) Tasmania (AUSTRALIA), (5) Vienna (AUSTRIA), (6) Wels (AUSTRIA)
- 10:05-10:15 **ARTERIAL STIFFNESS FROM MONITORING OF QKD INTERVALL PREDICTS OVERALL MORTALITY**  
Philippe Gosse, Romain Boulestreau, Julien Doublet, Antoine CREMER  
Bordeaux (FRANCE)
-

09:30-10:30

**A. TRIANTI ROOM**

**How-to Session**

**DIAGNOSIS OF NON-ADHERENCE IN THE CLINICAL CONSULTATION: WHEN AND HOW?**

Chairpersons: P. Guimarães Cunha (Guimaraes, PORTUGAL), A. Prejbisz (Warsaw, POLAND)

09:30-09:55 **Cases presentation and interactive discussion**

P. Guimarães Cunha (Guimaraes, PORTUGAL)

09:55-10:10 **Clues for detecting non-adherence in the clinic**

J. Václavík (Ostrava, CZECH REPUBLIC)

10:10-10:20 **Availability of reimbursed interventions to advance medication adherence in Europe: recent findings of the ENABLE COST Action**

P. Kardas (Lodz, POLAND)

10:20-10:30 **General Discussion**

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09:30-10:30

**MITROPOULOS ROOM**

**Workshop**

**A YEAR OF RESEARCH IN FIBROMUSCULAR DYSPLASIA (FMD)**

Chairpersons: P. Dobrowolski (Warsaw, POLAND), A. Persu (Brussels, BELGIUM)

09:30-09:40 **Genetics of FMD**

N. Bouatia-Naji (Paris, FRANCE)

09:40-09:50 **Proteomics of FMD**

A. Latosinska (Hannover, GERMANY)

09:50-10:00 **Imaging biomarkers**

P. Boutouyrie (Paris, FRANCE)

10:00-10:10 **From arterial dissections to FMD and back**

A. Persu (Brussels, BELGIUM)

10:10-10:30 **General discussion**

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10:00-11:00

**ROOM MC 3**

**Minisymposium Supported by Recor**

**ADVANCING THE TREATMENT OF UNCONTROLLED HYPERTENSION WITH ULTRASOUND RDN**

Chairperson: G. Parati (Milan, ITALY)

10:00-10:02 **Welcome**

G. Parati (Milan, ITALY)

10:02-10:12 **What do the latest Guidelines say?**

K. Tsioufis (Athens, GREECE)

10:12-10:17 **Moderated Q&A**

G. Parati (Milan, ITALY)

10:17-10:27 **Ultrasound RDN (uRDN) - Ultrasound Technology and Key Insight from RADIANCE-HTN Clinical Program**

R.E. Schmieder (Erlagen, GERMANY)

10:27-10:32 **Moderated Q&A**

G. Parati (Milan, ITALY)

10:32-10:42 **Latest uRDN Clinical Data**

M. Azizi (Paris, FRANCE)

10:42-11:00 **Panel discussion: Who is an ideal uRDN patient? How to select the right patient?**

10:15-11:15

**SKALKOTAS ROOM**

Minisymposium Supported by Ferrer

**GLOBAL TREATMENT OF ATHEROSCLEROTIC CARDIOVASCULAR DISEASE (ASCVD): POLYPILL AS BASELINE TREATMENT FOR PATIENTS WITH ESTABLISHED ASCVD**

- 10:15-10:35    **The challenge of the polypill clinical use in patients with established atherosclerotic cardiovascular disease (ASCVD)**  
A. Coca (Barcelona, SPAIN)
- 10:35-10:55    **Prevention of morbidity and mortality by the polypill: latest evidence from clinical trials**  
J.M. Castellano (Madrid, SPAIN)
- 10:55-11:15    **Final discussion/Q&A and Closing**  
A.J. Manolis (Athens, GREECE), R. Kreutz (Berlin, GERMANY)
- 

10:15-11:00

**CONFERENCE ROOM 1**

**Meet-the-Expert**

**UNDERSTANDING BETTER HFPEF: THE VERSATILE DISEASE**

Coordinator: E. Agabiti-Rosei (Brescia, ITALY), I. Tsougos (Athens, GREECE)

- 10:15-10:30    **Phenotypes**  
Expert: S.E. Kjeldsen (Oslo, NORWAY)
- 10:30-10:45    **Imaging tricks**  
C. Chrysohoou (Athens, GREECE)
- 10:45-11:00    **Treatment challenges**  
Expert: M. Camafort (Barcelona, SPAIN)
- 

11:00-12:00

**A. TRIANTI ROOM**

Minisymposium Supported by Servier

**SHOULD WE TREAT HYPERTENSION, OR SHOULD WE TREAT PATIENTS?**

Chairpersons: A. Schutte (Sydney, AUSTRALIA), B. Williams (London, UNITED KINGDOM)

- 11:00-11:10    **Introduction**  
B. Williams (London, UNITED KINGDOM)
- 11:10-11:25    **Risk prevention: do we need a new approach?**  
J. Wolf (Gdansk, POLAND)
- 11:25-11:40    **Holistic approach in the management of hypertensive patients**  
A.M. Vintila (Bucharest, ROMANIA)
- 11:40-11:55    **Q&A session**
- 11:55-12:00    **Conclusion**  
A. Schutte (Sydney, AUSTRALIA)
-

11:00-12:00

**MITROPOULOS ROOM**

Late-Breakers

**ORAL SESSION 2**

- 11:00-11:10 CATHETER-BASED RENAL DENERVATION – LONG TERM SAFETY AND BLOOD PRESSURE REDUCTION IN PATIENTS WITH RESISTANT HYPERTENSION**  
Markus Schlaich (1), Jonathon Sesa-Ashton (2), Rebecca Lee (2), Elisabeth Lambert (3), Gavin Lambert (3), Janis Nolde (1), Antony Walton (2), Murray Esler (2)  
*(1) Perth (AUSTRALIA), (2) Melbourne (AUSTRALIA), (3) Melbourne (AUSTRALIA)*
- 11:10-11:20 ENDOTHELIUM-SPECIFIC DEFICIENCY OF POLYCYSTIN-1 PROMOTES HYPERTENSION AND CARDIOVASCULAR DISORDERS**  
Dominique Guerrot, Mouad Hamzaoui, Deborah Groussard, Dorian Nezam, Paul Mulder, Vincent Richard, Jeremy Bellien  
*Rouen (FRANCE)*
- 11:20-11:30 LONG-TERM RESULTS FROM THE SPYRAL HTN-ON MED TRIAL: RENAL DENERVATION INCREASES TIME IN BLOOD PRESSURE TARGET RANGE OVER 36 MONTHS**  
Konstantinos Tsioufis (1), David Kandzari (2), Kazuomi Kario (3), Raymond Townsend (4), Felix Mahfoud (5), Michael Weber (6), Roland Schmieder (7), Stuart Pocock (8), Martin Fahy (9), Michael Bohm (5)  
*(1) Athens (GREECE), (2) Atlanta (USA), (3) Tochigi (JAPAN), (4) Philadelphia (USA), (5) Homburg/Saar (GERMANY), (6) Brooklyn (USA), (7) Erlangen (GERMANY), (8) London (UK), (9) Santa Rosa (USA)*
- 11:30-11:40 PATIENT PERSPECTIVES ON TREATMENT ADHERENCE IN HYPERTENSION: PRELIMINARY RESULTS OF AN ESH SURVEY IN FIVE COUNTRIES**  
Michel Burnier (1), Alexandre Persu (2), Michel Azizi (3), Aleksander Prejbisz (4), Vitoria Cunha (5), Pankaj Gupta (6), Jan Vaclavik (7), Jorie Versmissen (8), Reinhold Kreutz (9), Sverre Kjeldsen (10)  
*(1) Lausanne (SWITZERLAND), (2) Bruxelles (BELGIUM), (3) Paris (FRANCE), (4) Warsaw (POLAND), (5) Almada (PORTUGAL), (6) Leicester (UNITED KINGDOM), (7) Ostrava (CZECH REPUBLIC), (8) Rotterdam (THE NETHERLANDS), (9) Berlin (GERMANY), (10) Oslo (NORWAY)*
- 11:40-11:50 ASSESSING THE IMPACT OF IMMUNOSUPPRESSIVE THERAPIES ON INCIDENCE OF HYPERTENSION IN PATIENTS WITH RHEUMATOID ARTHRITIS AND OTHER AUTOIMMUNE DISEASES: A SYSTEMATIC REVIEW**  
HANI ALOSAIMI, Pasquale Maffia, Sandosh Padmanabhan, Tomasz Guzik  
*Glasgow (UNITED KINGDOM)*
- 11:50-12:00 CUMULATIVE EXPOSURE TO JOB STRAIN AND PREDIABETES AMONG MALE AND FEMALE WHITE-COLLAR WORKERS**  
Camille Riopel, Chantal Brisson  
*Quebec City (CANADA)*
- 

11:30-12:30

**SKALKOTAS ROOM**

Minisymposium Supported by Omron

**NOCTURNAL HYPERTENSION: RISK FACTOR FOR ORGAN DAMAGE**

Chairperson: G. Parati (Milan, ITALY)

- 11:30-11:35 Introduction: importance of measuring night-time blood pressure**  
G. Parati (Milan, ITALY)
- 11:35-11:50 The relevance of nocturnal blood pressure control in the progression of chronic kidney disease**  
M. van der Giet (Berlin, GERMANY)
- 11:50-12:05 Nocturnal hypertension in perimenopausal women**  
A. Maas
- 12:05-12:20 Nocturnal hypertension: measuring at home**  
T. McCormack (London, UNITED KINGDOM)
- 12:20-12:30 Q&A**

11:30-12:30

**BANQUETING ROOM**

**Oral Session 16**

**KIDNEY 2**

Chairpersons: L. Abid (Sfax, TUNISIA), J.-J. Mourad (Paris, FRANCE)

11:30-11:50 **LECTURE: The role of miRNAs in HMOD**

J. Redon (Valencia, SPAIN)

11:50-12:00 **VARIABILITY OF 24-HOUR URINE SODIUM EXCRETION AND LONG-TERM CARDIOVASCULAR AND RENAL OUTCOME**

Jolan Van Maaren, Malik Esseghir, Bert -Jan Van Den Born, Liffert Vogt, Rik Olde Engberink  
*Amsterdam (THE NETHERLANDS)*

12:00-12:10 **AUGMENTED PROSTAGLANDIN E2 SIGNALING CAUSES PODOCYTE DAMAGE AND ALBUMINURIA-LIKE PHENOTYPE IN A ZEBRAFISH DISEASE MODEL OF GLOMERULAR HYPERFILTRATION**

AIKATERINI KOURPA, EVA MANGELSEN, JULIANE BOLBRINKER, ANGELA MARTINA SCHULZ,  
MICHAEL ROTHE, REINHOLD KREUTZ, DANIELA PANAKOVA  
*Berlin (GERMANY)*

12:10-12:20 **ASSOCIATIONS OF LONG-TERM VISIT-TO-VISIT BLOOD PRESSURE VARIABILITY WITH SUBCLINICAL RENAL DAMAGE AND ALBUMINURIA IN ADULTHOOD: A 30-YEAR PROSPECTIVE COHORT STUDY**

Yang Wang, Jian -Jun Mu, Peng Zhao, Chao Chu, Ming -Fei Du, Ting Zou, Gui -Lin Hu, Yue -Yuan Liao,  
Chen Chen, Qiong Ma, Dan Wang, Ke -Ke Wang, Fang -Yao Chen  
*Xi'an (CHINA)*

12:20-12:30 **CEREBRAL OXYGENATION DURING EXERCISE ACROSS DIFFERENT STAGES OF CHRONIC KIDNEY DISEASE**

Marieta Theodorakopoulou (1), Andreas Zafeiridis (2), Konstantina Dipla (2), Danai Faitatzidou (1),  
Aggelos Koutlas (2), Maria -Eleni Alexandrou (1), Georgia Polychronidou (1), Georgios Chalkidis (1),  
Aikaterini Papagianni (1), Pantelis Sarafidis (1)  
*(1) Thessaloniki (GREECE), (2) Serres (GREECE)*

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11:30-12:30

**ROOM MC 3**

**How-to Session**

**HOW TO READ AND INTERPRET DIFFERENT TYPES OF META-ANALYSES IN HYPERTENSION:  
FOCUS ON PROS AND CONS.**

Chairperson: C. Thomopoulos (Athens, GREECE)

11:30-11:45 **Traditional (pairwise)**

M. Brunstrom (Umeå, SWEDEN)

11:45-12:00 **Network**

S. Bangalore (New York, NY, USA)

12:00-12:15 **Individual-patient data**

M. Nazarzadeh (Oxford, UNITED KINGDOM)

12:15-12:30 **General Discussion**

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11:30-12:30

CONFERENCE ROOM 1

Oral Session 17

COVID-19 AND HYPERTENSION

Chairpersons: S. Tsiodras (Athens, GREECE), T. Weber (Wels, AUSTRIA)

- 11:30-11:40 COVID-19 ASSOCIATED REDUCTION IN HYPERTENSION-RELATED DIAGNOSTIC AND THERAPEUTIC PROCEDURES IN EXCELLENCE CENTERS OF THE EUROPEAN SOCIETY OF HYPERTENSION**  
Thomas Weber (1), Reinhold Kreutz (2), Andrzej Januszewicz (3), Christopher Mayer (4), Konstantinos Tsioufis (5), György Abraham (6), Jaques Amar (7), Istvan Barna (8), Weimer Kunz Sebba Barroso (9), Tine de Backer (10), Marcus van der Giet (2)  
(1) Wels (AUSTRIA), (2) Berlin (GERMANY), (3) Warsaw (POLAND), (4) Vienna (AUSTRIA), (5) Athens (GREECE), (6) Szeged (HUNGARY), (7) Toulouse (FRANCE), (8) Budapest (HUNGARY), (9) Goias (BRAZIL), (10) Gent (BELGIUM)
- 11:40-11:50 IMMUNE DYSREGULATION INDUCED BY SPIKE PROTEIN 1 OF SARS-COV-2 INCREASES ENDOTHELIAL CELL DYSFUNCTION VIA TYPE I AND TYPE III INTERFERON ACTIVATION PATHWAYS**  
Francisco J. Rios, Augusto C. Montezano, Livia L. Camargo, Rheure A. Lopes, Ana B. Garcia-Redondo (2, 3), Eliju Aranday-Cortes (4), Ana M. Briones (2,3), John McLaughlan (4), Rhian M. Touyz (1, 5)  
(1) Glasgow (UNITED KINGDOM), (2) Madrid (SPAIN), (3) Madrid (SPAIN), (4) Glasgow (UNITED KINGDOM), (5) Montreal (CANADA)
- 11:50-12:00 COVID-19 AND NEW ONSET HYPERTENSION**  
Evgeniya Shalaeva, Maksuda Shamsutdinova, Alisher Shadmanov, Shukhrat Boymuradov, Feruza Azizova, Dilshod Allaberganov, Hugo Saner, Franz Messerli  
(1) Tashkent (UZBEKISTAN), (2) Zangiota (UZBEKISTAN), (3) Tashkent (UZBEKISTAN), (4) Tashkent (UZBEKISTAN), (5) Tashkent (UZBEKISTAN), (6) Tashkent (UZBEKISTAN), (7) Bern (SWITZERLAND)
- 12:00-12:10 THE IMPACT OF HYPERTENSION AND ANTIHYPERTENSIVE TREATMENTS ON PATIENTS WITH SARS COV-2: A RETROSPECTIVE-COHORT STUDY.**  
Paula Luque, Luis Castilla-Guerra, Nieves Sanchez, Maria Delgado, Maria Alegre, Eduardo Carmona, Miguel Angel Rico  
Seville (SPAIN)
- 12:10-12:20 MICROCIRCULATION AND SARS-COV2 INFECTION: A FOLLOW UP STUDY**  
Paolo Malerba, Claudia Agabiti Rosei, Giulia Chiarini, Matteo Nardin, Alina Petelca, Andrea Gaggero, Matteo Lemoli, Francesca Famà, Gianluca Edoardo Boari, Mattia Baresi, Nicolò Bondioli, Enzo Porteri, Anna Painsi, Massimo Salvetti, Maria Lorenza Muesan, Damiano Rizzoni, Carolina De Ciuceis  
Brescia (ITALY)
- 12:20-12:30 IMPAIRED ACE2 GLYCOSYLATION AND PROTEASE ACTIVITY LOWERS SUSCEPTIBILITY TO SARS-COV-2 INFECTION IN GITELMAN/BARTTER SYNDROMES.**  
GIOVANNI BERTOLDI, Verdiana Ravarotto, Luca Sgarabotto, Laura Gobbi, Lucia Federica Stefanelli, Lorenzo A. Calò  
Padua (ITALY)
-

13:00-14:30

**A. TRIANTI ROOM**

Satellite Symposium Supported by Merck

**CONSIDERING HYPERTENSION, SYMPATHETICALLY!**

Chairperson: G. Mancia (Milan, ITALY)

13:00-13:15 Introduction

G. Mancia (Milan, ITALY)

13:15-13:35 The value of a 'sympathetic' approach in managing young hypertensive patients: What are the treatments options?

A. Pathak (Monaco, MONACO)

13:35-13:55 Beta blocker heterogeneity and class effect: A continuing debate

R. Kreutz (Berlin, GERMANY)

13:55-14:15 The more, the better: Addressing multiple hypertension mechanisms with novel FDC options

F. Mahfoud (Homburg/Saar, GERMANY)

14:15-14:30 Discussion

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13:00-14:30

**SKALKOTAS ROOM**

Clinical Cases

**CLINICAL-PATHOLOGICAL CONFERENCE (CPC) IN COOPERATION WITH HYPERTENSION, AN AMERICAN HEART ASSOCIATION JOURNAL (AHA)**

Chairpersons: A. Schutte (Sydney, AUSTRALIA), R. Touyz (Montréal, Québec, CANADA)

13:00-13:45 Case 1 - Curing a stumbling block

S. Kulkarni (Cambridge, UNITED KINGDOM), I. Wilkinson (Cambridge, UNITED KINGDOM)

13:45-14:30 Case 2 - HELLP: Extreme blood pressure in pregnancy and its management

B. Jenner (Cambridge, UNITED KINGDOM), I. Wilkinson (Cambridge, UNITED KINGDOM)

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13:30-14:30

**ROOM MC 2**

Oral Session 18

**BLOOD PRESSURE MEASUREMENTS 2**

Chairperson: E. Sanidas (Athens, GREECE)

13:30-13:40 BLOOD PRESSURE RESPONSE TO STANDING IS A STRONG PREDICTOR OF MASKED HYPERTENSION

Marcello Rattazzi (1), Francesca Saladini (2), Lucio Mos (3), Claudio Fania (4), Guido Garavelli (5), Nello Zanatta (1), Paolo Spinella (4), Paolo Palatini (4)  
(1) Treviso (ITALY), (2) Padua (ITALY), (3) Udine (ITALY), (4) Padua (ITALY), (5) Cremona (ITALY)

13:40-13:50 SIMPLE PREDICTIVE SCORE FOR NOCTURNAL HYPERTENSION AND MASKED NOCTURNAL HYPERTENSION USING HOME BLOOD PRESSURE MONITORING IN CLINICAL PRACTICE

KEISUKE NARITA, SATOSHI HOSHIDE, KAZUOMI KARIO  
Shimotsuke (JAPAN)

13:50-14:00 ARM BASED ON LEG BLOOD PRESSURES (ABLE-BP): CAN SYSTOLIC LEG BLOOD PRESSURE MEASUREMENTS PREDICT BRACHIAL BLOOD PRESSURE? AN INDIVIDUAL PARTICIPANT DATA META-ANALYSIS

Sinead Mcdonagh (1), James Sheppard (2), Fiona Warren (1), Kate Boddy (1), Leon Farmer (1), Helen Shore (1), Phil Williams (1), Philip Lewis (4), A Jayne Fordham (1), Una Martin (6), Victor Aboyans (7), Christopher Clark (1)  
(1) Exeter (UNITED KINGDOM), (2) Oxford (UNITED KINGDOM), (4) Stockport (UNITED KINGDOM), (6) Birmingham (UNITED KINGDOM), (7) Limoges (FRANCE)



- 14:00-14:10**    **BLOOD PRESSURE IN ATRIAL FIBRILLATION AND IN SINUS RHYTHM DURING 24 HOUR AMBULATORY BLOOD PRESSURE MONITORING: DATA FROM THE TEMPLAR PROJECT**  
Kristina Lundwall, Thomas Kahan, Stefano Omboni (2, 3)  
*(1) Stockholm (SWEDEN), (2) Varese (ITALY), (3) Moscow (RUSSIAN FEDERATION)*
- 14:10-14:20**    **INFLUENCE OF SEX, BODY MASS INDEX, AND SKIN COLOR ON THE ACCURACY OF NON-INVASIVE CUFFLESS PHOTOPLETHYSMOGRAPHY-BASED BLOOD PRESSURE MEASUREMENTS**  
ARIK EISENKRAFT  
*Jerusalem (ISRAEL), Petah Tikva (ISRAEL)*
- 14:20-14:30**    **SCREENING FOR ATRIAL FIBRILLATION WITH ROUTINE AUTOMATED BLOOD PRESSURE MEASUREMENT IN THE ELDERLY: THE NATIONAL HEALTH SURVEY EMENO IN GREECE**  
George Stergiou (1), Ariadni Menti (1), Natasa Kalpourtzi (1), Magda Gavana (3), Apostolos Vantarakis (4), Gregory Chlouverakis (5), Christos Hadjichristodoulou (6), Gregory Trypsianis (7), Paraskevi Voulgari (8), Yannis Alamanos (9), Argiro Karakosta (1), Giota Touloumi (1)  
*(1) Athens (GREECE), (3) Thessaloniki (GREECE), (4) Patras (GREECE), (5) Heraklion (GREECE), (6) Larissa (GREECE), (7) Alexandroupolis (GREECE), (8) Ioannina (GREECE), (9) Corfu (GREECE)*
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**14:00-15:00**  
**ROOM MC 3**

**Oral Session 19**

**RESISTANT HYPERTENSION**

Chairpersons: J. Spaak (Stockholm, SWEDEN), D. Vlachakos (Athens, GREECE)

- 14:00-14:20**    **LECTURE: Novel agents being developed for true resistant hypertension**  
G. Bakris (Chicago, USA)
- 14:20-14:30**    **PATIENT PREFERENCES FOR PHARMACEUTICAL AND INTERVENTIONAL HYPERTENSION TREATMENTS: RESULTS FROM A DISCRETE CHOICE EXPERIMENT**  
Atul Pathak (1), Michael Weber (2), Christine Poulos (3), Joshua Coulter (3), Sidney Cohen (4), Vanessa DeBruin (4), Denise Jones (4), David Kandzari (5)  
*(1) Monaco (MONACO), (2) Brooklyn (UNITED STATES), (3) Research Triangle Park (UNITED STATES), (4) Santa Rosa (UNITED STATES), (5) Atlanta (UNITED STATES)*
- 14:30-14:40**    **EFFECT OF RENAL DENERVATION ON CARDIO ANKLE VASCULAR INDEX IN SUBJECTS WITH RESISTANT HYPERTENSION**  
ARMAN POSTADZHIYAN, Sotir Tochev, Lora Andreeva, Nizar Rifai, Bojidar Finkov  
*Sofia (BULGARIA)*
- 14:40-14:50**    **PSYCHOLOGICAL DETERMINANTS OF DRUG ADHERENCE AND SEVERITY OF HYPERTENSION IN PATIENTS WITH RESISTANT VS. CONTROLLED HYPERTENSION**  
Alexandre Persu (1), Coralie M.G. Georges (1), Sabrina Ritscher (2), Marco Pappaccogli (3), Géraldine Petit (4), Marilucy Lopez-Sublet (5), Achille Bapolisi (6), Silvia Di Monaco (3), Pierre Wallemacq (7), Franco Rabbia (3), Stefan W. Toennes (2), Philippe de Timary (4)  
*(1) Brussels (BELGIUM), (2) Frankfurt (GERMANY), (3) Torino (ITALY), (4) Brussels (BELGIUM), (5) Paris (FRANCE), (6) Bukavu (CONGO), (7) Brussels (BELGIUM)*
- 14:50-15:00**    **CLINICAL EVENT REDUCTIONS IN HIGH-RISK HYPERTENSION PATIENTS TREATED WITH RENAL DENERVATION: 10-YEAR PROJECTIONS BASED ON 3-YEAR FOLLOW-UP FROM THE GLOBAL SYMPPLICITY REGISTRY**  
Murray Esler (1), Khoa Cao (2), Melvin Lobo (3), Andrew S. P. Sharp (4), David E. Kandzari (5), Giuseppe Mancina (6), Michael Böhm (7), Roland E. Schmieder (8), Jan B. Pietzch (2)  
*(1) Melbourne (AUSTRALIA), (2) Menlo Park (UNITED STATES), (3) London (UNITED KINGDOM), (4) Wales (UNITED KINGDOM), (5) Atlanta (UNITED STATES), (6) Monza (ITALY), (7) Homburg/Saar (GERMANY), (8) Erlangen (GERMANY)*
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14:30-15:30

**MITROPOULOS ROOM**

Hands On Supported by SOMNOmedics

**THE CHALLENGE OF NIGHT-TIME BLOOD PRESSURE MEASUREMENT**

Chairpersons: G. Parati (Milan, ITALY), A. Patzak (Berlin, GERMANY)

- 14:30-14:45 **Seeing in the dark - why it is so important to measure nocturnal blood pressure**  
G. Parati (Milan, ITALY)
- 14:45-15:00 **Accuracy of night-time BP measurement - lessons from a study using two cuffs**  
T. Bothe (Berlin, GERMANY)
- 15:00-15:15 **A practical approach to the next generation of cuff-based ABPM**  
T. Visser
- 15:15-15:30 **Discussion**
- 

14:30-16:00

**BANQUETING ROOM**

Teaching Seminar - Session 2

**EVALUATING THE WHOLE SPECTRUM OF DIFFICULT TO CONTROL (RESISTANT) HYPERTENSION**

Chairpersons: G. Bakris (Chicago, USA), K. Tsioufis (Athens, GREECE)

- 14:30-14:50 **Treating sleep breathing disorders is important**  
K. Narkiewicz (Gdansk, POLAND)
- 14:50-15:10 **Checking medication adherence and physician inertia is a MUST**  
M. Tomaszewski (Manchester, UNITED KINGDOM)
- 15:10-15:30 **Optimizing pharmaceutical treatment**  
M. Azizi (Paris, FRANCE)
- 15:30-15:50 **Offering RDN as a synergistic therapeutic option**  
R.E. Schmieder (Erlagen, GERMANY)
- 15:50-16:00 **General Discussion**
- 

15:00-16:00

**A. TRIANTI ROOM**

Oral Session 20

**ATRIAL FIBRILLATION AND HYPERTENSION-MEDIATED ORGAN DAMAGE (HMOD)**

Chairpersons: S. Alshurafa (Qatif, SAUDI ARABIA), J. Filipovsky (Pilsen, CZECH REPUBLIC)

- 15:00-15:10 **TIME-VARYING SERUM URIC ACID PREDICTS NEW-ONSET ATRIAL FIBRILLATION IN TREATED HYPERTENSIVE PATIENTS**  
Sverre E. Kjeldsen (1), Eran S. Zachs (2), Ildri M. Stokke (1), Kristian Wachtell (2), Darcy A. Hille (3), Aud Høiegggen (1), Stevo Julius (4), Eva Gerdtts (5), Peter M. Okin (2), Richard B. Devereux (2)  
(1) Oslo (NORWAY), (2) New York (USA), (3) North Wales (USA), (4) Ann Arbor (USA), (5) Bergen (NORWAY)
- 15:10-15:20 **ASSOCIATION OF CEREBRAL OXYGENATION DURING EXERCISE WITH TARGET ORGAN DAMAGE IN HYPERTENSIVE AND NORMOTENSIVE INDIVIDUALS**  
Georgios Triantafyllou (1), Areti Triantafyllou (1), Konstantina Dipla (2), Alexandros Zafeiridis (1), Nikolaos Koletsos (1), Andreas Zafeiridis (2), Eugenia Gkaliagkousi (1), Stella Douma (1)  
(1) Thessaloniki (GREECE), (2) Agios Ioannis (GREECE)
- 15:20-15:40 **LECTURE: Intensive blood pressure lowering and the risk of atrial fibrillation**  
A.J. Manolis (Athens, GREECE)

- 15:40-15:50 RELATIONSHIP BETWEEN COGNITIVE IMPAIRMENT AND HYPERTENSION MEDIATED ORGAN DAMAGE: THE VOBARNO STUDY**  
Chiara Arnoldi, Sara Capellini, Luca Zuccotti, Anna Painsi, Massimo Salvetti, Luca Rozzini, Carlo Aggiusti, Fabio Bertacchini, Deborah Stassaldi, Alessandro Paduani, Maria Lorenza Muiesan  
*Brescia (ITALY)*
- 15:50-16:00 IMPACT OF SEX AND ANTIHYPERTENSIVE MEDICATION ON GLOBAL COGNITION IN PRIMARY CARE OLDER ADULTS**  
Adrian Noriega De La Colina (1), Helen -Maria Vasiliadis (2), Djamal Berbiche (2), Louis Bherer (3), Navin Kaushal (4), H el ene Girouard (5)  
*(1) Montreal (CANADA), (2) Longueuil (CANADA), (3) Longueuil (CANADA), (4) Montreal (CANADA), (5) Indianapolis (UNITED STATES), (6) Montreal (CANADA)*
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**15:00-16:00**  
**SKALKOTAS ROOM**

**Workshop**

**HYPERTENSION AND CORONARY CIRCULATION: ARE WE DOING OUR BEST?**

Chairpersons: S. Taddei (Pisa, ITALY), F. Crea (Rome, ITALY)

- 15:00-15:10 Function and structure of coronary microcirculation: Current concepts**  
*TBD*
- 15:10-15:20 How to assess coronary microcirculation: Non-invasive and invasive methodology**  
J. Davies (UNITED KINGDOM)
- 15:20-15:30 INOCA in hypertensives: from diagnosis to therapy**  
K. Dimitriadis (Athens, GREECE)
- 15:30-15:40 Coronary microvascular dysfunction with heart failure with preserved ejection**  
A. Chieffo (Milan, ITALY)
- 15:40-16:00 General discussion**
- 

**15:00-16:00**  
**ROOM MC 2**

**Oral Session 21**

**BLOOD PRESSURE VARIABILITY**

Chairpersons: L. Bronze (Lisbon, PORTUGAL), J. Kostis (New Brunswick, NJ, USA)

- 15:00-15:10 GENERALISED MICROVASCULAR DYSFUNCTION IS NONLINEARLY ASSOCIATED WITH HIGHER EXERCISE BLOOD PRESSURE – THE MAASTRICHT STUDY**  
Tan Lai Zhou, Abraham Kroon, Alfonsius Houben, Jacobus Jansen, Tos Berendschot, Caroll Webers, Carla Van Der Kallen, Miranda Schram, Coen Stehouwer  
*Maastricht (NETHERLANDS)*
- 15:10-15:20 AMBULATORY BLOOD PRESSURE TRAJECTORIES AND BLOOD PRESSURE VARIABILITY IN KIDNEY TRANSPLANT RECIPIENTS: A COMPARATIVE STUDY AGAINST HEMODIALYSIS PATIENTS**  
Maria Korogiannou (1), Pantelis Sarafidis (2), Maria Eleni Alexandrou (2), Marieta Theodorakopoulou (2), Eva Pella (2), Efstathios Xagas (1), Antonis Argyris (3), Athanase Protogerou (3), Aikaterini Papagianni (2), Ioannis N. Boletis (1), Smaragdi Marinaki (1)  
*(1) Athens (GREECE), (2) Thessaloniki (GREECE), (3) Athens (GREECE)*
- 15:20-15:30 ORTHOSTATIC HYPERREACTIVITY AND THE CARDIOVASCULAR RISK IN JUVENILE AND MIDDLE-AGE HYPERTENSION**  
Paolo Palatini (1), Lucio Mos (2), Marcello Rattazzi (1), Olga Vrız (2), Francesca Saladini (3)  
*(1) Padua (ITALY), (2) San Daniele del Friuli (ITALY), (3) Cittadella (ITALY)*

- 15:30-15:40**    **SYMPATHETIC NERVOUS SYSTEM ACTIVITY IN ATTENDED AND UNATTENDED BP MEASUREMENTS: NAVIGATING THE UNCHARTED**  
Eleni Manta, Ioannis Andrikou, Costas Thomopoulos, Dimitrios Konstantinidis, Ioannis Zammanis, Dimitrios Polyzos, Sotrios Drogkaris, Panagiotis Iliakis, Emmanouil Mantzouranis, Kyriakos Dimitriadis, Konstantinos Tsioufis  
*Athens (GREECE)*
- 15:40-16:00**    **LECTURE: Visit to visit variability, new data**  
G. Mancia (Milan, ITALY)
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**15:00-15:45**

**ROOM MC 3**

**Meet-the-Expert**

**HYPERTENSION AND DIFFERENT STAGES OF CKD**

Coordinator: J. Hoyer (Marburg, GERMANY)

- 15:00-15:15**    **Proper dosing of RAAS inhibitors depending on the degree of albuminuria and eGFR**  
Expert: D. Vlachakos (Athens, GREECE)
- 15:15-15:30**    **The proper type and dosing of diuretics is depending on patient's GFR**  
Expert: B. Jelakovic (Zagreb, CROATIA)
- 15:30-15:45**    **The proper use of SGLT2 inhibitors to achieve maximum renoprotection**  
Expert: M. Schlaich (Perth, AUSTRALIA)
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**16:30-18:00**

**A. TRIANTI ROOM**

**Plenary Session 4**

**ESH AWARDS**

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**18:15-19:15**

**MITROPOULOS ROOM**

**Clinical Cases Session**

**HOW TO MANAGE DIFFERENT CLINICAL HYPERTENSIVE PHENOTYPES**

Chairperson: Z. Járαι (Budapest, HUNGARY)

- 18:15-18:30**    **A male patient 42 years old with isolated diastolic hypertension**  
K. Imprialos (Thessaloniki, GREECE)
- 18:30-18:35**    **Discussion**
- 18:35-18:50**    **Young-male patient with isolated nocturnal hypertension - clinical case**  
O. Fronea (Bucharest, ROMANIA)
- 18:50-18:55**    **Discussion**
- 18:55-19:10**    **A patient 65 years with office BP>150/90 and bradycardia (55 bpm) on a triple SPC**  
B.-J. van den Born (Amsterdam, THE NETHERLANDS)
- 19:10-19:15**    **Discussion**
-

**18:15-19:15**

**SKALKOTAS ROOM**

Clinical Cases Session

**HOW TO MANAGE HYPERTENSION IN HEART DISEASE**

Chairpersons: D. Dimulescu (Bucharest, ROMANIA), S. Perl (Graz, AUSTRIA)

- 18:15-18:30** A 75 year patient with 3 vessel coronary artery disease and BP 170/60 mm Hg  
E. Kallistratos (Athens, GREECE)
- 18:30-18:35** Discussion
- 18:35-18:50** A 60 year old patient with HFrEF (EF 25%) and BP 150/95 mm Hg  
M. Vukicevic (Belgrade, SERBIA)
- 18:50-18:55** Discussion
- 18:55-19:10** A 64 year old female patient with hypertension, atrial fibrillation and lung asthma  
O. Rotar (Saint Petersburg, RUSSIA)
- 19:10-19:15** Discussion
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**18:15-19:15**

**BANQUETING ROOM**

Clinical Cases Session

**HOW TO MANAGE SECONDARY HYPERTENSION**

Chairpersons: T. De Backer (Ghent, BELGIUM), M. van der Giet (Berlin, GERMANY)

- 18:15-18:30** A case of paraganglioma  
T. Kalos (Athens, GREECE)
- 18:30-18:35** Discussion
- 18:35-18:50** A case of hyperlido  
A. Jelakovic (Zagreb, CROATIA)
- 18:50-18:55** Discussion
- 18:55-19:10** A case of atherosclerotic renovascular hypertension  
F. Limbourg (Hannover, GERMANY)
- 19:10-19:15** Discussion
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**18:15-19:15**

**ROOM MC 2**

Joint Session ESH-LASH (Latin American Society of Hypertension)

**THE CHALLENGE OF IMPROVING BLOOD PRESSURE CONTROL**

Chairpersons: A. Coca (Barcelona, SPAIN), A.J. Ramirez (Caba-Buenos Aires, ARGENTINA)

- 18:15-18:27** Home blood pressure monitoring in low and middle income countries  
W. Sebba-Barroso (Goiania, BRAZIL)
- 18:27-18:39** Risk factors for cardiovascular disease and cardiovascular death in Latin America  
P. Lopez Jaramillo (Bucaramanga, COLOMBIA)
- 18:39-18:51** Facing the challenge of improving blood pressure control: two vs. single drug as initial antihypertensive treatment  
G. Mancia (Milan, ITALY)
- 18:51-18:03** New approaches to the management of resistant hypertension  
J. Redon (Valencia, SPAIN)
- 18:03-18:15** General Discussion

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# MONDAY, JUNE 20

07:45-08:45

## MITROPOULOS ROOM

Breakfast Session

### "MODERN LIFESTYLE" AND HYPERTENSION

Chairpersons: Z. Parounak (Yerevan, ARMENIA), D. Papadopoulos (Athens, GREECE)

- 07:45-07:57    **Alcohol binge drinking**  
E. Gkaliagkousi (Thessaloniki, GREECE)
- 07:57-08:09    **Coffee lovers and cognitive**  
J. Hoyer (Marburg, GERMANY)
- 08:09-08:21    **E-smoking: is it smart enough?**  
N. Ioakimidis (Athens, GREECE)
- 08:21-08:45    **General Discussion**
- 

07:45-08:45

## SKALKOTAS ROOM

Breakfast Session

### PULSE WAVE VELOCITY IN THE CLINIC - MEASUREMENT OR ESTIMATION?

Chairpersons: J.K. Cruickshank (London, UNITED KINGDOM), C. McEniery (Cambridge, UNITED KINGDOM)

- 07:45-07:57    **The case for measurement**  
L. Van Bortel (Ghent, BELGIUM)
- 07:57-08:09    **The case for estimation**  
C. Vlachopoulos (Athens, GREECE)
- 08:09-08:21    **The case for 24 hour assessment**  
S. Wassertheurer (Wien, AUSTRIA)
- 08:21-08:45    **General Discussion**
- 

07:45-08:45

## BANQUETING ROOM

Breakfast Session

### HOW TO INTERPRET AND MANAGE HEART RATE IN HYPERTENSION

Chairpersons: M. Esler (Melbourne, AUSTRALIA), A. Mihailidou (Kensington, AUSTRALIA)

- 07:45-07:57    **Elevated heart rate in hypertension: why**  
M. Esler (Melbourne, AUSTRALIA)
- 07:57-08:09    **Tachycardia and cardiovascular risk in hypertension**  
G. Grassi (Milan, ITALY)
- 08:09-08:21    **Tachycardia in hypertension**  
P. Palatini (Padua, ITALY)
- 08:21-08:45    **General Discussion**
-

**07:45-08:45**

**ROOM MC 2**

**Breakfast Session**

**SALT AND POTASSIUM INTAKE; HYPERTENSION AND CARDIOVASCULAR DAMAGE**

Chairpersons: J. Polonia (Matosinhos, PORTUGAL), F. Cappuccio (Coventry, UNITED KINGDOM)

**07:45-07:57**    **How to evaluate salt and potassium intake**  
J. Polonia (Matosinhos, PORTUGAL)

**07:57-08:09**    **Salt and potassium intake in brain**  
E. Dounousi (Ioannina, GREECE)

**08:09-08:21**    **Salt intake and microbiota**  
N. Vallianou (Athens, GREECE)

**08:21-08:45**    **General Discussion**

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**07:45-08:45**

**ROOM MC 3**

**Breakfast Session**

**INDIVIDUALIZING THE ANTIHYPERTENSIVE TREATMENT**

Chairpersons: C. Borghi (Bologna, ITALY), C. Farsang (Budapest, HUNGARY)

**07:45-07:57**    **The case of monotherapy in the era of fixed combinations**  
K. Tsioufis (Athens, GREECE)

**07:57-08:09**    **The case of very low dose combinations**  
M. Schlaich (Perth, AUSTRALIA)

**08:09-08:21**    **The case of polypil**  
A. Coca (Barcelona, SPAIN)

**08:21-08:45**    **General Discussion**

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**07:45-08:45**

**CONFERENCE ROOM 1**

**Breakfast Session**

**STATUS OF BLOOD PRESSURE VARIABILITY (BPV)**

Chairpersons: C. Zamboulis (Thessaloniki, GREECE), G. Parati (Milan, ITALY)

**07:45-07:57**    **Which methods to use to investigate BPV?**  
R. Darabont (Bucharest, ROMANIA)

**07:57-08:09**    **Are differences in BPV between different drugs**  
F. Saladini (Padua, ITALY)

**08:09-08:21**    **Which endpoints are predicted by BPV?**  
M. Pengo (Milan, ITALY)

**08:21-08:45**    **General Discussion**

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**08:00-09:00**

**A. TRIANTI ROOM**

Joint Session ESH-Indian Society of Hypertension

**REDUCING CARDIOVASCULAR RISK IN HYPERTENSION**

Chairpersons: R. Kreutz (Berlin, GERMANY), V.S. Ram (Hyderabad, INDIA)

**08:00-08:05 Introduction**

R. Kreutz (Berlin, GERMANY), V.S. Ram (Hyderabad, INDIA)

**08:05-08:15 Technology for promoting adherence to medication, or Hypertension control in primary care in LMICs: technology vs manpower**

D. Prabhakaran (Gurugram, INDIA)

**08:15-08:25 Management of adherence in hypertension - the ESH perspective**

M. Burnier (Lausanne, SWITZERLAND)

**08:25-08:35 Statins in uncomplicated hypertension: evidence and consensus**

R. Gupta (Jaipur, INDIA)

**08:35-08:45 Use of low-dose aspirin in patients with hypertension**

D. Gasecki (Gdansk, POLAND)

**08:45-09:00 General Discussion**

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**09:00-10:00**

**A. TRIANTI ROOM**

How-to Session

**SPECIAL SETTINGS FOR BLOOD PRESSURE MEASUREMENT - WHEN AND HOW?**

Chairpersons: J. Sheppard (Oxford, UNITED KINGDOM), A. Schutte (Sydney, AUSTRALIA)

**09:00-09:12 Central blood pressure measurement**

A. Protogerou (Athens, GREECE)

**09:12-09:24 Assessment of blood pressure variability**

G. Parati (Milan, ITALY)

**09:24-09:36 Nocturnal blood pressure monitoring with home device**

A. Kollias (Athens, GREECE)

**09:36-09:48 Home blood pressure telemonitoring**

S. Omboni (Varese, ITALY)

**09:48-10:00 General Discussion**

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**09:00-10:00**

**MITROPOULOS ROOM**

Workshop

**HYPERTENSION TREATMENT TARGETS IN THE ELDERLY: NEW DATA AND OLD PROBLEMS**

Chairpersons: A. Benetos (Nancy, FRANCE), G. Mancia (Milan, ITALY)

**09:00-09:10 Trials of Intensive Blood-Pressure Control in Older Patients with Hypertension. An update**

W. Cushman (Memphis, USA)

**09:10-09:20 The SPRINT perspective**

P.K. Whelton (New Orleans, USA)

**09:20-09:30 The STEP perspective**

W. Zhang (Shanghai, CHINA)

**09:30-09:40 Critical points to be considered**

S.E. Kjeldsen (Oslo, NORWAY)

**09:40-10:00 General discussion**



09:00-10:00

**SKALKOTAS ROOM**

**Workshop**

**RENAL DENERVATION - FROM SCIENCE TO CLINICAL PRACTICE**

Chairpersons: K. Kario (Tochigi, JAPAN), K. Tsioufis (Athens, GREECE)

- 09:00-09:10 **Predictors of BP response - how far are we?**  
R.E. Schmieder (Erlagen, GERMANY)
- 09:10-09:20 **Patient Perspective - how to incorporate in clinical practice?**  
A. Pathak (Monaco, MONACO)
- 09:20-09:30 **Renal Denervation: New developments in 2022**  
F. Mahfoud (Homburg/Saar, GERMANY)
- 09:30-09:40 **Renal Denervation - for which patient?**  
V. Papademetriou (Washington, DC, USA)
- 09:40-10:00 **General discussion**
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09:00-10:00

**BANQUETING ROOM**

**Oral Session 22**

**DIABETES AND OBESITY**

Chairpersons: J. Wang (Shanghai, CHINA), C. Chrysohoou (Athens, GREECE)

- 09:00-09:20 **Eating behaviour and weight management in hypertension**  
*TBD*
- 09:20-09:30 **CHANGES IN RETINAL VESSEL DIAMETER ARE ASSOCIATED WITH CEREBRAL MICROBLEEDS IN NEUROLOGICALLY ASYMPTOMATIC INDIVIDUALS WITH TYPE 1 DIABETES**  
Aleksi Tarkkonen, Ward Fickweiler (2), Jennifer Sun (2), Lena Thorn (1), Marika Eriksson (1), Per -Henrik Groop (1,3), Carol Forsblom (1), Jukka Putaala (1), Juha Martola, Daniel Gordin (1,2) (1) Helsinki (FINLAND), (2) Boston MA (UNITED STATES), (3) Melbourne (AUSTRALIA)
- 09:30-09:40 **LEVERAGING TECHNOLOGY TO SUPPORT PEOPLE LIVING WITH HYPERTENSION AND DIABETES DURING THE COVID-19 PANDEMIC**  
Aima Adebo Uagboe, Ayoposi Ogboye, Maria Moosa Muneer, KM Jawadur Rahman, Jonas Kofi Akpakli, Nneka Mobisson  
*Lagos (NIGERIA)*
- 09:40-09:50 **LIPID INDICES, ARTERIAL DAMAGE AND ALBUMINURIA IN PEDIATRIC PATIENTS WITH UNTREATED PRIMARY HYPERTENSION**  
Piotr Skrzypczyk, Katarzyna Pawlik, Adam Bujanowicz, Tobiasz Wroniewicz, Michal Szyszka, Anna Ofiara, Malgorzata Panczyk-Tomaszewska  
*Warsaw (POLAND)*
- 09:50-10:00 **MATERNAL OBESITY AND GESTATIONAL DIABETES ARE ASSOCIATED WITH DNA METHYLATION ALTERATIONS IN THE OFFSPRING THROUGHOUT THE FIRST YEAR OF LIFE**  
JUAN JOSÉ ALBA-LINARES, RAÚL FERNÁNDEZ-PÉREZ (1-5,9), FRANCISCO PONCE-ZANON (6,7), NURIA GARCÍA-CARBONELL (6,8), RAFAEL GOMEZ-ZAFRA (6,8), MARIO FERNÁNDEZ-FRAGA (1-5,10), EMPAR LURBE-FERRER (6-8,10)  
(1) Oviedo (SPAIN), (2) Oviedo (SPAIN), (3) Oviedo (SPAIN), (4) Oviedo (SPAIN), (5) Madrid (SPAIN), (6) Valencia (SPAIN), (7) Madrid (SPAIN), (8) Valencia (SPAIN), (9) , (10)

09:00-10:00

ROOM MC 2

How-to Session

MANAGING HYPERTENSION AND CVD RISK IN PATIENTS WITH CKD

Chairpersons: A. Papagianni (Thessaloniki, GREECE), J. Wolf (Gdansk, POLAND)

- 09:00-09:15 Treatment of atrial fibrillation in patients with CKD: is there a safe road between Scylla and Charybdis  
C. Ferro (Birmingham, UNITED KINGDOM)
- 09:15-09:30 Protection of renal function in patients with polycystic kidney disease: from BP control, to vaptans and beyond  
A.A. Ortiz (Madrid, SPAIN)
- 09:30-09:45 Volume and blood pressure management in patients on peritoneal dialysis  
A. Wang (Hong Kong, HONG KONG)
- 09:45-10:00 General Discussion
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09:00-10:00

ROOM MC 3

Oral Session 23

KIDNEY 3 AND RELATED ASPECTS

Chairpersons: M. Gorostidi (Oviedo, SPAIN), M. Viigimaa (Tallin, ESTONIA)

- 09:00-09:10 GLOMERULAR PROSTAGLANDIN E2 IS UPREGULATED DURING ONSET OF ALBUMINURIA THAT IS SUPPRESSED AFTER DUAL BLOCKADE OF ITS EP2 AND EP4 RECEPTORS IN A RAT MODEL OF GLOMERULAR HYPERFILTRA  
Angela Schulz, Eva Mangelsen, Aikaterina Kourpa, Debora Kaiser, Michael Rothe, Daniela Panakova, Juliane Bolbrinker, Reinhold Kreutz  
*Berlin (GERMANY)*
- 09:10-09:20 COMPARATIVE TRANSCRIPTOMIC ANALYSIS IDENTIFIES EPITHELIAL-MESENCHYMAL TRANSITION AND INFLAMMATION AS COMMON PATHOGENETIC MECHANISMS IN HYPERTENSIVE AND DIABETIC NEPHROPATHY  
Ole Petter Nordbø, Lea Landolt (1), Øystein Eikrem (1), Andreas Scherer (3), Sabine Leh (1), Jessica Furriol Palmer, Terje Apeland (2), Piotr Mydel (1), Hans -Peter Marti (1)  
*(1) Bergen (NORWAY), (2) Stavanger (NORWAY), (3) Kontiolahti (FINLAND)*
- 09:20-09:30 GLOMERULAR HYPERFILTRATION MAY CONTRIBUTE TO RENAL TROPISM AND KIDNEY INJURY IN COVID-19 BY UPREGULATING ACE2 IN HUMAN PODOCYTES  
Juliane Bolbrinker, Eva Mangelsen, Aikaterini Kourpa, Kaiser Debora, Panakova Daniela, Kreutz Reinhold  
*Berlin (GERMANY)*
- 09:30-09:50 LECTURE: Sexual dysfunction in CKD. An untold story  
M. Doumas (Thessaloniki, GREECE)
- 09:50-10:00 THE INFLUENCE OF AMBULATORY BLOOD PRESSURE ON THE ASSOCIATIONS OF INTRADIALYTIC HYPERTENSION WITH FUTURE CARDIOVASCULAR EVENTS AND MORTALITY IN HEMODIALYSIS PATIENTS  
Marieta Theodorakopoulou (1), Fotini Iatridi (1), Maria -Eleni Alexandrou (1), Antonios Karpetas (1), Athanasios Bikos (1), Vasilios Raptis (2), Ioannis Tsouchnikas (1), Panagiotis Giamalis (1), Aikaterini Papagianni (1), Pantelis Sarafidis (1)  
*(1) Thessaloniki (GREECE), (2)Katerini (GREECE)*

**10:00-11:00**

**SKALKOTAS ROOM**

**Joint Session ESH-HEART FAILURE ASSOCIATION (HFA)**

**FROM HYPERTENSION TO HEART FAILURE**

Chairpersons: M. Camafort (Barcelona, SPAIN), G. Filippatos (Athens, GREECE)

- 10:00-10:12**    **Transition from hypertension to HFpEF**  
G.M. Rosano (London, UNITED KINGDOM)
- 10:12-10:24**    **Hypertension: Gaps in evidence**  
K. Tsioufis (Athens, GREECE)
- 10:24-10:36**    **Role of biomarkers in the transition from hypertensive heart disease to heart failure**  
J. Diez Martinez (Pamplona, SPAIN)
- 10:36-10:48**    **From hypertension to heart failure: Update 2022**  
M. Burnier (Lausanne, SWITZERLAND)
- 10:48-11:00**    **General Discussion**
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**10:00-11:00**

**ROOM MC 2**

**Workshop**

**INFLAMMATION, IMMUNITY AND THE ARTERIAL DAMAGE: WHAT HAVE WE LEARNED FROM THE COVID-19 PANDEMIC?**

Chairpersons: U. Wenzel (Hamburg, GERMANY), S. Laurent (Paris, FRANCE)

- 10:00-10:10**    **Inflammatory and immune mechanisms of arterial aging**  
R. Touyz (Montréal, Québec, CANADA)
- 10:10-10:20**    **COVID-19 disease and large arteries stiffening: the CARTESIAN Study**  
R.M. Bruno (Paris, FRANCE)
- 10:20-10:30**    **COVID-19 vaccination and large arteries function**  
D. Terentes-Printzios (Athens, GREECE)
- 10:30-10:40**    **Microvascular dysfunction and COVID-19**  
D. Rizzoni (Brescia, ITALY)
- 10:40-10:50**    **Reversing the effects of vascular inflammation**  
M.L. Muiesan (Brescia, ITALY)
- 10:50-11:00**    **General discussion**
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**10:15-11:00**

**BANQUETING ROOM**

**Meet-the-Expert**

**NOVELTIES IN THE DIAGNOSIS AND MANAGEMENT OF PRIMARY ALDOSTERONISM**

Coordinator: P. Mulatero (Turin, ITALY), C.A. Stratakis (Bethesda, MD, USA)

- 10:15-10:30**    **Screening and confirmation**  
Expert: M. Doumas (Thessaloniki, GREECE)
- 10:30-10:45**    **Associated clinical phenotypes**  
Expert: A. Januszewicz (Warsaw, POLAND)
- 10:45-11:00**    **Therapy**  
Expert: L. Sechi (Udine, ITALY)
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**11:00-12:30**

**A. TRIANTI ROOM**

**PLENARY SESSION 5**

- 11:00-11:30**    **Debate: SHOULD WE TREAT PATIENTS WITH NORMAL BP? EVIDENCE FROM RECENT META-ANALYSES**  
Chairperson: A.M. Heagerty (Manchester, UNITED KINGDOM)
- 11:00-11:10**    **Yes**  
K. Rahimi (Oxford, UNITED KINGDOM)
- 11:10-11:20**    **No**  
M. Brunstrom (Umeå, SWEDEN)
- 11:20-11:30**    **The clinical perspective**  
G. Mancia (Milan, ITALY)
- 11:30-12:00**    **Keynote Lecture**  
**FUTURE OF BP MONITORING TECHNICAL DEVICES**  
G.S. Stergiou (Athens, GREECE)
- 12:00-12:30**    **Debate: THE J CURVE AS A GUIDE FOR ANTIHYPERTENSIVE TREATMENT**  
Chairpersons: V. Papademetriou (Washington, DC, USA), R. Zimlichman (Herzlia, ISRAEL)
- 12:00-12:10**    **Yes**  
TBD
- 12:10-12:15**    **Discussion**
- 12:15-12:25**    **No**  
T. Weber (Wels, AUSTRIA)
- 12:25-12:30**    **Discussion**
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**13:00-14:30**

**A. TRIANTI ROOM**

**Teaching Seminar - Session 3**

**SECONDARY HYPERTENSION. WHEN TO SUSPECT, HOW TO SCREEN AND HOW TO TREAT**

Chairpersons: P. Mulatero (Turin, ITALY), A. Persu (Brussels, BELGIUM)

- 13:00-13:20**    **Pheochromocytoma**  
L. Amar (Paris, FRANCE)
- 13:20-13:40**    **Primary Aldosteronism**  
P. Mulatero (Turin, ITALY)
- 13:40-14:00**    **Renovascular hypertension**  
A. Prejbisz (Warsaw, POLAND)
- 14:00-14:20**    **Monogenic forms of hypertension**  
C. Delles (Glasgow, UNITED KINGDOM)
- 14:20-14:30**    **General Discussion**
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13:00-14:00

**BANQUETING ROOM**

**Oral Session 24**

**AGEING**

Chairpersons: H.-P. Marti (Bergen, NORWAY), T. Unger (Maastricht, THE NETHERLANDS)

- 13:00-13:20 LECTURE: Impact of mid-age hypertension on ageing trajectories**  
A. Benetos (Nancy, FRANCE)
- 13:20-13:30 THE DANTON STUDY - DISCONTINUATION OF ANTIHYPERTENSIVE TREATMENT IN OLDER PEOPLE WITH DEMENTIA LIVING IN A NURSING HOME: RESULTS OF A RANDOMIZED CONTROLLED TRIAL**  
Jonathan Bogaerts, Jacobijn Gussekloo, Bianca de Jong-Schmit, Wilco Achterberg, Rosalinde Poortvliet  
*Leiden (THE NETHERLANDS)*
- 13:30-13:40 PULSE PRESSURE ASSOCIATED WITH PHYSICAL FUNCTION DECLINE AND FRAILTY SYNDROME PROGRESSION**  
Shao -Yuan Chuang, Wen -Ling Lin, Chia -Hung Lai, Ren -Hua Chung, Chih -Cheng Hsu  
*Miaoli (TAIWAN)*
- 13:40-13:50 DISENTANGLING THE VARYING ASSOCIATIONS BETWEEN SYSTOLIC BLOOD PRESSURE AND HEALTH OUTCOMES IN THE VERY OLD: AN INDIVIDUAL PATIENT DATA META-ANALYSIS**  
Jonathan Bogaerts (1), Rosalinde Poortvliet (1), Veerle Van Der Klei (2), Wilco Achterberg (1), Jeanet Blom (1), Ruth Teh (3), Marama Muru-Lanning (4), Ngaire Kerse (3), Anna Rolleston (5), Carol Jagger (6), Andrew Kingston (6), Louise Robinson (6), Yasu Arai (7), Ryo Shikimoto (7), Jacobijn Gussekloo (1,2)  
*(1) Leiden (THE NETHERLANDS), (2) Leiden (THE NETHERLANDS), (3) Auckland (NEW ZEALAND), (4) Auckland (NEW ZEALAND), (5) Tauranga (NEW ZEALAND), (6) Newcastle (UNITED KINGDOM), (7) Tokyo (JAPAN)*
- 13:50-14:00 IMPACT OF ARTERIAL HYPERTENSION VERSUS AGING TO THE STRUCTURES OF EPICARDIAC NERVES IN SPONTANEOUSLY HYPERTENSIVE RATS**  
Dalia Ranceviene, Joana Azukaite, Kristina Rysevaite-Kyguoliene, Neringa Pauziene  
*Kaunas (LITHUANIA)*
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13:00-14:00

**ROOM MC 3**

**Workshop**

**COVID-19, HYPERTENSION AND CARDIOVASCULAR DISEASE**

Chairpersons: A. Leiba (Ashdod, ISRAEL), W. Wojciechowska (Krakow, POLAND)

In the:

- 13:00-13:10 Heart**  
M. Salvetti (Brescia, ITALY)
- 13:10-13:20 Kidney**  
O. Thaumat (Lyon, FRANCE)
- 13:20-13:30 Venous-Pulmonary circulation**  
S. Konstantinides (Mainz, GERMANY)
- 13:30-13:40 Brain Long COVID Neurological disease**  
E. Korompoki (Athens, GREECE)
- 13:40-14:00 General discussion**
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13:00-14:00

**CONFERENCE ROOM 1**

Late-Breakers

**ORAL SESSION 3**

- 13:00-13:10 COST-EFFECTIVENESS OF INTENSIVE VERSUS STANDARD BLOOD-PRESSURE CONTROL IN OLDER PATIENTS WITH HYPERTENSION**  
Chia -Te Liao (1,2,3), Han Siong Toh (4), Chun -Ting Yang (5), Dongmei Wei, Jesus Melgarejo, Zhih -Cherng Chen (3), Jhih -Yuan Shih (3), Zhen -Yu Zhang  
(1) *Leuven (BELGIUM)*, (2) *Tainan (TAIWAN)*, (3) *Tainan (TAIWAN)*, (4) *Tainan (TAIWAN)*, (5) *Tainan (TAIWAN)*
- 13:10-13:20 SYNERGISTIC EFFECT OF HIGH HOMOCYSTEINE AND LOW VITAMIN B12 LEVELS ON CARDIOVASCULAR AND STROKE RISK OF HYPERTENSIVE PATIENTS**  
C Liakos, E Karpanou, M Markou, C Grassos, D Tousoulis, G Vyssoulis, C Tsioufis  
*Athens (GREECE)*
- 13:20-13:30 CARDIOVASCULAR EVENTS ACCORDING TO FOLLOW-UP INTERVAL IN HYPERTENSIVE PATIENTS**  
Hae -Young Lee (1), Myeong -Chan Cho (2)  
(1) *Seoul (SOUTH KOREA)*, (2) *Cheongju (SOUTH KOREA)*
- 13:30-13:40 HIDDEN CENTRAL HYPERTENSION AND SPURIOUS HYPERTENSION IN ELDERLY PEOPLE**  
Leila Miserque, Marcelo Boscaro, Carol Kotliar, Sebastian Obrego  
*Buenos Aires (ARGENTINA)*
- 13:40-13:50 THE EFFECT OF BIOFEEDBACK ON HYPERTENSION AND DIABETES: PRELIMINARY RESULTS FROM A SYSTEMATIC REVIEW**  
S Jenkins, P Gupta, K Khunti, A Cross  
*Leicester (UNITED KINGDOM)*
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13:30-14:30

**MITROPOULOS ROOM**

Workshop

**PREVENTION IN CHILDREN AND ADOLESCENTS**

Chairpersons: P. Agathangelou (Nicosia, CYPRUS), S. Erdine (Istanbul, TURKEY)

- 13:30-13:45 Screening for childhood hypertension**  
D. Drozd (Krakow, POLAND)
- 13:45-14:00 Addressing the needs of BP measurement in children and adolescents**  
S. Stabouli (Thessaloniki, GREECE)
- 14:00-14:15 Clinical significance of isolated systolic and diastolic hypertension phenotypes in youth**  
E. Lurbe (Valencia, SPAIN)
- 14:15-14:30 General discussion**
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13:30-14:15

**SKALKOTAS ROOM**

Meet-the-Expert

**THROMBOEMBOLISM AND BLEEDING IN HYPERTENSION AND ATRIAL FIBRILLATION: "ALL IN GOOD MEASURE"**

Coordinator: R. Kreutz (Berlin, GERMANY)

- 13:30-13:52 Hypertension and CHA2DS2-VASc1 score, HAS-BLED score and beyond**  
Expert: S. Masi (Pisa, ITALY)
- 13:52-14:14 A clinical guide to modern physicians**  
Expert: A.J. Manolis (Athens, GREECE)

**13:30-14:30**

**ROOM MC 2**

**How-to Session**

**HOW TO EVALUATE VASCULAR AGEING - CLINICAL CASE STUDIES**

Chairpersons: J. Blacher (Paris, FRANCE), B. Spronck (Maastricht, THE NETHERLANDS)

**13:30-13:45 Case 1: Endothelial function: Flow-mediated dilation**

R.M. Bruno (Paris, FRANCE)

**13:45-13:50 Discussion**

**13:50-14:05 Case 2: Arterial stiffness: Carotid-femoral pulse wave velocity**

P. Boutouyrie (Paris, FRANCE)

**14:05-14:10 Discussion**

**14:10-14:25 Case 3: Central blood pressure**

C. Park (London, UNITED KINGDOM)

**14:25-14:30 Discussion**