



6<sup>th</sup> ECHSA & CHSS Joint Meeting 9<sup>th</sup> WSPCHS Annual Meeting 53<sup>rd</sup> SICP National Congress

Hosted by the

World Society for Pediatric and Congenital Heart Surgery (WSPCHS) European Congenital Heart Surgeons Association (ECHSA) Congenital Heart Surgeons' Society (CHSS)



World Summit dedicated to: Giancarlo Rastelli

With Special Participation of the: Italian Society of Pediatric and Congenital Cardiology (SICP)



Società Italiana di Cardiologia Pediatrica e delle Cardiopatie Congenite





### With the Participation of the:

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African Society for Pediatric and Congenital Heart Surgery (ASPCHS)



ASSOCIATION FOR EUROPEAN PAEDIATRIC AND CONGENITAL CARDIOLOGY

Association for European Paediatric and Congenital Cardiology (AEPC)



Latin American Association of Cardiac and Endovascular Surgery (LACES)



Asian Association for Pediatric and Congenital Heart Surgery (AAPCHS)



Congenital Heart Surgeons'Society Japan (CHSS)



Sociedad Latina de Cardiología y Cirugía Cardiovascular Pediátrica



# TOPICS

### **MAIN TOPIC**

### FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### **SUBTOPICS**

- Surgery for congenital mitral valve anomalies
- Surgery for congenital tricuspid valve anomalies
- Valvar reconstruction in balanced atrio-ventricular defects
- Surgical management of atrio-ventricular valve in single ventricle hearts
- Surgical management of failing atrio-ventricular valves and ventricles

For each topic there will be presentations followed by discussion on:

- Anatomic introduction
- Advanced diagnostic features
- Current surgical strategies (and perfusion techniques)
- Interventional cardiology treatment
- Use of mechanical assist devices (in cases of failing hearts)



# COMMITTEES

### LOCAL HOSTS

Vladimiro Vida, *Padova, Italy* Lorenzo Galletti, *Rome, Italy* Gaetano Gargiulo, *Bologna, Italy* Alessandro Giamberti, *Milan, Italy* 

### PLANNING COMMITTEE

Co-Chair: Vladimiro Vida, Padova, Italy Co-Chair: Christo I. Tchervenkov, Montreal, Canada Massimiliano Cantinotti, Massa, Italy Frank Edwin, Accra, Ghana Kirsten Finucane, Auckland, New Zealand Stephanie Fuller, Philadelphia, USA Lorenzo Galletti, Rome, Italy Gaetano Gargiulo, Bologna, Italy Alessandro Giamberti, Milan, Italy Jeffrey P. Jacobs, Gainesville, USA Robert Jaquiss, Dallas, USA James K. Kirklin, Birmingham, USA Attilio Lotto, Liverpool, UK Leonardo Miana, Sao Paulo, Brazil David M. Overman, Minneapolis, USA Francesca Raimondi, Bergamo, Italy Gabrile Rinelli, Rome, Italy Silvia Favilli, Firenze, Italy Kisaburo Sakamoto, Shizuoka, Japan Nestor Sandoval, Bogota, Colombia

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# COMMITTEES

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### 53<sup>RD</sup> SICP NATIONAL CONGRESS SOCIETÀ ITALIANA DI CARDIOLOGIA PEDIATRICA E DELLE CARDIOPATIE CONGENITE

### CORONARY ANOMALIES • 8:30 - 10:30

**Moderator:** Giovanni Di Salvo (*Padova*) **Discussants:** Mauro Lo Rito (*San Donato Milanese*), Nicola Mochi (*Pistoia*), Giuseppe Santoro (*Massa*), Biagio Castaldi (*Padova*), Paolo Guccione (*Taormina*)

### ANOMALOUS ORIGIN OF CORONARY ARTERIES FROM PULMONARY ARTERY

#### 8:30-8:40

Anatomy and Diagnosis Ylenia Bartolacelli (Bologna)

8:40-8:50 Treatment and Prognosis Mario Giordano (Napoli)

8:50-9:00

Discussion

### ANOMALOUS AORTIC ORIGIN OF CORONARY ARTERIES

9:00-9:10 Anatomy and Diagnosis Paolo Ciliberti (*Roma*)

9:10-9:20

When to treat Carlo Pace Napoleone (Torino)

**9:20-9:30** Discussion

### RISK STRATIFICATION AND SPORT ELEGIBILITY IN CORONARY ANOMALIES

#### 9:30-9:45

The challenge of sport elegibility in coronary anomalies Biagio Castaldi (*Padova*)

9:45-10:00

Discussion

### CORONARY ARTERIES IN COMPLEX CHD: REAL ISSUE OR CARDIOLOGIST OVERTHINKING?

10:00-10:10 Pulmonary Atresia with Coronary Fistulae Giovanni Meliota (*Bari*)

10:10-10:20 Coronary anomalies in Transposition: still an issue? Alessia Del Pasqua (*Roma*)

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



### **53<sup>RD</sup> SICP NATIONAL CONGRESS** SOCIETÀ ITALIANA DI CARDIOLOGIA PEDIATRICA E DELLE CARDIOPATIE CONGENITE

### ABNORMALITIES OF AORTIC ARCH FROM FETUS TO ADULT: MEET THE EXPERTS • 10:40 - 12:20

Moderators: Alessandro Giamberti (San Donato Milanese), Simona Anna Marcora (Milano) Discussants: Maria Giovanna Russo (Napoli), Lamia Ait-Ali (Massa), Matteo Ciuffreda (Verona), Emanuela Angeli (Bologna)

#### 10:40-10:50

**Fetal right ventricle predominance. How do you manage it?** Giulia Tuo (*Genova*)

**10:50-11:00** Discussion

#### 11:00-11:10

Vascular rings diagnosed during fetal life. How do you follow them? Alessandra Toscano (*Roma*)

**11:10-11:20** Discussion

11:20-11:30 Imaging aortic arch. Which modality fit the best? Francesco Bianco (Ancona)

**11:30-11:40** Discussion

11:40-11:50 Non ductus dependent coartation. When and to whom do you refer it? Domenico Sirico (*Padova*)

11:50-12:00 Discussion 12:00-12:10

**Complex recoartation. How do you approach it?** Angelo Fabio D'Aiello (*San Donato Milanese*)

12:10-12:20 Discussion

12:30-13:30 • LUNCH

### INDUSTRY SPONSORED SESSION • 12:30 - 13:30 Johnson&Johnson Pulmonary Arterial Hypertension in CHD Patients:

when cardiac surgeon and clinician come together for the patient

**Moderator:** Massimo Chessa (San Donato Milanese) **Discussants:** Giuseppe Alberto Annoni (Torino), Biagio Castaldi (Padova)

Introduction and objectives Massimo Chessa (San Donato Milanese)

12:30-12:45 CHD patient with pulmonary arterial hypertension: the pathophysiology and timing of cardiac surgery Paolo Ferrero (San Donato Milanese)

12:45-13:00

The diagnostic pathway of pulmonary arterial hypertension in pediatric and adult CHD patients Paola Argiento (*Napoli*)

13:00-13:15 What therapies for pulmonary arterial hypertension in congenital patients and how to manage them Gaia Spaziani (*Firenze*)



### 53<sup>RD</sup> SICP NATIONAL CONGRESS SOCIETÀ ITALIANA DI CARDIOLOGIA PEDIATRICA E DELLE CARDIOPATIE CONGENITE

### 13:15-13:25

Q&A and discussion Discussant, Moderators, Panelists and Audience

13:25-13:30

Conclusions Massimo Chessa (San Donato Milanese)

### RESTRICTIVE PHYSIOLOGY IN PEDIATRIC CARDIOMYOPATHIES AND CONGENITAL HEART DISEASE • 13:30 - 14:50

**Moderators:** Silvia Favilli (*Firenze*), Andrea Donti (*Bologna*) **Discussants:** Iacopo Olivotto (*Firenze*), Rachele Adorisio (*Roma*), Giuseppe Limongelli (*Napoli*)

#### 13:30-13.40

Restrictive Cardiomyopathies in children and adolescents (Overview) Luca Ragni (Bologna)

#### 13:40-13:50

Discussion

#### 13:50-14:00

The role of imaging Iolanda Sabatino (*Catanzaro*)

14:00-14:10

Discussion

#### 14:10-14.20

Implications of genetics for diagnosis and treatment Francesca Girolami (*Firenze*)

### 14:20-14:30

Discussion

14.30-14:40 'Acquired' restrictive CMPs Marcello Chinali (Roma)

14:40-14:50

Discussion

### **RESTRICTIVE PHYSIOLOGY IN CHDS • 14:50 - 15:50**

**Moderators:** Silvia Favilli *(Firenze)*, Andrea Donti *(Bologna)* **Discussants:** Giuliano Giusti *(Milano)*, Angelo Micheletti *(San Donato Milanese)*, Rachele Adorisio *(Roma)* 

#### 14:50-15:00

**Right ventricle** Gabriele Egidy Assenza (*Bologna*)

**15:00-15:10** Discussion

**15:10-15:20 Left ventricle** Paolo Ferrero (San Donato Milanese)

**15:20-15:30** Discussion

**15:30-15:40 Functionally univentricular heart** Roberto Formigari (*Genova*)

**15:40-15:50** Discussion



### **53<sup>RD</sup> SICP NATIONAL CONGRESS** SOCIETÀ ITALIANA DI CARDIOLOGIA PEDIATRICA E DELLE CARDIOPATIE CONGENITE

### HOT-TOPICS IN PEDIATRIC AND ACHD ARRHYTHMIAS • 16:00 - 17:00

**Moderators:** Fabrizio Drago (*Roma*), Gabriele Bronzetti (*Bologna*) **Discussants:** Massimo Stefano Silvetti (*Roma*), Fulvio Gabbarini (*Torino*), Giulio Porcedda (*Firenze*), Paolo Ferrero (*San Donato Milanese*)

### 16:00-16:10

Accessory pathways ablation in asymptomatic pediatric patients: pros and cons Loira Leoni (Padova)

16:10-16:20

Discussion

#### 16:20-16:30

Ventricular arrhythmias in repaired tetralogy of Fallot: role of EPS and ablation. Maria Elisabetta Mariucci (Bologna)

16:30-16:40

Discussion

16:40-16:50 Sudden cardiac death in ACHD: risk stratification and prevention Massimo Stefano Silvetti (*Roma*)

**16:50-17:00** Discussion

### Simposio congiunto medico infermieristico • 17:30 - 19:00

### **ITALIAN ONLY**

### GESTIONE MULTIDISCIPLINARE DI UN NEONATO CON CUORE SINISTRO IPOPLASICO O TRASPOSIZIONE DEI GRANDI VASI

**Moderators:** Maria Giovanna Russo (*Napoli*), Samantha Scolari (*Bologna*) **Discussants:** Stiljan Hoxha (*Verona*), Vitali Pak (*Massa*), Guido Oppido (*Napoli*), Sasha Agati (*Taormina*), Guido Michielon (*Genova*), Demetrio Pittarello (*Padova*), Stefano Maria Marianeschi (*Milano*), Gianfranco Butera (*Roma*), Luca Di Chiara (*Roma*), Alessandro Vittucci (*Roma*), Francesca Nardini (*Massa*)

### Ipoplasia del cuore sinistro

Ilaria Zini (Bologna), Tammam Hasan (Bologna)

#### Trasposizione dei grandi vasi

Andreea Alina Andronache (San Donato Milanese), Karina Geraldina Zuniga Olaya (San Donato Milanese)



### PROGRAM Wednesday June 5, 2024

### **PRE-MEETING WORKSHOPS**

### ROOM GIALLA • 9:00 - 13:00

### EXTENDED FETAL CARDIAC EXAMINATION FOR OBSTETRICIANS: PRENATAL DIAGNOSIS, COUNSELING AND PRACTICE SESSIONS

Chairs: Alessia Cerutti, Maria Giovanna Russo, Alvise Guariento, Isabella Fabietti

**Aims:** to raise awareness about the primary types of congenital heart defects detectable during the second trimester of pregnancy and to offer comprehensive counseling to expectant couples upon diagnosis.

**Methods:** Through frontal lectures, the most prevalent cases of congenital heart defects detectable during pregnancy will be explored. Additionally, 3D reconstruction techniques from fetal ultrasounds to create detailed threedimensional models will be described. Participants will engage in prenatal counseling sessions utilizing these 3D models, supplemented by practical exercises involving ultrasound equipment to analyze fetal heart volumes affected by congenital heart disease.

#### Duration: 240 minutes.

#### Schedule:

- Introduction (lecture) (15 minutes)
- Introduction to 3D reconstruction from fetal ultrasounds to create3D models (15 minutes) *A. Guariento*
- Presentation on anomalies of the 4-chamber scan (30 minutes) P. Veronese
- Prenatal counseling using 3D reconstruction models (25 minutes) *P. Veronese, A. Guariento*
- Presentation on anomalies of the Left and Right Ventricular Outflow Tract (30 minutes) *P. Veronese*
- Further discussion on prenatal counseling using 3D reconstruction models (25 minutes) *P. Veronese, A. Guariento*
- Invited lecture: Presentation on fetal intervention for Congenital Heart Disease (40 minutes) *I. Fabietti*

- Hands-on session with ultrasound equipment for analyzing fetal heart volumes with congenital heart disease, covering Atrioventricular Septal Defect, Univentricular Heart, Transposition of the Great Arteries and Tetralogy of Fallot (45 minutes) *P. Veronese, I. Fabietti*
- Discussion, farewells, and distribution one free copy of the book "Congenital hearths. A virtual atlas of congenital heart disease in prenatal and postnatal life"to each participant (15 minutes)

Participants (Max. n=30): Obstetricians and pediatric cardiologists.

### ROOM ROSSA • 14:00 - 18:00

### HANDS-ON IN PEDIATRIC AND CONGENITAL CARDIAC SURGERY (3D SIMULATION)

Chairs: Vladimiro Vida, Gaetano Gargiulo, Lorenzo Galletti, Alessandro Giamberti,

**Tutors:** Mark Bleiweis, Attilio Lotto, Jurgen Horer, Aydemir Numan Ali, Ali Dodge-Khatami

**Aims:** To master simple and complex cardiac surgical techniques using cuttingedge tools and materials such as aortic biological valves, prosthetic conduits, and biological patches for aortic arch or valve reconstruction, along with advanced suturing methods.

**Methods:** Hands-on procedures will be conducted on 3D-printed heart and great vessel models, contained in 12 specialized simulators accommodating up to 24 trainees and early-career surgeons.

### **Simulated Procedures:**

- Aortic Valve Replacement (4 stations 2 surgeons per station)
- Norwood Procedure for Hypoplastic Left Heart Syndrome (4 stations 2 surgeons per station)
- Mitral Valve Repair with posterior leaflet patch extension (4 stations 2 surgeons per station)

Each simulation station will feature two 3D-printed models, allowing active participation of all attendees (totaling 24 models).



## PROGRAM Wednesday June 5, 2024

### **PRE-MEETING WORKSHOPS**

Duration: 240 minutes.

### Schedule:

- Introduction (lecture) 15 minutes
- Briefing: (covering surgical background, demonstration, and task assignments) 30 minutes
- Execution: Two sessions with two 3D heart models per simulator 90 minutes
- Debriefing and Discussion 15 minutes

**Participants (Max. n=24):** Cardiac surgery residents, fellows, and attending cardiac surgeons.

### ROOM VERDE • 14:00 - 18:00

### HANDS-ON IN INTERVENTIONAL CARDIOLOGY

Chairs: Massimo Chessa, Gianfranco Butera, Biagio Castaldi, Andrea Donti

**Aims:** to delve into the world of innovative percutaneous interventions for congenital and acquired heart and valve diseases.

**Methods:** Our simulation will unfold across four dynamic "working stations," where participants will engage with devices on simulators or 3D printed heart models.

### Simulated procedures:

- Atrial Septal Defect/Ventricular Septal Defect occluders
- Percutaneous pulmonary valve implantation
- Percutaneous mitral valve repair
- Percutaneous atrial flow regulator implantation.

### Duration: 240 minutes.

### Schedule:

- Introduction: Lecture 30 minutes
- Briefing: Dive into procedure execution, group division, and a concise

overview of each intervention 30-minute session.

- Execution: Each trainee will rotate through a single simulation station for 20 minutes. Explore device functionality and simulate implantation under expert guidance.
- Debriefing and Discussion: Reflect on experiences and engage in a 15-minute discussion session.

**Participants (Max. n=30):** Cardiologists, clinicians, and cardiac surgeons seeking to deepen their understanding of indications, contraindications, and procedural techniques for these innovative interventions.

### ROOM GIALLA • 14:00 - 17:00

### TRAINING SIMULATION ON ADVANCED PAEDIATRIC ECHOCARDIOGRAPHY

Chairs: Giovanni Di Salvo, Gabriele Rinelli, Anna Balducci, Silvia Favilli

**Aims:** to delve into the forefront of pediatric echocardiography with our immersive training simulation. Designed to elevate your expertise, this session offers handson experience using state-of-the-art technology and advanced software, including 4D and Speckle tracking, to explore real-time 3D echocardiography and functional analysis.

**Methods:** Experience firsthand the intricacies of pediatric echocardiography through a hands-on session with pediatric simulators. Additionally, participants will have the opportunity to work with laptops equipped with cutting-edge software, allowing them to familiarize themselves with the latest developments in echo techniques.

Duration: 180 minutes.

### Schedule:

- Introduction: Kickstart your journey with a comprehensive overview in a 15-minute session.
- Presentation on New 2D-3D Echo Techniques: Dive into the latest advancements in echo technology in a 15-minute presentation.



### PROGRAM Wednesday June 5, 2024

### **PRE-MEETING WORKSHOPS**

• Direct Echo Scanning on Pediatric Simulator: Engage in direct scanning on pediatric simulators, encountering up to 250 congenital heart disease cases Hands-on Session on Laptops for 4D Echo and Speckle Tracking: Explore the capabilities of 4D echo and speckle tracking in a 60-minute hands-on session.

**Participants (Max. n=30):** Cardiologists, clinicians, obstetricians, and cardiac surgeons seeking to expand their knowledge and skills in advanced pediatric echocardiography.

### 14:00 - 18:00 (OUTDOOR)

### MEDTRONIC CAPSULE ON TRANSCATHETER HEART VALVE THERAPIES

**Aim:** to uncover the cutting-edge transcatheter technologies from Medtronic for treating both congenital and acquired heart valve diseases. This immersive session is designed to equip participants with the skills and knowledge needed to achieve optimal clinical outcomes through the precise implantation of self-expandable valves.

**Methods:** Participants will engage in a comprehensive program that includes an overview of Medtronic's current transcatheter technologies and insights into future innovations. Delve into the transcatheter pulmonary valve implantation procedure with updates on the latest clinical evidence. Experience a step-bystep guide to the Transcatheter Aortic Valve Implantation (TAVI) procedure, followed by hands-on practice using a TAVI virtual simulator. Through group sessions, participants will learn the best practices for implanting self-expandable valves.

#### Schedule:

- Overview of Medtronic's Transcatheter Technologies and Future Innovation (15 minutes)
- Deep Dive into Transcatheter Pulmonary Valve Implantation Procedure and Latest Clinical Evidence Step-by-Step Guide to TAVI Procedure (15 minutes)

 Hands-On Session with TAVI Virtual Simulator for Optimal Valve Implantation – Participants will be divided into groups of 3-4 people (210 minutes)

Duration: 240 minutes

**Participants (Max. n=30):** Cardiologists, clinicians, and cardiac surgeons seeking to enhance their understanding and proficiency in percutaneous therapy options for congenital and acquired heart valve diseases.

### **ROOM GIALLA**

**17:00 - 17:30** Database Committee Meeting (ECHSA)

**17:30 - 18:00** Research Committee Meeting (ECHSA)

**18:00 - 19:00** Board Meeting ECHSA (By invitation only)

### **ROYAL HOTEL CARLTON**

**19:00 - 22:00** Governing Council Meeting WSPCHS (By invitation only)



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### SESSION 1 • 8:00 - 8:40

#### 8:00 - 8:20

Welcome from ECHSA President Vladimiro Vida - Padova, Italy

Welcome from WSPCHS President James K. Kirklin - Birmingham, USA

Welcome from CHSS President David Overman - Minneapolis, USA

Welcome from WSPCHS Executive Director Christo I. Tchervenkov - Montreal, Canada

8:20 - 8:40 • SPECIAL LECTURE 1 introduced by Vladimiro Vida, *Italy* Morphology of congenital mitral valve anomalies Vera Demarchi Aiello, *Brazil* 

### SESSION 2 • 8:40 - 10:15 • MITRAL VALVE I

Moderators: Lorenzo Galletti, Italy - Luca Vricella, USA

8:40 - 9:00 • LECTURE 1 Echocardiography of the Mitral Valve: From clinician to surgeon Gabriele Egidy Assenza, *Italy* 

9:00 - 9:20 • LECTURE 2 Reconstructive surgery for mitral valve in infancy: What are the options? Christopher Baird, USA (CHSS)

**9:20 - 9:40 • LECTURE 3 The long-term outcomes of surgical reconstruction of the mitral valve in infancy** Micheal Gatzoulis, *UK* 

9:40 - 10:00 • LECTURE 4 Conservative surgery of the mitral valve: What can the adult cardiac surgeon teach to the congenital surgeon? (rings, chordae, minimally invasive approaches. etc) Ruggero De Paulis, *Italy* 

10:00 - 10:15 • DISCUSSION 10:15 - 10:45 • COFFEE BREAK



### FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### 10:15 - 10:45 • WALKING POSTER ABSTRACT SESSION 1

### 10:15 - 10:45 • ORAL POSTER PRESENTATION ABSTRACT SESSION 1 DISCUSSION AREA

Moderators: Ignacio Juaneda, Argentina - Matteo Trezzi, Italy

- 1. Stenting Of Right Ventricular Outflow Tract Versus Modified Blalock Taussig Thomas Shunt As Palliation Strategy In Symptomatic Neonates With Tetralogy Of Fallot Von Stumm Maria
- 2. Sanguineous Cardiopulmonary Bypass Prime Accelerates Complement Activation During Pediatric Cardiac Surgery Bierer Joel
- 3. Cone Repair Of Ebstein's Anomaly In Growing Patients: The UCC Experience Yemets Illya
- 4. Surgical Management Of Pulmonary Atresia With Ventricular Septal Defect – A Single Center Experience Over Two Decades Zapilko Anna Lena

### SESSION 3 • 10:45 - 12:00 • ORAL PRESENTATIONS 1

Moderators: Carlo Pace Napoleone, Italy - Ziv Beckerman, UK

- 1. A Comparison Of Mitral Valve Replacement Outcomes In Children Based On Etiology: A 52 Year Experience Brown John
- 2. Aortic Valve Surgery In Adolescence: A European Congenital Heart Surgeon Association Congenital Database Study Of 2,129 Patients Cattapan Claudia
- 3. Overcoming Barriers As We Move Closer To Cardiac Xenotransplantation In Infants With Complex Congenital Heart Disease

Cleveland David C

- 4. Experience In Coronary Artery Bypass Graft In The Pediatric Population In A Middle-Income Country Chalela Tomas
- 5. Erosion And Embolization After Trans-Catheter Atrial Septal Defect Closure: An European Survey Rebonato Micol
- 6. Linkage Of The Korean Pediatric And Congenital Heart Surgery Database To A Global Quality Platform Of Congenital Heart Surgery: The Next Step In Knowledge Unification St Louis James

#### 12:00 - 12:30

4<sup>th</sup> Adib D. Jatene Lecture on Surgical Innovation Introduced by: Marcelo Jatene, *Brazil* Speaker: Jose Pedro Da Silva, *USA* 

12:30 - 13:00 CHSS Presidential Address Introduced by: Jeffrey P. Jacobs, USA

Speaker: David Overman, USA

13:00 - 14:00 • LUNCH

# 13:00 - 13:30 • INDUSTRY SPONSORED SESSION

Reducing adhesions in congenital pediatric patients -A Patient-centric Approach Carlo Pace Napoleone, *Italy* 



### FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### 13:30 - 14:30 • SURGICAL VIDEO PRESENTATION DISCUSSION AREA

Moderators: Aydemir Numan Ali, Turkey - Gaia Viganò, Italy

- 1. Super Cone Operation for Ebstein's Anomaly Mohanty Smruti Ranjan
- 2. Robotic Approach for Surgical Correction of Scimitar Syndrome via Direct Anastomosis David Blitzer
- 3. Bi-Ventricular Conversion Procedure with Atrial Switch for Patients with Complete Atrioventricular Septal Defect Hani K.Najm
- 4. Rastelli Procedure with Preservation of Native RVOT in L-DORV Bertelli Francesco
- 5. Surgical Repair Of Unusual Variant Of Double Outlet Right Ventricle With Discordant Atrioventricular Connections And Superior-Inferior Ventricles

Al Kindi Hamood

6. First-in-Man Hybrid Implantation of a Stented Bovine Pericardial Valve into a Degenerated Bovine Jugular Vein Valve in Mitral Position in a Child with Congenital Mitral Valve Stenosis Grieshaber Philippe

### SESSION 4 • 14:00 - 15:30 • MITRAL VALVE II

**Moderators:** James St. Louis, USA - Hoel Tom Nilsen, Norway - David Kalfa, USA

14:00 - 14:20 • LECTURE 5 Current therapeutic strategies, surgical techniques, and outcomes for Rheumatic Mitral Valve Disease Darshan Reddy, South Africa (WSPCHS) 14:20 - 14:40 • LECTURE 6

Transcatheter Mitral Valve Therapies/reconstruction (including valve replacement, repair, perivalvar leaks) Francesco Saia, *Italy* (*GISE*)

### 14:40 - 15:00 • LECTURE 7

**Surgical replacement of the Mitral Valve in children: Experience with mechanical valves** Tjark Ebels, *The Netherlands (ECHSA)* 

15:00 - 15:20 • LECTURE 8 Alternative surgical options for Mitral Valve Replacement when a mechanical prosthesis is not feasible Emile Bacha, USA (CHSS)

15:20 - 15:30 • DISCUSSION

15:30 - 16:00 • COFFEE BREAK

15:30 - 16:00 • WALKING POSTER ABSTRACT SESSION 2



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### 15:30 - 16:00 • ORAL POSTER PRESENTATION ABSTRACT SESSION 2 DISCUSSION AREA

Moderators: Silvia Favilli, Italy - Simone Speggiorin, UK

- 1. Outcomes Of Atrioventricular Septal Defect Repair In Under Resourced Countries: 10-Year Experience In Argentina Juaneda Ignacio
- 2. Midterm Results Of Tricuspid Valve Repair For Ebstein Anomaly In Neonates And Infants Ting Mao
- 3. Remodelling Of The Right Ventricle After Cone Surgery Of The Tricuspid Valve In Ebstein's Anomaly Baessato Francesca
- 4. Addressing Branch Pulmonary Artery Stenosis During Bidirectional Glenn Operation In The Era Of Ductal Stenting: Long Term Results Srimurugan Balaji

### SESSION 5 • 16:00 - 17:15 • ORAL PRESENTATIONS 2

Moderators: Stiljan Hoxha, Italy - Riyadh M. Abu-Sulaiman, Saudi Arabia

- 1. Congenital Mitral Valve Repair May Not Follow Carpentier Principles: The Importance Of Papillary Muscle Interventions Najm Hani
- 2. Development Of Veno-Venous Collaterals After Bidirectional Cavopulmonary Shunt Procedure Nguyen Cong Michelle Bao Hoa
- 3. Outcomes Of Mitral Valve Replacement In Children Under 2 Years Of Age - Mechanical Valve Versus Melody Valve Lotto Attilio
- 4. Outcomes Of EXCOR Pediatric Implantation For Pediatric Heart Failure Including Lower Limitations Of Body Weight Komori Motoki

- 5. Cardiac Catheterization In Low Weight Infants: Experience Of A Single Center Rebonato Micol
- 6. Molecular Insight Into The Mechanism Of Pulmonary Vein Stenosis In Pediatric Patients Birla Ravi

### SESSION 6 • 17:15 - 17:40 • RAPID FIRE PRESENTATIONS 1

Moderators: Hiromi Kurosawa, Japan - Guido Oppido, Italy

- 1. A Miniaturized Adult Epicardial Pacemaker For Small Neonates With Congenital Heart Block Pena Emily
- 2. Dextrocardia In Single-Ventricle Physiology: Perioperative Aspects And Long-Term Outcomes After Stage 3 Palliation Schaeffer Thibault
- **3. An Unusual Presentation Of Double Outlet Right Atrium** Al Kindi Hamood
- 4. Extending The Limits Of The Ross Operation: Preliminary Experience With The Ross-Pears Procedure In Italy Michielon Guido
- 5. Impact Of Duration Of Bilateral Pulmonary Artery Banding On Pulmonary Artery Size After Norwood Operation In HLHS Patients Duebener Lennart

#### 18:00

WELCOME RECEPTION & OPENING CEREMONIES



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

8:00 - 8:20 • SPECIAL LECTURE 2 Introduced by: Mauro Lo Rito, *Italy* Morphology of congenital tricuspid valve anomalies Annalisa Angelini, *Italy (AEPC)* 

### SESSION 7 • 8:20 - 10:00 • TRICUSPID VALVE I

Moderators: Alessandro Giamberti, Italy - Fekede Agwar, Ethiopia

8:20 - 8:40 • LECTURE 9 Technical aspects of the CONE procedure Jose Pedro Da Silva, USA

8:40 - 9:00 • LECTURE 10 Neonatal management of Ebstein anomaly Christian Pizarro, USA (CHSS)

9:00 - 9:20 • LECTURE 11 Advanced imaging of the Tricuspid Valve: From clinician to surgeon Alison Howell, Canada

9:20 - 9:40 • LECTURE 12 Long - term results of surgical treatment of Ebstein anomaly Anastasios C. Polimenakos, USA (ECHSA)

9:40 - 10:00 • DISCUSSION

10:00 - 10:30 • COFFEE BREAK

10:00 - 10:30 • WALKING POSTER ABSTRACT SESSION 3

### 10:00 - 10:30 • ORAL POSTER PRESENTATION ABSTRACT SESSION 3 DISCUSSION AREA

Moderators: Gaurav Kumar, India - Sara Arrigoni, The Netherlands

- 1. Arterial Switch And Neurological Outcomes. Corno Antonio F.
- 2. Correlation Between Novel Cardiac Biomarkers And Myocardial Fibrosis In Patients With Repaired Tetralogy Of Fallot Meliota Giovanni
- 3. The First Experience Of Single-Stage Correction Of Ebstein Anomaly With Pulmonary Artery Atresia In Neonates Movsesyan Ruben
- 4. Contegra Bovine Jugular Vein Conduit: Durability And Morphological Changes Nichay Nataly
- 5. Virtual Reality For Nurse Education In Congenital Heart Diseases: A Randomized Controlled Trial At Azienda Ospedale-Università Padova Cameran Marco

### SESSION 8 • 10:30 - 12:00 • TRICUSPID VALVE II

Moderators: Gaetano Gargiulo, Italy - Boulos Asfour, Germany

10:30 - 10:50 • LECTURE 13 Surgery for congenital tricuspid valve disease (non- Ebstein) in infants, children, and adults Mark Hazekamp, *The Netherlands* 

10:50 - 11:10 • LECTURE 14

Percutaneous options for treating tricuspid valve regurgitation in adolescence/ adulthood Massimo Chessa, Italy



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### 11:10 - 11:30 • LECTURE 15

**Surgical treatment of tricuspid valve in systemic position (ccTGA)** Osami Honjo, *Canada* 

#### 11:30 - 11:50 • LECTURE 16

Tricuspid valve surgery for conditions other than congenital (endocarditis, management of tricuspid regurgitation during pulmonary valve replacement, etc.) Kirsten Finucane, New Zealand (WSPCHS)

11:50 - 12:00 • DISCUSSION

#### 12:00 - 12:30

9<sup>th</sup> Stella & Richard Van Praagh Lecture

Introduced by: Tomasz Mroczek, *Poland* Speaker: Mark Hazekamp, *The Netherlands* 

#### 12:30 - 13:00

ECHSA Presidential Address Introduced by: George Sarris, *Greece* Speaker: Vladimiro Vida, *Italy* 

13:00 - 14:00 • LUNCH

### 13:00 - 13:30 • INDUSTRY SPONSORED SESSION

### Johnson&Johnson

Pulmonary arterial hypertension in CHD patients: is it always a cardiac surgeon's mistake? Michael A. Gatzoulis, *UK* 

### 13:30 - 14:00 - INDUSTRY SPONSORED SESSION

### 🔆 bioporto

DIAGNOSTICS

Clinical Implications for Neutrophil gelatinase-associated Lipocalin (NGAL) Guided Risk Assessment Christian Albert

### 13:30 - 14:30 • SURGICAL VIDEO PRESENTATION DISCUSSION AREA

Moderators: David Blitzer, USA - Mo Xuming, China

- 1. Repair of double-chambered left ventricle in the presence of parachute mitral valve papillary muscle attached to the interventricular septum Kiraly Laszlo Kiraly
- 2. Open Hybrid Tricuspid Valve Replacement in a Patient with Pulmonary Atresia, Intact Ventricular Septum, Severely Deficient Tricuspid Valve and Atrial Septal Defect Podgorsek Blaz
- 3. Resection of a Giant Main Pulmonary Artery Aneurysm after Tetralogy of Fallot Repair Griesbaber Philippo

Grieshaber Philippe

4. Surgical tips and tricks in repair of AV Canal Defect with tetralogy of Fallot

Kumar Gaurav

- 5. Staged Therapy for Critical Aortic Coarctation and Arch Hypoplasia with Cardiogenic Shock Grieshaber Philippe
- 6. Pulmonary valve preservation in Tetralogy of Fallot. Transannular patch augmentation of the RVOT and cusps enlargement with heterologous pericardial material.

Galliotto Francesco



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### 14:00 - 14:20 • SPECIAL LECTURE 3

Introduced by: Alvise Guariento, *Italy* **Morphology of the AV canal (balanced and unbalanced forms)** Shi Joon Yoo, *Canada* 

### SESSION 9 • 14:20 - 16:00 • VALVAR RECONSTRUCTION IN BALANCED AND UNBALANCED AV CANAL

**Moderators:** David Overman, USA - Susan Vosloo, South Africa - Bart Meyns, Belgium

#### 14:20 - 14:40 • LECTURE 17

Echocardiography and advanced imaging of the Common Atrioventricular Valve (including unbalanced forms) Giovanni Di Salvo, *Italy* 

**14:40 - 15:00 • LECTURE 18 The difficult LAVV in AV canal: Management Options** Yishay Orr, USA (WSPCHS)

15:00 - 15:20 • LECTURE 19 Late AVV outcomes and management following AVSD repair: Re-repair or replacement Martin Kostelka, *Germany (ECHSA)* 

**15:20 - 15:40 • LECTURE 20 Surgical treatment of unbalanced forms of AV canal: Staging the unbalanced AV canal to biventricular repair** Nicholas D. Anderson, USA (CHSS)

15:40 - 16:00 • DISCUSSION

16:00 - 16:30 • COFFEE BREAK

### 16:00 - 16:30 • WALKING POSTER ABSTRACT SESSION 4

### 16:00 - 16:30 • ORAL POSTER PRESENTATION ABSTRACT SESSION 4 DISCUSSION AREA

Moderators: Attilio Lotto, UK - Elephterios Protopapas, Greece

- Heart Transplantation In Univentricular Physiology Patients: A Pandora's Box Bergonzoni Emma
- 2. Mid-Term Results Of A New Surgical Technique For Aortic Regurgitation In Children

Lugones Ignacio

3. Left Anterior Mini-Thoracotomy: An Alternative Approach For Pulmonary Valve Replacement After Surgically Corrected Tetralogy Of Fallot

Ho Yan Le

- 4. ALCAPA Correction With A Pedicled Pulmonary Tube Graft: Long Term Evaluation By Computed Tomography. Vicente Walter
- 5. Tricuspid Valve Surgery In Patients With Systemic Right Ventricle: A Single-Center Experience Bergonzoni Emma



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### SESSION 10 • 16:30 - 17:45 • ORAL PRESENTATIONS 3

Moderators: Papa Salmane Ba, Senegal - Stojan Lazarov, Bulgaria

1. Twenty-Year Experience Of Ventricular Assist Devices (Vads) For Pediatric And Congenital Heart Disease Patients: A Report From The European Congenital Heart Surgeons Association (ECHSA) Congenital Car

Protopapas Eleftherios

- 2. The Impact Of Tricuspid Regurgitation On The Timing Of Pulmonary Valve Replacement In Adult Patients After Tetralogy Of Fallot Repair Brancaccio Gianluca
- 3. Pregraduate Surgical Training Using Three-Dimensional Printed Models Of Hearts With Congenital Heart Defects Versus Pig Hearts - A Prospective Controlled Study Grieshaber philippe
- 4. Perfusion Techniques Results For The Repair Of Interrupted Aortic Arch With Or Without Associated Anomalies. Sandoval Nestor
- 5. Is Bi-Ventricular Repair Suitable For All Symptomatic Neonates And Young Infants With Ebstein Anomaly? Knott-Craig Christopher John
- 6. Impact Of Infundibular Stenosis On The Growth Of Pulmonary Valve Annulus In Patients With Tetralogy Of Fallot Kido Takashi

### SESSION 11 • 17:45 - 19:00 • ORAL PRESENTATIONS 4

Moderators: David Hoganson, USA

- 1. A Hybrid Palliation Strategy For HLHS Conveys Excellent Operative And One-Year Survival But The Need For Left Pulmonary Artery Stenting Is A Significant Issue And Should Guide Usage Worrall Neil
- 2. Outcomes Of Surgical Resection Of Pediatric Cardiac Fibromas In The Modern Era Zhang Wen
- 3. Risk Factors For Aneurysm Development And Determinants Of Long-Term Prognosis In Kawasaki Disease Bonanni Francesca
- 4. Repair Of Complete Atrio-Ventricular Septal Defect With Mirror-Image Arrangement Kawada Masaaki
- 5. Perventricular Device Closure Of Ventricular Septal Defects In Patients Less Than 1 Year Of Age: A Word Of Caution Voitov Alexey
- 6. Nutritional Status, Cardio-Pulmonary Bypass And Ventilatory Support Of Children In Low-And Middle-Income Countries Cardarelli Marcelo Gabriel



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

#### 8:00 - 8:20 • SPECIAL LECTURE 4

**Introduced by:** Alvise Guariento, *Italy* **The morphology of AV valves in functionally univentricular hearts** Stephen P. Sanders, *USA* 

### SESSION 12 • 8:20 - 9:50 • SURGICAL MANAGEMENT OF ATRIOVENTRICULAR VALVES IN FUNCTIONALLY UNIVENTRICULAR HEARTS

Moderators: Ali Dodge-Khatami, Germany - Leonardo Miana, Brazil

#### 8:20 - 8:40 • LECTURE 21

Echocardiography and Advanced Imaging of the Atrioventricular Valve in Functionally Univentricular Hearts Gabriele Rinelli, *Italy (SICP)* 

#### 8:40 - 9:00 • LECTURE 22

**Common AV valve regurgitation: repair techniques and surgical results** Kisaburo Sakamoto, *Japan (WSPCHS)* 

9:00 - 9:20 • LECTURE 23 Management of Tricuspid Valvar Regurgitation in the neonate and infant with hypoplastic left heart syndrome Pedro J. Del Nido, USA

9:20 - 9:40 • LECTURE 24 Management of atrioventricular valvar regurgitation after the Fontan Operation Edward Buratto, USA

9:40 - 9:50 • DISCUSSION

9:50 - 10:20 • COFFEE BREAK

### 9:50 - 10:20 • WALKING POSTER ABSTRACT SESSION 5

#### 9:50 - 10:20 • ORAL POSTER PRESENTATION ABSTRACT SESSION 5 DISCUSSION AREA

Moderators: Haibo Zhang, China - Ignacio Lugones, Agentina

- 1. Right Vertical Axillary Incision For Ventricular Septal Defect Repair: A Propensity Score Matched Study Lijuan Liu
- 2. Hemoadsorption Filtration During Neonatal Aortic Arch Repair Pace Napoleone Carlo
- 3. Complex Left Ventricular Recruiting Procedure And Biventricular Conversion In A Patient With Shone's Complex And Ventricular Septal Defect Blaz Podgorsek
- 4. Super Cone Operation For Ebstein's Anomaly: Integrated 360° Cone Repair With Bidirectional Glenn Mohanty Smruti Ranjan



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### SESSION 13 • 10:20 - 12:00 • SURGICAL MANAGEMENT OF FAILING AV VALVES AND FAILING VENTRICLES

Moderators: Michael Mitchell, USA - Antonio Amodeo, Italy

10:20 - 10:40 • LECTURE 25 The role of PAB in patients with dilated cardiomyopathy and MV regurgitation Dietmar Schranz, *Germany* 

**10:40 - 11:00 • LECTURE 26 VAD in Fontan patients** Sebastian Michel, *Germany* 

**11:00 - 11:20 • LECTURE 27 LVAD in HLHS patients as bridge to transplant** Mark Bleiweis, USA (CHSS)

11:20 - 11:40 • LECTURE 28 HM III and other LVADs for congenital heart disease Peter Murin, *Germany (ECHSA)* 

11:40 - 12:00 • DISCUSSION

12:00 - 12:30

9<sup>th</sup> Aldo R. Castañeda Lecture: Treating Heart Valve Disease in the Young: Advances in technology Introduced by: David Overman, USA Speaker: Pedro J. Del Nido, USA

12:30 - 13:00 WSPCHS Presidential Address Introduction: Zohair Al-Halees, Riyadh, *Saudi Arabia* Speaker: James K. Kirklin, *USA* 

13:00 - 14:00 • LUNCH

### 13:30 - 14:00 INDUSTRY SPONSORED SESSION



Anticoagulation with Bivalirudin in VAD patients Ina Michel-Behnke, *Austria* 

13:30 - 14:30 • SURGICAL VIDEO PRESENTATION DISCUSSION AREA

Moderators: Emanuela Angeli, Italy - Anil Bhattarai, Nepal

- 1. Modified Takeuchi Repair For Anomalous Left Coronary Artery From The Pulmonary Artery In A Young Adult Tsvetomir Loukanov
- 2. Norwood Glenn After A First Stage Hybrid With Bovine Pericardial Patch Mendoza Crespo Sara Elena
- 3. Beating-Heart Systemic Tricuspid Valve Surgery And Vsd Repair 40 Years After Atrial Switch Procedure For D-Tga As Bridge To Transplant Hoxha Stiljan
- **4. Lugones Technique: A Surgical Approach For Scimitar Syndrome** Saxena Shivang
- 5. Warden Procedure For Partially Anomalous Pulmonary Venous Return Grieshaber Philippe
- 6. Ross-Konno Procedure For Left-Ventricular Outflow Tract Obstruction After Repair Of Interrupted Aortic Arch Tsvetomir Loukanov



FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### SESSION 14 • 14:00 - 15:10 • HUMANITARIAN MISSIONS

Moderators: Nestor Sandoval, Colombia - Jeffrey Jacobs, USA

14:00 - 14:15 • LECTURE 29

A European multicentre educational program Giovanni Stellin, Italy (ECHSA)

**14:15 - 14:30 • LECTURE 30 Long term impact of our cooperation model** Alessandro Frigiola, *Italy* 

14:30 - 14:45 • LECTURE 31 What we need in order to grow our programs and serve our patients Richard Jonas, USA (CHSS)

14:45 - 15:00 • LECTURE 32 The cooperation in Cameroon: pros and cons Charles Mvondo, *Cameroon* 

15:00 - 15:10 • DISCUSSION

15:10 - 15:25 World Database As A Mean To Collect Data In Low Resource Countries James St. Louis, USA

15:25 - 15:40 World University For Pediatric And Congenital Heart Surgery: A Global Education Tool Darshan Reddy, *South Africa (WSPCHS)* 

15:40 - 16:10 • COFFEE BREAK

### 15:40 - 16:10 • WALKING POSTER ABSTRACT SESSION 6

### 15:40 - 16:10 • ORAL POSTER PRESENTATION ABSTRACT SESSION 6 DISCUSSION AREA

Moderators: Attilio Lotto, UK - Pak Vitali, Italy

- 1. Is Right Axillary Thoracotomy Superior To Median Sternotomy For Repair Of Ventricular Septal Defects In Infants And Children? Said Sameh
- 2. Infantile Absent Right Pulmonary Artery, Surgical Management And Follow Up: Case Series Al-Lawati Ala
- 3. Improving Patient Care In The Prenatal Counseling Of Congenital Heart Disease Through A Multidisciplinary Approach: An Experience In Padua Guerra Maria Chiara
- 4. Exploring The Impact Of Different Unroofing Degrees: A Patient-Specific Scenario Anglese Serena



### FATE OF THE ATRIOVENTRICULAR VALVES: FROM THE FETUS TO THE ADULT

### SESSION 15 • 16:10 - 17:30 • ORAL PRESENTATION 5

Moderators: Driss Boumzebra, Morocco - Ryan E. Accord, The Netherlands

1. Half-Turned Truncal Switch Versus Rastelli Operation For Children With Transposition Of The Great Arteries With Left Ventricular Outflow Obstruction

Ruzmetov Mark

- 2. Standardization And Outcomes In The Diagnosis And Surgical Treatment Of Patients With Anomalous Aortic Origin Of Coronary Arteries (Aaoca) Sandoval Nestor
- 3. An Important Element Of Cone Reconstruction For Ebstein's Anomaly Is Mitralization Of The Attachment Of The Chordal Apparatus Of The Tricuspid Valve.

Bolsunovskii Vladimir

- 4. Rastelli One Patch Technique For Repair Of Complete Atrioventricular Septal Defect: A Single Institutional Experience El Hasnaoui Zineb
- 5. Does Primary Sutureless Repair Improve The Surgical Results Of Aspleniasyndrome With Total Anomalous Pulmonary Venous Connection (Tapvc)? Sakurai Takahisa
- 6. Reoperations After Repair Of Atrioventricular Septal Defect Ho Yan Le

#### 17:30 - 18:00 RASTELLI LECTURE

Introduced by: Alessandro Giamberti, *Italy* Speaker: Antonella Rastelli, *Italy* 

**18:00 - 18:30** Farewell remarks

**18:30 - 19:30** Business Meeting ECHSA (By Invitation Only)

### ROOM ROSSA • 18:30 - 19:30

WSPCHS Members Meeting (By Invitation Only)



### ADULT PATIENTS WITH CONGENITAL HEART DISEASE (ACHD)

- WP:01 **PREGNANCY WITH EBSTEIN ANOMALY** Sergii Siromakha, Vasyl Lazoryshynets, Yuliia Davydova, Iryna Zinovchik
- WP:02 A RARE PRESENTATION OF PARTIAL AVSD WITH CORTRIATRIATUM SINISTER WITH RAGHIB SYNDROME Amitabh Satsangi
- WP:03 CLINICAL USEFULNESS OF WES SECONDARY FINDINGS IN A COHORT OF 100 ADULT PATIENTS WITH GENETIC SYNDROMES INVOLVING HEART

Micaglio Emanuele, Benedetti Sara, Villa Marco, D'Imperio Sara, Giamberti Alessandro, Chessa Massimo, Pappone Carlo

WP:04 FURTHER EVIDENCE OF THE LEUVEN KNOWLEDGE QUESTIONNAIRE FOR CONGENITAL HEART DISEASE (LKQCHD) IN THE ITALIAN POPULATION: A STUDY PROTOCOL

> Serena Flocco, Francesca Crò, Cristina Arrigoni, Gianluca Conte, Giovanni Zaffino, Simona DeVecchi, Giovanna Campioni, Massimo Chessa, Rosario Caruso, Arianna Magon

WP:05 QUALITY OF LIFE OF PATIENTS WITH RARE CONGENITAL HEART DISEASE

Maristella Lombardi, Giovanni Meliota, Silvana Catucci, Teodoro Pirolo, Elena Massari, Antonella Maiorano, Ugo Vairo

#### WP:06 THE SWORD THAT DOES NOT HURT

Marianna Laurito, Ashraf Nassar, Francesca Grossule, Maria Cristina Turina, Teresa Grimaldi, Silvia Copelli, Francesca Mantovani, Roberto Farì, Alessandro Navazio WP:07 THE RESULTS OF MITRAL VALVE REGURGITATION REPAIR IN ADULT PATIENTS WITH CONGENITAL HEART DEFECTS Dmitry Kovalevl, Michail Chiaureli, Timur Danilov, Victor Samsonov, Lyale Yanybaeva, Anton Minaev, Vera Dontsova, Sophia Tsoy, Olga Medvedeva, Vladimir Podzolkov

- WP:08 MANAGEMENT OF TRICUSPID VALVE REGURGITATION IN ACHD WITH SYSTEMIC RIGHT VENTRICLE - THIRTY-YEAR EXPERIENCE Stiljan Hoxha Hoxha, Jacopo Gardellini, Eleonora De Laurentis, Marco Parolo, Tiziano Menon, Matteo Ciuffreda, Giovanni Battist Luciani
- WP:09 THE SURGICAL OUTCOME OF ANOMALOUS ORIGIN OF THE LEFT CORONARY ARTERY FROM THE PULMONARY ARTERY Farooq Ganie Ganie, Masaratul Gani
- WP:10 **AORTO-PULMONARY IN ADULT PATIENT OPERATED WITH ECHOCARDIOGRAPHY ASSESSMENT. A CASE REPORT** *Agwar Fekede, Ganjula Sitota, Waktola Tolesa*

### INTERVENTIONAL CARDIOLOGY

WP:11 **PPVI IN CONGENITAL HEART DISEASE: PROGNOSTIC FACTORS** Giorgia Ruffolo, Susanna Breviario, Elena Gribaudo, Gaetana Ferraro, Giuseppe Antonio Mazza, Giuseppe Annoni

### ADVANCE CARDIAC IMAGING MODALITIES

WP:12 PERSISTENT LEFT SUPERIOR VENA CAVA WITHOUT RIGHT SUPERIOR VENA CAVA, A RARE PRESENTATION Jorge L. Cervantes-Salazar, Diego B. Ortega-Zhindón, Jose A. García-Montes, Hugo A. Argueta-Velásquez, Vicenzo Arenas-Fabbri, Juan Calderón-Colmenero



### WP:13 ANOMALIES OF THE ORIGIN OF CORONARY ARTERIES FROM THE AORTA: DIFFERENCES IN THE CLINICAL-INSTRUMENTAL PRESENTATION PROFILE IN A PEDIATRIC AND ADULT COHORT

Andrea D'Errico, Antonio Saracino, Martina Evangelista, Teresa Concetti, Arianna Gaspari, Andreea Alina Andronache, Luciane Piazza,

Alessandro Frigiola, Alessandro Giamberti, Mauro Lo Rito

### BASIC SCIENCE

WP:14 CHILDHOOD HEART DISEASE AND PARENTAL EMOTIONAL WELLBEING: A PREDICTIVE MODEL TO EXPLAIN THE PERCEPTION OF QUALITY OF LIFE IN CHILDREN AND ADOLESCENTS

> Antonella Silletti, Teresa Grimaldi Capitello, Cinzia Correale, Giulia Amodeo, Michela Balsamo, Leonardo Carlucci, Caterina Fiorilli

WP:15 IMPACT OF PULMONARY BLOOD FLOW AND CARDIOPULMONARY BYPASS ON LUNG INFLAMMATION AND PULMONARY SURFACTANT COMPOSITION IN PEDIATRIC PATIENTS WITH CONGENITAL HEART DISEASE

> Elena Scarparo, Massimo Padalino, Anna Sartori, Manuela Simonato, Lorenzo Gentile, Cristiana Carollo, Vladimiro Vida, Paola Cogo

#### WP:16 MOLECULAR FINDINGS IN A PATIENT WITH UHL ANOMALY: A RARE PATHOLOGY

José M. Rodríguez-Pérez, Nonanzit Pérez-Hernández, Juan Calderón-Colmenero, Diego B. Ortega-Zhindón, Alberto Aranda-Fraustro, Isela Juárez-Rojo, Germán Nolasco-Rosales, Alma D. Geniz-Mendoza, Yessica C Hernández-García, Jorge L. Cervantes-Salazar

- WP:17 URINARY EXTRACELLULAR VESICLES AND KLOTHO LEVELS AS EARLY MARKERS OF RENAL DYSFUNCTION IN FONTAN PATIENTS Marta Marcia, Luca Deorsola, Anna Maria Villar, Benedetta Bussolati, Cristina Grange, Licia Peruzzi, Carlo Pace Napoleone
- WP:18 IDENTIFICATION OF RISK FACTORS OF BRAIN INJURY IN INFANTS WITH CONGENITAL HEART DISEASES UNDERGOING CARDIAC SURGERY ON CARDIOPULMONARY BYPASS

Lorenzo Gentile, Anna Sartori, Stefano Sartori, Elisa Cainelli, Chiara Paolin, Massimo Padalino, Elena Scarparo, Cristina Carollo, Vladimiro Vida, Paola Cogo

WP:19 UNCOMMON VARIANT OF THE MOST COMMON CYANOTIC CONGENITAL HEART DISEASE: A CASE SERIES OF 3 PEDIATRIC PATIENTS WITH TETRALOGY OF FALLOT, ABSENT PULMONARY VALVE

Arlyn Cantillep

WP:20 CONGENITALLY CORRECTED TRANSPOSITION OF GREAT ARTERIES IN SITUS SOLITUS (S, L, L) IS ASSOCIATED WITH ZIC3 MUTATIONS Giulio Calcagni, Marcello Niceta, Marta Unolt, Marta Parrino, Anwar Baban, Paolo Versacci, Maria Cristina Digilio, Fabrizio Drago, Marco Tartaglia, Bruno Marino

### WP:21 CONGENITAL HEART DEFECT IN RARE GENETIC SYNDROMES DIAGNOSED BY NEXT GENERATION SEQUENCING

Giulio Calcagni, Maria Lisa Dentici, Lorenzo Sinibaldi, Anwar Baban, Monia Magliozzi, Paolo Versacci, Fabrizio Drago, Antonio Novelli, Bruno Marino, Maria Cristina Digilio

### BIG DATA, NEW TECHNOLOGY, ARTIFICIAL INTELLIGENCE

WP:22 TRAINING AND LEADERSHIP IN THE HEALTHCARE PROFESSIONS: DIGITAL TECHNOLOGIES AND PEDAGOGICAL INNOVATION Mirko Perfili, Danilo Montefoschi, Gianfranco Butera



### CARDIAC CATHETERIZATION

WP:23 **PDA STENTING IN DUCTAL-DEPENDENT PULMONARY CIRCULATION - FIRST STEP OF SURGERY** *Petya Parashkevo Parashkevova, Lyubomir Dimitrov, Stoyan Lazarov* 

### WP:24 "A BALLOON IN TIME" SAVES LIFE IN COARCTATION OF THE AORTA. A CASE REPORT ON GHANA'S FIRST BALLOON DILATATION IN AN INFANT

Alex Agyekum, Andrew Twum, Kwadwo Danso, Josephine Tanson, Nana -Akyaa Yao Cardiac Surgery

WP:25 LEFT VENTRICULAR ANEURYSM REPAIR 26 YEARS AFTER SURGERY FOR ANOMALOUS LEFT CORONARY ARTERY FROM THE PULMONARY ARTERY - A CASE REPORT AND BRIEF LITERATURE REVIEW

> Hong Jun Yongl, Peter Lang, Anupama Barua, John Dreisbach, Shabana Ali, Gruschen Veldtman, Mark Danton, Sukumaran Nair

WP:26 BILATERAL PULMONARY ARTERY BANDING PALLIATION OF COMMON ARTERIAL TRUNK IN A HIGH RISK, PREMATURE, VERY LOW BIRTHWEIGHT NEWBORN PRIOR TO COMPLETE REPAIR

Neil Worrall

WP:27 INTENSE INFLAMMATION AND CULTURE NEGATIVE ENDOCARDITIS OF AN INTRACARDIAC BOVINE PERICARDIAL PATCH USED DURING CAVC REPAIR ASSOCIATED WITH FIVE OPERATIONS BEFORE AGE TWO Neil Worrall WP:28 PULMONARY ROOT TRANSLOCATION AND SHUMAKER PROCEDURE FOR ANATOMICAL REPAIR OF CONGENITALLY CORRECTED TRANSPOSITION OF THE GREAT ARTERIES IN DEXTROCARDIA AND SITUS INVERSUS: A CASE REPORT Gaia Vigano, Vitali Pak, Vincenzo Poli, Leonardo Torracchi, Vera Cetera, Nadia Assanta, Giuseppe Santoro, Luigi Festa, Lamia Ait-Ali, Chiara Marrone

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Ivonne Pineda Rodriguez, Aura Maria Rivera, Albert Franz Guerrero, Julian Senosiain, Tomas Chalela

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Yessica Charytin Hernandez Garcia, Diego B. Ortega Zhindón, Juan Calderón-Colmenero, Jose A. García-Montes, Antonio Benita-Bordes, Hugo A. Argueta-Velásquez, Karla J. Escorcia-Murillo, Jorge L. Cervantes-Salazar



### WP:55 SAFE RESTERNOTOMIES WITHOUT PERIPHERAL FEMORAL CANNULATION IN CHILDREN UNDERGOING PEDIATRIC HEART SURGERY- A SINGLE CENTER EXPERIENCE

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> Juthamas Hannarong, Thaworn Subtaweesin, Teerapong Tocharoenchok, Somchai Sriyoschati, Punnarerk Thongcharoen, Kriangkrai Tantiwongkosri, Ekkarat Nitiyarom

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> Gianluca Castiello, Greta Ghizzardi, Veronica Calorenne, Alice Genova, Antonio Saracino, Giuseppe Caravella, Giuseppe Isgrò, Gianluca Conte, Arianna Magon, Rosario Caruso

- WP:58 A SINGLE CENTRE EXPERIENCE OF LATE PRESENTATIONS OF UNREPAIRED CYANOTIC CONGENITAL HEART DISEASE Patrick Elnazir, Sophia Khan, Salim Jivanji
- WP:59 THE OUTCOME FOLLOWING THE DETACHMENT OF THE TRICUSPID VALVE FOR VENTRICULAR SEPTAL DEFECTS CLOSURE

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> Chiara Di Padua, Thibault Schaeffer, Carolin Niedermaier, Jonas Palm, Paul Philipp Heinisch, Alfred Hager, Peter Ewert, Jürgen Hörer, Masamichi Ono

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Giulia Concas, Martina Evangelista, Paola Neroni, Antonio Saracino, Giulia Pasqualin, Alessandro Giamberti, Massimo Chessa

WP:62 STRIDOR AND RECURRENT RESPIRATORY INFECTIONS: A CASE OF CO-DOMINANT DOUBLE AORTIC ARCH

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Davide Ceruti, Martina Evangelista, Teresa Concetti, Luca Giugno, Giulia Pasqualin, Andreea Alina Andronache, Luciane Piazza, Alessandro Varrica, Alessandro Giamberti, Antonio Saracino

### WP:64 A CASE OF SUCCESS IN A PATIENT WITH ANEURYSMAL DILATATION OF THE AORTA AND SEVERE HEART FAILURE IN MARFAN SYNDROME

Claudia Gonzalez García, Andrea Gasca Sánchez, Luis Felipe Castillo Aguilar, Alejandra Guerrero Villalpando, Gabriela Pereira Lopez, Diana Paz Huox, Jorge Luis Cervantes Salazar

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- WP:68 IMPACT OF AFTERLOAD ON ECMO-PERFORMANCE IN A SIMULATED PULSATILE PEDIATRIC MOCK CIRCUIT Maris Bartkevics, Lorenzo Ferrari, Hansjoerg Jenni, Clarence Pingpoh, Matthias Siepe, Dominik Obrist, Alexander Kadner
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> Hugo Alberto Argueta Velasquez, Jorge L. Cervantes-Salazar, Diego B. Ortega-Zhindón, Vincenzo Arenas-Fabbri, Yessica C. Hernández-García, Cristian A. Castillo-López, Antonio Benita-Bordes

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> Arianna Gaspari, Mauro Lo Rito, Martina Evangelista, Teresa Concetti, Andrea D'Errico, Andreea Alina Andronache, Luciane Piazza, Alessandro Varrica, Alessandro Giamberti, Antonio Saracino

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### WP:83 A NOVEL VARIANT IN SLC4A3 GENE ASSOCIATED WITH FAMILIAL SHORT QT SYNDROME, SUDDEN DEATH AND EPILEPSY

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### WP:85 SYSTEMATIC RIGHT VENTRICULAR ELECTROPHYSIOLOGIC EVALUATION IN PATIENTS WITH REPAIRED TETRALOGY OF FALLOT BEFORE PULMONARY VALVE REPLACEMENT

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> Arianna Riva, Giada Castagna, Matteo Cassina, Vladimiro Vida, Paola Veronese

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> Caterina Cecilia Lerose, Anna Balducci, Marta Fiorentini, Ylenia Bartolacelli, Valentina Gesuete, Elena Contro, Antonella Perolo, Gianluigi Pilu, Gaetano Gargiulo

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> Francesco Galliotto, Paola Veronese, Alessia Cerutti, Filippo Zemin, Francesco Bertelli, Giovanni Di Salvo, Alvise Guariento, Vladimiro Vida

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Daniela Poli, Paolo Guccione, Rita Emanuela Calaciura, Placido Gitto, Ermanno Bellanti, Paola Francalanci, Rosanna Zanai, Enrico Iannace, Salvatore Agati, Lilia Oreto

- WP:95 A CASE REPORT ON A 6-YEAR OLD CHILD WITH COMPLETE SHONE COMPLEX PRESENTING WITH LEFT-SIDED HEART FAILURE Francis Ed Gahuman
- WP:96 TWO FAILING HEARTS TO DO THE FUNCTION OF ONE? UTILIZING HEARTS WITH ISOLATED POOR RIGHT OR LEFT VENTRICULAR FUNCTION FROM DONORS FOR HETEROTOPIC CARDIAC TRANSPLANTATION IN UNIVENTRICULAR PATIENTS

Ayush Balaji, Rishab Makam, Natasha Bocchetta, Mahmoud Loubani, Ignacio Lugones



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#### WP:97 INTERVENTIONAL LYMPHATIC TREATMENT FOR PLASTIC BRONCHITIS IN FAILING FONTAN CHILDREN Micol Rebonato, Mara Pilati, Enrico Piccinelli, Aurelio Secinaro, Gianfranco Butera

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### WP:99 CYANOSIS DUE TO ISOLATED RIGHT VENTRICULAR HYPOPLASIA TREATED WITH PERCUTANEOUS CLOSURE OF ATRIAL SEPTAL DEFECT

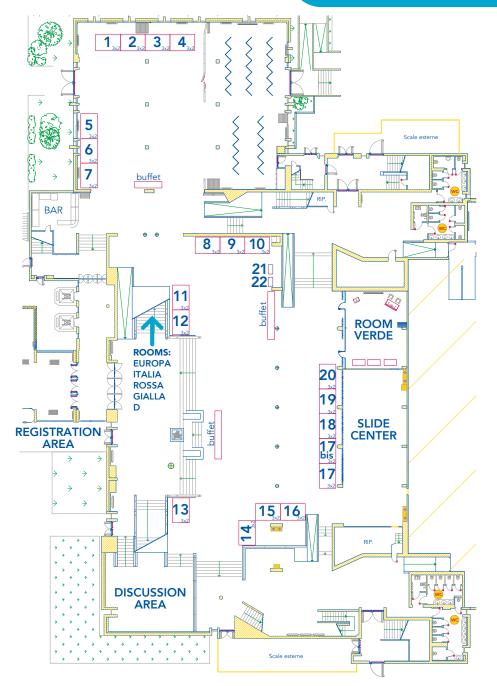
Davide Ceruti, Martina Evangelista, Teresa Concetti, Luca Giugno, Giulia Pasqualin, Andreea Alina Andronache, Alessandro Varrica, Alessandro Giamberti, Claudia Codazzi, Antonio Saracino

### WP:100 THE YIN AND YANG OF SEGMENTAL ANALYSIS: WHEN HETEROTAXY SYNDROME DOESN'T FIT THE BOX

Alessandro Felici, Michele Lioncino, Claudia Di Pangrazio, Giovanni Antonelli, Giulio Calcagni, Aurelio Secinaro, Adriano Carotti, Bruno Marino, Fabrizio Drago, Gabriele Rinelli



# EXHIBITION



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# **GENERAL INFORMATION**

### **CONGRESS VENUE**

Bologna Congress Center Piazza Costituzione 4/a - 40128 Bologna, Italy

### WEBSITE

The World Summit for Pediatric and Congenital Heart Surgery official website is https://www.worldsummitpchs2024.org

### LANGUAGE

English is the official language. Simultaneous translations will not be provided.

### **REGISTRATION DESK HOURS**

 The Registration Desk will be opened as follows:

 Wednesday 5:
 08.00 - 19.00

 Thursday 6:
 07.30 - 19.00

 Friday 7:
 07.30 - 19.00

 Saturday 8:
 07.30 - 18.30

### **EXHIBITION OPENING HOURS**

 The Exhibition will be opened as follows:

 Wednesday 5:
 13.00 - 19.00

 Thursday 6:
 08.00 - 19.00

 Friday 7:
 08.00 - 19.00

 Saturday 8:
 08.00 - 18.00

### **CONGRESS NAME BADGE**

Upon registration you will receive your name badge. You are kindly requested to wear your badge during all sessions and events.

### **CERTIFICATES OF ATTENDANCE**

Certificates of attendance will be sent by email after the meeting to all the registered participants that will attend the scientific sessions.

### **INTERNET ACCESS WI-FI**

Internet access Wi-Fi is available for congress participants throughout the public areas. In order to log in please use the following username and password: Username: **WSPCHS2024** Password: **bologna2024**!

### BREAKS

Lunch and refreshment breaks are included in the delegate fee and will be available in the exhibition area at time indicated in the program.

### **CLOAKROOM**

A cloakroom is available for participants at the Congress center entrance, close to the registration desks. The service is free.

### **SLIDE CENTER**

If you are speaking at the meeting, plan time to visit the Slide center (Speakers preview Room) to review your presentation. This space will have an audio-visual tech on site.

The Speaker Preview Room will be located in the exhibition area.

This space is open during the following hours for speakers use:

Wednesday 5: 08.00 - 18.30

Thursday 6:	07.30 - 18.30
Friday 7:	07.30 - 18.30

Saturday 8: 07.30 - 18.30

PowerPoint projection is available in all meeting rooms. For technical reasons speakers are not allowed to make presentations with their own laptops in the meeting rooms but must load their presentation in the Slide Center.

### **MOBILE PHONES**

Please do not forget to turn your mobile phones to silent mode during sessions.



# **GENERAL INFORMATION**

### NON-SMOKING POLICY

The World Summit PCHS 2024 Congress is a Non-Smoking event. Delegates are reminded that smoking in enclosed spaces is illegal in Italy.

### LIABILITY AND INSURANCE

The Congress Secretariat and Organizers cannot accept liability for personal accidents or loss of or damage to private property of participants.

Participants are advised to take out their own personal travel and health insurance for their trip.

### SAFETY AND SECURITY

Please do not leave bags or suitcases unattended at any time, whether inside or outside the session halls.

### **FIRST AID**

Should you require first aid assistance, please contact the registration desk or any uniformed member of the meeting staff.

### **CURRENCY**

#### Euro (EUR)

All major credit cards (Visa, MasterCard, American Express) are accepted in most of the restaurants, shops etc.

### ELECTRICITY

The electric current supplied is 220 V. Round, two-pin plug points are available, as elsewhere in Europe.

In case you have any devices from the USA or UK, please remember to bring a transformer/adapter.

### BANKING

Most banks open between 08:30 and 13:30 and 14:45 to 15:45 Monday to Friday. They are closed on weekends and public holidays and most of them have a cash dispenser and a currency exchange service.

### TRANSPORTATION

Bus lines 28, 35, 38, 39 to/from the city center and the railway station.

Taxis: Taxis in Bologna can be ordered by phone:

- +39 051 4590
- +39 051 0909
- +39 051 372727

or found at the official taxi stands. You cannot stop a taxi on the road.

### **USEFUL TELEPHONE NUMBERS**

- Medical emergency: 118
- Fire emergency: **115**
- Police: **113**
- Bologna airport information: +39 051 647 9615
- For international calls from Italy: **00 + country code + number**
- For international calls to Italy: +39 + city code + number



ACKNOWLEDGMENTS

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### **Congress Secretariat**

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