



| Thursday 23 May 2019 |  |  |  |  |
|----------------------|--|--|--|--|
|                      | 0730-0930  | 1000-1200  | 1315-1515  | 1545-1745  |
| Mt. Etna 250         | Transposition of the Great Arteries: Part 1                | Transposition of the Great Arteries: Part 2  | Featured Lectures in Congenital Cardiac Surgery              | State of the Art: Assessing The Myocardium and Ventricular Function    |
| Mt. Stromboli 100    | Coronary Artery Abnormalities in Children and Young Adults | Management of Postoperative Low Cardiac Output Syndrome In the Neonate and Infant      | Evaluation of Arrhythmias In Infants, Children and Teenagers | Knowledge Generation in Cardiac Critical Care and Cardiac Surgery      |
| Orange 50            | Basic and Translational Science in CHD                     | State of the Art: Fetal Cardiology   | GUCH: What Of The Senning and Mustard Patients?              | Challenging Cases for the Cardiac Surgery Professors                   |
| Lemon 50             |  | Thrombi, Bleeding and New Strategies for Anticoagulation in the Operating Room and ICU | Nutrition in the Cardiac Neonate                             | Pulmonary Hypertension in the Neonate With and Without Cardiac Disease |
| Priddy Pear 50       |  | Channelopathies and Familial Arrhythmias   | Device Closure of Septal Defects                             | Syncope and Sudden Cardiac Death in Children and Young Adults          |

| Friday 24 May 2019 |   |  |  |   |
|--------------------|---|--|--|---|
|                    | 0730-0930   | 1000-1200  | 1315-1515  | 1545-1745   |
| Mt. Etna 250       | State of the Art: Imaging Part 1  | State of the Art : Heart Failure and Transplantation                 | Improving Operative and Post-Operative Outcomes Using Collaboration and Quality Improvement Strategies | Neurodevelopmental Outcomes in Children with CHD: Etiology and Strategies for Improvement |
| Mt. Stromboli 100  | Different Perspectives on the Timing and Fenestration of the Fontan Procedure | Infection, Vaccines and Antibiotics in Children with Cardiac Disease | Management of the PDA in the Premature Neonate   | Blalock-Taussig-Thomas Shunts: Problems and Solutions                                     |
| Orange 50          | Principles of Inpatient Cardiac Nursing (Part 1)                              | Principles of Inpatient Cardiac Nursing (Part 2)                     | State of the Art: Electrophysiology  | Cardiopulmonary Bypass: An International Perspective                                      |
| Lemon 50           | Ethical Problems in Intensive Care  | Invasive Monitoring  | The Changing Landscape of Adults with CHD  |   |

| Saturday 25 May 2019 |   |  |   |
|----------------------|---|--|---|
|                      | 0745-0945   | 1015-1200  | 1300-1445   |
| Mt. Etna 250         | Tetralogy of Fallot: Early Management and Late Results  | Functionally Univentricular Heart: New Concepts and Practices in the Fetus, Infant and Child           | Functionally Univentricular Heart: Beyond Childhood           |
| Mt. Stromboli 100    | Cardiopulmonary Interactions and Inotropic Support in the Neonate and Infant With and Without Cardiac Disease | State of the Art: Imaging Part 2   | State of the Art: Aortic Valve Surgery                        |
| Orange 50            | Echocardiography After Congenital Cardiac Surgery: Important Principles and Techniques                        | Cardiac and Non-Cardiac Manifestations of Genetic Syndromes Associated with Congenital Cardiac Disease | ICU Care, Catheter and Surgical Interventions While on ECMO   |
| Lemon 50             | New Challenges and Solutions in Cardiac Critical Care   | Bleeding and Blood Conservation Strategies   | Genetics, Environment and New Insights In Cardiac Development |

| Sunday 26 May 2019 |   |
|--------------------|---|
|                    | 0830-1100   |
| Mt. Etna 250       | State of the Art: Mechanical Circulatory Support                                    |
| Mt. Stromboli 100  | Featured Lectures in Cardiac Catheterization  |
| Orange 50          | Early Management of the Neonate and Infant with Critical Congenital Cardiac Disease |
| Lemon 50           | Evaluation and Treatment of Tricuspid Valve Disease                                 |

Thursday 7:30 – 9:30

### **Transposition of the Great Arteries: Part I**

*Moderators: Luciano Pasquini MD; Lorenzo Galletti MD*

Room: Mt. Etna (250)

- Morphology – Robert H. Anderson MD
- ICU Before Surgery – Gil Wernovsky MD
- The Gold Standard: Arterial Switch Operation in the Neonate – Olivier Raisky MD
- Bedside Preparation For an Arterial Switch Patient – Stephen Trice RN
- The Expected Course and ICU Care After An Arterial Switch Operation – Joshua Salvin MD, MPH
- Panel Discussion

### **Coronary Artery Abnormalities in Children**

*Moderators: Maria Giulia Gagliardi MD; Vincenzo Duca MD*

Room: Mt. Stromboli (100)

- ALCAPA: Diagnosis and Treatment - Laura Olivieri MD and Tom Karl MD
- Anomalous Aortic Origin of the Coronary Arteries: Diagnosis and Treatment - Laura Olivieri MD and James Tweddell MD
- Kawasaki Disease: Update for 2019 – Andrea de Zorzi, MD
- Panel Discussion

### **Basic and Translational Science in Congenital Cardiac Disease**

*Moderators: Martino Ruggieri MD, Maria Pia Calabro' MD*

Room: Orange (50)

- Microdeletion Related to CHD - Sebastiano Bianca, MD
- Molecular Mechanism in CHD and Genetic Syndrome - Anwar Baban, MD
- Genetics and Conotruncal Lesions – Bruno Marino MD
- Genetic Testing in Cardiomyopathy – Shri Deshpande MD
- Panel Discussion

Thursday 10:00-12:00

### **Transposition of the Great Arteries: Part 2**

*Moderators: Antonio Amodeo MD; Franco De Luca MD*

Room: Mt. Etna (250)

- The Fate of the Neo-Aortic Root – Roberto Formigari, MD
- Coronary Artery Evaluation and Perfusion MRI – Aurelio Secinaro, MD
- Reoperations After the Arterial Switch – Gaetano D. Gargiulo MD
- Most Importantly, How are Adults with an Arterial Switch Doing? - Philip Moons RN, PhD
- Panel Discussion

### **Management of Low Cardiac Output Syndrome in the Neonate and Infant**

*Moderators: Simone Reali MD; Zaccaria Ricci MD and Joshua Salvin MD, MPH*

Room: Mt. Stromboli (100)

- Validation of Non-Invasive Measurement of Cardiac Output – Christopher Tirota MD
- What is the Role of “Elective” Delayed Sternal Closure? – James S. Tweddell MD
- What is the Role of the Ventilator? – Darren Klugman MD, MPH
- What is the Role of “Medical Management” – Rosanna Zanai MD
- What is the Role of an Intentional Right to Left Shunt? – Shunji Sano MD

### **State of the Art: Fetal Cardiology**

*Moderators: Pietro Bagolan MD, Alessandra Toscano, MD*

Room: Orange (50)

- What in Utero and What After Birth - Placido Gitto MD
- Evolution of Fetal Heart Function in Congenital Heart Disease – Lisa Hornberger, MD
- Fetal Diagnosis of Complete Vascular Ring – Luciano Pasquini, MD
- “Exit-to-ECMO”: Indications, Techniques and Results– Francis Fynn-Thompson, MD
- In-Utero Listing for Heart Transplantation: Fact or Fantasy? – Shri Deshpande, MD
- Panel discussion

### **Thrombi, Bleeding and New Strategies for Anticoagulation in the Operating Room and ICU**

*Moderators: Molly Oldeen CCP and Molly Dreher CCP*

Room: Lemon (50)

- How to Monitor Anticoagulation in the Cardiac ICU: From Veins to VADs – Jason Patregnani, MD
- Thrombotic and Hemorrhagic Complications on MCS: Therapeutic Strategies - Chiara Giorni, MD
- The Role of von Willebrand factor/factor VIII Concentrate Supplementation in CHD Surgery - Marco Ranucci MD
- Rotem: The Clinical Experience - **TBD**
- A Prospective Trial of Human Fibrinogen Concentrate During Cardiac Surgery – Christopher Tirota, MD
- Panel Discussion

### **Channelopathies and Familial Arrhythmias – How To...**

*Moderators: Valeria Calvi, MD; Ludovico Vasquez, MD*

Room: Prickly Pear (50)

- Interpret Genetic Testing Results and Ignore the VUS? – J. Philip Saul MD
- Treat Pediatric Brugada? – Mitchell Cohen MD
- Manage Beta-Blocker Resistant CPVT? – Massimo Silvetti MD
- Manage Beta-Blocker Resistant LQT? – Alfredo di Pino MD
- Panel Discussion

Thursday 1315 - 1515

### Featured Lectures in Congenital Cardiac Surgery

*Moderators: James Tweddell MD and Sergio Filippelli MD*

Room: Mt. Etna (250)

- Very Early Neonatal Surgery Using Autologous Umbilical Cord Blood – Illya Yemets, MD
- Fluid Dynamics in Complex Congenital Cardiac Surgery – Antonio Amodeo, MD
- Hybrid Pediatric Cardiac Surgery, Davide Calvaruso, MD.
- How to Get a Manuscript Accepted to EACTS – Tom R. Karl, MD
- Predictors of 90 Day Mortality – Shunji Sano, MD

### Evaluation of Arrhythmias in Neonates, Children and Teenagers

*Moderators: Elio Caruso MD; Pietro Sciacca, MD*

Room: Mt. Stromboli (100)

- Neonatal Arrhythmias: Which Ones are Concerning? – Lilia Oreto, MD
- Ambulatory Monitoring: Holters, ILRs, Apple Watch – Massimo Silveti, MD
- My Approach to the Child with Asymptomatic WPW – Alfredo Di Pino, MD
- Frequent PVCs in Healthy Children: When to Worry? – Mitchell Cohen, MD
- EKG Screening My Opinion Moving Forward – J. Philip Saul, MD
- Panel Discussion

### What of the Senning and Mustard Patients?

*Moderators: Salvatore Giannico MD, TBD*

Room: Orange (50)

- Surgical Management - Alessandro Giamberti, MD
- Exercise – Margherita Ministeri, MD
- Can We Predict Sudden Cardiac Death: Ablation? Medications? ICD? – TBD
- Quality of Life – Philip Moons, PhD
- Panel Discussion

### Nutrition in the Cardiac Neonate

*Moderators: Giorgio Calabrese MD and Claudio Romano MD*

Room: Lemon (50)

- What is the Best Nutrition for a Cardiac Neonate - Giovanni Corsello MD
- Necrotizing Enterocolitis: Risk Factors – Irma Capolupo MD
- Neonatal Parental Nutrition for Newborns with Congenital Cardiac Disease – Mario Giuffrè MD
- Nutrition in Adolescents with Congenital Cardiac Disease – Cinzia Calabrese MD

### Device Closure of Septal Defects

*Moderators: Rita Calaciura, MD; Franco De Luca, MD*

Room: Prickly Pear (50)

- Interatrial Septal Defects in Adults: A Joint Venture - Michele Saitta, MD
- Opening (not closing) an ASD with a Dedicated Device: The Rationale of the AFR device – Nikolaus Haas MD
- Criteria Necessary for Device Closure of a Ventricular Septal Defect: Morphologic Review – Robert Anderson, MD
- Controversies in Percutaneous Closure of Septal Defects: Should I Stay or Should I Go? – Roberto Formigari MD
- Panel Discussion

Thursday 1545 - 1745

### **State of the Art: Assessing the Myocardium**

*Moderators: Antonia Silvia MD, Lilia Oreto MD*

Room: Mt. Etna (250)

- Assessing Cardiac Output After Neonatal Surgery – Roberta Iacobelli MD
- MRI Diagnosis of Myocarditis – Laura Olivieri, MD
- Evaluation of the Fetal Myocardium – Lisa Hornberger, MD
- Left Ventricular Mass Indexing: Marcello Chinali, MD
- Panel Discussion

### **Knowledge Generation in Cardiac Critical Care and Cardiac Surgery**

*Moderators: Luca Di Chiara, MD; Christopher Tirota, MD*

Room: Mt. Stromboli (100)

- The PRIMACORP Trial: 15 years later – Gil Wernovsky, MD
- Randomized Trial of Milrinone vs Nesiritide in the Fontan Population – Joshua Salvin, MD, MPH
- What Have Been the Most Important Findings in The SVR Trial? – James S. Tweddell, MD
- Development of Perfusion Standards and a “Body of Knowledge” – Molly Oldeen, CCP
- The Power of Databases and Collaboration – Darren Klugman MD, MPH

### **Challenging Cases for the Cardiac Surgery Professors**

*Moderators: Tom Karl MD and Salvatore Agati MD*

Room: Orange (50)

- Antonio Amodeo, MD
- Davide Calvaruso, MD
- Francis Fynn-Thompson, MD
- Gaetano Gargiulo, MD
- Lorenzo Galletti, MD
- Massimo Massetti, MD
- Olivier Raisky, MD
- Shunji Sano, MD
- Illya Yemets, MD

### **Pulmonary Hypertension in the Neonate With and Without Cardiac Disease**

*Moderators: Vincenzo Di Benedetto MD, Irma Capolupo MD*

Room: Lemon (50)

- Pulmonary Hypertension in Congenital Cardiac Disease - Alessandra Toscano, MD
- Pulmonary Hypertension in Congenital Diaphragmatic Hernia – Neil Patel MD/Claudia Massolo MD
- Pulmonary Hypertension: Medical Management– Iuri Corsini MD
- Management and Ventilatory Strategies in Pulmonary Hypertension – Maria Luisa Ventura MD
- Management of Pulmonary Vein Stenosis – Viviane Nasr, MD

### **Syncope and Sudden Cardiac Death in Children and Young Adults**

*Moderators: J. Philip Saul MD and Giovanni Licciardello MD*

Room: Prickly Pear (50)

- Red Flags that Worry Even an Electrophysiologist! – Mitchell Cohen MD
- EKG findings that Should Not Be Missed – Lilia Oreto MD
- ICDs and Cardiomyopathies: Are We Choosing the Right Patients? - Massimo Silvetti MD
- What is the Role of Imaging? – Cristina Inserra MD
- Panel Discussion

Friday 0730 - 0930

### **State of the Art: Cardiac Imaging Part 1**

*Moderators: Placido Romeo MD; Marcello Chinali MD*

Room: Mt. Etna (250)

- Cardiac Function of the Preterm Infant – A Long-Term Problem? - Lisa Hornberger, MD
- Understanding the Right Ventricle in Congenital Heart Disease – Laura Olivieri, MD
- MRI-Augmented Exercise Testing – Vivek Muthurangu, MD
- 4D Flow MRI in Congenital Heart Disease – Francesca Raimondi, MD
- Catheter, MRI and CT Imaging in Newborns with Pulmonary Atresia with Ventricular Septal Defect and Aortopulmonary Collaterals: Quantifying the Risks of Radiation Dose and Anesthetic Time – David Lloyd, MD

### **Different Perspectives on the Timing and Fenestration of the Fontan Procedure**

*Moderators: Darren Klugman MD, MPH and Illya Yemets, MD*

Room: Mt. Stromboli (100)

#### ***Debate: The "Fenestrated Fontan Operation"***

- Surgical Perspective: Fenestration Should Be Used Very Selectively – Tom Karl, MD
  - ICU Perspective: A Fenestration in the Fontan Operation is Beneficial in Nearly Every Patient – Gil Wernovsky, MD
- Open Discussion*

#### **Timing of the Fontan Operation**

- Timing: Surgical Perspective – Tom Karl, MD
  - Timing: Medical Perspective – Andrea de Zorzi, MD
- Open Discussion*

### **Principles of Inpatient Cardiac Nursing Part I**

*Moderators: A. Portanova RN, Melissa Jones, RN, MSN*

Room: Orange (50)

- Overview of Invasive and non-Invasive Hemodynamic Monitoring – Annette Imprescia, RN, CCRN
- Vasoactive Management in the Intensive Care Unit – Stephen Trice, RN
- Cardiopulmonary Interactions – Melissa Jones, RN, MSN
- Interpretation of Arterial Blood Gases, Stephen Trice, RN
- Synthesizing Clinical Information Through Case Based Discussions - Faculty

### **Ethical Problems in Intensive Care**

*Moderators: Pietro Bagolan MD, Massimo Tirantello MD*

Room: Orange (50)

- Informed Consent in the Intensive Care Unit – Caterina Offidani MD
- Palliative Care - Don Luigi Zuccaro MD
- The Decision to Withhold or Withdraw Life Sustaining Interventions: When? – Maurizio Faggioni MD
- Right to Health and Quality of Life – Giulia Amerio, MD
- Panel Discussion

Friday 1000 - 1200

### **State of the Art: Heart Failure and Transplantation**

*Moderators: Francesco Parisi MD; Massimo Massetti, MD*

Room: Mt. Etna (250)

- Epidemiology and New Medical Strategies – Daniela Poli, MD
- Destination Therapy in Duchenne Patients: When and Why – Rachele Adorisio MD
- ABO Incompatible Organs and Other New Surgical Strategies – Antonio Amodeo, MD
- Mechanical Circulatory Support as a Bridge to Transplantation – Francis Fynn-Thompson, MD
- Immediate Post-Transplant Management – Shri Deshpande, MD
- Panel Discussion

### **Infection, Vaccines and Antibiotics in Children With Cardiac Disease**

*Moderators: Ignazio Barberi MD, Mary Betta MD*

Room: Mt. Stromboli (100)

- Vaccines in children with CHD – Alberto Villani MD
- Role of Palivizumab in CHD – Andrea Dotta MD
- Cardiac Involvement in Neonatal Infections – Lidia Decembrino MD
- Invasive Infections in the Newborn: Epidemiology and Antimicrobial Stewardship – Maria Paola Ronchetti MD
- Rheumatic disease: What the Pediatrician Needs to Know – Agata Vitale MD
- Psychological Sequelae After Infective Endocarditis – Philip Moons, PhD

### **Principles of Inpatient Cardiac Nursing Part 2**

*Moderators: Stephen Trice RN and M. Roberti RN*

Room: Orange (50)

- Implications of Parental Stress – What Can We Do About It? - C. Fosco RN, N. Counsellor, RN
- Newborn Individualized Developmental Care and Assessment Program (NIDCAP) – A. Portanova, RN
- Implementation of Individualized Family-Centered Developmental Care in a Cardiac ICU – Melissa Jones, MSN
- Case Studies and Simulation: Supporting Families and Communicating Effectively Within the Team – C. Fosco RN, N. Counsellor RN

### **Invasive Monitoring**

*Moderators: Fiammetta Piersigilli MD; Ivana Campanella MD*

Room: Lemon (50)

- How Do I Decide What Catheters to Place in the Operating Room? – Illya Yemets, MD
- Complications of Intracardiac Catheters – Davide Calvaruso MD
- Reducing The Frequency of Central Line Associated Blood Stream Infections – Darren Klugman, MD, MPH
- Epicardial Monitoring: On the Horizon? – Joshua Salvin, MD, MPH
- Panel discussion

Friday 1315 - 1515

## **Cardiac Surgery and Perioperative Care: Improving Outcomes Utilizing Collaboration and Quality Improvement Techniques**

*Moderators: Fiore Salvatore Iorio, MD; Rosanna Zanai, MD*

Room: Mt. Etna (250)

- NPC-QIC An Overview and a Surgical Initiative: Distributing Surgical Plans to the Rest of the Team – James Tweddell, MD
- Improving Handovers from the OR to the ICU with a Standardized Approach – Viviane Nasr, MD
- Reducing the Frequency of Cardiac Arrest Following High Risk Congenital Cardiac Surgery – Darren Klugman, MD, MPH
- The Importance of a Laryngo-Tracheal Team in Complex Cases -Sergio Bottero, MD
- Discussion

## **Management of the Patent Arterial Duct in the Premature Neonate**

*Moderators: Caterina Cacace MD; Marcello Vitaliti MD*

Room: Mt. Stromboli (100)

- Making the Diagnosis – Federico Schena MD
- Fluid Balance – Simona La Placa MD
- Short and Long-Term Complications of Surgical Ligation in the Premature Neonate – Katia Rossi MD
- Medical Management – Daniela Doni MD
- Is There a Role for NIRS Monitoring in Critical Newborns with a PDA? Rosa Maria Cerbo MD
- Catheter-Based Approach to the Premature Infant with a Patent Arterial Duct – Evan Zahn, MD

## **State of the Art: Electrophysiology**

*Moderators: Mitchell Cohen MD, Michele Gulizia MD*

Room: Orange (50)

- Alternative Pacing Sites to Preserve Ventricular Function in Children – Massimo Silvetti MD
- Zero Fluoro: When to Use and When to Not Use – Alfredo di Pino MD
- ACHD Arrhythmias: No Longer Child's Play – J. Philip Saul MD
- Cardiac Resynchronization: Hope or Hype? – Mitchell Cohen, MD
- Panel Discussion

## **The Changing Landscape of Adults with Congenital Heart Disease**

*Moderators: Antonio Amodeo, MD **TBD***

Room: Lemon (50)

- Where Who and How Should ACHD Patients Be Managed? A European Approach – Massimo Chessa, MD
- The "Stepstone" Project: How to Optimally Transition Adolescents to ACHD Care – Philip Moons, PhD
- A Dedicated Clinical Pathway: Integrated Approach for Adult and Pediatric Unit - Gianluigi Perri MD
- Role of the Interventional Cardiologist – Maria Giulia Gagliardi MD



Friday 1545 - 1745

### **Neurodevelopmental Outcomes in Children with CHD: Etiology and Strategies for Improvement**

*Moderators: Annabella Braguglia MD; Rosa Maria Cerbo MD*

Room: Mt Etna (250)

- Etiology of Neurodevelopmental Outcome in CHD – Raffaele Falsaperla, MD
- Eliminating Brain Injury and Promoting Neurogenesis in the Intensive Care Unit – Melissa Jones MSN & Gil Wernovsky MD
- Brain monitoring in CHD Infants in the NICU - Paola Giliberti, MD
- Brain Insults and Lesions Related to CHD – Luca Ramenghi MD & Alessandro Parodi MD
- Appropriate Follow up in Newborns with CHD – Francesca Campi MD
- Panel Discussion

### **Blalock-Taussig-Thomas Shunts: Problems and Solutions**

*Moderators: Alessandro Giamberti MD, Nikolaus Haas, MD*

Room: Mt. Stromboli (100)

- Prophylactic Anti-platelet Therapy Prior to Surgery – Jason Patregnani, MD
- Multi-Modality imaging of Shunts and Pulmonary Arteries – Laura Olivieri, MD
- Treatment of Shunt Thrombosis in the Cath Lab – Evan Zahn MD
- Current Techniques to Minimize Complications and Maximize Hemodynamics – Francis Fynn-Thompson, MD
- Panel Discussion

### **Cardiopulmonary Bypass in the Neonate: An International Perspective and Panel Discussion**

Moderator: Tom Karl, MD

Room: Orange (50)

- Chicago USA – Molly Oldeen, CCP
- Cincinnati, USA – James Tweddell, MD
- Japan – Shunji Sano, MD
- London, UK – Alex Robertson, CCP
- Kyiv, Ukraine – Illya Yemets, MD
- Paris, France – Davide Calvaruso, MD
- Philadelphia, USA – Molly Dreher, CCP
- Taormina, Sicily – Salvatore Agati, MD

Saturday 25 May  
0745 - 0945

### **Tetralogy of Fallot – Early Management and Late Results**

*Moderators: Fiori Iorio MD; Andrea de Zorzi MD and Evan Zahn, MD*

Room: Mt. Stromboli (100)

- Morphology – Robert Anderson, MD
- In 5 Minutes, I Am Going to Convince You How to Treat The Symptomatic Neonate By:
  - Placing a Shunt - Giuseppe Ferro MD
  - Placing a Stent - Nikolaus Haas, MD
  - Performing a Complete Repair - Francis Fynn-Thompson, MD
- Surgical Management in the Asymptomatic Infant – Lorenzo Galletti MD
- Surveillance for Arrhythmia: How and How Frequently? – Mitchell Cohen, MD
- When Should the Pulmonary Valve be Replaced? – Maria Giulia Gagliardi MD
- So, What Have We Learned After 70 Years of Surgical Management? – Tom Karl, MD

### **Cardiopulmonary Interactions and Inotropic support in the Neonate with a Structurally Normal and Abnormal Heart**

*Moderators: Eloisa Gitto MD, Luisa Pieragostini MD*

Room: Mt. Stromboli (100)

- Interaction Between the Heart and Lungs – Paola Cogo MD
- Ventilation Management in Critical Care– Gianni Vento MD
- Hypotension in the Neonate – Benjamim Ficial MD
- Drug Management in Heart Failure – Savina Mannarino MD
- Panel Discussion

### **Inpatient Echocardiography After CHD Surgery: Important Principles and Techniques**

*Moderators: Massimo Chessa MD; Giovanna Baccano MD*

Room Orange (50)

- Surgical Perspective: Massimo Massetti, MD
- Anesthetic Considerations: Ivana Campanella, MD
- Current Status of 3D Imaging in the Operating Room: Gabriele Rinelli, MD
- Echo in the ICU: Ensuring Safety During the Procedure and Communication of the Results – Darren Klugman MD, MPH
- Panel Discussion

### **New Challenges and Solutions in Cardiac Critical Care**

*Moderators: Simone Reali MD; Sergio Picardo MD*

Room: Lemon (50)

- Pharmacologic and Non-Pharmacologic Strategies for Pain Management – Viviane Nasr, MD.
- Intraoperative Exparel and Mini Sternotomy to Reduce Postoperative Pain – Christopher Tirota, MD
- Neonatal and Pediatric ECMO Management and Outcomes: The CHOP experience – Molly Dreher, CCP
- Transfusion Associated Lung Injury (TRALI) – Joshua Salvin, MD, MPH
- VV ECMO in Pediatric Cardiac Surgery – Cristian Mirabile, MD
- Why Do Patients with a Functionally Univentricular Heart Clot So Easily? – Jason Patregnani, MD

Saturday 1015 - 1215

## Functionally Univentricular Heart: New Concepts and Practices in the Fetus, Infant and Child

Moderators: *Shunji Sano MD, Salvatore Agati, MD*

Room: Mt. Etna (250)

- A Brief Review of Anatomic Subtypes – Robert Anderson, MD
- How Do I Counsel Families with a Prenatal Diagnosis of Hypoplastic Left Heart?
  - Lisa Hornberger, MD
  - Luciano Pasquini, MD
- Rethinking “Single Ventricle Physiology” and Perioperative Care – Gil Wernovsky, MD
- Rethinking “One Size Fits All” Surgical Decision Making – Fiore Salvatore Iorio, MD
- Where Do We Stand with the “Hybrid Approach” in 2019? – Evan Zahn, MD

## State of the Art: Imaging Part 2

Moderators: *Laura Olivieri MD; Placido Romeo, MD*

Room: Mt. Stromboli (100)

- Fetal MRI – Unnecessary Technology or Clinical Reality – David Lloyd, MD
- CT Imaging in Less Than A Second: Changing Cardiac Imaging In Infants – Aurelio Secinaro, MD
- 3D Printing: Obtaining Data Sets and Clinical Utility – Andrew Taylor, MD
- Machine Learning in Cardiac MRI: How Will It Shape the Future? – Vivek Muthurangu MD
- Panel Discussion

## Cardiac and Non-Cardiac Manifestations of Genetic Syndromes Associated with Congenital Cardiac Disease

Moderators: *Carmelo Salpietro MD; Franco Cusumano, MD; Marcello Campisi MD*

Room: Orange (50)

- Genetic Syndrome and CHD – Emanuela Salzano, MD
- New laboratory investigations in genetic syndromes with CHD – Antonio Novelli MD
- Counseling for a Patient with a Genetic Syndrome and CHD – Giovannella Russo MD
- Heart and Vessels in Neurocutaneous Disorders – Martino Ruggieri, MD
- Syndromes Associated with Hypertrophic Cardiomyopathy – Mitchell Cohen, MD
- Panel Discussion

## Bleeding and Blood Conservation Strategies

Moderators: *Luca Di Chiara MD; Giusy Nicita MD*

Room: Lemon (50)

- Perioperative Blood Management in infants and Children: Worth Its Weight in Gold – Molly Dreher, CCP
- When All Else Fails: Management of Severe Bleeding
  - in Chicago – Molly Oldeen, CCP
  - In London – Alex Robertson, CCP
  - In Paris – **Davide Calvaruso**
  - In Rome – Chiara Giorni MD
  - In Taormina – Nadia Grasso MD
  - In Washington DC – Jason Patregnani, MD
  -
- Panel discussion

Saturday 1330 - 1530

### **Functionally Univentricular Heart: Beyond Childhood**

*Moderators: Gil Wernovsky, MD and Salvatore Agati MD*

Room: Mt. Etna (250)

- MRI Assessment of the Fontan Patients: All That's Needed? – Andrew Taylor, MD
- Electrophysiologic Consequences, and Their Effect on Quality of Life – J. Philip Saul, MD
- Physical Activity and Quality of Life – Philip Moons, MD
- "Stage 4": Transplantation After Fontan – Shri Deshpandi, MD
- Panel discussion

### **State of the Art: Aortic Valve Surgery**

*Moderator Antonio Amodeo, MD, Gianluigi Perri, MD.*

Room: Mt. Stromboli (100)

- A Young Man with Aortic Valve Disease and Small Annulus: Clinical Case and Indication - Francesca Graziani, MD
- Ross Operation: Lorenzo Galletti, MD
- Modified Konno Procedure - Olivier Raisky, MD
- Minimally Invasive Aortic Valve Replacement. Piergiorgio Bruno, MD
- Panel Discussion - Massimo Massetti, Fiore Iorio, Alessandro Giamberti

### **ICU Care, Catheter and Surgical Management While on ECMO**

*Moderators: Viviane Nasr, MD; Sergio Filippelli MD*

Room: Lemon (50)

- ECMO following Stage I Norwood – Francis Fynn-Thompson
- How Best to "Round" on the ECMO Patient – Darren Klugman MD, MPH
- Bedside Nursing Care – Annette Imprescia RN, CCRN
- Monitoring and Treating Bleeding During ECMO – Alex Robertson, CCP
- Panel Discussion

### **Genetics, Environment and New Insights in Cardiovascular Disease**

*Moderators Maria Pia Calabrò MD; Lucy Manuri, MD*

Room: Prickly Pear (50)

- The Influence of the Environment in the Experimental Production of Ventricular Septal Defects – Robert Anderson MD
- What Causes Lung Injury During Cardiopulmonary Bypass? – Jason Patregnani, MD
- What's New in the Genetic Etiologies of Congenital Heart Disease – Bruno Marino, MD
- Who Should Get Genetic Testing After a Proband Presentation of Arrhythmia? – Mitchell Cohen, MD
- Panel Discussion

**1530 Early Adjourn**

Sunday 0830 - 1100

### **State of the Art: Mechanical Circulatory Support**

*Moderators: Antonio Amodeo MD, Massimo Massetti, MD*

Room: Mt. Etna (250)

- The Cardiologist's View: Yesterday, Today and Tomorrow - Roberta Iacobelli, MD
- Small Volume Portable Cardiopulmonary Support – Christopher Tirota, MD
- Mechanical Circulatory Support After Fontan: Experimental Studies – Shri Despande, MD
- Supporting the Right Ventricle in the ICU – Luca Di Chiara, MD
- Panel Discussion

### **Featured Lectures in Cardiac Catheterization**

*Moderators: Maria Giulia Gagliardi MD, Michele Saitta MD*

Room: Mt. Stromboli (100)

- New Technology and Clinical Trials – Evan Zahn, MD
- The Crucial Role of the Cardiac Anesthesiologist During Neonatal and Pediatric Catheterization – Viviane Nasr, MD
- Endocarditis Following Transcatheter Melody Valve Placement – Nikolaus Haas, MD
- Aortic Coarctation and Recoarctation: From Simple to Hybrid – Massimo Chessa MD
- A Hybrid Approach to the RV Outflow Tract – Evan Zahn, MD
- Panel Discussion

### **Early Management of the Neonate and Infant with Critical Congenital Heart Disease**

*Moderators: Lili Klein MD, Gabriella Tina MD*

Room: Orange (50)

- Provision of Care to a Fetus With Prenatal Diagnosis of CHD: Chance or Risk? – Stefano Fiocchi, MD
- Critical CHD in the Delivery Room: What the Neonatologist Needs to Know – Nunzia Decembrino, MD
- Prostaglandin Infusion in the Early Management of the Neonate with CHD – Sabrina Salvadori, MD
- Vascular access of the neonate with CHD: from birth to stabilization—Fiammetta Piersigilli MD
- Panel Discussion

### **Evaluation and Treatment of Tricuspid Valve Disease**

Moderator: Fiore Iorio MD, Massimo Massetti MD

Lemon (50)

- Adult Patient with Secondary Tricuspid Valve Disease: Clinical Case and Indication - Angelica Delogu MD
- Which Type of Diagnostic Evaluation? - Massimo Chessa MD
- Tricuspid Valve Repair or Replacement - Alessandro Giamberti MD
- Can the Tricuspid Valve in HLHS Be Surgically Managed with Success and Durability? – Shunji Sano, MD
- Panel Discussion

**Adjourn and Commencement**