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# PediRhythm<sup>XI</sup>

## WORLD CONGRESS OF PEDIATRIC & CONGENITAL HEART RHYTHM DISORDERS

September, 19<sup>th</sup>-21<sup>st</sup> 2024 | ROME, Centro Congressi Fontana di Trevi

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### SCIENTIFIC PROGRAM

**THURSDAY, SEP 19<sup>th</sup>**

#### *8.45 – REGISTRATION*

**09:00 WELCOME**

*Pedirhythm Board and Fabrizio Drago*

**9:20 LECTURE 'LORENZO FABBRI'**

**Arrhythmogenic Cardiomyopathy - Prof. Domenico Corrado**

*Coffee break – 10:00*

#### **SESSION 1**

**10:30 – 12:00**

**(AUDITORIUM)**

**ABLATION 1/4 - ISSUED RELATED TO VT ABLATION**

**Chairs: George Van Hare, Fabrizio Drago**

- How accurate is the ECG for predicting precise location of outflow tract VT? - *Robert Pass*
- Approach to "LV summit" VT - *Thomas Kriebel*
- VT in Ebstein anomaly - *Ed Walsh*
- Evaluation of VT substrate in tetralogy of Fallot prior to pulmonary valve replacement - *Katja Zeppenfeld*



**(ROOM #1)**

**GENETICS 1/3 - TOOLS TO HELP DETERMINE VARIANT PATHOGENICITY**

**Chairs: Arthur Wilde, Thomas Roston**

- Current tools to help determine of variant pathogenicity - primer for the cardiologist - *Dario Cocciadiferro*
- Clin Gen and Clin Var - international efforts - *Valeria Novelli*
- High throughput variant screening technology/functional assays to assist in variant calling - *Tristani Firouzi Martin*
- How iPSC-derived cardiomyocytes can help determine variant pathogenicity - *Vassilios Bezzeridis*

**12:00 – 13:30 Lunch Break**

**12:40 – 13:20 ECG Quiz – Susan Etheridge-Andrew Davis**

**SESSION 2**

**13:30 – 15:00**

**(AUDITORIUM)**

**GLOBAL 1/ 2 + ACHD - EP CARE IN ACHD PATIENTS ACROSS THE WORLD**

**Chairs: Sabrina Tsao, Andreas Pflaumer**

- How to plan ACHD catheter ablation procedures to improve success rate? *Jeremy Moore*
- How to build a successful ACHD program? – *Okay Tutarel*
- Unique challenges in practicing ACHD EP in Hong Kong - *Sit Yee Kwok*
- Cardiac device in ACHD - challenges and limitation / CSP in CHD? - *Superlack Kanjanuthai*

**(ROOM #1)**

**CLINICAL 1/ 4 - EXPECT THE (UN) EXPECTED**

**Chairs: Alice Maltret, Laszlo Kornyei**

- VT deluge; unexpected VT on Holter, Exercise test, CIEDs, and event monitors: What does it all mean? - *Susan Etheridge*
- Managing Paroxysmal AV block. Can you ever expect it? - *Maria Miszczak-Knecht*
- Constant Vigilance! Antiarrhythmic side effects and complications. - *Andrew Davis*
- When Neurological Genetic disease is entangled with arrhythmias. (SUDEP, Dravet, Rett, KCND3) - *Martin Tristani Firouzi*

**Coffee break – 15:00**



**SESSION 3**  
**15:30 – 17:00**

**(AUDITORIUM)**

**ADULT CHD 1/3 - EP INNOVATION IN ACHD: HYPES OR HOPES?**

**Chairs: Chris Mcleod, Natasja de Groot**

- Wearables for detection of arrhythmias in ACHD - Ruben Cassado- Arroyo
- Leadless pacemakers in ACHD - *Jeremy Moore*
- SICDs in ACHD- indications and no-go's - *Christian Paech*
- Atrial substrate mapping in ACHD: high density mapping and new mapping algorithms - *Isabel Deisenhofer*
- His and left bundle area pacing in ACHD - *Oscar Cano*

**(ROOM #1)**

**CARDIAC IMPLANTABLE DEVICES 1/4 – PACEMAKER IMPLANTATION**

**Chairs: Karen McLeod, Massimo Stefano Silveti**

- Optimizing Pediatric Specific Pacemaker Programming - *Melissa Olen*
- Single Chamber vs. Dual Chamber Pacing: An unresolved conundrum - *Peter Karpawich*
- Indications for permanent pacing in children revisited - *Byran Cannon*
- Specialized Cardiac Imaging in Pediatric and Congenital Heart Disease Patients with Cardiac Implantable Electronic Devices - *Lindsay Gakenheimer-Smith*

**SESSION 4**  
**17:00 - 18:00**

**(AUDITORIUM)**

**ABLATION 2 /4 - DEBATES**

**Chairs: Charles Berul, Thomas Paul, Adele Greyling, Mully Shah**

- **Debate 1 : All cases of tachyarrhythmias close to the AV junction should be ablated using cryoenergy**
  - PRO: *Fabrizio Drago*
  - CON: *Joachim Hebe*
- **Debate 2: Every patient should have an EP study before transcatheter valve implantation**
  - PRO: *Katja Zeppenfeld*
  - CON: *Isabel Deisenhofer*

**(ROOM #1)**

**DEVICES 2/4 – DEBATE PRO CON**

**Chairs: Jan Janousek, Peter Karpawich, Mully Shah**

- **Debate 1:** All PM for asymptomatic CCAVB beyond first year of life
  - PRO: *Eric Rosenthal*
  - CON: *Michal Jicinsky*
- **Debate 2:** No abandoned transvenous leads: All CIED leads must be removed
  - PRO: *Frank Cecchin*
  - CON: *Roman Gebauer*

**SOCIAL DINNER @LA LANTERNA**



**FRIDAY, SEP 20<sup>th</sup>**

**SESSION 1**  
**09:00-10:00**

**(AUDITORIUM)**

**ADULT 2 / 3 - ABLATION 2/4 DEBATES**

**Chairs: Nico Blom, Tevfik Karagöz, Aya Mizaki**

- **Debate 1: Monomorphic VT should be treated by catheter ablation or ICD for repaired TOF**
  - By Catheter ablation : *Laszlo Kornyei*
  - By ICD: *John Triedman*
- **Debate 2: Cardioneuroablation in children with Asystolic Syncope: Is it time to do it**
  - PRO: *Roman Gebauer*
  - CON: *Cecilia Gonzalez Corcia*

**Coffee break - 10:00**

**SESSION 2**  
**10:30 - 12:00**

**(AUDITORIUM)**

**CLINICAL 2 / 4 - MEET THE EXPERTS**

**Chairs: Ed Walsh, Andrew Davis**

- Does every baby with fetal SVT need therapy after birth? - *Hakan Eliasson*
- Are arrhythmias in athletes more important than everyone else? - *Alice Maltret*
- Learning from my most difficult to manage patients - *Thomas Paul*
- Balancing between the risk of catheter ablation and the risk of antiarrhythmic drugs in neonatal tachycardia - *Ian Law*
- Using my past to inform the future of Pediatric EP - *George van Hare*

**(ROOM #1)**

**ABLATION 3 / 4 - ISSUES RELATED TO ABLATION OF SVT**

**Chairs: Alpay Celiker, John Papagiannis**

- New 3D mapping tools and algorithms for ablation of SVT in children: Near Field, Last Deflection, Omnipolar, 3D Intracardiac ECHO - *Ferran Roses Noguera*
- Diagnosis and treatment options for twin AV node tachycardia - *Kathryn Collins*
- Potential applications for pulsed field ablation in pediatric / congenital EP - *Gabriele Hessling*
- Difficult AVNRT ablation: diagnostic steps and ablation techniques - *John Triedman*
- Mechanisms of tachycardia-induced and preexcitation-induced myopathy - *Aya Mizaki*



**12:00 – 13:30 Lunch Break**

**SESSION 3**  
**13:30 – 15:00**

**(AUDITORIUM)**

**DIGITAL HEALT AI IN MEDICINE 1 /1 - CURRENT STATE AND FUTURE OF PEDIATRIC DIGITAL HEALTH AND AI**

**Chairs: Joachim Hebe, Andrew Davis**

- Future of Ep-How AI and DH will change the field in the next 10 years - *Jennifer Silva*
- Future of Outpatient Electrophysiology--How AI and DH will change the field in the next 10 years - *George Van Hare*
- Current State of DH and AI in US - *John Triedman*
- Current State of DH and AI in Switzerland? - *Florian Berger*

**(ROOM #1)**

**DEVICES 3 /4 - MEET THE EXPERTS**

**Chairs: Charles Berul, Frank Cecchin**

- Conduction System Pacing- Is it the site of choice in all patients with an indication for transvenous ventricular pacing? - *Massimo Stefano Silvetti*
- Leadless Pacemakers- Real world Applications and Outcomes - *Maully Shah*
- CRT-what have we learnt from adults? Which CHILDREN COULD BENEFIT NOW? - *Ann Dubin*
- Subcutaneous and Extravascular ICDs- Are transvenous ICDs bygone? - *Karen McLeod*

**(ROOM #2)**

**ABSTRACT SESSION**

**Coffee break – 15:00**

**SESSION 4**  
**15:30 – 17:00**

**(AUDITORIUM)**

**FETAL 1 /1 - FETAL ARRHYTHMIAS- WHEN IS FETAL FATAL?**

**Chairs: Hakan Eliasson, Sall-Ann Clur**

- Prevalence and diagnostics of fetal arrhythmias - *Bettina Cuneo*
- Isolated fetal heart block- management and outcome – *Bettina Cuneo*
- Therapy resistant SVT- is there a way out? - *Orhan Uzun*
- Channelopathies in fetal life - *Sall-Ann Clur*



**(ROOM #1)**

**GENETICS 2/3 - THE RYANODINE RECEPTOR RELATED INHERITED CARDIAC SYNDROMES**

**Chairs: Valeria Novelli, Martin Tristani Farouzi**

- Cardio-myocyte calcium homeostasis and the Ryanodine receptor - what the cardiologist needs to know - *Arthur Wilde*
- CPVT, diagnosis, risk and treatment - *Christiaan van der Werf*
- Calcium Release Deficiency Syndrome, diagnosis, risk and treatment - *Thomas Roston*
- New molecular and gene therapies for CPVT - *Vassillos Bezzerides*

**(ROOM #2)**

**ABSTRACT SESSION**

**SESSION 5  
17:00 – 18:30**

**(AUDITORIUM)**

**CLINICAL 3/4 - THE MODERN ELECTROPHYSIOLOGIST'S TOOLBOX**

**Chairs: Alpay Celiker, Eric Rosenthal**

- New therapies for RASopathies. Do they help or hinder arrhythmias? - *Cordula Wolf*
- Finally, something new: Ivabradine when and how? - *Chris Janson*
- Sympathectomy – left, right, bilateral; the panacea for all? What have we learnt? - *Veronika Dusi*
- IV Sotalol is the best, forget the rest?! - *Mitchell Cohen*

**(ROOM #1)**

**GLOBAL 2 /2 + ABLATION 4 /4 - HOW TO?**

**Chairs: Adele Greyling, Ferran Roses Noguera**

- How to safely ablate slow AVN pathway with RF? - *Gabriele Hessling*
- How to map slow AVN pathway: Voltage Bridge vs. late activation? – *Cathy Collins*
- How to ablate LV fascicular VT? - *Andreas Pflaumer*
- How to ablate Mahaim pathways? - *Ed Walsh*

**FACULTY DINNER @FORUM**



**SATURDAY SEP 21<sup>ST</sup>**

**SESSION 1**  
**08:30-10:00**

**(AUDITORIUM)**

**DEVICES 4 /4 - GENERAL ICD SESSION**

**Chairs: *Thomas Kriebel, Christian Paech***

- The unshockable shockable (Why ICDs might not always prevent sudden death) - *Karen McLeod*
- ICDs and QOL in the Young - *Elisabeth Stephenson*
- Pediatric and CHD specific programming - *Jan Janousek*
- Remote Monitoring of ICDs and other CIEDs: Be careful what you wish for! - *Cheyenne Beach*
- Should I implant an ICD? The patient is fine but the family history is scary! - *Tevfik Karagöz*

**(ROOM #1)**

**CLINICAL 4 /4 - EP AND HEART FAILURE**

**Chairs: *Maria Miszczak-Knecht, Susan Etheridge***

- Differentiating DCM with Sinus tachycardia vs tachy induced cardiomyopathy – *Susan Etheridge*
- Antiarrhythmic effects of new heart failure drugs. Ever enough tpo avoid ICDs? - *Andrew Davis*
- Managing arrhythmias in patients on VAD - *Elizabeth Sherwin*
- Understanding disease trajectory and how the EP person works best with the heart failure team - *Ann Dubin*

***Coffee break – 10:00***

**SESSION 2**  
**10:30 – 12:00**

**(AUDITORIUM)**

**ADULT CHD GENERAL 3 /3 - COMMON PROBLEMS IN ACHD-WHAT TO DO?**

**Chairs: *Jeremy Moore, Hoang Nguyen***

- What to do with frequent ventricular ectopy in ACHD? - *Nico Blom*
- What to do with early post-operative AF in ACHD?- *Hoang Nguyen*
- What to do with symptomatic drug-refractory AF in complex ACHD? - *Chris McLeod*
- What do with the patient going to the OR: who profits from a Maze? - *Natasja de Groot*



**(ROOM #1)**

**GENETICS 3 /3 - ARRHYTHMOGENIC CMP**

**Chairs: Fabrizio Drago, Christiaan van der Werf**

- Arrhythmogenic mitral valve prolapse syndrome/MAD- risk stratification and management - *Avi Sabak*
- Arrhythmogenic cardiomyopathy: genotype-phenotype correlation - *Amy Kontorovich*
- The spectrum of SCN5A - from arrhythmia to cardiomyopathy - *Arthur Wilde*
- Atrial arrhythmia as a manifestation of arrhythmogenic cardiomyopathy - *Christian Veltmann*

**CLOSING SESSION**

**12:00 – 13:00**

***SCD PREVENTION IN PEDIATRIC ATHLETES IN DIFFERENT CONTINENTS AND COUNTRIES***

**Chairs: Peter Fritsch, Alpaly Celiker, Gabriele Hessling**

- Domenico Corrado (The Italian experience)
- Arthur Wilde (The Western Europe experience)
- Laszlo Kornyei (The Eastern Europe experience)
- George Van Hare (The North-American experience)
- Andrew Davis (The Australian experience)

**13:00 – 13:20 SHORT LECTURE - HELPING OUR ATHLETES REACH THEIR GOALS SAFELY – CAN WE LEARN SOMETHING FROM THE FIFA WORLD CUP 2022 SPORTS CARDIOLOGY SET UP.** Guido Pieles, Bristol Heart Institute/ Dept. of Congenital Cardiology.

**13:20 – 13:40 SHORT LECTURE - ADAPTED PERSONALIZED MOTOR ACTIVITY IN CHILDREN WITH CARDIAC OR CHRONIC DISEASES.** Attilio Parisi, Sports University, Rome

**FAREWELL**

**Pedirhythm Board and Local Organizer**

**13:40 – 14:00**