



PediRhythm^{XI}

WORLD CONGRESS OF PEDIATRIC & CONGENITAL HEART RHYTHM DISORDERS

September, 19th-21st 2024 | ROME, Centro Congressi Fontana di Trevi

SCIENTIFIC PROGRAM

THURSDAY, SEP 19th

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, Dominic Abrams

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

12:00 Lunch Break: LUNCHEON PANEL ECG QUIZ

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? - *Gruschen Veldtman*
- 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, Juha Matti Happonen

- 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*

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 - *Lindsey Gakenheimer-Smith*

SESSION 4
17:00 - 18:00

(AUDITORIUM)

ABSTRACT SESSION

(ROOM #1)

DEVICES 2/4 – DEBATE PRO CON

Chairs: *Jan Janousek, Peter Karpawich, Maully 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 20th

SESSION 1
09:00-10:00

(AUDITORIUM)

ABLATION 2 /4 - DEBATES

Chairs: Charles Berul, Thomas Paul, Adele Greyling, Maully 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)

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 : *Nicolas Combes*
 - By ICD: *John Triedman*
- **Debate 2: Cardioneuroablation in children with Asystolic Syncope: Is it time to do it**
 - PRO: *Roman Gebauer*
 - CON: *Cecilia Gonzales*

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 Noguer*
- Diagnosis and treatment options for twin AV node tachycardia - *Mei-Hwan Wu*
- 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 Miazaki*

12:00 Lunch Break (LUNCHEON PANEL)

**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*
- Current State of DH and AI in Costa Rica? - *Armado Alfaro*

(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 Silveti*
- 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*

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 - *Edgar Jaeggi*
- Therapy resistant SVT- is there a way out? - *Joanne Dangel*
- Channelopathies in fetal life - *Sall-Ann Clur*

(ROOM #1)

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

Chairs: Valeria Novelli, Vassilios Bezzerides

- 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 - *Dominic Abrams*

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? - *Mei-Hwan Wu*
- How to ablate LV fascicular VT? - *Andreas Pflaumer*
- How to ablate Mahaim pathways? - *Ed Walsh*

FACULTY DINNER @FORUM



SATURDAY SEP 21ST

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 - *Juha Matti Happonen*
- 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 non-sustained VT in ACHD? - *Gruschen Veldtman*
- 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: James Ware, Christiaan van der Werf



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

CLOSING SESSION

12:00 – 13:00

SCD PREVENTION IN PEDIATRIC ATHLETES IN DIFFERENT CONTINENTS AND COUNTRIES

Chairs: Alpay Celiker, Gabriele Hessling, Fabrizio Drago

- Domenico Corrado (The Italian experience)
- Arthur Wilde (The European experience)
- George Van Hare (The North-American experience)
- Andrew Davis A. (The Australian experience)

13:00 – 13:20 SHORT LECTURE - ADAPTED PERSONALIZED MOTOR ACTIVITY IN CHILDREN WITH CARDIAC OR CHRONIC DISEASES Attilio Parisi, Sports University, Rome

FAREWELL

Pedirhythm Board and Local Organizer

13:20 – 13:30

PRELIMINARY PROGRAM