PAEDIATRIC ARRHYTHMIAS
6th TEACHING COURSE OF THE ASSOCIATION FOR EUROPEAN PAEDIATRIC AND CONGENITAL CARDIOLOGY
FACULTY MEMBERS

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Konrad Brockmeier, Germany
Georgia Serquella-Brugada, Spain
Juha-Matti Happonen, Finland
Alice Maltret, France
Thomas Paul, Germany
Karen Mc Leod, Scotland
Massimo Stefano Silvetti, Italy
Friday, 22 September 2017

08.00  Registration
09.00  Welcome  Fabrizio Drago
       Introduction  Thomas Kriebel - Fabrizio Drago

09:20-11:10  State of the art Lectures 1:
       Common Paediatric Arrhythmias

09:20  Cardiac Anatomy
09:40  Fetal Arrhythmias
10:00  Bradyarrhythmias
10:20  Tachyarrhythmias
10:45  Repolarization Diseases

11:10  Coffee Break

11:30-13:00  Interactive Workshops I:
       Basics

11:30-12:00  Session #1
       a) Auditorium:  ECG of common arrhythmias in neonates
       b) Aula Bardo:  ECG quiz

12:00-12:30  Session #2
       a) Auditorium:  ECG evaluation and diagnosis of wide QRS complex tachycardia in children
       b) Aula Bardo:  ECG evaluation and diagnosis of narrow QRS complex tachycardia in children

12:30-13:00  Session #3
       a) Auditorium:  Clinical Management of Channelopaties
       b) Aula Bardo:  Pharmacological therapy for arrhythmias in paediatric patients

13:00-13:30  (20 participants only)
       St. Paul small room:  Focus on cardiac anatomy: anatomical specimens

13:30  Light Lunch
### State of the art Lectures 2:

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<th>Time</th>
<th>Session</th>
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<tr>
<td>14:30</td>
<td>Ablation in paediatric and CHD patients: indications and peculiar procedural aspects</td>
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<tr>
<td>14:50</td>
<td>Radiofrequency energy: results and limits in paediatric age</td>
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<tr>
<td>15:10</td>
<td>Cryoenergy: results and limits in paediatric age</td>
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<tr>
<td>15:30</td>
<td>Usefulness of remote navigation in paediatric and CHD patients</td>
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<td>15:50</td>
<td>Coffee break</td>
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### Interactive workshops II:

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<th>Time</th>
<th>Session</th>
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<tr>
<td>16:20</td>
<td>Management of arrhythmias in paediatric patients</td>
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| 16:20-16:50 | **Session #1**  
  a) Auditorium: Treatment of arrhythmias in neonates  
  b) Sala Bardo: Paediatric arrhythmia emergencies                                             |
| 16:50-17:20 | **Session #2**  
  a) Auditorium: Mapping and ablation principles  
  b) Sala Bardo: Principles of EP study: what is examined and why                                |
| 17:30-18:00 | 20 participants only  
  St. Paul small room: Focus on cardiac anatomy: anatomical specimens                      |
| 18:00  | Guided visit to S. Paul's Basilica with Cloister and ancient Ostiense Archeological Site - Road to Ostia |
| 19:00-21:00 | Informal Aperi-Dinner and get together evening at the Cloister                                  |

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**Saturday, 23 September 2017**

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<th>Time</th>
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| 08:30-10:15 | State of the art Lectures 3:  
  Pacemaker in paediatric and CHD patients                                                        |
| 08:30  | Indications in paediatric and CHD patients                                                        |
| 08:50  | Dyssynchrony and cardiac failure: how to manage                                                   |
| 09:10  | Pacemaker implantation in paediatric patients: technical issues                                  |
| 09:30  | Pacemaker implantation in CHD patients: technical issues                                          |
| 09:50  | Follow-up and remote monitoring                                                                  |
| 10:15  | Coffee Break                                                                                      |
10:45-11:45 Interactive workshops III: 
How to manage

10:45-11:15 Session #1
a) Auditorium: WPW in asymptomatic patients
b) Sala Bardo: Palpitations

11:15-11:45 Session #2
c) Auditorium: Arrhythmias and sport activities
d) Sala Bardo: Syncope in children

12:00 Light Lunch

13:00-14:40 State of the art Lectures 4: 
Sudden cardiac death and ICD implantation in paediatric and CHD patients

13:00 Sudden cardiac death in paediatric patients
13:20 Sudden cardiac death in CHD patients
13:40 Epicardial and Endocardial ICD Implantation in paediatric and CHD patients
14:00 Subcutaneous ICD implantation in paediatric and CHD patients

14:40 Coffee Break

15:00-15:30 Young Investigator Award in Paediatric Arrhythmias Management

15:00 Presentator #1
15:10 Presentator #2
15:20 Presentator #3

Announcement: Winner of young investigator award

15:30 Closing remarks and farewell - Fabrizio Drago
This 2-day teaching course will be focused on the clinical management of various types of arrhythmias encountered in the paediatric patient and young adult with and without congenital heart disease. Emphasis will be placed on the practical aspects of common problems encountered day-to-day by the practicing paediatric cardiologist to highlight each of the clinical problems with state of the art lectures given by experts. Fellows in paediatrics, cardiology and electrophysiology should attend this course.

Different issues will be discussed:

- decision making in commonly encountered arrhythmias in children and adolescents with reference to current guidelines and consensus statements
- past and future role of ablation therapy and 3D systems efficacy in paediatric patients
- management of electrical and structural cardiomyopathies including the value of genetic testing, risk assessment and the treatment appropriate for the individual patient
- management of early postoperative tachyarrhythmias in the young as well as risk stratification for patients with late ventricular arrhythmias
- best techniques for implantation of pacemakers and ICDs in the small child and in the patient with complex congenital heart disease
- role of cardiac resynchronization therapy in the patient with and without congenital heart disease.