

Bordeaux Summer School

Percutaneous interventions in congenital heart diseases

June 8th – June 11th, 2020



In a nutshell...

This summer school, dedicated to congenital heart diseases and percutaneous therapies, is open to international science and medical students, engineers and experienced researchers wishing to improve their background knowledge.

During the four day session, this course offers intensive practical classes about the technological aspects of CHD transcatheter interventions, from innovative concepts to clinical practice, including all aspects of device development.

Participants will meet with world leading experts in transcatheter interventions, imaging and biomaterials, as well as industrial stakeholders. They will also discover and use cutting-edge technologies and equipment.



Expertise upon completion

This summer school offers a unique opportunity for participants to acquire in-depth knowledge in congenital heart diseases.

A certificate of participation will be awarded to students upon completion of the course.

› Program*

Day 1: June 8th - Introduction

- › Introduction to cardiac embryology and anatomy: from normal cardiac development to congenital heart defects
- › Hemodynamic basic principles
- › Biomaterials and percutaneous devices
 - › Overview of device designs and history
 - › Components, device specificities, star international biomaterials
 - › Imaging techniques overview
 - › Legal aspects

Day 2: June 9th - Shunt interventions

- › Anatomy
- › Hemodynamic evaluation
- › Imaging: pre and per-procedural guidance
- › Techniques
- › Experimental development of devices
- › Industry

Day 3: June 10th - Vascular stenoses

- › Anatomy
- › Hemodynamic evaluation
- › Imaging: pre and per-procedural guidance
- › Techniques
- › Experimental development of devices
- › Industry

Day 4: June 11th - Valvular therapies

- › Anatomy
- › Hemodynamic evaluation
- › Imaging: pre and per-procedural guidance
- › Techniques
- › Experimental development of devices
- › Industry

Participants will be divided into working groups to develop a "My new device in 180 seconds" project, which they will present at the end of the course.

**Program may be subject to change.*

A panel of experts*

**Speakers may be subject to change.*

Lecturers include leading clinicians and researchers in congenital heart diseases.

Course director:

› **J.B. Thambo:** MD-PhD, Bordeaux University Hospital, University of Bordeaux, France

Keynote speakers:

› **Y. Boudjemline:** Professor, MD-PhD, interventional cardiologist - Sidra Center - Doha, Qatar

› **H. Cochet:** MD-PhD, Bordeaux University Hospital, University of Bordeaux, France

› **R. Dubois:** PhD, researcher, University of Bordeaux, France

› **M. Friedberg:** Professor, MD-PhD, pediatric cardiologist ultrasound imaging techniques - SickKids Hospital - Toronto, Canada

› **M. Gewillig:** Professor, MD-PhD, interventional cardiologist - UZ Leuven, Belgium

› **X. Iriart:** MD, Bordeaux University Hospital, University of Bordeaux, France

› **Z. Jalal:** MD-PhD, Bordeaux University Hospital, University of Bordeaux, France

› **F. Roubertie:** MD-PhD, Bordeaux University Hospital, University of Bordeaux, France

› **O. Villemain:** Associate professor, MD-PhD, pediatric cardiologist in ultrasound imaging techniques - SickKids Hospital - Toronto, Canada

WHY BORDEAUX?

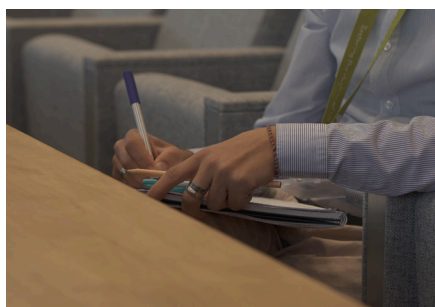
Bordeaux boasts a long tradition of excellence in cardiovascular medicine, in particular with the creation of Liryc – an Electrophysiology and Heart Modeling Institute, led by Prof. Michel Haissaguerre.

Liryc is a research, treatment, innovation and teaching institute. Its strength lies in its scientific expertise and close collaboration with world leading clinical teams.

Offering unique technology platforms with state-of-the-art equipment, the multidisciplinary teams at Liryc develop novel diagnostic tools, medical devices and innovative therapies.

The congenital heart disease team of Prof. Jean-Benoit Thambo is involved in several translational research and education programs, especially in the field of percutaneous therapies.

As part of its mission to disseminate knowledge gained from research, Liryc is committed to university training in cardiovascular medicine with the University of Bordeaux.



Practical information

Dates: June 8th – June 11th, 2020.

N° participants: 30

Language: classes are conducted in English.

Location: classes take place at LIRYC – Electrophysiology and Heart Modeling Institute – Avenue du Haut Lévêque, 33600 Pessac, France.

Participant profile: the course is tailored to graduate and doctoral science and medical students, as well as to more experienced researchers wishing to improve their background in the field of congenital heart diseases.

Applications: to be completed online via our website: bss-congenital-heartdisease.u-bordeaux.fr

A CV and cover letter will be necessary.

Deadline: April 8th, 2020.

Participation fee: 500€ per participant incl. VAT. Lodging, partial boarding and social program costs will be covered for all participants. Travelling fees remain at the participants' expense.

More information:

bss-congenital-heartdisease.u-bordeaux.fr