



# Adult Congenital Heart Disease BachelorClass

The course covers all major congenital heart defects such as ventricular and atrial septal defects (ASD+VSD), patent ductus arteriosus (PDA), congenital valve disease, LVOT / RVOT obstruction, tetralogy of Fallot (TOF), Coarctation (CoA) and more. The course also includes the basics of complex congenital abnormalities (i.e., surgical procedures, Transposition of the great arteries (TGA), single ventricles, and abnormal pulmonary venous connections (APVC). Watch hundreds of examples, patient demonstrations and learn ACHD from top experts in the field.

16.5  
CME credits

19  
Chapters

64  
Lectures

18  
Quizzes

## Chapter 1 | CME

### Free lectures

Enjoy this 3 part series with the TOP TIPS IN ADULT CONGENITAL HEART DISEASE!

#### Lectures & Quizzes:

- Free lecture 1
- Free lecture 2
- Free lecture 3

## Chapter 2 | 0.5 CME

### Introduction

Here we cover the fundamentals, What can you expect?

#### Lectures & Quizzes:

- Introduction
- ACHD - Introduction

## Chapter 3 | 1 CME

### How to Image Patients with ACHD

Here we teach you how to use a systemic approach when you image your patients.

#### Lectures & Quizzes:

- Situs, position of the heart, morphology of atria and ventricles
- AV and VA connections, standard ACHD protocol
- ACHD - How to image patients with ACHD

#### Chapter 4 | 1.5 CME

## Specific considerations in ACHD patients

Imaging patients with ACHD is different, here are some things you need to know.

#### Lectures & Quizzes:

- Right ventricle in ACHD
- Assessment of PV and Pulmonary Arteries
- Shunts and hemodynamics
- Functional assessment cases
- ACHD - Specific considerations in ACHD patients

#### Chapter 5 | 1 CME

## Ventricular Septal Defects (VSD)

Classification-, Embryology-, Imaging-, hemodynamics-, and therapy of VSD.

#### Lectures & Quizzes:

- Basics Part 1
- Basics Part 2
- Other
- ACHD - VSD

#### Chapter 6 | 1 CME

## Atrial Shunt Lesions (ASD)

Types of ASD, echo imaging, role of contrast, Qp: Qs, PFO and iatrogenic ASD.

#### Lectures & Quizzes:

- Overview, facts
- Making the diagnosis
- ASD II
- ASD I, Sinus venosus and coronary sinus defects
- Follow up
- PFO and iatrogenic ASD
- ACHD - ASD

## Right Ventricular Outflow Tract (RVOT) Obstruction

Infundibular/ subinfundibular and valvular obstruction, hemodynamic assessment.

### Lectures & Quizzes:

- Basics
- Pulmonary valve stenosis
- Infundibular stenosis
- Supravalvular/ surgical corrections
- ACHD - RVOT

## Patent Ductus Arteriosus (PDA)

Anatomy, Imaging, hemodynamics and management of PDA.

### Lectures & Quizzes:

- PDA Imaging / Diagnosis / Classification
- Case Examples
- Management
- ACHD - PDA

## Aortic Disease

Aortic dilatation, how to measure the Ao, genetic syndromes and connective tissue disorders.

### Lectures & Quizzes:

- Coarctation
- Hypoplasia, interrupted and double aortic arch.  
Common arterial trunk
- Dilatation/Aneurysm
- Aortic Dissection
- ACHD - Aortic Disease

## Left Ventricular Outflow Tract (LVOT) and Aortic Stenosis (AS)

Bicuspid valves / variations, sub- and supravalvular aortic stenosis.

### Lectures & Quizzes:

- Subvalvular Aortic stenosis
- Supravalvular AS

- Congenital abnormalities of the aortic valve
- ACHD - LVOT and AS

Chapter 11 | 1.25 CME

## Tetralogy of Fallot (TOF)

Imaging of TOF, hemodynamics, complications after TOF repair, other imaging modalities.

### Lectures & Quizzes:

- Basics
- Late complications / Sequelae
- CMR
- ACHD - Tetralogy of Fallot (TOF)

Chapter 12 | 0.75 CME

## Congenitally Corrected Transposition of the Great Arteries (ccTGA)

Description and imaging of ccTGA, hemodynamics, role of the RV, complications.

### Lectures & Quizzes:

- Part 1 Basics/Imaging
- Part 2 Cases
- ACHD - ccTGA

Chapter 13 | 0.75 CME

## Complex Congenital Malformations

Overview of complex defects, Eisenmenger syndrome, complications.

### Lectures & Quizzes:

- Overview/Defects
- DORV
- Eisenmenger
- ACHD - Complex Congenital Malformations

Chapter 14 | 0.75 CME

## Surgery

Surgical Procedures in congenital heart disease.

### Lectures & Quizzes:

- Part 1
- Part 2
- ACHD - Surgery

### Chapter 15 | 1 CME

## Congenital Mitral Valve Pathologies

Leaflet hypoplasia, cleft- double orifice-, parachute- and arcade mitral valve.

### Lectures & Quizzes:

- Part 1 (MV Assessment + Hypoplasia)
- Part 2 (Cleft)
- Part 3 (Congenital MS + Congenital vs non congenital)
- ACHD - Congenital Mitral Valve Pathologies

### Chapter 16 | 0.25 CME

## Ebstein Anomaly

Description- assessment-, hemodynamics- correction and associated lesions of Ebstein's anomaly.

### Lectures & Quizzes:

- Ebstein
- ACHD - Ebstein

### Chapter 17 | 0.25 CME

## Pathologies of the Coronary Sinus

Dilatation of the coronary sinus, persistent left SVC, -unroofed coronary sinus.

### Lectures & Quizzes:

- Basics
- Pathologies of the CS
- ACHD - Pathologies of the Coronary Sinus

### Chapter 18 | 0.75 CME

## Pregnancy and ACHD

Hemodynamic effects of pregnancy, which patients are at risk? Eisenmenger syndrome.

#### Lectures & Quizzes:

- Part 1 Fundamentals/hemodynamics
- Part 2 Defects and risk
- ACHD - Pregnancy and ACHD

Chapter 19 | 2.25 CME

## Cases in ACHD

In this chapter, Elena, Matthias and Thomas present cases directly from the lab.

#### Lectures & Quizzes:

- A patient with a loud murmur
- Strange cavity
- Twist and turns
- The "RAC" sign
- ALCAPA
- Biventricular hypertrophy – but why?
- Problems of the Aorta
- Aortic dissection or not?
- Right heart problem in a patient with an ASD
- A surprise finding in a patient long after aortic valve replacement
- A simple ASD?
- One, two, three
- Q&A session
- Cases in ACHD