

Physiology course

Geneva University Hospitals



USZ Universität
Spital Zürich

HUG Hôpitaux
Universitaires
Genève

Course objective

To provide all you need to know to understand the basics of coronary physiology and what you need to do to implement invasive coronary physiology into cardiac catheterization laboratory daily practice.

Learning objectives

- Become confident using invasive coronary physiology in daily routine clinical practice.
- Understand the fundamentals of commonly used invasive pressure-derived indices of stenosis severity.
- Understand the differences between resting pressure-derived indices of stenosis severity.
- Understand the clinical evidence supporting the use of invasive coronary physiology in clinical practice.
- Learn how to perform good measurements and how to avoid pitfalls.
- Explore how co-registration of anatomy with coronary physiology is reshaping coronary revascularization strategies.

Course programme

8:15-8:30	Welcome Introduction
8:30-8:45	Current perspectives on invasive coronary physiology
8:45-9:15	What are the key differences between resting and hyperaemic blood flow? Understanding differences between available pressure-derived physiological indices of coronary stenosis severity
9:15-9:30	How to perform iFR and FFR measurements Best-practice tips and tricks
9:30-10:10	Live case transmission I Geneva University Hospitals
10:10-10:40	Coffee break Hands-on simulator training
10:40-11:00	20 years of clinical trial data to support the use of invasive coronary physiology for myocardial revascularization decision-making
11:00-11:20	Should we be treating a physiology number? How to interpret an FFR >0.80 or iFR >0.89 Case-based discussion
11:20-12:00	Live case transmission II Geneva University Hospitals



12:00-13:30	Lunch
13:30-13:50	Should we be using dichotomous physiology cut-points? Understanding mismatch between iFR and FFR Case-based discussion
13:50-14:10	How to perform iFR co-registration Best-practice tips and tricks
14:10-14:30	How to differentiate between focal and diffuse coronary artery disease using iFR co-registration
14:30-15:00	Live-in-the-box transmission Geneva University Hospitals
15:00-15:30	Coffee break Hands-on simulator training
15:30-16:10	Live case transmission III Geneva University Hospitals
16:10-16:30	How I use iFR co-registration in daily practice for patient-centred decision-making Interactive case-based discussion
16:30-16:50	How I use iFR/IVUS tri- and co-registration in daily practice for patient-centred decision-making Interactive case-based discussion
16:50-17:00	Summary Q&A session
17:00	Close of meeting

Date:
21.09.2021

Venue:
**Auditorium
Swiss Foundation for Innovation
and Training in Surgery (SFITS)
Geneva University Hospitals
BATLab building (7th floor)**

**Rue Gabrielle-Perret-Gentil 4
1205 Geneva
Switzerland**

Course audience:
**Interventional cardiologists
Cardiologists
Interventional cardiology fellows
Cardiology trainees**

Maximum **25 attendees** from
Switzerland

Subject matter experts
(left to right):

PD Dr Barbara E. Stähli
Dr Juan F. Iglesias
Dr Fulvio Bomio



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