

AOPEER course program

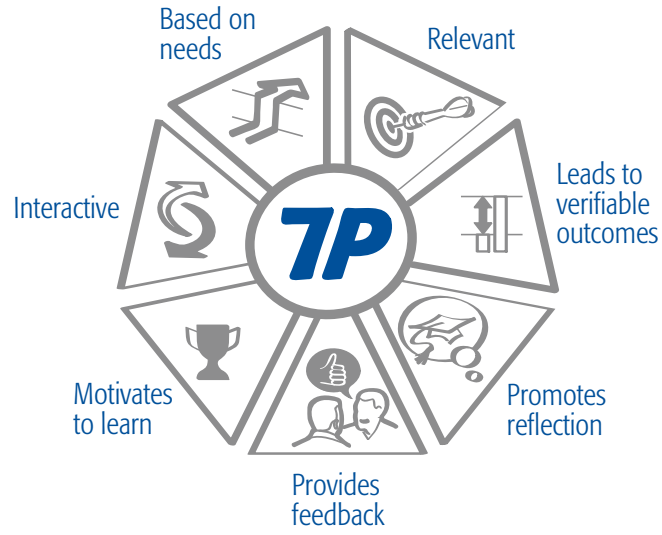
Principles of Clinical Research

October 25–26, 2019

HFR cantonal hospital, Fribourg, Switzerland



7 Principles of education

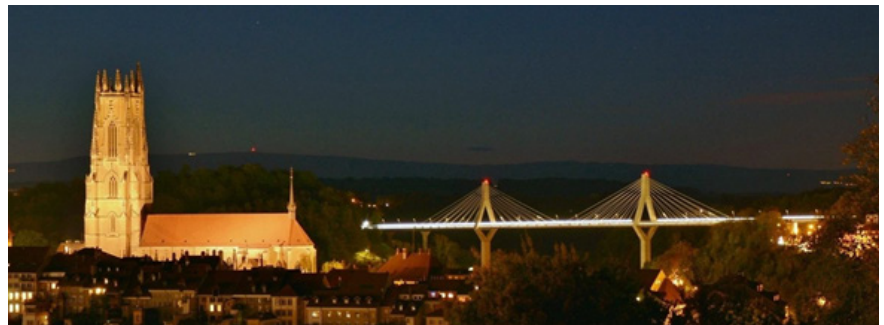


Dear course participant

Welcome to Fribourg – the city of twelve bridges! Unlike any other town in Switzerland, Fribourg is a symbol of bridging cultures, languages and people. Analogously, this AOPEER course intends to build bridges between daily clinical work and scientific evidence.

Over the last decades, the ability to critically review current literature and to implement available facts into clinical practice has become as important as the clinical work itself. This course will provide you with the principles of clinical research and the basic tools to successfully analyze, understand, and conduct clinical studies. You will be given the opportunity to connect with other clinician scientists all around the country.

We look forward to welcoming you to this unique course located at a historical place at the language border in Switzerland.



Prof. Dr. med. Moritz Tannast, Chairperson

HFR Fribourg
University of Fribourg

Dr. Mauro Maniglio, Co-Chairperson

HFR Fribourg
University of Fribourg

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Mandatory precourse activities for participants

- Think of factors that make a clinical problem suitable as a starting point for a clinical study.
- Watch recorded lecture about "study designs" and read through the presentation with specific study design examples
- Read the article of Guo et al and complete the related tasks.
- Complete 2 eLearning modules "Statistics for surgeons"

Course structure

1.5 days face-to-face including interactive discussions, workshops, preceded by online preparatory activities.

Goal of the course

The goal of this course is to introduce the principles of clinical research, including skills and knowledge on why and how to do research, how to build a good research environment, and where to find additional resources, tools, and reference packages to support a research project.

Target participants

This course is targeted at individuals who want to learn or improve the skills for conducting clinical research and publishing results and also at those with a general interest in research and documentation of clinical cases.

Course description

Participants will learn about the importance of research and evidence-based medicine (EBM), the relevant ethical considerations and guidelines for Good Clinical Practice (GCP) with a focus on the formulation of a clinical research question.

In addition to practicing some of the skills related to critical literature review, this course offers support in working with a statistician, and navigating the AO Program for Education and Excellence in Research (AOPEER) to help make their research project a success.

For more information, please visit www.aopeer.org. Access is free for all members of an AO Clinical Division.

Learning objectives

At the end of this course, participants should be able to:

- Explain the importance of doing research and the link to evidence-based medicine.
- Apply the basic principles of literature search and critical appraisal.
- Follow GCP guidelines and adhere to ethical requirements, eg, informed consent.
- Identify a clinical problem, formulate a clinical research question, and select the study design.
- Collaborate with a statistician to perform sample size calculation and basic statistical analyses.
- Describe the principles of medical writing.
- Utilize available research environment, resources, and tools.

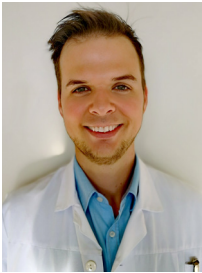
Teachers



Moritz Tannast, MD
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Mauro Maniglio, MD
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Denise Hess
Manager Clinical Education
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Course organization

AO Clinical Investigation and Documentation

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HFR cantonal hospital Fribourg

University of Fribourg
Chemin des Pensionnats 2-6, 1752 Villars-sur-Glâne
Switzerland

Friday, October 25, 2019 (Start 09:00)

TIME	AGENDA ITEM	WHO
	LOCATION: HFR cantonal hospital Fribourg	
08:30	REGISTRATION	
Module 1: Importance of research		
09:00-09:15	Welcome	Mauro Maniglio
09:15-09:30	Why is research important in your daily practice? Plenary discussions	Mauro Maniglio
09:30-09:45	Evidence-based medicine (EBM): Why is it important? Lecture	Camillo Müller
09:45-10:15	What can EBM do for you? Small group discussions	Denise Hess
Module 2: Basics of Good Clinical Practice		
10:15-10:45	Ethical imperatives Introduction and plenary discussions	Camillo Müller
10:45-11:00	BREAK	
11:00-11:10	Guidelines of Good Clinical Practice Lecture	Laurent Audigé
11:10-11:20	Importance of ethics committee Plenary discussions	Camillo Müller
11:20-11:40	Informed consent process Lecture	Mauro Maniglio
11:40-12:25	Ethical approval case studies Practical exercise	Denise Hess
Module 3: Study question		
12:25-13:10	How to identify a clinical problem for research Small group discussions (follow-up from homework)	Laurent Audigé
13:10-14:00	LUNCH BREAK	
14:00-14:50	PICOT and formulating a structured clinical research question Introduction and practical exercise	Mauro Maniglio

Friday, October 25 (cont.)

TIME	AGENDA ITEM	WHO
14:50-15:05	Study designs Lecture	Laurent Audigé
Module 4: Literature review		
15:05-15:45	Literature search Introduction / demonstration	Camillo Müller
15:45-16:00	BREAK	
16:00-16:50	Critical appraisal Practical exercise	Mauro Maniglio
Module 5: Research environment		
16:50-17:00	Roles of research team Lecture	Denise Hess
17:00-17:30	Accessing and finding your way around a research environment Small group discussions	Denise Hess
End of Day 1		

Evening program (included in registration fee)

18:30	Meeting point "Place de Notre Dame" for a city tour (on foot)
18:45	City tour through the old city of Fribourg
19:45	End of the city tour at the place Petit St. Jean / Meeting point for the fondue event
20:00	Fondue event with Fondue moitié-moitié or vacherin pure

Saturday, October 26 2019 (Start 09:00)

Module 6: Basics of statistical thinking

09:00-09:10	How to work with a statistician Lecture	Laurent Audigé
09:10-09:30	Basics of statistics Lecture: Confidence intervals, hypothesis testing, <i>P</i> value	Mauro Maniglio
09:30-09:50	Sample size calculation Lecture	Laurent Audigé
09:50-10:10	Most typical flaws in statistics Plenary discussion	Laurent Audigé

Module 7: Basics of medical writing

10:10-10:55	Bad practice in publishing Plenary discussion and lecture	Moritz Tannast
10:55-11:10	BREAK	
11:10-12:30	Review a paper section by section Practical exercise - Abstract - Introduction: Describe the clinical question - Methods: Explain the study design - Results: Reporting the findings of the study - Discussion: How are the results interpreted? - Conclusion: Lessons learned	Mauro Maniglio
12:30-12:40	Medical writing tips: Manuscript maker Demonstration	Camillo Müller
12:40-12:50	Reference management Demonstration	Laurent Audigé

Module 8: Make your research project a success

12:50-13:00	Use the AOPEER platform Demonstration	Denise Hess
13:00-13:05	What's next for your research education Lecture	Denise Hess
13:05-13:15	Conclusions and feedback Plenary discussion	Mauro Maniglio
	END OF COURSE	

Course information

Course fee

CHF 600.00 for non-AO members
CHF 480.00 for AO members and employees of the HFR Fribourg

Your registration fee includes:

- Attendance of all lectures/practical sessions
- Teaching material for the course
- Coffee breaks and lunch

Course certificate

The course certificates will be available at the end of the course.

Accreditations

- 16 points from the swiss orthopaedics
- 12 credits from SGC /SSC
- The European Accreditation Council for Continuing Medical Education (EACCME) has granted 10 CME credits (ECMEC®s)

Evaluation guidelines

All AOCID courses apply the same evaluation process with paper and pencil questionnaires. This will help AOCID to ensure that we continue to meet your training needs.

Intellectual property



Course materials, presentations, and case studies are the intellectual property of the course faculty. All rights are reserved. Check hazards and legal restrictions on www.aofoundation.org/legal.

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden. Participants violating intellectual property will be dismissed.

The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and made available to the public.

Security

Security checks will be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, practicals, and discussion groups.

No insurance

The course organization does not take out insurance to cover any individual against accidents, thefts or other risks.

Use of mobile phones

Use of mobile phones is not allowed in the lecture rooms and in any other facilities during educational activities. Please be considerate of others by turning off your mobile phone.

Dress code

Business casual

Travel and hotels

Participants are responsible for their own travel and hotel arrangements.

Course venue

HFR cantonal hospital Fribourg
Chemin des Pensionnats 2-6, 1752 Villars-sur-Glâne
Switzerland

