Discipline MCP5866

Seminars: Critical Analysis of Research Projects Developed in the Program - I

Concentration area: 5131

Creation: 13/03/2025

Activation: 21/05/2025

Credits: 4

Workload:

Theory (weekly)	Practice (weekly)	Study (weekly)	Duration	Total
0	10	20	2 weeks	60 hours

Professors:

Roberto Kalil Filho

Ludhmila Abrahão Hajjar

Stephanie Itala Rizk

Objectives:

- Contribute to the training of researchers, helping students develop a critical sense to design, plan, present and discuss a scientific project; - Understand the concepts and applications of the main study designs; - Meet, discuss, analyze and develop the implications of research projects in various fields.

Rationale:

- The concept of translational science is based on the principle of practical implementation of knowledge acquired through research for citizens and society. The student must understand, upon admission in the graduate program, all stages of preparation of a project, from the formulation of the hypothesis, structuring, raising of funds, achievement of goals and the practical application of knowledge. - We will encourage students to present their project and ideas on the subject, preferably in English, proposing the concept of internationalization. - The teachers will evaluate the content and form of presentation, developing guidelines in partnership with students to guide the development of research.

Content:

- The discipline will be offered every semester. We will encourage students to present their project as a seminar, which shall have a duration of 15 minutes. - There will be an in-depth examination of the content and form of presentation of the project with the elaboration of a plan that should contemplate the graduate program’s period.

Type of Assessment:

- Frequency, performance and participation during lectures and discussions (the responsible teachers are present in all classes) - Presentation

Notes/Remarks:

The discipline is mandatory for all graduate students. Minimum number of students: 10 Maximum number of students: 40

Bibliography:

1. Fitzgerald GA. Testing cardiovascular safety and efficacy in randomized trials. Circ Res.2014;114:1156-61.
2. Van Luijk J, Bakker B, Rovers MM, Ritskes-Hoitinga M, de Vries RB, Leenaars M.Systematic review of animal studies; missing link in translational research. PLOS ONE.2014;26;9(3):e89981.
3. Bankhead R, Boullata J, Brantley S, Corkins M, Guenter P, Krenitsky J, Lyman Moher D1, Hopewell S, Schulz KF, Montori V, Gøtzsche PC, Devereaux PJ, Elbourne D, Egger M, Altman DG. CONSORT 2010 explanation and elaboration: updated guidelines for reporting parallel group randomised trials. BMJ. 2010 Mar 23;340:c869.
4. Briel M, Müller KF, Meerpohl JJ, von Elm E, Lang B, Motschall E, Gloy V, Lamontagne F, Schwarzer G, Bassler D; OPEN Consortium. Publication bias in animal research: a systematic review protocol. Syst Rev. 2013 Apr 27;2:23. doi: 10.1186/2046-4053-2-23.
5. Bafeta A(1), Trinquart L, Seror R, Ravaud P. Reporting of results from network meta-analyses: methodological systematic review. BMJ. 2014 Mar 11;348:g1741. doi: 10.1136/bmj.g1741.
6. Turner L(1), Shamseer L, Altman DG, Weeks L, Peters J, Kober T, Dias S, Schulz KF, Plint AC, Moher D. Consolidated standards of reporting trials (CONSORT) and the completeness of reporting of randomised controlled trials (RCTs) published in medical journals. Cochrane Database Syst Rev. 2012 Nov 14;11:MR000030. doi:10.1002/14651858.MR000030.pub2.
7. Gonzalez de Castro D(1), Clarke PA, Al-Lazikani B, Workman P. Personalized cancer medicine: molecular diagnostics, predictive biomarkers, and drug resistance. ClinPharmacolTher.2013Mar;93(3):252-9.
8. Whirl-Carrillo M, McDonagh EM, Hebert JM, Gong L, Sangkuhl K, Thorn CF, Altman RB, Klein TE. Pharmacogenomics knowledge for personalized medicine. Clin PharmacolTher.2012Oct;92(4):414-7.
9. Crews KR(1), Hicks JK, Pui CH, Relling MV, Evans WE. Pharmacogenomics and individualized medicine: translating science into practice. Clin Pharmacol Ther. 2012 Oct;92(4):467-75.
10. McCoy CE, Menchine M, Anderson C, Kollen R, Langdorf MI, Lotfipour S. Prospective Randomized Crossover Study of Simulation vs. Didactics for Teaching Medical Students the Assessment and Management of Critically Ill Patients. The JournalofEmergencyMedicine.2011;40(4):448-55.
11. Aiken LH, Sloane DM, Bruyneel L, Van den Heede K, Griffiths P, Busse R, Diomidous M, Kinnunen J, Kózka M, Lesaffre E, McHugh MD, Moreno-Casbas MT, Rafferty AM, Schwendimann R, Scott PA, Tishelman C, van Achterberg T, Sermeus W; for the RN4CAST consortium. Nurse staffing and education and hospital mortality in nine European countries: a retrospective observational study.Lancet. 2014 Feb 25. pii: S0140-6736(13)62631-8. doi: 10.1016/S0140-6736(13)62631-8. [Epub ahead of print].
12. Nigel Crisp, M.A., and Lincoln Chen. Global Supply of Health Professionals. N Engl J Med 2014;370:950-7.
13. Althunian TA, de Boer A, Groenwold RHH, Klungel OH. Defining the noninferiority margin and analysing noninferiority: An overview. Br J Clin Pharmacol. 2017 Aug;83(8):1636-1642. doi: 10.1111/bcp.13280. Epub 2017 Apr 6. PMID: 28252213; PMCID: PMC5510081.
14. Antonides CFJ, Cohen DJ, Osnabrugge RLJ. Statistical primer: a cost-effectiveness analysis. Eur J Cardiothorac Surg. 2018 Aug 1;54(2):209-213. doi: 10.1093/ejcts/ezy187. PMID: 29726940.
15. Benedetto U, Head SJ, Angelini GD, Blackstone EH. Statistical primer: propensity score matching and its alternatives. Eur J Cardiothorac Surg. 2018 Jun 1;53(6):1112-1117. doi: 10.1093/ejcts/ezy167. PMID: 29684154.
16. Haukoos JS, Lewis RJ. The Propensity Score. JAMA. 2015 Oct 20;314(15):1637-8. doi: 10.1001/jama.2015.13480. PMID: 26501539; PMCID: PMC4866501.
17. Salanti G, Ades AE, Ioannidis JP. Graphical methods and numerical summaries for presenting results from multiple-treatment meta-analysis: an overview and tutorial. J Clin Epidemiol. 2011 Feb;64(2):163-71. doi: 10.1016/j.jclinepi.2010.03.016. Epub 2010 Aug 5. PMID: 20688472.

Class type:

Non-Presencial

Additional class type information:

• The percentage of the course that will be taught remotely (1- 100%). 100%
• Details of the activities that will be taught in person and those that will be carried out remotely, with a breakdown of the time of continuous online activity. 100% non-face-to-face
• Specification of whether classes, when online, will be synchronous or asynchronous. Synchronous
• Description of the type of material and/or content that will be made available to the student and the platform that will be used. No material will be made available
• Definition of attendance at the University and, when necessary, specify who must be present (professor; student; both). No obligation to be present
• Description of the types and frequency of interaction between student and professor (only during classes; outside of class time; schedules; by chat/email/forums or other). Only during classes
• The form of monitoring attendance in classes. Roll calls during classes
• Information on whether or not students are required to have a camera and audio (microphone). Camera and audio are mandatory for students and teachers
• The method of assessing learning (in person/remote). Remote assessment based on attendance, performance and participation during classes and discussions.