

RECRUITING AND TRAINING PHYSICIANS-SCIENTISTS TO EMPOWER TRANSLATIONAL RESEARCH
A MULTILEVEL TRANSDISCIPLINARY APPROACH FOCUSED ON METHODOLOGY, ETHICS AND INTEGRITY IN
BIOMEDICAL RESEARCH - 2018-2023



RESEARCH TRAINING PROGRAM

I. General Information

Title of the research project:

How to do a systematic review and meta-analysis

Name and address of the department:

Research Center on Thromboembolic Disorders and Antithrombotic Therapies, Department of Medicine and Surgery, c/o Medicina Generale, Ospedale S. Anna, via Ravona 20, San Fermo della Battaglia (Como)

Student's supervisor:

Alessandro Squizzato

II. Description of the project

(max 1500 characters, spaces included)

Background

Modern physicians practice medicine according to available evidence. The best way to summarize published evidence is to search, pool and analyze data in a systematic way, the so-called systematic review of the literature.

What is the aim of the project?

To learn basic principles to plan and perform a systematic review according to the Cochrane Collaboration techniques (<https://www.cochrane.org>)

What techniques and methods are used?

Search on electronic database (MEDLINE, EMBASE), risk of bias assessment tools, data extraction form, met-analysis (Revman software)

When will the department start working on this project? (2020)

Type of research project:

Basic science Clinical research without lab work Clinical research with lab work

III. Student's involvement

The student will mainly observe	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
The student will observe the experiments but will be involved in data analysis	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
The student will take active part in experiments ("lab work")	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
The student will take active part in clinical examination (clinical research)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
The student will be allowed to work with patients	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
The student will be involved in the systematic review process	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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What are the tasks expected to be accomplished by the student?

The student will learn basic/advances principles to write a protocol of a systematic review, to search available literature on electronic database (MEDLINE, EMBASE), to assess the risk of bias assessment of published papers, to extract relevant data from published papers, and to meta-analysis data (including assessment of heterogeneity and publication bias)

What is expected from/what will be the general outcome of the student?

- To prepare a poster / presentation / scientific report / abstract
- The student's name will be mentioned in a future publication
- Opportunity to present together with the supervisor the results on a conference
- No specific outcome is expected

IV. Requirements

What skills are required from the student?

Ability to work in team, collaboration and communication skills, knowledge of Scientific English.

Is there any special knowledge or a certain level of studies needed?

Subjects passed:

Previous experience with:

Certificate of:

None

Are there any legal limitations in the student's involvement in the project? YES NO

If yes, what are the limitations?

For the use of students considering participating in the project, further information can be found from the following references:

(please add specific references, max 3)

<https://www.cochranelibrary.com>

<https://training.cochrane.org>

<https://training.cochrane.org/handbook>

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V. Schedule

Duration of the project:

1 month 2 months 3 months

There are approximately 2-3 hours of work per day.

Available months: ALL

January February March April May June
 July August September October November December

How many students can you accept to the project at the same time? 2

Special remarks:

(e.g., students should bring a stethoscope and a white coat, any vaccinations required, etc.)

No

NOTE: a scientific report is required at the end of the program