



# Supervisor guide

Research project

Health Sciences / Clinical Research

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## Introduction

Dear supervisor,

Thank you for your efforts in supporting and supervising our students during their research project! The research project is a major part of the master programme. Depending on their programme, our master students spend 1-2 years working on a research project, developing skills and using new-found knowledge to contribute to the scientific community.

The Health Sciences and Clinical Research master programmes are characterized by a strong emphasis on the research project. Students work on their research project over the course of their programme, culminating in a final research paper that is assessed by multiple assessors.

As supervisor, your role is to support and assess the students throughout their project. This supervisor guide gives an overview of the main tasks and responsibilities of the supervisor and the student, as well as information on the students' programmes and the place of the research project within the programme. The information is divided into several chapters, in order to make it easier to navigate.

If you have additional questions about what your role as supervisor entails, please feel free to contact the programme administration at [graduateschool@erasmusmc.nl](mailto:graduateschool@erasmusmc.nl).

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## Summary

This summary provides an overview of the most important points to keep in mind when it comes to supervising your students.

### Main tasks

- Support student during research project by providing learning opportunities and feedback.
- Assess student work at set times during research project.

### Important things to keep in mind

- The student should be provided with a workspace at your department.
- The research project has a set amount of EC, depending on the student's master programme (see overview below). Keep this in mind when discussing the scope of the research project as this should approximately be in line with the amount of EC set for the project.
- Aside from working on their research project, students are required to choose and follow a number of elective courses. As most elective courses cover a full time workload, students likely have very little time to work on their research project during the weeks they are participating in courses.

### Scope of research project

The student you are supervising over the course of their research project is either in one of the two-year research master programmes, or in the one-year Master of Science programme. Both types of programmes have similar demands, but students in the research master will spend more time on their research project than students in the one-year programme.

	<b>Programme duration</b>	<b>EC for research project</b>	<b>Previous experience</b>
<b>Research Master</b>	2 years <i>120 EC</i>	65 EC <i>1820 hours</i>	Bachelor's degree, no significant research experience
<b>Master of Science</b>	1 year <i>70 EC</i>	28 EC <i>784 hours</i>	Master's degree, previous research experience

## Research project overview

Students start their research process about halfway through their first Fall semester. They are first invited to a meeting with the associate programme director of their major of interest. In this meeting, the students discuss their research interests, and the associate programme director advises them on a possible supervisor, or for Clinical Research students, on a possible advisor. Following this meeting, it is the responsibility of the student to contact the potential supervisor/advisor to discuss the possibilities for their research project, and come to an agreement about the project. The student is required to inform NIHES once a supervisor has been found. The student can then start working on their research project.

The research project contains different components, depending on the programme the student is in. The following table shows an overview of which components are required for each programme and the approximate timeline with deadlines for each component.

	Research Master (120 EC)		MSc in Health Sciences (70 EC)	
Select supervisor	YEAR 1	1 December	YEAR 1	1 December
Research proposal + presentation		14 February		14 February
Intermediate check-in		Between May – September Deadline 30 September		<del> </del>
Midterm report	YEAR 2	December, before Christmas break	YEAR 1	15 April
End presentation		June, before handing in paper		June, before handing in paper
Research paper		1 July		1 July
Defence		July, after research paper assessment		<del> </del>

## Research project components

### Select supervisor

After the meeting between the student and the associate programme director (as discussed above), the student contacts potential supervisors in order to find a research project that suits their interests and that fits well within their programme. By discussing their options with potential supervisors, both parties come to an agreement on what the research project will look like. A number of things are important when deciding on the research project the student will be working on and who their supervisor will be:

- A supervisor needs to be a senior faculty member at Erasmus MC or Erasmus University Rotterdam with an appointment of at least 0,4 fte at Erasmus MC. Supervisors need to have considerable research experience (minimally at PhD level).
- Additionally, students can be assigned a junior (or daily) supervisor with whom they have more frequent contact and is more directly involved with supporting them

throughout the project. However, the main supervisor carries the final responsibility for the student and the assessment of their work.

- Students need to be provided with a working space at the supervisor's department.
- The scope of the project needs to match the study load (amount of EC) set for the research project – see the summary page for an overview of the study load per programme.
- During weeks when students are participating in courses, their course work takes preference over their research work. It is therefore important to plan the research work accordingly.

Once the student has found a research project and supervisor, they share this information with programme management through OSIRIS Case. The programme management will do a final check to confirm the suitability of the supervisor and research project before the student can continue working on their research proposal.

After supervisors have been assigned, students can only change supervisors with permission from NIHES.

## Research proposal

At the start of their research project, students write a research proposal. The objective of this component of the research project is to help students formulate a relevant problem and translate it into a scientific question, formulating objectives and other details necessary to properly organize and complete their research project. The student's research proposal assessment is mainly focused on providing feedback on the following components:

- objectives;
- study design;
- data collection procedure;
- data analysis procedure;
- time schedule;
- presentation and discussion.

After the students have written their research proposal, they are required to present this proposal to their supervisor and a representative of their research group. The supervisor and representative then provide feedback on the proposal through the feedback form available to students in Canvas. Using this feedback, the student adjusts their proposal and uploads the revised version to OSIRIS Case, where the supervisor assesses whether the feedback was sufficiently integrated.

The student is then assigned a second assessor who provides them with additional feedback. As assigning second assessors can take some time, the student does not have to wait until this step is completed to continue working on their research project.

Step-by-step, the research proposal is assessed as follows:

1. The student sends their research proposal to the supervisor for approval;
2. The student presents their proposal to their supervisor and a representative of their research group.

3. Following the presentation, the supervisor and the representative complete the research proposal feedback form (available to the student in Canvas).
4. The student adjusts their proposal based on the feedback and submits the final version in OSIRIS Case.
5. The supervisor assesses the integration of the feedback in OSIRIS Case.
6. A second assessor is assigned to the student, who provides additional feedback on the proposal in OSIRIS Case.

### Intermediate check-in (only required for research master students from 2024 onwards)

The intermediate check-in is a new component of the research project, and is only required for students in the two-year research master programmes. This check-in is not intended as an assessment of the student, but rather as a 'performance review' about halfway through the project to see whether everything is going well and to provide feedback on the way the student functions as a researcher.

The intermediate check-in can take place any time between May of year 1 and September of year 2, with the final deadline being 30 September. It is up to the student and supervisor to decide on the best timing to do this, also depending on the timeline of the project. Some projects may have a heavier workload at the start and a check-in can be done earlier, whereas other projects have a slower start and there may not be much to review until a bit later in time.

For the check-in, the supervisor and student will discuss the student's performance using the rubric that is used to assess the project performance at the end of the project. This way, both parties can have a good overview of which components in the rubric still need some work and which are going well. This review can then also be used to reflect back at the end of the project.

Step-by-step, the intermediate check-in is organized as follows:

1. The student schedules an appointment with the supervisor to discuss their performance.
2. The supervisor and student discuss the student's performance using the project assessment rubric, available to students in Canvas.
3. The student uploads the filled out form in OSIRIS Case. Here, students will also be asked to answer a couple of questions about how they are doing and whether there are any issues.  
*Note: the answers of the student are not shared with the supervisor and are merely used to signal any potential issues.*
4. Programme management checks all submitted forms and answers in order to signal potential issues.

### Midterm report

About midway through their research project, the student presents their research project thus far through both a presentation for their supervisor and a written report for their second

assessor. The aim of the midterm report is to ensure the student is still on the right track and that they have made sufficient progress in their research project. The midterm presentation assessment is mainly focused on providing feedback on the following components:

- objectives;
- study design;
- data collection procedure;
- data analysis procedure;
- results so far;
- potential issues;
- student performance during project;
- presentation and discussion.

The midterm presentation is assessed as follows:

1. The student writes a report detailing their progress thus far.
2. The student presents their research project thus far to the supervisor and a representative of their research group (not their second assessor).
3. Following the presentation, the supervisor and the representative complete the midterm presentation feedback form (available to the student in Canvas).
4. The student submit their progress report, presentation, and feedback form in OSIRIS Case.
5. The second assessor assesses the student's progress and provides additional feedback in OSIRIS Case.

## End presentation

At the end of your research period, the student is required to give a presentation about their research project and findings to their research department. As the end presentation takes place around the same time as the research project and paper assessment, it is not assessed separately. However, the supervisor will be asked to confirm that the student has completed their end presentation when assessing the research project. The goal for the end presentation is for the student to share the final results and conclusions of their research with fellow researchers, and to practice their presentation skills.

It is up to the student to ensure the presentation takes place before they submit their research paper for final assessment.

Note that this presentation is separate from the defence that is required of students in the two-year research master programmes.

## Research paper + project

At the end of their research project, students hand in a research paper, including all required elements for publication in an international English-language scientific journal with a good reputation in its field. As an attachment to this paper, the student is required to add an integration paragraph describing their research project and their specific role in the research,



as well as elaborating on the way the elective courses they completed contributed to their research project.

The research paper is the main product of the research project, and together with the student's performance during their project it is the only part of the research that is graded with a numerical grade.

The requirements for the research paper are as follows:

- The paper should be entirely the student's own work, despite collaborating with their supervisor and their research group. The student is expected to write all parts of the paper themselves. If the paper is submitted to a journal for publication, it is therefore likely that the draft version submitted as a thesis cannot be the same version of the paper as the one submitted to the journal.
- The paper should include all required elements for publication in an English-language scientific journal with a good reputation in its field. This includes an abstract.
- There are no set guidelines for the layout of the paper, but the student should use a consistent reference style, such as AMA or Vancouver style. The most fitting style to use will mostly depend on which style is most commonly used in the specific research field.

In the event the research project culminates in multiple papers, the student is allowed to hand in a maximum of two papers. This can only be done under the following conditions:

1. The papers are written under the guidance of the same supervisor;
2. The papers are a result of the same research project and the topics of the papers are sufficiently related;
3. The papers can be graded by the same assessors;
4. The student has permission from both their supervisor and programme management to submit two papers.

Students are also required to add an additional paragraph to their thesis, in which they discuss the integration of the courses they have followed over the course of their programme and their research. The assessment of this paragraph is included in the research paper assessment.

The research paper, project and (for Research Master students) defence are assessed as follows:

1. The student writes their draft research paper, including an integration paragraph that details the role of the student in the research process, and submits this in OSIRIS Case.
2. The supervisor is asked to assess the following in OSIRIS Case:
  - a. Confirm that, to their knowledge, the student is the sole author of the paper;
  - b. Student's performance during the research project;
  - c. The submitted research paper;
  - d. The integration paragraph;
  - e. If applicable: in the event a significant level of plagiarism is detected, the supervisor is asked to assess these issues.

3. At the same time, the second assessor is asked to assess the submitted research paper and integration paragraph.

The steps following this part, depend on the programme the student is in.

For students in the **one-year Master of Science in Health Sciences programme (70EC)**:

4. The submitted assessment is sent to one of the Associate Programme Directors for final approval, as they are appointed as examiner for the research project.

For students in the **two-year Research Master programmes (120EC)**:

4. Following the assessment by the supervisor and second assessor(s), the student's defence session takes place with all assessors present.
5. The supervisor assesses the defence in OSIRIS Case.
6. The second assessor(s) are asked to confirm the defence assessment in OSIRIS Case.
7. All components of the submitted assessment are sent to one of the Associate Programme Directors (Health Sciences) or the student's Advisor (Clinical Research) for final approval, as they are appointed as examiner for the research project.

#### PLEASE NOTE:

- The defence for Research Master students can only take place if all assessments of the research paper, project and integration paragraph have been submitted in OSIRIS Case, as these assessments should not be influenced by the defence. If the work is not assessed by 12:00 (midday) the work day before the defence, the defence will be postponed.
- In the event of a significant disagreement between the different assessors on the quality of the research paper (grade difference of 1.1 point or more), the examiner decides on a final grade that lies between the already assigned grades and replaces these grades.

## Additional information

### Personal Education Plan (PEP)

*This paragraph is only relevant for supervisors of students in the two-year research master programmes (120 EC).*

Every Research Master student is expected to make a Personal Education Programme (PEP): a document in which they plan their personal programme. The PEP covers meetings with their supervisor, planning elective courses, and research seminars, and is concluded by writing a reflection on the student's personal and professional development over the course of their study programme. The student is responsible for organising the meetings according to the PEP, for adding the summaries and for obtaining signatures from their supervisor where necessary.

As part of the PEP, students are required to attend 24 research seminars over the course of their programme. Attended research seminars must be registered in the PEP, by collecting proof of attendance or a signature of the lecturer of the research seminar. If this is not possible, it is also allowed for the supervisor or advisor to sign for a seminar. Students can download the PEP template from the NIHES General Information page in Canvas.

As part of the Personal Education Plan, students are required to write a reflection on their personal and professional development over the course of their programme. This reflection is then discussed with the supervisor, and the supervisor is asked to assess the student's ability to reflect on their development using the rubric included in the PEP.

## Portfolio

*This paragraph is only relevant for supervisors of students in the one-year Master of Science programme (70 EC).*

At the end of their programme, students are required to write a reflection on their personal and professional development over the course of their programme. This reflection is then discussed with the supervisor, and the supervisor is asked to assess the student's ability to reflect on their development using the rubric available to students in Canvas.

## Majors

The Research Master in Health Sciences and the Master of Science in Health Sciences programmes allow students to graduate from a number of majors. The majors do not include any required courses specific to the major, and are solely based on the topic of a student's research project. The major remains somewhat flexible throughout the programme, and is not definite until the student completes their research project and paper. This does not mean that the student can change majors at will, but they do have some flexibility in this. The Health Sciences programmes offer the following majors:

- Biostatistics
- Clinical Epidemiology
- Epidemiology
- Genomic & Molecular Epidemiology
- Health Decision Sciences & Technology Assessment
- Public Health Epidemiology
- Clinical Research

The student is asked to indicate their preliminary choice of major when submitting their research proposal in OSIRIS Case, and again when submitting their midterm documents. The choice of major is finalized and confirmed by one of the Associate Programme Directors during the assessment process of the final research paper.

## Elective courses

Students are able to further customize their programme by choosing elective courses that match their interests and professional needs. Elective courses are scheduled during the winter-spring semester, and during the Erasmus Summer Programme(s) in the month of August. Registration for winter-spring electives takes place during the prior fall semester, registration for elective courses in the ESP opens in spring. Students are free to choose their elective courses, bar any specific prerequisites or scheduling conflicts.

It is also possible for students to complete elective courses at other school or institutes (both within and outside of Erasmus MC), provided that they obtain permission from their supervisor and the examination board and the course is not a skills course. An additional number of requirements for external electives is available to students on the General Information Canvas page they have access to.

## Graduation

The yearly graduation ceremony is a long-standing tradition for the Health Sciences and Clinical Research programmes. An important part of the graduation day are the sessions in which supervisors give a personal address to students talking about their research work. Keep in mind that supervisors are expected to attend these sessions, which take place usually in the last week of August.

## Publication

It is important for supervisors and their student to discuss their expectations for (co-) publication of the paper at the start of the project, to avoid disputes at a later stage. Guidelines for authorship (among other things) are published in the Erasmus MC Research Code, which can be found on Agora (the Erasmus MC intranet).

If the research paper written by a student leads to a publication, the supervisor needs to make sure to mention the affiliation with the Erasmus MC Graduate School, in the acknowledgements or otherwise.

## OSIRIS Case

NIHES uses the online tool OSIRIS Case for the research assessment procedure, for all programmes and majors. All assessors (supervisors, second assessors and members of the Clinical Research Advisory Board) have to register their assessment in OSIRIS Case. In order to log into and use this tool, assessors can use their microsection number and password. OSIRIS Case sends out an email when action is required in the research assessment procedure. More information about OSIRIS Case will be send out to all assessors before first use.

## In case of conflict or other issues

We aim to provide a problem-free research period for our students. However, it is important to know what the options are in case you or the student do run into any issues.

The student's first point of contact is their supervisor, and we advise students to initially discuss any questions or problems with them. If you and your student are unable to solve your problems together, or the student has issues with their supervisor or wider research group, either the supervisor or the student can contact the programme coordinator as they will be able to help out further. The programme coordinator can consult the (associate) programme director when necessary.

Note that a confidential counsellor is available, that students can turn to when confronted by behaviour or circumstances they experience as unwanted, such as (but not limited to) aggression and/or violence, (sexual) intimidation, bullying, discrimination, stalking, or unequal treatment. Information shared with the confidential counsellor is confidential and will not be shared with others without explicit permission.

Contact information for the programme coordinator, as well as the confidential counsellor, can be found on STiP, or contact [graduateschool@erasmusmc.nl](mailto:graduateschool@erasmusmc.nl). Please do not hesitate to contact us, as we are here to help our students succeed! Additional resources with regard to support for students can be found on STiP as well, such as contact information for the study advisors.