

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



FONDAZIONE  
MONDINO  
Istituto Neurologico Nazionale  
a Carattere Scientifico (IRCCS)

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## RESEARCH TRAINING PROGRAM

### I. General Information

***Title of the research project:***

Morbidity of Hysterectomy: MoHYST Project

***Name and address of the department:***

Department of Gynecology and Obstetrics, Filippo Del Ponte Hospital

***Student's supervisor:***

Dr. Jvan Casarin

### II. Description of the project

Background: Hysterectomy is the most common non-obstetric gynecologic surgical procedure. Over the last decades minimally invasive surgery has progressively replaced open surgery for a large variety of treatments, including hysterectomy. Different retrospective case series investigated the risk factors for surgical complications following hysterectomy, however few prospective studies are available, at present.

*What is the aim of the project?*

1. To report surgical morbidity of hysterectomy within centers belonging to the SEGI network.
2. To identify risk factors of intraoperative and postoperative complications of hysterectomy for benign disease.
3. To develop predictive models for major postoperative complications following hysterectomy

*What techniques and methods are used?*

1. A specific web database will be provided to all participant centers to prospectively collect data about consecutive hysterectomy performed for benign indication
2. Demographic data such as baseline patients' characteristics and comorbidities will be collected
3. Surgical approach will be reported
4. Perioperative data and postoperative events will be recorded, with a specific focus on complications.
5. Predictive models will be developed for major postoperative complications.

*When did the department start working on this project? (year)*

Starting from: September 2023

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*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  YES  NO
- The student will observe the experiments but will be involved in data analysis  YES  NO
- The student will take active part in experiments ("lab work")  YES  NO
- The student will take active part in clinical examination (clinical research)  YES  NO
- The student will be allowed to work with patients  YES  NO

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

The student will be intensively involved in the project during a 12 months' period.  
He/She will draft a web-based dataset to collect data of patients undergoing surgery (hysterectomy) in the centers which will take part in the project. It is expected to drive connections with the coordinators of the different institutions involved.  
He/she will be responsible for the preliminary analysis related to the surgical complications of hysterectomy, such as descriptive statistics and univariate analysis. Moreover, the student will take part to the 6-months ad-interim analysis to develop a draft of the predictive models as previously reported. The results are expected to be presented at the next national conference of the Italian society of gynecologic endoscopy (SEGI).

*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

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#### IV. Requirements

*What skills are required from the student?*

The student must have attended the Gynecology and Obstetrics classes and passed the final exam. He/She must also possess autonomy in using the main search engines of the scientific literature.

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

Subjects passed:

Gynecology and Obstetrics

Previous experience with:

\_\_\_\_\_

Certificate of:

\_\_\_\_\_

None

*Are there any legal limitatons in the student's involvement in the project?*

YES  NO

If yes, what are the limitations?

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

Prof. Fabio Ghezzi

Dr. Jvan Casarin

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#### V. Schedule

*Duration of the project:*

1 month  2 months  3 months

*There are approximately 2 hours of work per day.*

*Available months:*

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? 1*

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*Special remarks:*

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

There are no special remarks

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