



Clinical Trial Unit - Formazione

Ethical Issues in Biomedical Research

Monday, November 28th, 2022

Room A1.03 Campus EST USI

From 08:30 AM to 16:00 PM

Teachers:

PD Dr. Marta **Fadda**, Lecturer of Bioethics, Faculty of Biomedical Sciences, Università della Svizzera italiana, Lugano

Dr. Pietro **Gervasoni**, Managing Director of Swissethics, Bern

Prof. Silvio **Garattini**, President and Founder of Mario Negri Institute, Milan

Tamara **Kohler**, Swiss Clinical Trial Organization

Dr. Valter **Torri**, Head of Laboratory, Mario Negri Institute, Milan

Dr. Rita **Banzi**, Center for Health Regulatory Policies, Mario Negri Institute, Milan

Objectives:

The increasing knowledge in molecular biology and the development of the techniques for the evaluation of the biological processes and of their interaction have brought about, in preclinical and clinical research, what is called precision medicine, to select the treatment that works best for an individual.

The development of new therapeutic approaches raises many ethical issues, of which investigators' also and in particular at the preclinical level, should be aware of and take into consideration in their decisions and activities.

The objectives of this course are to increase this awareness of the ethical issues and of their potential impact in the selection and preclinical evaluation of new molecules, in the decision making process, in the care of patients and in the social environment.

In particular,

- in the active involvement of patients already at the beginning of the clinical project;
- in the planning and modalities of activation of clinical studies;
- in the selection of treatment, relationship and care of patients;
- in the collection of data and biological tissues;
- in the analysis, report, publication and sharing of data and results;
- in the registration, selling and marketing of therapeutic compounds in Europe;
- in the new aspects of biomedical research involving tissue cultures and human embryos.

ETHICAL ISSUES PROGRAM – November 28th, 2022

TIME	TITLE	CONTENT	TEACHER
8h30-8h45 15'	Welcome and Introduction		<i>Prof. Dr. med. Dr phil. med. Alain Kaelin</i>
8h45-9h30 45'	Introduction to biomedical research ethics	<ol style="list-style-type: none"> The core ethical principles of biomedical research A preliminary understanding of the ethical and social justice issues in various aspects of biomedical research A structured/systematic ethical analysis to real-world challenges in research 	<i>PD Dr. Marta Fadda</i>
9h30-10h15 45'	Ethics in human research	<ol style="list-style-type: none"> Basic: <ul style="list-style-type: none"> Ethics and law Ethical committees Ethical requirements Consent: <ul style="list-style-type: none"> Informed consent General consent Comprehensibility Biobanks Current challenges <ul style="list-style-type: none"> Data sharing Digitalisation Genetics Personalised medicine Artificial intelligence 	<i>Dr. Pietro Gervasoni</i>
10h15-10h30			
10h30-11h15 90'	Clinical research is not scientific if it is not ethical	<ol style="list-style-type: none"> Preclinical research Clinical research <ul style="list-style-type: none"> Controlled clinical trials 	<i>Prof. Silvio Garattini</i>
12h00-13h00			
LUNCH BREAK			
13h00-13h45 45'	The ethics of patient and public involvement (PPI) in academic clinical research	<ol style="list-style-type: none"> The concept of PPI Ethical considerations why patients and the public should be involved in academic clinical research. Ethical principles in the performance of PPI 	<i>Mrs. Tamara Kohler</i>
13h45-14h30 45'	Ethical issues in the statistical analysis of clinical trials	<p>Ethical implications of statistical planning and analysis in clinical experimentation, focus on:</p> <ol style="list-style-type: none"> Key statistical aspects of design (randomization, choice of control group, use of placebo, type of comparison); Statistical analysis (interim analysis, multiple tests, reporting of results). 	<i>Dr. Valter Torri</i>
14h30-14h45			
BREAK			
14h45-15h30 45'	Ethical issues in drug approval and marketing at the European level	<ol style="list-style-type: none"> Overview of the role and responsibilities of the European Medicines Agency Ethical aspects in drug development and assessment (i.e., issues in pivotal trials and evaluation criteria) Ethical issues and accountability (i.e., financing, transparency and data sharing, communication and engagement with the public) 	<i>Dr. Rita Banzi</i>
15h30-16h00 30'	General discussion with all participants		<i>All</i>
16h00-16h30 30'	Summary		<i>All</i>