









Rome Technopole

Starting date: 1st July 2022 Ending date: 30th June 2025

Loredana Le Pera Istituto Superiore di Sanità (ISS)





SPOKE3











Rome Technopole

Approach to the medical device sector: Regulatory, Technical, and Practical aspects

Notified Body experts
ON ISS - Responsible: Dr. Roberta Marcoaldi

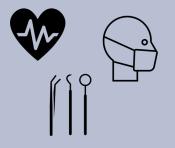












A SMALL GUIDE TO THE WIDE WORLD OF MEDICAL DEVICES



Medical Devices

any instru

any instrument, apparatus, appliance, software, implant, reagent, material or other article intended by the manufacturer to be **used for therapeutic purposes**

Organisers

Istituto Superiore di Sanità - Notified Body experts

Aim

→

present **basic notions and knowledge** concerning regulatory and productive issues related to production, safety, and clinical usage of medical devices









COURSE TYPE

interactive learning sessions with a final assessment

COURSE LENGTH

16 hours in 9 lessons + 2 hours for the final questionnaire

TARGET AUDIENCE



20/25 PhD students from Rome Technopole

HOW DOES IT WORK?



on-line lessons

WHO IS GOING TO TEACH?



6 teachers from the Notified Body – ISS











COURSE STRUCTURE

PART I: regolatory issues

- Medical Devices: definitions, players, roles, evaluation of conformity
- Classification: destination, rules, risk evaluation
- Quality management, technical rules, specifications, and interpretations

PART II: quality issues

- Quality system: technical documentation
- Performance, safety and risk evaluation
- Audit activity

PART III: technical issues

- Sterilization
- **Preclinical tests**: stability, challenge test, biocompatibility, etc.
- Clinical evaluation: and after market follow up

PART IV: assessment questionnaire













Rome Technopole

The role of artificial intelligence in diagnostic imaging

Rossella Canese, Franca Moretti, Loredana Le Pera, Luisa Minghetti, Maurizio Mattia











European Infrastructures involved

EBRAINS

















The role of artificial intelligence in diagnostic imaging

Area: Health & Bio-Pharma

Type: one-day in-person course

Target audience: - PhD students

- specialisation schools students

- young researchers

Mainly aimed at physicists, biomedical engineers and radiologists

Maximum number of students: 40

Date: second half of October











The role of artificial intelligence in diagnostic imaging



Course content

- Introduction (including Explainable AI, digital twins and possible applications in medical physics)
- Machine Learning as a support for oncological diagnosis
- Machine Learning applied to the study of the brain
- from Machine learning to Deep Learning: new research areas and regulatory aspects









Approach to the medical device sector: Regulatory, Technical, and Practical aspects *March - April 2024*

The role of artificial intelligence in diagnostic imaging

October 2024



Serena Camerini, Rossella Canese, Franco Cardone, Guido Gigante, Paola Laricchiuta, Loredana Le Pera, Maurizio Mattia, Luisa Minghetti, Elisabetta Pizzi