

RESEARCH PROJECT

Name of Institution and Department:

Division of Radiology, European Institute of Oncology (IEO IRCCS)

Link to Website:

www.ieo.it

City and Country of Institution:

Milan, Italy

RESEARCH GROUP

Brief Description of the Research Group and Its Mission:

The Division of Radiology is dedicated to oncologic imaging, with a particular focus on cancer diagnosis, staging, treatment planning, and response assessment. The group has extensive expertise in advanced imaging techniques, including Magnetic Resonance Imaging (MRI),

Whole-Body MRI (WB-MRI), multiparametric MRI, and imaging-based research projects aimed at improving personalised cancer management.

TITLE OF THE PROPOSED RESEARCH PROJECT

Evaluation of Whole-Body Magnetic Resonance Imaging (WB-MRI) for Systemic Staging and

Treatment Decision Impact in Patients with Unfavourable Intermediate- and High-Risk Prostate

Cancer: The All-in-One MRI Study

OBJECTIVES

- To gain expertise in the interpretation of Whole-Body MRI examinations for systemic staging of prostate cancer, including detection and characterisation of lymph node, bone, and visceral metastases.

- To evaluate the diagnostic performance of WB-MRI compared with conventional imaging (CT and bone scintigraphy) for metastatic disease detection in patients with newly diagnosed unfavourable intermediate- and high-risk prostate cancer.
- To assess the clinical impact of WB-MRI findings on multidisciplinary decision-making and treatment strategy selection.

APPLICANT'S DUTIES

- Participation in scientific activities related to the project, including data analysis, preparation of abstracts, conference presentations, and scientific publications.
- Attendance at multidisciplinary team (MDT) meetings dedicated to prostate cancer staging and treatment planning.
- Participation in radiological case review sessions, educational meetings, and research activities focused on advanced oncologic imaging.
- Contribution to imaging data collection, image interpretation, and research-related activities under supervision of the project team.

APPLICANT'S BENEFITS

- Access to the facilities, imaging platforms, and research infrastructure of the Division of Radiology for research purposes.
- Participation in multidisciplinary clinical and research activities focused on oncologic imaging and advanced MRI techniques.
- Access to institutional facilities and common areas.
- Opportunity to contribute to scientific publications and presentations at national and international conferences.

PROJECT TEAM

Project Leader:

Prof. Giuseppe Petralia, MD

Project Members:

Cristiano Michele Girlando MD