


XXXII CONGRESSO NAZIONALE AIRO
XXXIII CONGRESSO NAZIONALE AIRB
XII CONGRESSO NAZIONALE AIRO GIOVANI

AIRO2022

Radioterapia di precisione per un'oncologia innovativa e sostenibile

BOLOGNA, 25-27 NOVEMBRE
PALAZZO DEI CONGRESSI

 Associazione Italiana
Radioterapia e Oncologia clinica

 Società Italiana di Radiobiologia

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NUTRITIONAL AND INFLAMMATORY STATUS AS PREDICTIVE BIOMARKERS IN OLIGORECURRENT PCA

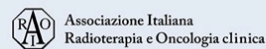
The RADIOSA TRIAL biology task

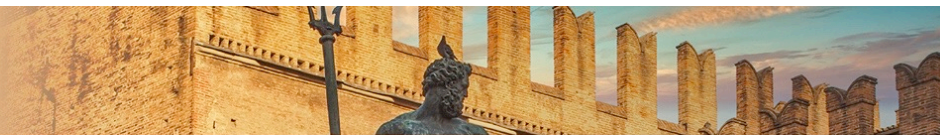
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IEO, European Institute of oncology, IRCSS, Milan, Italy



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DI MILANO





DICHIARAZIONE

Relatore: MATTIA ZAFFARONI

Come da nuova regolamentazione della Commissione Nazionale per la Formazione Continua del Ministero della Salute, è richiesta la trasparenza delle fonti di finanziamento e dei rapporti con soggetti portatori di interessi commerciali in campo sanitario.

- Posizione di dipendente in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Consulenza ad aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Fondi per la ricerca da aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Partecipazione ad Advisory Board **(NIENTE DA DICHIARARE)**
- Titolarità di brevetti in compartecipazione ad aziende con interessi commerciali in campo **(NIENTE DA DICHIARARE)**
- Partecipazioni azionarie in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**

Background & methods

STUDY PROTOCOL

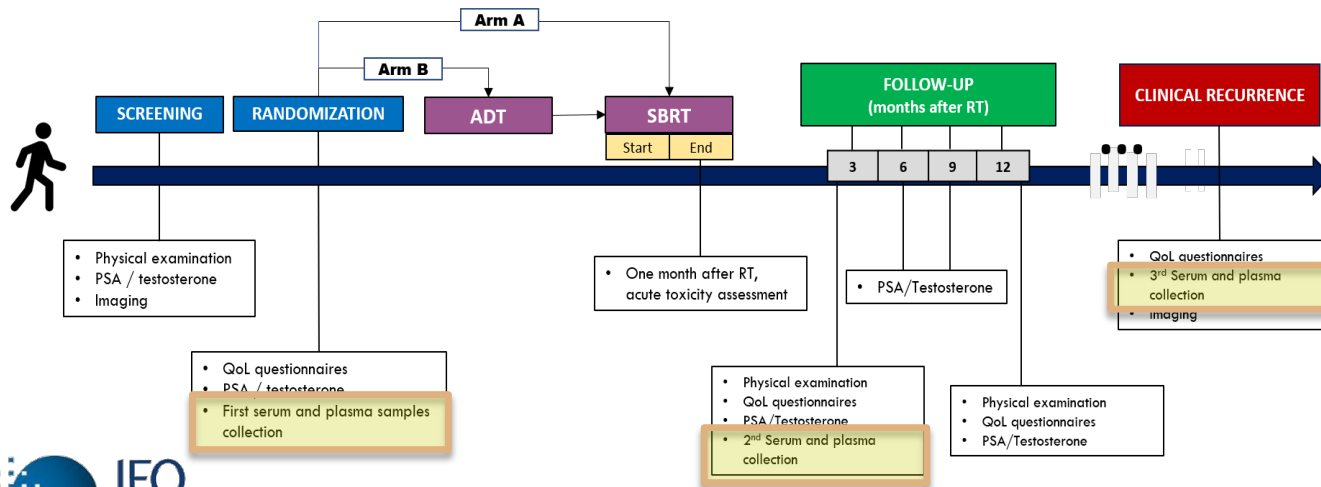
Radioablation +/- hormone therapy for prostate cancer oligorecurrences (Radiosa trial): potential of imaging and biology (AIRC IG-22159)

Marvaso et al. *BMC Cancer* (2019) 19:903
<https://doi.org/10.1186/s12885-019-6117-z>

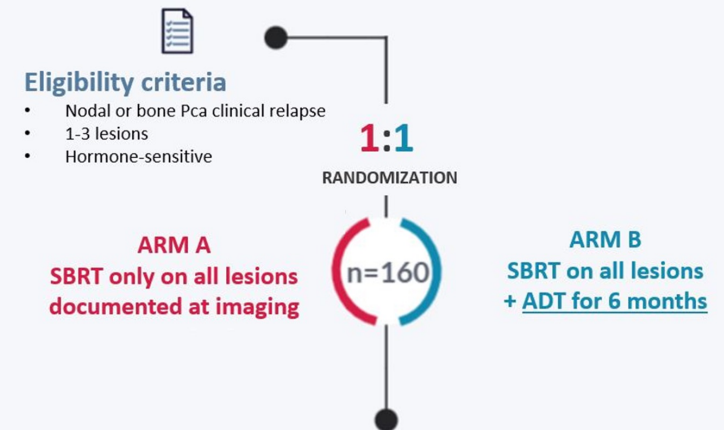
AIMS:

I. Compare SBRT +/- ADT for oligorecurrent-castration-sensitive PCa (OCS-PCa) in terms of efficacy, toxicity and Quality of Life (QoL).

II. Develop biology/imaging based prognostic tool to identify OCS-PCa subclasses.



STUDY DESIGN



Eligibility criteria

- Nodal or bone Pca clinical relapse
- 1-3 lesions
- Hormone-sensitive

Primary endpoint:

- Progression-free survival

Secondary endpoints:

- Overall survival
- Biochemical progression-free survival
- ADT-free survival
- Local control
- Toxicity
- Time to castration-resistant disease
- Quality of life
- Identification of prognostic biomarkers
- Correlation between imaging-derived parameters and treatments outcome

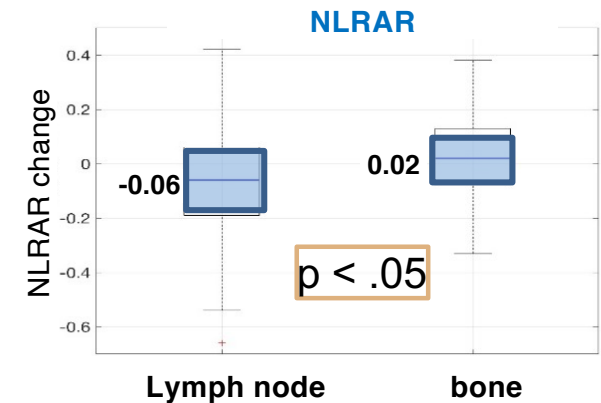
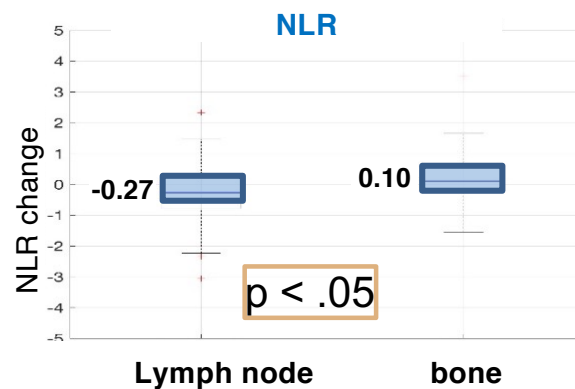
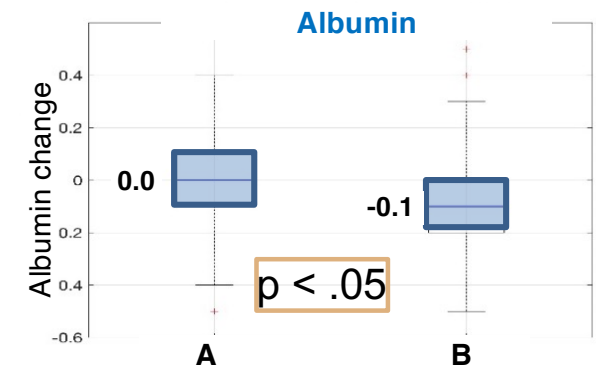
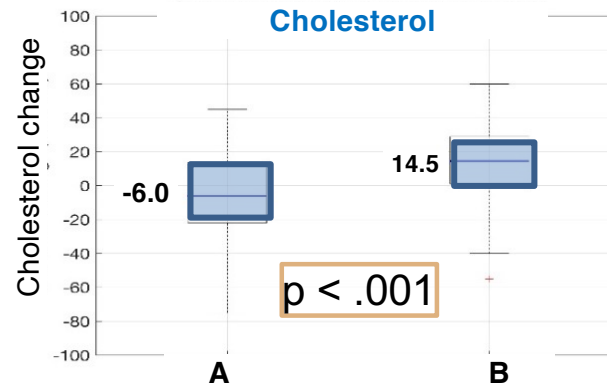


Results

Enrollment ongoing

81 patients (41 arm A SBRT only, 40 arm B, SBRT+ADT) with a minimum **follow-up of 3 months**

- Patients stratified by **ADT administration** → cholesterol values showed an increasing trend in the group receiving, and the change in albumin level was also different between the 2 groups.
- patients stratified by **site of metastases** (52 lymph nodal, 29 bone localizations) → the values of NLR and NLRAR were found to be increased in patients with bone localizations ($p < .05$).



Long-Term Outcomes and Genetic Predictors of Response to Metastasis-Directed Therapy Versus Observation in Oligometastatic Prostate Cancer: Analysis of STOMP and ORIOLE Trials

Matthew P. Deek, MD^{1,2}, Kim Van der Eecken, MD, PhD³, Philip Sutera, MD², Rebecca A. Deek, MS¹, Valerie Fonteyne, MD, PhD¹, Adriana A. Mendes, MD², Karel Decaestecker, MD, PhD³, Ana Ponce Kissa, MD, PhD¹, Nicolas Lumen, MD, PhD¹, Ryan Phillips, MD, PhD², Aurélie De Bruycker, MD², Mark Mishra, MD², Zaker Rana, MD², Jason Moltoris, MD, PhD¹, Bieke Lambert, MD², Louke Detsue, MD¹, Hailun Wang, PhD², Kathryn Lowe, BS², Sofie Verbeke, MD, PhD^{1,2}, Jo Van Dorpe, MD, PhD¹, Renée Bultjink, PhD², Geert Willers, MD², Kathia De Man, MD¹, Filip Ameye, MD¹, Daniel Y. Song, MD², Theodore DeWesse, MD², Channing J. Paller, MD², Felix Y. Feng, MD¹, Alexander Wyatt, PhD¹, Kenneth J. Pienta, MD^{1,2}, Maximilian Diehn, MD, PhD¹, Sven M. Bentzen, PhD, DMSc^{2,3}, Steven Joniau, MD, PhD¹, Friedl Vanhaverebeke, MD², Gert De Meerleer, MD², Emmanuel S. Antonarakis, MD², Tamara L. Lotan, MD², Alejandro Berlin, MD², Shankar Siva, MD, PhD², Piet Ost, MD, PhD^{2,3}, and Phuoc T. Tran, MD, PhD^{2,3,11,12}

J Clin Oncol 00. © 2022 by American Society of Clinical Oncology

NOW

Search for high-risk mutations

Conclusions

- The addition of ADT appears to have an impact on changes in **cholesterol and albumin**, two markers of a deteriorating QoL.
- Site of metastatic localization and **inflammatory status** appear associated. As bone localizations are linked to a lower response rate than lymph node-only sites, this outcome is consistent with the well-known fact that a higher inflammatory status results in a worse prognosis.
- Examined parameters seem to represent **intriguing candidates to be possibly used in clinical decision-making** to group patients according to whether they would benefit from more less aggressive therapies.
- The validation of these potential biomarkers requires further evaluations, correlations with clinical outcomes and extended follow-up data.

Biological characterization of oligometastatic state **crucial to avoid under- or over-treatment**

While the understanding of the genetic, signaling and immunologic biology is expanding, **search for biomarkers should continue to be pursued** in conjunction

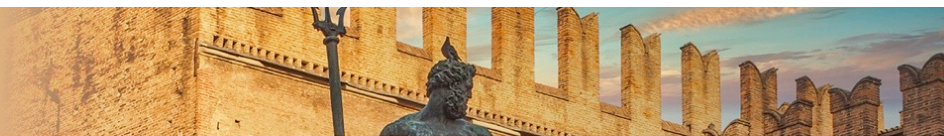
RADIOSA TRIAL ongoing
 Hope to **contribute to the identification** of reliable **biological signatures** and **foster the correct patient stratification** and **complement the imaging information**.



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THANK YOU FOR LISTENING



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