

First case of ^{18}F -FACBC PET/CT-guided salvage radiotherapy for local relapse after radical prostatectomy with negative ^{11}C -Choline PET/CT and multiparametric MRI: New imaging techniques may improve patient selection

Eugenio Brunocilla¹, Riccardo Schiavina¹, Cristina Nanni², Marco Borghesi¹, Matteo Cevenini¹, Enrico Molinaroli¹, Valerio Vagnoni¹, Paolo Castellucci², Francesco Ceci², Stefano Fanti², Caterina Gaudiano³, Rita Golfieri³, Giuseppe Martorana¹

¹ Department of Urology, University of Bologna, S. Orsola-Malpighi Hospital, Bologna, Italy;

² Department of Nuclear Medicine, University of Bologna, S. Orsola-Malpighi Hospital, Bologna, Italy;

³ Department of Radiology, S. Orsola-Malpighi Hospital, Bologna, Italy.

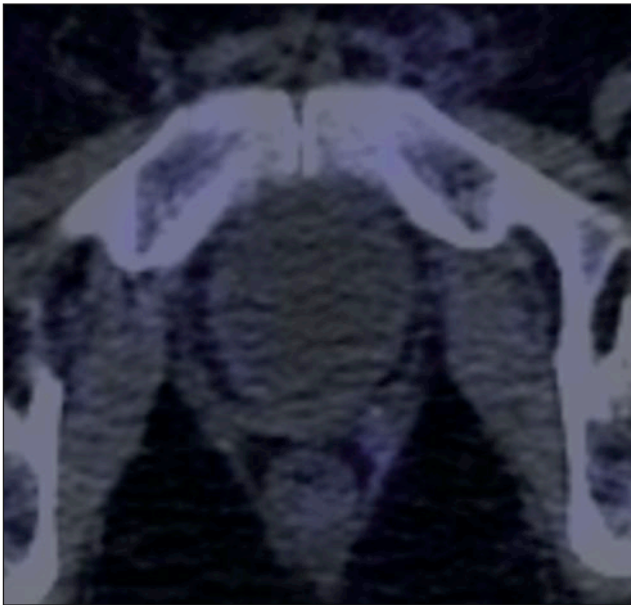


Figure 1.
 ^{11}C -Choline PET/CT showing the bladder and the prostatic fossa with no evident positive uptake.

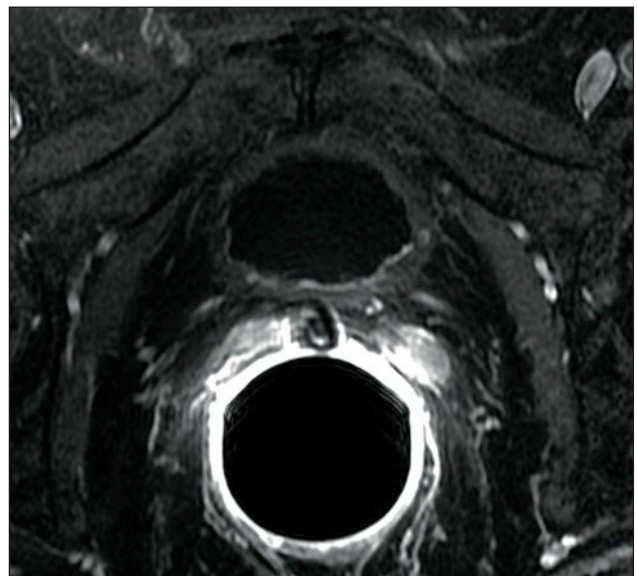


Figure 2.
T2-weighted MRI (1,5 Tesla) with endorectal coils showing the absence of suspected lesion.

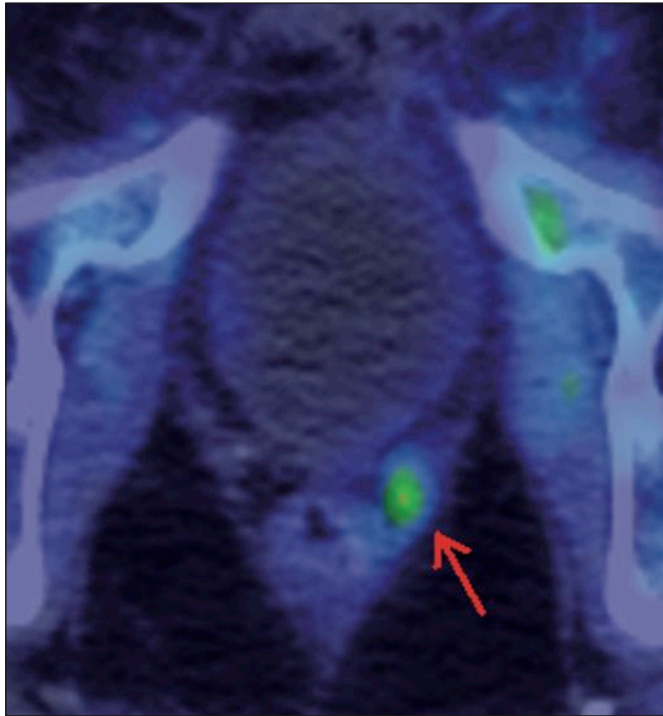


Figure 3.
18F-FACBC PET/CT showing the presence of positive uptake (SUVmax: 4.1) in the left prostatic fossa (red arrow) suspected for disease relapse. The ultrasound-guided biopsy confirmed the presence of PCa relapse in this location.