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

Eugenio Brunocilla 1, Riccardo Schiavina 1, Cristina Nanni 2, Marco Borghesi 1, Matteo Cevenini 1, Enrico Molinaroli 1, Valerio Vagnoni 1, Paolo Castellucci 2, Francesco Ceci 2, Stefano Fanti 2, Caterina Gaudiano 3, Rita Golferi 3, Giuseppe Martorana 1

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.**
11C-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.