

Supplementary Data

Table 2 Comparison of uptake and contrast in ^{68}Ga -PSMA-PET/CT and ^{18}F -fluoromethylcholine-PET/CT

SUV _{max} in tumor suspicious lesions	significantly higher SUV _{max} in ^{68}Ga -PSMA-PET/CT	significantly higher SUV _{max} in ^{18}F -fluorocholine-PET/CT	without significant difference between ^{68}Ga -PSMA-PET/CT and ^{18}F -fluorocholine-PET/CT
Lymph node metastases (n=40)	n=38 (95%)	n=1 (2.5%)	n=1 (2.5%)
Bone metastases (n=23)	n=17 (73.9%)	n=6 (26.1%)	n=0
Local relapses (n=10)	n=6 (60%)	n=2 (20%)	n=2 (20%)
Soft tissue metastases (n=5)	n=2 (40%)	n=3 (60%)	n=0
Ratio between SUV _{max} of tumor lesions and SUV _{max} of background	significantly higher ratio in ^{68}Ga -PSMA-PET/CT	significantly higher ratio in ^{18}F -fluorocholine-PET/CT	without significant difference between ^{68}Ga -PSMA-PET/CT and ^{18}F -fluorocholine-PET/CT
Lymph node metastases (n=40)	n=40 (100%)	n=0	n=0
Bone metastases (n=23)	n=21 (91.3%)	n=2 (8.7)	n=0
Local relapses (n=10)	n=9 (90%)	n=0	n=1 (10%)
Soft tissue metastases (n=5)	n=3 (60%)	n=0	n=2 (40%)