

Table 1 Baseline characteristics of 138 study subjects.

Characteristic	Value
Age (y)	
Mean \pm SD	69.77 \pm 7.54
Range	55 – 87
Grade group	
1	46 (33.3%)
2	39 (28.3%)
3	30 (21.7%)
4	12 (8.7%)
5	11 (8%)
D'Amico risk	
Low	24 (17.4%)
Intermediate	38 (27.5%)
High	76 (55.1%)
Primary treatment	
Surgery	48 (34.8%)
Radiotherapy	60 (43.5%)
Both	30 (21.7%)
PSA closest to PET/CTs (ng/ml)	
Mean \pm SD	2.80 \pm 4.83
PSA \leq 1	46 (33.4%)
1 < PSA \leq 2	17 (12.3%)
PSA > 2	75 (54.3%)
PSAdt (month)	
Mean \pm SD	7.34 \pm 11.74
\leq 6	73 (52.9%)
> 6	65 (47.1%)
PSAvel (ng/ml/month)	
Mean \pm SD	0.26 \pm 0.68
\geq 0.2	45 (32.6%)
< 0.2	93 (67.4%)
Biochemical relapse	
First	100 (72.5%)
Second or further	38 (27.5%)

PSA: prostate specific antigen; SD: standard deviation; PSAdt: PSA doubling time, PSAvel: PSA velocity.

Table 2 Per patient miTNM obtained from 18F-DCFPyL and 18F-Fluorocholine. PET/CT.

		18F-DCFPyL		
		(+)	(-)	Total
T	(+)	20	7	27
	(-)	26	85	111
	Total	46	92	138
N1	(+)	4	8	12
	(-)	15	111	126
	Total	19	119	138
N2	(+)	4	2	6
	(-)	14	118	132
	Total	18	120	138
M1a	(+)	2	1	3
	(-)	14	121	135
	Total	16	122	138
M1b	(+)	5	2	7
	(-)	16	115	131
	Total	21	117	138
M1c	(+)	2	0	2
	(-)	3	133	136
	Total	5	133	138

T: local recurrence; N1: single lymph node region; N2: multiple lymph node regions (≥ 2); M1a: extrapelvic lymph nodes; M1b: bone involvement; M1c: other sites.

Table 3 Concordance between 18F-DCFPyL and 18F-Fluorocholine miTNM stages.

miTNM	Kappa (p value)
T	k = 0.403 (p<0.001)
N1	k = 0.143 (p = 0.086)
N2	k = 0.287 (p<0.001)
M1a	k = 0.181 (p = 0.003)
M1b	k = 0.304 (p<0.001)
M1c	k = 0.562 (p<0.001)

miTNM: molecular imaging TNM, k: kappa.

Table 4 PSA, PSAdt and PSAvel (mean \pm SD) in miTNM comparison of 18F-DCFPyL and 18F-Fluorocholine.

		18F-Fluorocholine	18F-DCFPyL
PSA (ng/ml)	T	3.95 \pm 1.92	3.17 \pm 2.16
	N	2.68 \pm 2.10	2.25 \pm 2.14
	M	2.73 \pm 1.86	4.63 \pm 8.67
PSAdt (months)	T	5.07 \pm 12.13	7.56 \pm 10.83
	N	6.13 \pm 4.23	5.87 \pm 3.51
	M	9.32 \pm 18.42	7.34 \pm 11.20
PSAvel (ng/ml/month)	T	0.45 \pm 0.79	0.23 \pm 0.36
	N	0.28 \pm 0.23	0.18 \pm 0.15
	M	0.34 \pm 0.44	0.56 \pm 1.19