

## Supplementary files

Supplementary Table S1

Administrated activity of  $^{177}\text{Lu}$ - and  $^{225}\text{Ac}$ -PSMA for each individual patient

Cycles PSMA – RLT activity	1		2		3		4		5		6	
	$^{177}\text{Lu}$	$^{225}\text{Ac}$	$^{177}\text{Lu}$	$^{225}\text{Ac}$	$^{177}\text{Lu}$	$^{225}\text{Ac}$	$^{177}\text{Lu}$	$^{225}\text{Ac}$	$^{177}\text{Lu}$	$^{225}\text{Ac}$	$^{177}\text{Lu}$	$^{225}\text{Ac}$
Patient 1	8.5		7.4									
Patient 2	7.4		7.4		7.3							
Patient 3	7.5		7.5		7.4							
Patient 4	7.4		6.9		6.9		7.0					
Patient 5	7.4		7.4									
Patient 6	3.1		6.1		6.2							
Patient 7	3.1		6									
Patient 8	3		6									
Patient 9	6.2		6.2									
Patient 10	3.1		6									
Patient 11	8.5		7.4									
Patient 12	6.6		5.7		7.4		7.3		7.2*	6.0*	7.3*	6.0*
Patient 13	3		5.9									
Patient 14	3		6		7.3							
Patient 15	3		6									
Patient 16	3.1		6									
Patient 17	3		6									
Patient 18	5.6	2.4	5.3	1.3		2.2	7.4		7.4		6.2*	6.1*
Patient 19	6.3		5.8		7.3							
Patient 20	3		4.9									

\*Indicates cycles in which the radioligand label PSMA-I&T was utilized, for the remaining cycles PSMA-617 was applied.