

Supportive Data for Table 4: Semiquantitative Evaluation of <sup>68</sup> Ga-PSMA-HBED-CC PET/CT (SUV <sub>max</sub> -Values)																
Patient		Prostate	Skeletal metastases								Lymph node metastases				Visceral metastases	
			S1	S2	S3	S4	S5	S6	S7	S8	LN1	LN2	LN3	LN4		
1	Baseline	/	14.3	19.8	14	8.9	12.2	5.2	/	/	21.4	21.4	6.7	/	/	/
	After 2 Cycles	/	25.3	14.9	13.3	5.8	9.1	3.5	/	/	2.7	2.6	4.7	/	/	/
	After 3 Cycles	/	23.8	7.1	8.2	9.1	7.2	3.3	/	/	9.4	8.6	5.8	/	/	/
	Dose (Gy/GBq)	/	/	/	/	/	1.2	/	/	/	/	/	/	/	/	/
2	Baseline	/	13.2	9.7	38.3	32.1	21.6	24.1	11.7	/	/	/	/	/	/	/
	After 2 Cycles	/	1.1	2.3	30.8	8.1	7.9	3.1	5.5	/	/	/	/	/	/	/
	After 3 Cycles	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Dose (Gy/GBq)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	Baseline	/	14.6	14.5	21.0	20.2	18.2	20.2	/	/	22	20.2	29	12.3	/	/
	After 2 Cycles	/	7.7	13.1	14.4	13.2	8.3	9.3	/	/	5.5	2.8	8	2.1	/	/
	After 3 Cycles	/	13.3	19.2	13.9	8.9	5.3	11.2	/	/	2.7	2.7	3.9	2.5	/	/
	Dose (Gy/GBq)	/	/	4.0	/	/	/	/	/	/	/	/	/	/	/	/
4	Baseline	21.6	8.9	7.1	11.6	10.1	19.5	4.8	2	7.6	/	/	/	/	/	/
	After 2 Cycles	7.4	2.9	2.3	17.8	2.3	6.4	2.5	7.5	1.5	/	/	/	/	/	/
	After 3 Cycles	7.4	1.4	1.7	23.2	1.7	3.8	1.7	7.2	3.2	/	/	/	/	/	/
	Dose (Gy/GBq)	/	2.4	/	/	2.2	/	/	/	/	/	/	/	/	/	/
5	Baseline	14.8	15	13.4	6	6	7.6	/	/	/	4.1	/	/	/	/	/
	After 2 Cycles	5.9	6.4	8.5	5.2	3.8	4	/	/	/	1.2	/	/	/	/	/
	After 3 Cycles	5.8	8.7	6.3	6.7	2.3	3	/	/	/	1.1	/	/	/	/	/
	Dose (Gy/GBq)	/	5.9	/	/	/	/	/	/	/	/	/	/	/	/	/
6	Baseline	/	25.5	27.7	/	/	/	37.9	/	/	16	/	/	/	32.3	24.8
	After 2 Cycles	/	24.1	30.5	/	/	/	32	/	/	21.8	/	/	/	40.5	28.0
	After 3 Cycles	/	21.9	20.4	/	/	/	23.9	/	/	22.5	/	/	/	24.7	24.7

	Dose (Gy/GBq)	/	/	1.7	/	/	/	2.9	/	/	/	/	/	/	/	/
7	Baseline	/	17.7	30.6	32.6	29.7	/	/	/	/	/	/	/	/	16.9	/
	After 2 Cycles	/	8	14	28.6	24.7	/	/	/	/	/	/	/	/	12.2	/
	After 3 Cycles	/	5.7	13.1	24.7	12.9	/	/	/	/	/	/	/	/	14.6	/
	Dose (Gy/GBq)	/	7.5	/	/	7.5	/	/	/	/	/	/	/	/	3.3	/
8	Baseline	13.3	13.4	7.4	10.8	7.6	11.6	11.2	7.9	/	/	/	/	/	/	/
	After 2 Cycles	8.9	8.4	16.4	11.9	17	9.8	15.6	10.4	/	/	/	/	/	/	/
	After 3 Cycles	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Dose (Gy/GBq)	/	/	2.6	/	2.5	/	9.7	/	/	/	/	/	/	/	/
9	Baseline	34.8	36.9	31.5	19.8	27.5	/	/	/	/	/	/	/	/	16.7	31.5
	After 2 Cycles	12.2	26.7	9.8	11.8	14.2	/	/	/	/	/	/	/	/	15.3	20.2
	After 3 Cycles	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Dose (Gy/GBq)	/	/	1.1	/	/	/	/	/	/	/	/	/	/	/	2.4
10	Baseline	/	21.5	74.4	33.6	13.1	/	/	/	/	24.2	26.7	26.7	8.1	/	/
	After 2 Cycles	/	24.6	48.3	36.9	16.5	/	/	/	/	12.4	16.7	14.6	6.2	/	/
	After 3 Cycles	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Dose (Gy/GBq)	/	/	/	/	2.8	/	/	/	/	2.3	/	/	/	/	/