

Supplemental Table 1: PSMA PET/CT positivity stratified by PSA and scan indication

	Any PSA (n= 388)							
	all		initial staging (n = 93)		BCR		M1 restaging	
	n	%	n	%	n	%	n	%
68Ga-PSMA-11 PET/CT+	321	83%	93	100%	160	71%	68	97%
Prostate/prostate bed (T+)	176	45%	92	99%	61	27%	23	33%
Pelvic LN (N1)	157	40%	34	37%	89	40%	34	49%
Extrapelvic LN (M1a)	79	20%	11	12%	37	16%	31	44%
Bone (M1b)	105	27%	12	13%	44	20%	49	70%
Visceral (M1c)	27	7%	2	2%	9	4%	16	23%
68Ga-PSMA-11 TNM Pattern								
PSMA T+ N0 M0	77	20%	46	49%	28	18%	3	4%
PSMA T0 N1 M0	49	13%	0	0%	44	28%	5	7%
PSMA T+ N1 M0	44	11%	28	30%	14	9%	2	3%
PSMA T+ N0 M1	28	7%	13	14%	10	6%	5	7%
PSMA T0 N0 M1	59	15%	0	0%	33	21%	26	38%
PSMA T0 N1 M1	37	10%	1	1%	22	14%	14	21%
PSMA T+ N1 M1	27	7%	5	5%	9	6%	13	19%

Supplemental Table 1: PSMA PET/CT positivity stratified by PSA and scan indication (con't)

	PSA 0.04-5.0 (n=216)							
	all (n=216)		initial staging (n =12)		BCR (n=175)		M1 restaging (n = 29)	
	n	%	n	%	n	%	n	%
68Ga-PSMA-11 PET/CT+	153	71%	12	100%	114	65%	27	93%
Prostate/prostate bed (T+)	62	29%	12	100%	40	23%	10	34%
Pelvic LN (N1)	81	38%	3	25%	67	38%	11	38%
Extrapelvic LN (M1a)	26	12%	1	8%	17	10%	8	28%
Bone (M1b)	38	18%	2	17%	24	14%	12	41%
Visceral (M1c)	9	4%	0	0%	7	4%	2	7%
68Ga-PSMA-11 TNM Pattern								
PSMA T+ N0 M0	31	14%	6	50%	22	13%	3	10%
PSMA T0 N1 M0	46	21%	0	0%	41	23%	5	17%
PSMA T+ N1 M0	14	6%	3	25%	10	6%	1	3%
PSMA T+ N0 M1	10	5%	3	25%	4	2%	3	10%
PSMA T0 N0 M1	31	14%	0	0%	21	12%	11	38%
PSMA T0 N1 M1	14	6%	0	0%	12	7%	2	7%
PSMA T+ N1 M1	7	3%	0	0%	4	2%	3	10%

Supplemental Table 1: PSMA PET/CT positivity stratified by PSA and scan indication (con't)

	PSA 5.1-10.0 (n=64)							
	all (n=64)		initial staging (n=26)		BCR (n=28)		M1 restaging (n = 10)	
	n	%	n	%	n	%	n	%
68Ga-PSMA-11 PET/CT+	61	95%	26	100%	25	89%	10	100%
Prostate/prostate bed (T+)	39	61%	26	100%	13	46%	0	0%
Pelvic LN (N1)	28	44%	10	38%	14	50%	4	40%
Extrapelvic LN (M1a)	16	25%	4	15%	6	21%	6	60%
Bone (M1b)	22	34%	1	4%	12	43%	9	90%
Visceral (M1c)	2	3%	0	0%	0	0%	2	20%
68Ga-PSMA-11 TNM Pattern								
PSMA T+ N0 M0	15	23%	12	46%	3	11%	0	0%
PSMA T0 N1 M0	2	3%	0	0%	2	7%	0	0%
PSMA T+ N1 M0	13	20%	9	35%	4	14%	0	0%
PSMA T+ N0 M1	8	13%	4	15%	4	14%	0	0%
PSMA T0 N0 M1	10	16%	0	0%	4	14%	6	60%
PSMA T0 N1 M1	10	16%	0	0%	6	21%	4	40%
PSMA T+ N1 M1	3	5%	1	4%	2	7%	0	0%

Supplemental Table 1: PSMA PET/CT positivity stratified by PSA and scan indication (con't)

	PSA 10.1-20.0 (n=50)							
	all (n=49)		initial staging (n =22)		BCR (n=17)		M1 restaging (n = 10)	
	n	%	n	%	n	%	n	%
68Ga-PSMA-11 PET/CT+	48	98%	22	100%	16	94%	10	100%
Prostate/prostate bed (T+)	34	69%	22	100%	7	41%	5	50%
Pelvic LN (N1)	17	35%	6	27%	4	24%	7	70%
Extrapelvic LN (M1a)	19	39%	3	14%	10	59%	6	60%
Bone (M1b)	20	41%	3	14%	7	41%	10	100%
Visceral (M1c)	6	12%	0	0%	1	6%	5	50%
68Ga-PSMA-11 TNM Pattern								
PSMA T+ N0 M0	15	31%	12	55%	3	18%	0	0%
PSMA T0 N1 M0	1	2%	0	0%	1	6%	0	0%
PSMA T+ N1 M0	5	10%	5	23%	0	0%	0	0%
PSMA T+ N0 M1	6	12%	4	18%	2	12%	0	0%
PSMA T0 N0 M1	10	20%	0	0%	7	41%	3	30%
PSMA T0 N1 M1	3	6%	0	0%	1	6%	2	20%
PSMA T+ N1 M1	8	16%	1	5%	2	12%	5	50%

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	PSA >20.0 (n=58)							
	all (n=58)		initial staging (n =33)		BCR (n=5)		M1 restaging (n = 20)	
	n	%	n	%	n	%	n	%
68Ga-PSMA-11 PET/CT+	57	98%	33	100%	5	100%	20	100%
Prostate/prostate bed (T+)	40	69%	32	97%	1	20%	7	35%
Pelvic LN (N1)	30	52%	15	45%	4	80%	11	35%
Extrapelvic LN (M1a)	18	31%	3	9%	4	80%	11	35%
Bone (M1b)	24	41%	6	18%	1	20%	17	35%
Visceral (M1c)	10	17%	2	6%	1	20%	7	35%
68Ga-PSMA-11 TNM Pattern								
PSMA T+ N0 M0	16	28%	16	48%	0	0%	0	0%
PSMA T0 N1 M0	0	0%	0	0%	0	0%	0	0%
PSMA T+ N1 M0	12	21%	11	33%	0	0%	1	5%
PSMA T+ N0 M1	4	7%	2	6%	0	0%	2	10%
PSMA T0 N0 M1	8	14%	0	0%	1	20%	7	35%
PSMA T0 N1 M1	10	17%	1	3%	3	60%	6	30%
PSMA T+ N1 M1	8	14%	3	9%	1	20%	4	20%

Supplemental Table 2: PSMA PET/CT positive bone lesions stratified by PSA and scan indication

	Any PSA M1b+ (n = 105)							
	all (n= 105)		initial staging (n = 12)		BCR	(n = 44)	M1 restaging (n =	
	n	%	n	%	n	%	n	%
Pelvis	73	70%	9	75%	22	50%	42	86%
Ribs/Clavicles/Sternum	62	59%	6	50%	19	43%	37	76%
Spine	60	57%	5	42%	17	39%	38	78%
Proximal third of femur	29	28%	1	8%	2	5%	26	53%
Humerus	28	27%	2	17%	5	11%	21	43%
Skull base	19	18%	0	0%	2	5%	17	35%
Superior skull	18	17%	1	8%	3	7%	14	29%
Lower extremities below prox	18	17%	0	0%	2	5%	16	33%

Supplemental Table 2: PSMA PET/CT positive bone lesions stratified by PSA and scan indication (con't)

	PSA 0.04-5.0 M1b+ (n=38)							
	all (n=38)		initial staging (n =2)		BCR	(n =24)	M1 restaging (n =	
	n	%	n	%	n	%	n	%
Pelvis	19	50%	1	50%	9	38%	9	75%
Ribs/Clavicles/Sternum	16	42%	1	50%	9	38%	6	50%
Spine	17	45%	1	50%	8	33%	8	67%
Proximal third of femur	4	11%	0	0%	1	4%	3	25%
Humerus	2	5%	0	0%	0	0%	2	17%
Skull base	2	5%	0	0%	1	4%	1	8%
Superior skull	1	3%	0	0%	0	0%	1	8%
Lower extremities below prox	2	5%	0	0%	1	4%	1	8%

Supplemental Table 2: PSMA PET/CT positive bone lesions stratified by PSA and scan indication (con't)

	PSA 5.1-10.0 M1b+(n=)									
	all (n=22)		initial staging (n =1)		BCR	(n = 12)		M1 restaging		(n =9)
	n	%	n	%	n	%	n	%	n	%
Pelvis	17	77%	1	100%	8	67%	8	89%		
Ribs/Clavicles/Sternum	11	50%	0	0%	5	42%	6	67%		
Spine	10	45%	0	0%	4	33%	6	67%		
Proximal third of femur	4	18%	0	0%	0	0%	4	44%		
Humerus	6	27%	0	0%	2	17%	4	44%		
Skull base	4	18%	0	0%	0	0%	4	44%		
Superior skull	2	9%	0	0%	1	8%	1	11%		
Lower extremities below prox	2	9%	0	0%	0	0%	2	22%		

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	PSA 10.1-20.0 M1b+(n=20)									
	all (n=20)		initial staging (n =3)		BCR	(n =7)		M1 restaging		(n =10)
	n	%	n	%	n	%	n	%	n	%
Pelvis	16	80%	2	67%	5	71%	9	90%		
Ribs/Clavicles/Sternum	14	70%	2	67%	5	71%	7	70%		
Spine	14	70%	1	33%	4	57%	9	90%		
Proximal third of femur	8	40%	0	0%	1	14%	7	70%		
Humerus	9	45%	1	33%	3	43%	5	50%		
Skull base	4	20%	0	0%	1	14%	3	30%		
Superior skull	7	35%	1	33%	2	29%	4	40%		
Lower extremities below prox	6	30%	0	0%	1	14%	5	50%		

Supplemental Table 2: PSMA PET/CT positive bone lesions stratified by PSA and scan indication (con't)

	PSA >20.0 M1b+(n=24)									
	all (n=24)		initial staging (n =6)		BCR (n =1)		M1 restaging (n =17)			
	n	%	n	%	n	%	n	%		
Pelvis	20	83%	5	83%	0	0%	15	88%		
Ribs/Clavicles/Sternum	20	83%	3	50%	0	0%	17	100%		
Spine	18	75%	3	50%	1	100%	14	82%		
Proximal third of femur	12	50%	1	17%	0	0%	11	65%		
Humerus	11	46%	1	17%	0	0%	10	59%		
Skull base	9	38%	0	0%	0	0%	9	53%		
Superior skull	8	33%	0	0%	0	0%	8	47%		
Lower extremities below prox	8	33%	0	0%	0	0%	8	47%		