

Supplementary Table

Uncommon PSMA-avid metastases of prostate cancer to the male genitalia*									
Number	Author	Location	Tracer	Serum PSA (ng/dl)	Gleason score	Age	Pattern	Diagnosis Setting	Expression score
1	Özge Erol Fenercioğlu, et al ¹	Vas deferens and inguinal canal	⁶⁸ Ga-PSMA	10.7	5+4	71	Focal uptake in left inguinal canal	Staging	3
2	Dimitrios Priftakis, et al ²	Vas deferens	⁶⁸ Ga-PSMA	N/A	N/A	74	Linear intense activity in right vas deferens	Recurrence	2
3	Claudio Vitale, et al ³	Vas deferens	⁶⁸ Ga-PSMA	0.29	N/A	68	Moderate focal uptake in right vas deferens (SUVmax 5.1)	Recurrence	1
4	Leonardo Guedes Moreira Valle, et al ⁴	Vas deferens	⁶⁸ Ga-PSMA	21	N/A	86	Right vas deferens thickening with asymmetric uptake	Recurrence	2
5	Lilian Yuri Itaya Yamaga, et al ⁵	Vas deferens	⁶⁸ Ga-PSMA	21	4+5	88	Single focus of uptake in left testicle	Recurrence	2
6	Sonya Youngju Park, et al ⁶	Vas deferens	⁶⁸ Ga-PSMA	10.4	4+5	66	Focal uptake at left vas deferens	Staging	N/A
7	Anthony S. Bates, et al ⁷	Vas deferens	N/A	0.27	3+4	65	Avidity of tracer at the distal end of the right vas deferens	Recurrence	N/A
8	Wajana Thaweerat, et al ⁸	Vas deferens	¹⁸ F-PSMA 1007	0.89	4+3	65	Avidity of tracer at left spermatic cord (SUVmax 9.46)	Recurrence	N/A
9	Yafu Yin, et al ⁹	Vas deferens	¹⁸ F-DCFPyL	4.1	4+3	71	Curvilinear distribution of radiotracer at the left vas deferens (SUVmax 11.8)	Recurrence	N/A
10	Piyush Aggarwal, et al ¹⁰	Spermatic cord	⁶⁸ Ga-PSMA	29	4+3	51	Tracer-avid lesion at the left spermatic cord (SUVmax 8.4)	Recurrence	2
11	Ravisankar Palaniappan, et al ¹¹	Testes	⁶⁸ Ga-PSMA	1236	5+4	62	Avidity of tracer at the right testis.	Staging	N/A
12	Gokhan Ozyigit, et al ¹²	Testes	⁶⁸ Ga-PSMA	2.2	3+3	68	Avidity of tracer at the posterior right testis (SUVmax 14.8)	Recurrence	N/A
13	Gianluca Di Rienzo, et al ¹³	Testes	⁶⁸ Ga-PSMA	3.3	4+5	70	Tracer accumulation in the right scrotum (SUVmax 5.6)	Recurrence	2
14	Gul Ege Aktas, et al ¹⁴	Testes	⁶⁸ Ga-PSMA	1.84	4+3	64	Intense uptake in the left testicle (SUVmax 28.8)	Recurrence	3
15	Merve Nida Calderon Tobar, et al ¹⁵	Testes	⁶⁸ Ga-PSMA	26.3	4+5	60	Avidity of tracer in the right testis	Recurrence	3
16	Nitin Gupta, et al ¹⁶	Testes	⁶⁸ Ga-PSMA	7.07	4+3	65	Heterogeneous tracer-avid lesions in the right testis	Recurrence	2
17	Yash Jain, et al ¹⁷	Testes	⁶⁸ Ga-PSMA	N/A	N/A	52	Focal uptake in the right scrotal region	Restaging	3
18	Manoj Gupta, et al ¹⁸	Testes	⁶⁸ Ga-PSMA	13.2	4+5	62	Focal uptake in the right testis (SUVmax 10.4)	Recurrence	3
19	Manoj Gupta, et al ¹⁸	Testes	⁶⁸ Ga-PSMA	79.3	5+4	77	Focal uptake in the right testis (SUVmax 12.8)	Staging	3

20	Manoj Gupta, et al ¹⁸	Testes	⁶⁸ Ga-PSMA	3	4+3	69	Focal uptake in the left testis (SUVmax 24.2)	Recurrence	3
21	Marcelo Livorsi da Cunha, et al ¹⁹	Testes	⁶⁸ Ga-PSMA	2.6	3+4	69	Intense uptake in the left testicle (SUVmax 28,8)	Recurrence	3
22	Nassib F Abou Heidar, et al ²⁰	Testes	⁶⁸ Ga-PSMA	3.9	4+3	79	Focal uptake in the left testis (SUVmax 9.3)	Recurrence	2
23	Rahul V. Parghane, et al ²¹	Testes	⁶⁸ Ga-PSMA	217	4+5	66	Focal intense uptake in the left testis (SUVmax 18)	Staging	3
24	Desiree Weiberg, et al ²²	Testes	⁶⁸ Ga-PSMA	5.5	9	76	Focal uptake in bilateral testes	Recurrence	2
25	Aravintho Natarajan, et al ²³	Testes	⁶⁸ Ga-PSMA	11.2	N/A	N/A	Avidity of tracer in the left testicular swelling	Recurrence	2
26	Lilian Yuri Itaya Yamaga, et al ⁵	Testes	⁶⁸ Ga-PSMA	1.2	3+4	68	Focal PSMA uptake in the left testis	Recurrence	3
27	Florian Rosar, et al ²⁴	Testes	⁸⁹ Zr-PSMA-617	0.65	4+5	70	Intense focal uptake in the left testis (SUVmax 33.1)	Recurrence	2
28	Sarthak Tripathy, et al ²⁵	Scrotal Sac	⁶⁸ Ga-PSMA	9	N/A	45	Scrotal sac lesion with necrosis and intense uptake	Recurrence	3
29	Nikhil Seniaray, et al ²⁶	Penio-Scrotal	⁶⁸ Ga-PSMA	9	4+4	68	Foci of increased tracer uptake in scrotum and glans penis	Restaging	2
30	Shelvin Kumar Vadi, et al ²⁷	Inguinal canal/Scrotal sac	⁶⁸ Ga-PSMA	N/A	N/A	73	Focal uptake in left scrotal region corresponding to inguinal canal	Recurrence	N/A
31	Dalveer Singh, et al ²⁸	Epididymis	¹⁸ F-DCFPyL	2.8	4+3	73	Intensely tracer-avid nodules in right hemi-scrotum (SUVmax 12)	Recurrence	3
32	Dalveer Singh, et al ²⁸	Epididymis	¹⁸ F-DCFPyL	1.1	4+4	77	Focal intense uptake in left hemi-scrotum (SUVmax 9)	Recurrence	2
33	Giulia Polverari, et al ²⁹	Epididymis	⁶⁸ Ga-PSMA	0.56	4+5	66	Focal intense uptake in right epididymis (SUVmax 25.5)	Recurrence	3
34	Sofia Santos-Lopes, et al ³⁰	Epididymis	⁶⁸ Ga-PSMA	20	5+3	69	High uptake in the left testis and retrovesical space	Recurrence	N/A
35	Sebastian Serfling, et al ³¹	Epididymis	⁶⁸ Ga-PSMA	1.1	7	73	Tracer-avid lesion in the left epididymis	Recurrence	3
36	Saurabh Arora, et al ³²	Inguinal Canal	⁶⁸ Ga-PSMA	140	7	75	Focal tracer-avid soft tissue deposit in the right inguinal canal	Staging	3
37	Nathanial Harris, et al ³³	Perineum	⁶⁸ Ga-PSMA	N/A	4+4	67	Focal uptake within the perineum	Recurrence	2
38	Ritanshu Solanki, et al ³⁴	Perineum	⁶⁸ Ga-PSMA	1.8	5+5	69	Intense tracer-avid nodular lesion in perineum near intergluteal cleft (SUVmax 30.8)	Restaging	30
39	Zehra Pınar Koç, et al ³⁵	Perineum and Penile	⁶⁸ Ga-PSMA	N/A	N/A	75	Tracer accumulation in the perineum and penile tissue	Recurrence	2
40	Nathanial Harris, et al ³³	Penile	⁶⁸ Ga-PSMA	N/A	3+4	69	Tracer avidity within penile shaft	N/A	N/A
41	Lilian Yuri Itaya Yamaga, et al ⁵	Penile	⁶⁸ Ga-PSMA	3.7	5+4	86	Non-tender tracer-avid nodules involving the glans and shaft of the penis	Recurrence	3

42	Shelvin Kumar Vadi, et al ³⁶	Penile	⁶⁸ Ga-PSMA	78	5+4	85	Diffuse PSMA uptake in penile shaft and glans with linear hypodense shaft lesions	Staging	3
43	Sydney A, et al ³⁷	Penile	⁶⁸ Ga-PSMA	4.86	5+5	75	Increased uptake along the penile shaft and glans (SUVmax 14.7)	Recurrence	N/A
44	Gözde Mütevelizade, et al ³⁸	Penile	⁶⁸ Ga-PSMA	47	4+5	72	Intense uptake in the penile shaft (SUVmax 14.9)	Recurrence	3
45	KK Kamaleshwaran, et al ³⁹	Penile	⁶⁸ Ga-PSMA	>100	3+4	79	Penile corpora cavernosa thickening with intense uptake (SUVmax 35)	Staging	3
46	Noora Essa Bin Essa, et al ⁴⁰	Penile	⁶⁸ Ga-PSMA	1	4+4	75	Small focal uptake in proximal left penile margin	Recurrence	2
47	Margaret Mary Mansbridge, et al ⁴¹	Penile	N/A	76	N/A	69	Intense tracer avidity in the penile shaft.	Recurrence	N/A
48	Ivan Rogic, et al ⁴²	Penile	⁶⁸ Ga-PSMA	0.53	4+5	74	Proximal penile tracer uptake corresponding to palpable lesion (SUVmax 7.9)	Recurrence	2
49	Cherin Farhan, et al ⁴³	Penile	⁶⁴ Cu-PSMA	31	9	82	Avidity of tracer on the right side of the penis	Recurrence	1
50	Junjie Fan, et al ⁴⁴	Penile	¹⁸ F-PSMA	2.4	4+4	73	Tracer-avid lesion at penile base	Recurrence	1
51	Lucas Landen, et al ⁴⁵	Penile	¹⁸ F-PSMA	1.91	4+3	55	Focal uptake at left paramedian penile base	Recurrence	N/A
52	Yongliang Li, et al ⁴⁶	Penile	¹⁸ F-PSMA	0.035	5+5	60	Solitary tracer-avid penile lesion (SUVmax 6.4)	Recurrence	2
53	Tima Davidson, et al ⁴⁷	Penile	⁶⁸ Ga-PSMA	3	7	71	Diffusely increased uptake along the penis (SUVmax 2.5)	N/A	N/A
54	Tima Davidson, et al ⁴⁷	Penile	⁶⁸ Ga-PSMA	76	7	62	Focally increased uptake in lesions at penile root (SUVmax 5.8)	N/A	3
55	Tima Davidson, et al ⁴⁷	Penile	⁶⁸ Ga-PSMA	4.3	8	68	Diffuse, heterogeneous penile tracer uptake with infiltrative soft tissue lesions on CT	Recurrence	N/A
56	Felipe G. Barbosa, et al ⁴⁸	vesicourethral anastomosis	⁶⁸ Ga-PSMA	0.76	5+4	65	Small focus of uptake at the anterior margin	Recurrence	1
57	Felipe G. Barbosa, et al ⁴⁸	vesicourethral anastomosis	⁶⁸ Ga-PSMA	2.4	4+4	79	Focal uptake on the right side	Recurrence	2
58	Felipe G. Barbosa, et al ⁴⁸	the vesicourethral anastomosis and penile urethra	⁶⁸ Ga-PSMA	1.7	5+4	71	High uptake in infiltrative tissue	Recurrence	3
59	Jeffrey Chen, et al ⁴⁹	Penile	¹⁸ F-DCFPyL	4.5	4+5	83	Intense focal uptake in mid dorsal penile shaft (SUVmax 35.7)	Recurrence	3

*This table summarizes 59 cases of PSMA-avid prostate cancer metastases to male genital structures (aged 45–88), predominantly during recurrence, with high Gleason scores and variable PSMA expression scores (1–3).

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