

Loggie et al. Case series - Mismatch repair-deficient prostate cancer: Experiences from a Canadian healthcare center

APPENDIX

Year	#	Consult?	Specimen type	Age at Dx	Tumour type
2020	12048	N	RP	68	acinar and ductal
2021	41945	N	12 core	88	acinar
2022	12101	N	12 core	69	acinar
2022	39165	N	transurethral resection	80	ductal
2023	549	Y	L supraclavicular node core	71	acinar
2023	17052	N	targeted biopsies	81	acinar
2024	51	N	12 core	70	acinar
2024	8048	N	transurethral resection	76	acinar
2024	26316	N	bone (L2) core biopsy	53	acinar
2025	13575	N	12 core	76	acinar

Grade	Grade group	1st PSA on EMR	Peak Pre Dx PSA
5,4	5	4.14	6.27
5,4	5	6.71	30.48
4,5	5	13.51	15.68
4,4	4	62.71	62.71
4,4	4	5.26	7.48
4,5	5	6.95	229.67
5,4	5	0.23	1.05
5,4	5	1.04	10.1
4,5	5	0.98	497.78
5,4	5	13.22	16.69

Months btwn 1st PSA and Dx	PSA at Dx
34	6.27
143	5.03
3	15.68
0	62.71
90	7.48
129	229.67
76	1.05
127	10.1
174	497.78
3	14.56

Clinical presentation	Stage at Dx
elevated PSA	pT3bN0M0
prostate nodularity incidentally noted at colonoscopy	cT4N0M0
elevated PSA	cT2N0M0
hematuria	cM1b
elevated PSA	cT3aN0M0
elevated PSA	cM1b
urinary retention	cM1b
elevated PSA	cT4N0M0
bone metastasis	pM1b
elevated PSA	cM1b

MMR loss (IHC)	Tx	Medical Genetics
MSH2/6	surgery, ADT, radiation, immunotherapy	no mutation found
MSH2/6	ADT , radiation	not referred or tested
MSH2/6	ADT, radiation	not referred or tested
MSH6	ADT	referred, no show
MLH1/PMS2	ADT, radiation	no Lynch
MSH2/6	ADT	not referred or tested
MSH2/6	ADT	no mutation found
MSH2/6	surgery, ADT	not referred or tested
MSH2/6	ADT	not referred or tested
MSH2/6	ADT	not referred or tested

F/up (as of Aug 3, 2025)
PSA undetectable 07/04/2025
deceased from disease
PSA undetectable 04/28/2025
deceased from disease
deceased from disease
deceased from disease
deceased from disease
PSA undetectable 05/02/2025
PSA undetectable 07/02/2025
PSA 1.6 06/14/2025

Months from Dx to last F/up (as of Aug 3,2025)
85
40
36
8
36
7
14
20
12
3

Past Relevent Med / Urol Hx
RP
BPH with TURP x2 (both benign)
testicular ca 1978
CLL, ?glioma vs brain met (no bx)
hypogonadism
pelvic exenteration, radical cystoprostatectomy
MSS CRC resected + chemo shortly before pr ca Dx

NOTES

developed peritoneal carcinomatosis, pembro est Jan 2025
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3 brothers had Pca

BRCA1 fs

BRCA2 fs + suspicious del

no PSAs between 2012 and 2023

?aspiration pneumonia event, died suddenly
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presented with massive tumour, PSA of 10
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no PSAs between 2015 and 2024
