

Supplementary Table 1 All the literature about penile metastasis from rectal carcinoma in the database

Ref.	Age (Yr)	TNM/Duke staging of rectal carcinoma	Differentiation of rectal carcinoma	Rectal carcinoma with lymph node metastasis (+/-)	Treatment of rectal carcinoma	Size of penile tumor (cm)	Metastasis time (Month)	Symptoms	Treatment of penile metastasis from rectal carcinoma	Survival (Month)
Perez <i>et al</i> [1], 1870	40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cattell <i>et al</i> ^[15] , 1951	30	NA	NA	NA	APR	NA	29	NA	Surgery	NA
Oehlschla	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

-egel <i>et al</i> ^[3] , 1966	75	Duke C	NA	NA	APR	5	108	Nodules	Surgery	NA
Tagart <i>et al</i> ^[4] , 1967	59	NA	NA	+	NA	1.5	10 days	NA	NA	14 days
Bachrach <i>et al</i> ^[5] , 1973	41	NA	Well differentiated	+	APR	NA	10	NA	Chemotherapy	8, Alive
Rees <i>et al</i> ^[6] , 1975	70	Duke C	NA	NA	APR	NA	4	Dysuria	No treatment	5 days
Kumar <i>et al</i> ^[7] , 1980	45	NA	NA	NA	NA	NA	22	Priapism	NA	NA

Okumara <i>et al</i> ^[8] , 1984	71	Duke B	NA	-	APR	1	48	Nodules	Radiation, Chemotherapy	9
Khupcha n-dani <i>et al</i> ^[9] , 1986	58	NA	NA	NA	NA	NA	2	Priapism	No treatment	5
Mukamel <i>et al</i> ^[10] , 1987										
Doré <i>et al</i> ^[11] , 1989	58	NA	NA	NA	NA	NA	NA	NA	NA	NA

Ben-Yosef <i>et al</i> ^[12] , 1992	NA	NA	NA	NA	NA	NA	NA	NA	Radiotherapy	NA
Cuvillier <i>et al</i> ^[13] , 1995	NA	NA	NA	NA	APR	NA	29	Nodules	Chemotherapy	15
Al-Mashatt <i>et al</i> ^[14] , 2000	65	Duke A	NA	NA	APR	NA	19	Nodule, Dysuria	No treatment	5
Sukumar <i>et al</i> ^[15] , 2001	75	Duke C	Poorly differentiated	NA	APR	NA	2	Ulceration	No treatment	2
	53	NA	NA	NA	APR	NA	0	Nodules	Radiation, Chemotherapy	NA

Tan <i>et al</i> ^[16] , 2002	Yilmaz	71	NA	NA	+	LAR	NA	24	Priapism	NA	4
<i>et al</i> ^[17] , 2004		56	NA	NA	NA	APR	NA	24	Nodules	Radiotherapy	NA
Lo <i>et al</i> ^[18] , 2004		58	pT3N1M1	NA	-	LAR	NA	26	Enlarging, Nodules	Radiotherapy	NA
Cathoma <i>s et al</i> ^[19] , 2006	Appu <i>et al</i> ^[20] , 2006	65	Duke A	Moderately to well differentiated	-	APR	NA	24	Pain, Nodules	Radiation, Chemotherapy	12

Cherian <i>et al</i> ^[21] , 2006	73	Duke B	NA	+	APR, Chemother apy	1.5	60	Ulceratio n	No treatment	4
Ketata <i>et al</i> ^[22] , 2007	59	Duke A	Well differentiated	-	APR	0.5	312	Nodules	Chemotherapy	16, Alive
Murheka <i>r et al</i> ^[23] , 2007	78	T3	NA	+	APR	NA	24	Nodules	Refused	4
Chung <i>et al</i> ^[24] , 2007	69	NA	NA	NA	NA	0.5	0	Nodules	Radiation, Chemotherapy	6, Alive
Küronya	65	pT3 N2	NA	-	LAR	2	54	Nodule	Radiation, Chemotherapy	NA

<i>et al</i> ^[25] , 2009											
Park <i>et al</i> ^[26] , 2009	43	T3	Moderately differentiated	+	APR, Radiation, Chemotherapy	NA	24	Nodules	Radiotherapy	NA	
Yildirim <i>et al</i> ^[27] , 2010	79	Duke C	Undifferentiated	+	APR	1.5	24	Nodules	Chemotherapy	3	
Kuliavas <i>et al</i> ^[28] , 2018	45	NA	NA	NA	APR	NA	6	Ulceration	Refused	1	
Goris <i>et al</i> ^[29] , 2011	79	NA	NA	NA	LAR	NA	24	Nodules	Refused	6	

Lee <i>et al</i> ^[30] , 2011	54	Duke B	Moderately differentiated	-	APR	NA	18	Nodules	Radiotherapy	NA
Kimura <i>et al</i> ^[31] , 2012	57	T4N0M0	Moderately differentiated	-	APR	4	16	NA	Surgery	24, Alive
Dorsett <i>et al</i> ^[32] , 2012	60	T3N1MX	Moderately to poorly differentiated	+	Chemotherapy	10	NA	Nodule	Surgery	4
McGuinness <i>et al</i> ^[33] , 2013	61	T3N1	NA	NA	LAR, Chemotherapy	2	60	Nodule	Surgery	4
Kuliavas <i>et al</i> ^[28] , 2018	78	NA	NA	NA	Radiotherapy, Chemotherapy	NA	24	Nodule	Chemotherapy	3

Persec <i>et al</i> ^[34] , 2014	43	T3N0M0	NA	NA	APR, Radiothera py, Chemother apy	1.2	24	Nodules, Dysuria	Surgery	6
Luo <i>et al</i> ^[35] , 2014	54	NA	NA	NA	Ostomy, Chemother apy	NA	NA	Dysuria	NA	10
Hajianfar <i>et al</i> ^[36] , 2014	78	NA	NA	NA	APR, Radiation, Chemother apy	NA	8	Nodule	Surgery	-
Nunes <i>et al</i> ^[37] , 2015	63	T3N1M0	Moderately differentiated	NA	APR, Radiothera py	NA	14	Nodule	Radiotherapy	12, Alive

Chang <i>et al</i> ^[38] , 2015	73	T3N2bM0, Duke C	NA	-	APR, Chemotherapy	0.5	10	Dysuria	Surgery	12, Alive
Christodoulidou <i>et al</i> ^[39] , 2015	70	M1	NA	+	APR, Chemotherapy	1.6	NA	Nodule	Surgery	NA
Cholin <i>et al</i> ^[40] , 2015	88	M1	NA	+	NA	NA	0	Nodule	Chemotherapy	63 days
Alzayed <i>et al</i> ^[41] , 2015	70	NA	NA	NA	LAR	NA	26	Non	NA	NA

Efared <i>et al</i> ^[42] , 2017	46	T3N0	Moderately differentiated	NA	Surgery, Chemother apy	NA	6	Nodule	Chemotherapy	Alive
Kuliavas <i>et al</i> ^[28] , 2018	41	T2N1M0	Moderately differentiated	+	LAR, Radiothera py, Chemother apy	NA	17	Dysuria	Surgery	2
Marghich <i>et al</i> ^[43] , 2019	47	T3N0M0	Moderately differentiated	-	APR, Radiothera py, Chemother apy	NA	4	Nodule	Chemotherapy	Alive
Ahmad <i>et al</i> ^[44] , 2019	51	NA	Moderately differentiated	NA	NA	NA	NA	Nodule	NA	NA

APR: Abdominoperineal resection; LAR: Low anterior resection; NA: Not available; +: Rectal carcinoma with lymph node metastasis, -: Rectal carcinoma without lymph node metastasis.

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