

Table S1. Multivariable Logistic Regression Analysis (Model 2) for Receipt of MFRT merging the 2017 and 2018 datasets and includes a treatment year variable (2017 versus 2018) (GU: Genitourinary; ECOG: Eastern Cooperative Oncology Group).

Variable		Multivariable Odds Ratio (95%CI)	p-Value
Age (years)	5 to ≤ 58	Ref	Ref
	59 to ≤ 68	0.85 (0.63 to 1.14)	0.273
	69 to ≤ 76	0.82 (0.59 to 1.14)	0.246
	≥ 77	0.56 (0.40 to 0.79)	0.001
Sex	Female	Ref	Ref
	Male	1.23 (0.93 to 1.63)	0.142
ECOG Performance Status	0-1	Ref	Ref
	2	0.70 (0.54 to 0.89)	0.004
	3-4	0.56 (0.42 to 0.75)	<0.0001
Charlson Score	0	Ref	Ref
	1	0.84 (0.64 to 1.10)	0.203
	2	0.77 (0.55 to 1.07)	0.117
	≥3	0.53 (0.35 to 0.79)	0.002
Tumour Type	Prostate	Ref	Ref
	Breast	1.87 (1.19 to 2.96)	0.007
	Lung	1.76 (1.22 to 2.55)	0.003
	Hematological	3.13 (2.00 to 4.90)	<0.0001
	Non-Prostate GU	2.62 (1.69 to 4.06)	<0.0001
	Gastrointestinal	1.86 (1.18 to 2.95)	0.008
	Other	1.99 (1.27 to 3.13)	0.003
Treatment Site	Skull/Spine	Ref	Ref
	Upper Extremity	0.41 (0.26 to 0.66)	<0.0001
	Thorax	0.47 (0.31 to 0.73)	0.001
	Pelvis	0.73 (0.56 to 0.94)	0.014
	Lower Extremity	0.80 (0.53 to 1.22)	0.301
Fracture	No	Ref	Ref
	Yes	1.12 (0.87 to 1.44)	0.399
Soft Tissue Extension	No	Ref	Ref
	Yes	3.14 (2.43 to 4.05)	<0.0001
Spinal Cord Compression	No	Ref	Ref
	Yes	2.63 (2.34 to 5.63)	<0.0001
Cauda Equina Compression	No	Ref	Ref
	Yes	3.29 (1.71 to 6.33)	<0.0001
Retreatment	No	Ref	Ref
	Yes	0.50 (0.35 to 0.71)	<0.0001
Treatment Location	Winnipeg	Ref	Ref
	Brandon	1.63 (1.13 to 2.34)	0.008
Radiation Oncologist Years in Practice	≤ 7	Ref	Ref
	8 to 17	0.90 (0.65 to 1.25)	0.540
	≥18	0.58 (0.42 to 0.82)	0.002
Treatment Year	2017	Ref	Ref
	2018	0.70 (0.56 to 0.87)	0.001

Table S2. Univariable Logistic Regression Analysis for Receipt of MFRT in 2018 (GU: Genitourinary; ECOG: Eastern Cooperative Oncology Group).

Variable		Univariable Odds Ratio (95% CI)	p-Value
Age (years)	5 to ≤ 57	Ref	Ref
	58 to ≤ 66	0.84 (0.58 to 1.21)	0.339
	67 to ≤ 75	0.76 (0.53 to 1.09)	0.131
	≥ 76	0.52 (0.36 to 0.76)	0.001
Sex	Female	Ref	Ref
	Male	0.83 (0.64 to 1.07)	0.155
ECOG Performance Status	0-1	Ref	Ref
	2	0.76 (0.55 to 1.06)	0.103
	3-4	0.95 (0.69 to 1.32)	0.779
Charlson Score	0	Ref	Ref
	1	0.83 (0.60 to 1.15)	0.255
	2	0.85 (0.58 to 1.25)	0.408
	≥3	0.52 (0.33 to 0.81)	0.004
Tumour Type	Prostate	Ref	Ref
	Breast	2.21 (1.45 to 3.38)	<0.0001
	Lung	2.07 (1.40 to 3.07)	<0.0001
	Hematological	3.71 (2.20 to 6.25)	<0.0001
	Non-Prostate GU	4.44 (2.66 to 7.41)	<0.0001
	Gastrointestinal	2.63 (1.53 to 4.53)	<0.0001
	Other	2.23 (1.32 to 3.74)	0.003
Treatment Site	Skull/Spine	Ref	Ref
	Upper Extremity	0.23 (0.13 to 0.40)	<0.0001
	Thorax	0.45 (0.26 to 0.79)	0.005
	Pelvis	0.46 (0.34 to 0.62)	<0.0001
	Lower Extremity	0.46 (0.26 to 0.78)	0.004
Complicated Bone Metastasis	Uncomplicated	Ref	Ref
	Complicated	3.20 (2.43 to 4.22)	<0.0001
Fracture	No	Ref	Ref
	Yes	2.21 (1.66 to 2.95)	<0.0001
Soft Tissue Extension	No	Ref	Ref
	Yes	4.30 (3.26 to 5.68)	<0.0001
Spinal Cord Compression	No	Ref	Ref
	Yes	5.75 (3.47 to 9.51)	<0.0001
Cauda Equina Compression	No	Ref	Ref
	Yes	9.17 (3.48 to 24.18)	0.121
Retreatment	No	Ref	Ref
	Yes	0.75 (0.50 to 1.11)	0.153
Post-Operative Radiotherapy	No	Ref	Ref
	Yes	2.73 (1.52 to 4.87)	0.001
Treatment Location	Winnipeg	Ref	Ref
	Brandon	1.58 (1.11 to 2.26)	0.012
Radiation Oncologist Years in Practice	≤ 6	Ref	Ref
	7 to 16	0.93 (0.68 to 1.28)	0.657
	≥17	0.38 (0.27 to 0.54)	<0.0001