

On-line Table 1: Patient demographics, tumor characteristics, and response to therapy^a

Patient No.	Demographics		Tumor Characteristics		DCE-MRI Intervals		Therapeutic Response				
	Age (yr)	Sex	Location	Localized vs Metastatic	Never Treated vs Previously Treated	Pre-RT Interval	Post-RT Interval	Radiation Dose	No. of Post-RT MRIs	Time Until Progression	Progression-Free Survival
1	48	M	Sacrum	Localized	Never treated	35 days	118 days	24 Gy, 1X	10	NA	1861 days
2	33	F	T12	Metastatic	Previously treated	227 days	48 days	24 Gy, 1X	2	48 days	48 days
3	88	M	Clivus	Localized	Never treated	19 days	57 days	27 Gy, 3X	6	925 days	925 days
4	57	F	C4-C7	Localized	Never treated	51 days	67 days	24 Gy, 1X	10	NA	2237 days
5	48	F	Sacrum	Localized	Never treated	23 days	60 days	50 Gy, 25X	5	NA	413 days
6	63	M	C2	Localized	Never treated	10 days	244 days	24 Gy, 1X	4	NA	356 days
7	57	M	C7-T2	Metastatic	Previously treated	284 days	416 days	72 Gy, 36X	1	104 days	104 days
8	78	M	C4-C6	Localized	Previously treated	10 days	104 days	12 Gy, 3X	6	NA	464 days
9	41	M	Sacrum	Localized	Never treated	29 days	60 days	24 Gy, 1X	11	NA	1632 days
10	62	M	Sacrum	Metastatic	Previously treated	111 days	371 days	27 Gy, 3X	8	610 days	610 days
11	58	F	L1-L3	Metastatic	Previously treated	238 days	147 days	24 Gy, 1X	3	43 days	43 days

Note:—NA indicates not applicable.

^a Eleven patients were enrolled (7 men, 4 women; 33–88 years of age; mean age, 61 years). Tumors were either focal ($n = 7$) or metastatic ($n = 4$), localizing either to the sacrum ($n = 4$), spine ($n = 6$), or clivus ($n = 1$). Of the tumors, 5 were recurrent. Tumor response to therapy corresponding to radiation dose and duration of local control is also presented.

On-line Table 2: Comparison of DCE-MRI and conventional MRI metrics^a

Patient No.	DCE-MRI Quantitative and Semiquantitative Metrics					Conventional MRI Metrics			
	Tumor Dimensions		Subjective Scores			Tumor Dimensions		Subjective Scores	
	V_p Mean (% Change)	V_p Max (% Change)	K^{trans} Mean (% Change)	K^{trans} Max (% Change)	AUC (% Change)	Reader 1 Pre-RT (mm)	Reader 1 Post-RT (mm)	Reader 2 Pre-RT (mm)	Reader 2 Post-RT (mm)
1	-63.49	-56.04	-45.95	-32.88	-17.73	31.3 × 73.3	31.0 × 75.2	31 × 72	32 × 74
2	+39.13	-14.69	-64.37	-55.03	-75.97	11.1 × 11.4	19.7 × 21.6	11 × 11	20 × 22
3	-78.24	-73.29	-48.66	-53.20	-26.36	20.2 × 27.6	18.7 × 27.8	19 × 28	19 × 28
4	-2.18	-60.28	-20.28	+14.57	+97.60	15.1 × 18.8	16.5 × 17.4	15 × 19	17 × 18
5	-55.00	-15.30	+9.09	+218.72	-65.23	29.3 × 75.7	29.4 × 75.9	28 × 77	27 × 76
6	-83.83	-76.69	-36.57	-9.88	-31.22	13.0 × 20.0	9.2 × 12.7	12 × 21	8 × 11
7	+44.43	+78.01	-30.56	-50.99	-14.14	20.28 × 27.77	14.87 × 32.38	21 × 28	16 × 31
8	-34.42	-26.90	+11.17	+117.49	-43.14	24.0 × 47.2	22.1 × 45.7	24 × 47	23 × 45
9	-47.34	-16.86	-46.97	+8.71	-10.48	32.8 × 65.7	33.0 × 66.4	34 × 67	35 × 56
10	+29.68	-13.24	-13.23	-49.72	+51.59	48.3 × 63.4	40.6 × 63.9	48 × 60	40 × 62
11	-93.84	-80.76	-82.58	-73.73	-56.32	6.6 × 9.0	24.5 × 25.6	7 × 10	25 × 26

Note:—% Change indicates DCE-MRI quantitative (V_p max, V_p mean, K^{trans} max, K^{trans} mean) and semiquantitative (AUC) metrics as the percentage change from baseline.

^a DCE-MRI quantitative (V_p max, V_p mean, K^{trans} max, K^{trans} mean) and semiquantitative (AUC) metrics are represented as percentage change from baseline. Corresponding tumor dimensions and subjective scores pre- and postirradiation therapy were provided by 2 attending neuroradiologists.