

APPENDIX 1: Percent of target symptomatic bone metastases categorized as “complicated,” calculated across all possible definitions for complicated bone metastases using the 8 variables listed.

Prior RT	Prior surgery	All fracture	Non-spine fracture only	All neuraxis compromise	CCS only	CE only	Soft tissue component	Percent of “complicated” cases
✓	✓	✓		✓			✓	67.3%
✓	✓	✓			✓		✓	66.8%
	✓	✓		✓			✓	65.9%
	✓	✓			✓		✓	65.3%
✓	✓	✓				✓	✓	62.0%
✓	✓	✓					✓	61.8%
✓	✓		✓	✓			✓	61.8%
✓	✓		✓		✓		✓	61.1%
	✓	✓				✓	✓	60.2%
	✓		✓	✓			✓	60.2%
	✓	✓					✓	60.1%
✓	✓			✓			✓	59.5%
	✓		✓		✓		✓	59.2%
✓		✓		✓			✓	58.7%
✓	✓				✓		✓	58.5%
✓		✓			✓		✓	58.2%
	✓			✓			✓	57.4%
		✓		✓			✓	57.0%
	✓				✓		✓	56.7%
		✓			✓		✓	56.4%
✓		✓				✓	✓	53.4%
✓		✓					✓	53.2%
✓			✓	✓			✓	53.2%
✓	✓		✓			✓	✓	52.9%
✓	✓		✓				✓	52.5%
✓			✓		✓		✓	52.3%
		✓				✓	✓	51.3%
			✓	✓			✓	51.3%
		✓					✓	51.2%
	✓		✓			✓	✓	50.9%
✓				✓			✓	50.6%
✓	✓					✓	✓	50.6%
	✓		✓				✓	50.3%
			✓		✓		✓	50.3%
✓	✓						✓	49.9%
✓					✓		✓	49.7%
				✓			✓	48.5%
	✓					✓	✓	48.1%
✓	✓	✓		✓				47.8%
	✓						✓	47.7%
					✓		✓	47.5%
	✓	✓		✓				45.3%
✓			✓			✓	✓	44.3%
✓			✓				✓	44.2%
✓	✓	✓			✓			43.7%
			✓			✓	✓	42.0%
✓						✓	✓	41.7%

Prior RT	Prior surgery	All fracture	Non-spine fracture only	All neuraxis compromise	CCS only	CE only	Soft tissue component	Percent of "complicated" cases
			✓				✓	41.5%
✓	✓		✓	✓				41.5%
✓							✓	41.4%
	✓	✓			✓			41.1%
✓		✓		✓				39.2%
						✓	✓	39.1%
	✓		✓	✓				39.1%
							✓	38.6%
✓	✓			✓				37.8%
		✓		✓				37.0%
✓	✓		✓		✓			36.4%
✓		✓			✓			35.6%
	✓			✓				35.1%
✓	✓	✓				✓		34.3%
✓	✓	✓						33.7%
✓			✓	✓				33.1%
	✓		✓		✓			32.9%
		✓			✓			32.7%
✓	✓				✓			32.7%
	✓	✓				✓		32.7%
			✓	✓				30.6%
	✓	✓						30.2%
✓				✓				30.2%
	✓				✓			29.4%
✓			✓		✓			29.2%
				✓				28.4%
✓		✓				✓		26.2%
✓		✓						25.4%
			✓		✓			25.1%
✓					✓			24.5%
		✓				✓		24.1%
		✓						21.7%
					✓			21.3%
✓	✓		✓			✓		20.6%
✓	✓		✓					19.1%
	✓		✓			✓		16.9%
✓	✓					✓		15.3%
✓	✓							15.2%
	✓		✓					13.0%
	✓					✓		13.0%
✓			✓			✓		11.2%
	✓							10.5%
✓			✓					8.9%
✓						✓		8.3%
			✓			✓		6.6%
✓								6.4%
			✓					4.4%
						✓		4.1%
								0.0%

✓ Indicates that the selected variable was used as part of the definition for "complicated" bone metastasis

CCS= central canal stenosis, CE= cord edema, RT=radiotherapy

