

On-line Table 1: Patient demographics

Age (yr)	Sex	Treated Level	Pathology	Anatomy of Metastatic Lesion	Other Procedures Performed	Follow-Up VPS	Preprocedure CT Lesion Location		Postprocedure CT	
							Preprocedure CT Lesion Location	Cement Location	Leakage	Cement Distribution
75	F	L2	Plasmacytoma breast, SLE	Post cortical defect	VP T6, T8, T9, T10 (benign)	9/10 to 2/10	Ant 2/3 body	In lesion	Minimal venous	80% ant 2/3
71	M	L1	Lung	Epidural extension, post cortical defect		9/10 to 3/10	Post 2/3 of body	Ant to lesion, in lesion	Minimal disk	80% ant 2/3
56	M	L1	Renal	Paravertebral extension, lat cortical disruption	Arterial embolization	8/10 to 2/10	Lesion ant, 2/3 on 1 side (left)	In lesion	Minimal cortical	90% ant 2/3
82	M	L5	Lung	Post cortical defect, epidural extension, right neural foramen		9/10 to 5/10	Post 4/5 of body	Periphery of lesion	Minimal venous	60% ant 2/3
52	F	T9	Breast	Ant cortical defect	VP T5, T7, T10	8/10 to 5/10	Lesion anterior	Around lesion	Minimal venous	50% ant 2/3
70	M	L2	Colon	Post cortical defect		9/10 to 5/10	Multiple focal lesions of all vertebrae	In lesions	No leakage	75% ant 2/3
34	F	T12	Myeloma	Post cortical defect, epidural extension	T7, T8, T11 KP	No change	Multiple focal lesions of all vertebrae	In lesions	No leakage	75% ant 2/3
36	F	L2	Cervix	Ant, post cortical defect, parasagittal mass left L2-3 NR	Left L2-3 NRB	9/10 to 9/10	Left ant 1/2 of body	In lesion	Minimal cortical	75% ant 2/3
58	F	T12	Breast	Post cortical disruption, epidural extension	KP T7, T8, T11, L2 VP L3	9/10 to 5/10	Lesions in entire body	Ant body	Minimal diskal	80% ant 2/3
80	F	L4	Stomach, breast	Epidural extension, absence of posterior cortex		7/10 to 3/10	Post body	Ant to lesion	Minimal venous	100% ant 2/3
76	M	L1	Liver	Post cortical disruption	L3 KP	10/10 to 5/10	Post body	Ant to lesion	Minimal venous	70 % ant 2/3
66	F	L3	Lung	Post cortical defect, epidural extension, right neural foramen	Right NRB	9/10 to 1/10	Whole left side of body	In lesion	Minimal venous, minimal disk RNF	60% ant 2/3
68	M	L5	Urethral	Epidural extension, post cortical defect, right neural foramen	S1 sacroplasty, RNRB	9/10 to 7/10	Most of right side of body, right pedicle	In periphery of lesion extending into right pedicle	No leakage	70% ant 2/3
72	M	L1	Myeloma	Epidural extension	L2 VP	6/10 to 2/10	Post lesion	In lesion	Minimal disk	50% middle 1/3
43	F	L3	Breast	No ant cortex	Sacroplasty, VP L2	9/10 to 2/10	Lesion anterior	In lesion	Mild cortical	80% of cement ant 2/3
88	M	T12	Prostate	Lat cortical defect	L1 KP	10/10 to 7/10	Lesion posterior	Ant to lesion	No leakage	100% ant 2/3
85	F	T11	Colon	Defect ant and lat border	VP/KP L2, L3, L4, T12	8/10 to 0/10	Lesion anterior	In lesion	Minimal disk	90% ant 2/3
79	M	L1	Lung	No posterior wall		Not available	Lesion is posterior	Ant to lesion	Minimal venous	90% ant 2/3
76	F	L3	Plasmacytoma	No post cortex, epidural extension		No available	Lesion in all vertebrae	Cement ant	No leakage	90 % ant 2/3
89	M	T12	Lung	Epidural extension	KP L1	No available	Lesion all vertebrae	Cement ant	Minimal cortical	100% ant 2/3
55	F	T10	Plasmacytoma	Epidural extension, no posterior cortex, extension into pedicles		9/10 to 4/10	Lesion all vertebrae	Ant body	Mild ant body leakage, cement in left pedicle in needle tract	70% ant 2/3
71	F	L4	Urethral	Post cortical disruption, epidural extension	Sacroplasty	Not available	Lesion ant	Cement in lesion	Minimal cortical	90% ant 2/3
87	M	L3, L4	Urothelial	Disrupted post cortex, disrupted ant cortex		5/10 to 5/10	Lesion post L4, lesions in entire body	Cement ant, cement in lesion	Small epidural, minimal cortical	85% ant 2/3, 80% ant 2/3
82	F	T12	Breast	Epidural extension, cortical disruption		8/10 to 7/10	Lat side of body, lesions in entire body	In lesion	Minimal venous	75% ant 2/3
78	F	T6	Plasmacytoma	Epidural extension, no post cortex		Not available	Post body	Cement in lesion	Small cortical, small epidural	75% ant 2/3
39	M	T11	Lymphoma	No post cortex		Not available	Ant body	Ant to lesion	Minimal venous	90% ant 2/3
83	M	L2	Lymphoma	Ant cortical disruption, epidural extension	Sacroplasty, L1 KP	8/10 to 5/10	Post part of body	In lesion	Minimal venous	95% ant 2/3
68	F	T7	Breast	No lat cortex, parasagittal soft tissue		8/10 to 5/10	Mid part of body	Ant to lesion	Minimal venous	100% ant 2/3
75	F	T12	Breast	Epidural extension, ant wall disruption	T11, L2 KP		Whole body	In lesion	Minimal cortical	40% ant column
83	F	T10	Myeloma	Epidural extension		5/10 to 3/10	Whole body	In lesion, around it	No leakage	65% ant column
64	M	L1	Myeloma	Lat wall defect			Whole body	In lesions	Minimal venous	75% ant column
80	F	L1	Myeloma	Inf and lat, cortical disruption			Whole body	In lesion	No leakage	80% ant column
80	F	L3	Renal cell	Epidural extension, no post cortex	L2 VP		Post body	Ant to lesion	Minimal venous	75% ant column
74	F	L1	Breast	Lateral cortex disruption; soft-tissue mass	T10, L4 VP	4/10 to 1/10	Ant part	In lesion	Minimal venous	100% ant column
59	F	L4	Myeloma	Absent post cortex	L5 VP	No change	Post part of body	In lesion, anterior	Minimal venous	90% ant
59	F	T9	Breast, colon	Absent post cortex	L4 VP	8/10 to 9/10	Post part of body	Ant to lesion	Minimal venous	100% ant
84	M	T6	Myeloma	Epidural, no post cortex			Post part of body	Ant to lesion	No leakage	90%
80	M	T8	Lung	No post cortex	T7, T8 VP	7/10 to 3/10	Ant body	In lesion	No leakage	95%
				Ant cortical destruction			Ant body	In lesion	No leakage	95%
				Ant wall destruction			Ant body	In lesion	No leakage	100% ant
				Ant lat cortical destruction			Lesion involves whole body	In lesion	No leakage	100% ant

Note:—SLE indicates systemic lupus; NR, nerve root; VP, vertebroplasty; KP, kyphoplasty; ant, anterior; post, posterior; NRB, nerve root block; RNRB, right NRB; inf, inferior; lat, lateral.