

**On-line Table 1: Routine sequences included in the MRI protocol used presently for brain tumor in our institution<sup>a</sup>**

Parameters	1.5T	3T
Isotropic precontrast 3D T1 turbo-field echo with reconstructions in 2 other orthogonal planes	TR/TE, 9/4 ms; voxel size 1 × 1 × 1 mm	TR/TE, 6/3 ms; voxel size 1 × 1 × 1 mm
Axial DWI with ADC map	TR/TE, 5500/75 ms; b-value = 0, 1000 s/mm <sup>2</sup> ; 5-mm thickness; skip, 1 mm	TR/TE, 3500/50 ms; b-value = 0, 1000 s/mm <sup>2</sup> ; 3-mm thickness; skip, 1 mm
FLAIR	TR/TE/TI, 7000/140/2300 ms; 5-mm thickness; skip, 1 mm	TR/TE/TI, 10,000/140/2800 ms; 3-mm thickness; skip, 1 mm
Axial TSE T2	TR/TE, 2700/120 ms; 5-mm thickness; skip, 1 mm	TR/TE, 6700/95 ms; 3-mm thickness; skip, 1 mm
Coronal TSE T2	TR/TE, 6000/120 ms; 5-mm thickness; skip, 1 mm	TR/TE, 6000/75 ms; 3-mm thickness; skip, 1 mm
Axial 2D gradient recalled-echo	TR/TE, 1000/16 ms, 5-mm thickness; skip, 1 mm	TR/TE, 1200/16 ms; 3-mm thickness; skip, 1 mm
Isotropic postcontrast 3D T1 turbo-field echo with reconstructions in 2 other orthogonal planes	TR/TE, 9/4 ms; voxel size, 1 × 1 × 1 mm	TR/TE, 6/3 ms; voxel size, 1 × 1 × 1 mm

<sup>a</sup> Both 1.5T and 3T are Achieva (Philips Healthcare, Best, the Netherlands).

**On-line Table 2: Routine sequences included in the MRI protocol used presently for spine tumor in our institution**

Parameters	1.5T
Sagittal T2 TSE	TR/TE, 3000/120 ms; 3-mm thickness; skip, 0.5 mm
Sagittal contrast-enhanced T1	TR/TE, 500/9 ms; 3-mm thickness; skip, 0.5 mm
Axial contrast-enhanced T1	TR/TE, 500/9 ms; 5-mm thickness; skip, 1 mm
Sagittal T2 spine sequences <sup>a</sup>	TR/TE, 3000/120 ms; 3-mm thickness; skip, 0.5 mm

<sup>a</sup> Optional.

**On-line Table 3: Locations of initial metastasis<sup>a</sup>**

Locations	Initial Metastasis (n = 25)				P Value <sup>b</sup>
	WNT (n = 0) (%)	SHH (n = 3) (%)	Group 3 (n = 8) (%)	Group 4 (n = 14) (%)	
Ependymal	0 (0)	0 (0)	3 (37.5)	6 (42.9)	.37
Lateral ventricles	0 (0)	0 (0)	2 (25)	4 (28.6)	.57
3rd V.I.R	0 (0)	0 (0)	1 (12.5)	5 (35.7)	.27
Leptomeningeal					.01 <sup>c</sup>
Supratentorial	0 (0)	0 (0)	2 (25)	8 (57.1)	.10
Infratentorial	0 (0)	3 (100)	7 (87.5)	8 (54.1)	.16
Spine	0 (0)	0 (0)	7 (87.5)	8 (57.1)	.02 <sup>c</sup>

**Note:**—3rd V.I.R indicates third ventricle infundibular recess.

<sup>a</sup> The sum of metastases in some locations is higher than total number of patients in the group because each case could have multiple metastases in >1 compartment.

<sup>b</sup> P value was determined using the Fisher exact test.

<sup>c</sup> Statistically significant.