

Variables	Postoperative CSF diversion		p-value
	Yes (10)	No (46)	
Sex			0.162 <sup>b</sup>
Female	2(8.3%)	22(91.7%)	
Male	8(25.0%)	24(75.0%)	
Tumor size (mm)	41(33-50)	36(31-41)	0.174
Age (years)	22.5(1-45)	25.5(11-41)	0.528
Tumor pathology			
Ependymoma	3(20.0%)	12(80.0%)	0.239 <sup>b c</sup>
Medulloblastoma	2(15.4%)	11(84.6%)	0.357 <sup>b c</sup>
Astrocytoma	4(36.4%)	7(63.6%)	
Lateral extension			0.713 <sup>b</sup>
Yes	2(13.3%)	13(86.7%)	
No	8(19.5%)	33(80.5%)	
Anterior extension			0.361 <sup>b</sup>
Yes	7(15.2%)	39(84.8%)	
No	3(30.0%)	7(70.0%)	
Caudal extension			0.727 <sup>b</sup>
Yes	7(20.0%)	28(80.0%)	
No	3(14.3%)	18(85.7%)	
Superior extension			0.003 <sup>b</sup>
Yes	5(62.5%)	3(37.5%)	
No	5(10.4%)	43(89.6%)	
Extent of resection			<0.001 <sup>b</sup>
GTR	2(5.0%)	38(95.0%)	
STR	8(50.0%)	8(50.0%)	

<sup>a</sup> Chi-square test.

<sup>b</sup> Fisher exact test.

<sup>c</sup> p value compared with astrocytoma