

Table. Image feature comparison

	Molecular Subtypes				<i>P</i> value ^a
	WNT	SHH	Group3	Group4	
Location of the primary tumor					
Six classes					
midline vermis/ fourth ventricle	79 (68.10%)	90 (43.69%)	54 (56.25%)	186 (57.94%)	<0.001
fourth ventricle- uni-CPA	21 (18.10%)	17 (8.25%)	14 (14.58%)	53 (16.51%)	
fourth ventricle-bi- CPA	7 (6.03%)	17 (8.25%)	20 (20.83%)	61 (19.00%)	
cerebellar hemisphere	1 (0.86%)	45 (21.84%)	0 (0.00%)	6 (1.87%)	
cerebellar hemisphere&midli ne/fourth ventricle	6 (5.17%)	35 (16.99%)	7 (7.29%)	14 (4.36%)	
within CPA	2 (1.72%)	2 (0.97%)	1 (1.04%)	1 (0.31%)	
Total	116 (100.00%)	206 (100.00%)	96 (100.00%)	321 (100.00%)	
Fourth-ventricle infiltration					
N	3 (2.59%)	47 (22.82%)	1 (1.04%)	7 (2.18%)	<0.001
Y	113 (97.41%)	159 (77.18%)	95 (98.96%)	314 (97.82%)	
Total	116 (100.00%)	206 (100.00%)	96 (100.00%)	321 (100.00%)	
Enhancement of the primary tumor					
Enhancement pattern					
none/minimal (<10%)	12 (12.63%)	125 (39.18%)	50 (24.51%)	21 (18.26%)	<0.001
heterogeneous (10%-50%)	63 (66.32%)	168 (52.66%)	126 (61.76%)	60 (52.17%)	
diffuse (>=50%)	20 (21.05%)	26 (8.15%)	28 (13.73%)	34 (29.57%)	
Total	95 (100.00%)	319 (100.00%)	204 (100.00%)	115 (100.00%)	
Enhancement ratio					
median (Q1, Q3)	34.80% (13.60%,53.85%)	21.85% (10.25%,37.85%)	32.60% (19.45%,47.15%)	14.40% (6.75%,28.30%)	<0.001
mean (std)	34.46% (22.09%)	25.49% (18.92%)	34.87% (19.82%)	19.66% (16.96%)	<0.001
Enhancement intensity ^b					
similar	66 (57.39%)	91 (44.61%)	58 (61.05%)	125 (39.18%)	0.002
lower	45 (39.13%)	106 (51.96%)	35 (36.84%)	177 (55.49%)	
none	4 (3.48%)	7 (3.43%)	2 (2.11%)	17 (5.33%)	

Total	115 (100.00%)	204 (100.00%)	95 (100.00%)	319 (100.00%)	
Other imaging features					
Tumor Margin					
N	70 (60.34%)	88 (43.14%)	62 (64.58%)	208 (64.80%)	<0.001
Y	46 (39.66%)	116 (56.86%)	34 (35.42%)	113 (35.20%)	
Total	116 (100.00%)	204 (100.00%)	96 (100.00%)	321 (100.00%)	
Peritumoral edema					
N	67 (57.76%)	94 (46.08%)	52 (54.17%)	189 (58.88%)	0.027
Y	49 (42.24%)	110 (53.92%)	44 (45.83%)	132 (41.12%)	
Total	116 (100.00%)	204 (100.00%)	96 (100.00%)	321 (100.00%)	
Cystic change/necrosis					
N	31 (26.72%)	57 (27.94%)	25 (26.04%)	59 (18.38%)	0.041
Y	85 (73.28%)	147 (72.06%)	71 (73.96%)	262 (81.62%)	
Total	116 (100.00%)	204 (100.00%)	96 (100.00%)	321 (100.00%)	
Hydrocephalus before Surgery					
N	42 (31.82%)	59 (23.32%)	31 (26.96%)	83 (21.45%)	0.086
Y	90 (68.18%)	194 (76.68%)	84 (73.04%)	304 (78.55%)	
Total	132 (100.00%)	253 (100.00%)	115 (100.00%)	387 (100.00%)	
All Dissemination					
M2 All Dissemination					
N	103 (96.26%)	160 (80.00%)	67 (77.01%)	241 (79.54%)	<0.001
Y	4 (3.74%)	40 (20.00%)	20 (22.99%)	62 (20.46%)	
Total	107 (100.00%)	200 (100.00%)	87 (100.00%)	303 (100.00%)	

Note:

^a Except for Enhancement Ratio, these *P* values are all based on chi-square test (Monte Carlo simulation is used). As for “median(Q1, Q3)” in Enhancement Ratio, *P* value is based on ANOVA and “mean(std)” is based on Kruskal-Wallis Rank Sum test.

^b The intensity levels are referred to arteriovenous vascular.