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| **Table 2. Patterns of intracranial solid metastases across the entire medulloblastoma dataset stratified by molecular subgroups** | | | | | | | | |
|  |  | Molecular subgroups | |  |  | Total |  | *P value* |
| WNT | SHH | Group3 | Group4 |  |
| Intracranial solid metastases | | | | | | | | |
| Y | | 4 (3.48%) | 40 (19.61%) | 20 (21.05%) | 62 (19.44%) | 126 (17.19%) |  | 0.0004\*\*\* |
| N | | 111 (96.52%) | 164 (80.39%) | 75 (78.95%) | 257 (80.56%) | 607 (82.81%) |  |  |
| Total | | 115 (100.00%) | 204 (100.00%) | 95 (100.00%) | 319 (100.00%) | 733 (100.00%) |  |  |
| Site of metastasesa | | | | | | | | |
| Ependymal metastases | | 1 (25.0%; 1/4) | 6 (15.0%; 6/40) | 2 (10.0%; 2/20) | 21 (33.9%; 21/62) | 30 (23.8%; 30/126) |  | 0.051 |
| 3rd V.I.R. metastases | | 2 (50.0%; 2/4) | 9 (22.5%; 9/40) | 8 (40.0%; 8/20) | 22 (35.5%; 22/62) | 41 (32.54%; 41/126) |  | 0.327 |
| Ependymal + 3rd. V.I.R. metastases | | 2 (50.0%; 2/4) | 13 (32.5%; 13/40) | 8 (40.0%; 8/20) | 33 (53.2%; 33/62) | 56 (44.4%; 56/126) |  | 0.205 |
| Supratentorial leptomeningeal metastases | | 1 (25.0%; 1/4) | 13 (32.5%; 13/40) | 3 (15.0%; 3/20) | 12 (19.4%; 12/62) | 29 (23.0%; 29/126) |  | 0.324 |
| Infratentorial leptomeningeal metastases | | 1 (25.0%; 1/4) | 21 (52.5%; 21/40) | 14 (70.0%; 14/20) | 21 (33.9%; 21/62) | 57 (45.2%; 57/126) |  | 0.017\* |
| Supratentorial + Infratentorial leptomeningeal metastases | | 2 (50.0%; 2/4) | 31 (77.5%; 31/40) | 14 (70.0%; 14/20) | 32 (51.6%; 32/62) | 79 (62.7%; 79/126) |  | 0.04\* |
| Signal patterns of ependymal metastases | | | | | | | | |
| Ependymal metastasesb | C-/D+ | 0 (0.0%) | 3 (50.0%) | 0 (0.0%) | 15 (71.4%) | 18 (60%) |  | 0.082 |
| C+/D+ | 1 (100.0%) | 3 (50.0%) | 2 (100.0%) | 5 (23.8%) | 11 (36.7%) |  | 0.055 |
| C+/NA | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (4.8%) | 1 (3.3%) |  | 1 |
| Total | 1 (100.0%) | 6 (100.0%) | 2 (100.0%) | 21 (100.0%) | 30 (100.0%) |  |  |
| 3rd V.I.R. metastases | C-/D+ | 0 (0.0%) | 1 (11.1%) | 0 (0.0%) | 7 (31.8%) | 8 (19.51%) |  | 0.255 |
| C+/D+ | 1 (50.0%) | 4 (44.4%) | 6 (75.0%) | 12 (54.5%) | 23 (56.10%) |  | 0.75 |
| C+/D- | 0 (0.0%) | 3 (33.3%) | 2 (25.0%) | 1 (4.5%) | 6 (14.63%) |  | 0.086 |
| C+/NA | 1 (50.0%) | 1 (11.1%) | 0 (0.0%) | 2 (9.1%) | 4 (9.76%) |  | 0.242 |
| Total | 2 (100.0%) | 9 (100.0%) | 8 (100.0%) | 22 (100.0%) | 41 (100.00%) |  |  |
| Ependymal and 3rd. V.I.R. metastases | C-/D+ | 0 (0.00%) | 4 (30.77%) | 0 (0.00%) | 18 (54.55%) | 22 (39.29%) |  | 0.010\* |
| C+/D+ | 1 (50.00%) | 6 (46.15%) | 6 (75.00%) | 13 (39.39%) | 26 (46.43%) |  | 0.3 |
| C+/D- | 0 (0.00%) | 3 (23.08%) | 2 (25.00%) | 1 (3.03%) | 6 (10.71%) |  | 0.068 |
| C+/NA | 1 (50.00%) | 1 (7.69%) | 0 (0.00%) | 3 (9.09%) | 5 (8.93%) |  | 0.237 |
| Total | 2 (100.00%) | 13 (100.00%) | 8 (100.00%) | 33 (100.00%) | 56 (100.00%) |  |  |
| C-/D+ pattern in ependymal and 3rd. V.I.R. metastasesc | | 0 (0.0%; 0/4) | 4 (10.0%; 4/40) | 0 (0.0%; 0/20) | 18 (29.03%; 18/62) | 22 (17.46%; 22/126) |  | 0.005\*\* |
| Signal patterns of leptomeningeal metastases | | | | | | | | |
| Supratentorial leptomeningeal metastases | C-/D+ | 0 (0.0%) | 1 (7.7%) | 0 (0.0%) | 0 (0.0%) | 1 (3.45%) |  | 1 |
| C+/D+ | 1 (100.0%) | 5 (38.5%) | 1 (33.3%) | 5 (41.7%) | 12 (41.38%) |  | 0.9 |
| C+/D- | 0 (0.0%) | 5 (38.5%) | 1 (33.3%) | 3 (25.0%) | 9 (31.03%) |  | 1 |
| C+/NA | 0 (0.0%) | 2 (15.4%) | 1 (33.3%) | 4 (33.3%) | 7 (24.14%) |  | 0.597 |
| Total | 1 (100.0%) | 13 (100.0%) | 3 (100.0%) | 12 (100.0%) | 29 (100.00%) |  |  |
| Infratentorial leptomeningeal metastases | C-/D+ | 0 (0.0%) | 1 (4.8%) | 0 (0.0%) | 0 (0.0%) | 1 (1.75%) |  | 1 |
| C+/D+ | 0 (0.0%) | 12 (57.1%) | 8 (57.1%) | 15 (71.4%) | 35 (61.40%) |  | 0.204 |
| C+/D- | 0 (0.0%) | 3 (14.3%) | 4 (28.6%) | 1 (4.8%) | 8 (14.04%) |  | 0.18 |
| C+/NA | 1 (100.0%) | 5 (23.8%) | 2 (14.3%) | 5 (23.8%) | 13 (22.81%) |  | 0.377 |
| Total | 1 (100.0%) | 21 (100.0%) | 14 (100.0%) | 21 (100.0%) | 57 (100.00%) |  |  |
| Supratentorial and infratentorial leptomeningeal metastases | C-/D+ | 0 (0.0%) | 2 (6.5%) | 0 (0.0%) | 0 (0.0%) | 2 (2.5%) |  | 0.517 |
| C+/D+ | 1 (50.0%) | 16 (51.6%) | 8 (57.1%) | 20 (62.5%) | 45 (57.0%) |  | 0.547 |
| C+/D- | 0 (0.0%) | 6 (19.4%) | 4 (28.6%) | 4 (12.5%) | 14 (17.7%) |  | 0.637 |
| C+/NA | 1 (50.0%) | 7 (22.6%) | 2 (14.3%) | 8 (25.0%) | 18 (22.8%) |  | 0.654 |
| Total | 2 (100.0%) | 31 (100.0%) | 14 (100.0%) | 32 (100.0%) | 79 (100%) |  |  |
| Note: "C-/D+" denotes cases with diffusion restriction but minimal or no postcontrast enhancement, while "C+/NA" indicates postcontrast enhancement with unavailable diffusion information due to the absence of a DWI sequence.  aThe percentage and corresponding p-value for each metastatic site (categorized into 6 classes as listed below) were computed specifically among subjects exhibiting intracranial solid metastases. bThe percentage and corresponding p-value for each signal pattern of ependymal metastases were computed among subjects exhibiting ependymal metastases. cThe percentage and corresponding p-value were computed within subjects exhibiting intracranial solid metastases. dPercentages may exceed 100% due to certain subjects exhibiting two metastases with different signal patterns.  \**P* = 0.01-0.05, \*\**P* = 0.001-0.01, \*\*\*P = 0.0001-0.001, \*\*\*\**P* < 0.0001. Key abbreviation: 3rd. V.I.R. = the third ventricular infundibular recess. | | | | | | | | |