Supplementary Information – Online Resource 1

Article: Magnetic resonance imaging characteristics of molecular subgroups in pediatric H3 K27M mutant diffuse midline glioma

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**Supplementary Table S1**

Epidemiological data and tumor characteristics (grading, localization) of H3 (H3.1/H3.3) K27M mutant and H3 K27 WT pDMG (absolute and relative (%) frequencies are displayed). Statistically significant differences ($p<.05$; for H3.1 vs. H3.3, H3.1 vs. WT, and H3.3 vs. WT $p<.017$) are shown in boldface.

|                           | Total pDMG ($n = 68$) | H3 K27M ($n = 52$) | H3 K27M subgroups | H3 K27 WT ($n = 16$) | $p$-value |
|---------------------------|-----------------------|--------------------|-------------------|----------------------|-----------|
|                           |                       |                    |                   |                      |           |
| Age (years), median [IQR] | 10.2 [6.3-13.1]       | 10.2 [6.9-13.0]    | 3.9 [3.1-6.8]     | 10.4 [7.7-13.1]     | 9.6 [1.5-13.6] | \[.48\] \[**.004**\] \[.51\] \[.35\] \[**.03**\] |
| Sex, n (%)                |                       |                    |                   |                      |           |
| Female                    | 33 (48.5)             | 26 (50.0)          | 3 (50.0)          | 23 (50.0)            | 7 (43.8)  | \[.78\] \[n.a.\] \[1.00\] \[.78\] \[.93\] |
| Male                      | 35 (51.5)             | 26 (50.0)          | 3 (50.0)          | 23 (50.0)            | 9 (56.3)  |           |
| Grade, n (%)              |                       |                    |                   |                      |           |
| WHO II                    | 3 (4.4)               | 3 (5.8)            | 1 (16.7)          | 2 (4.3)              | 0 (0.0)   | \[.41\] \[.35\] \[.38\] \[.49\] \[.34\] |
| WHO III                   | 33 (48.5)             | 23 (44.3)          | 3 (50.0)          | 20 (43.5)            | 10 (62.5) |           |
| WHO IV                    | 32 (47.1)             | 26 (50.0)          | 2 (33.3)          | 24 (52.2)            | 6 (37.5)  |           |
| Anatomic localization, n (%) |                    |                    |                   |                      |           |
| Thalamus/basal ganglia    | 24 (35.3)             | 19 (36.5)          | 2 (33.3)          | 17 (37.0)            | 5 (31.3)  | \[**.001**\] \[1.00\] \[.13\] \[**.002**\] \[.01\] |
| Midbrain tectum           | 2 (2.9)               | 0 (0.0)            | 0 (0.0)           | 0 (0.0)              | 2 (12.5)  |           |
| Pons                      | 29 (42.6)             | 27 (51.9)          | 4 (66.7)          | 23 (50.0)            | 2 (12.5)  |           |
|                | WT  | pDMG | IQR  | WHO  | Total |
|----------------|-----|------|------|------|-------|
| Spinal cord    | 10 (14.7) | 5 (9.6) | 0 (0.0) | 5 (10.9) | 5 (31.3) |
| Other          | 3 (4.4) | 1 (1.9) | 0 (0.0) | 1 (2.2) | 2 (12.5) |

*Note.* WT wildtype, pDMG pediatric diffuse midline glioma, IQR interquartile range, WHO World Health Organization. Relative frequencies summing up to 100% per column.

* a Mann-Whitney *U* test. b Kruskal-Wallis test. c Fisher’s exact test of independence. d No statistics performed as values are identical in both groups. e Fisher-Freeman-Halton test.