

Supplementary File 4

| Tumor # | Clinical features | | | Pathological features | | MRI feaures | | | | | | |
|---------|-------------------|-----|-----------------|-----------------------|----------------|----------------------|------------------|-------------------|-------------------|------------|-------------|-----------|
| | Gender | Age | Survival (days) | Histology | Molecular data | Tumor type | HPC/AMG | HPC/AMG | Tumor | Satellites | Multiple C+ | SVZ+ |
| | | | | | | (T1CE) <i>F1a</i> | C+ <i>F1b</i> | FL+ <i>F2b</i> | side <i>F3</i> | <i>F4</i> | <i>F5</i> | <i>F6</i> |
| 1 | M | 55 | NA | GBM | IDH1/2 WT | 2 | N | N | R | N | N | N |
| 2 | F | 66 | NA | GBM | IDH1/2 WT | 2 | Y | Y | L | N | N | Y |
| 3 | M | 58 | 542 | GBM | IDH1/2 WT | 3 | N | N | R | N | N | N |
| 4 | M | 58 | 388 | GBM | IDH1/2 WT | 2 | Y | Y | R | N | N | Y |
| 5 | F | 52 | 550 | GBM | IDH1/2 WT | 4 | N | N | R | N | MF | N |
| 6 | M | 46 | NA | GBM | IDH1/2 WT | 4 | N | N | R | N | N | N |
| 7 | M | 54 | 416 | GBM | IDH1/2 WT | 4 | Y | Y | L | N | N | Y |
| 8 | M | 70 | 372 | GBM | IDH1/2 WT | 4 | N | N | L | N | MF | N |
| 9 | M | 52 | 489 | GBM | IDH1/2 WT | 2 | N | N | L | N | N | N |
| 10 | M | 51 | 647 | GBM | IDH1/2 WT | 1 | N | Y | R | N | MC | N |
| 11 | M | 73 | 405 | GBM | IDH1/2 WT | 3 | Y | Y | R | N | N | Y |
| 12 | M | 74 | 340 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 13 | M | 73 | 124 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 14 | F | 68 | 414 | GBM | IDH1/2 WT | 2 | N | N | R | N | N | Y |
| 15 | M | 76 | 118 | ACIII | IDH1/2 WT | 4 | Y | Y | L | Y | MF | Y |
| 16 | F | 75 | 280 | ACIII | IDH1/2 WT | 1 | Y | Y | R | N | N | N |
| 17 | M | 47 | NA | ACIII | IDH1 pos | 2 | Y | Y | R | N | N | N |
| 18 | F | 71 | 607 | GBM | IDH1 WT | 2 | N | N | L | N | N | Y |
| 19 | M | 67 | NA | GBM | IDH1 WT | 4 | N | N | L | Y | N | N |
| 20 | F | 40 | 219 | GBM | IDH1/2 WT | 2 | N | Y | R | Y | N | Y |
| 21 | F | 66 | 666 | ACIII | IDH1/2 WT | 4 | N | N | L | Y | N | N |
| 22 | M | 66 | 367 | GBM | IDH1/2 WT | 3 | N | N | R | N | N | Y |
| 23 | M | 64 | NA | GBM | IDH1/2 WT | 2 | N | N | R | N | N | Y |
| 24 | F | 62 | 210 | GBM | IDH1 WT | 1 | Y | Y | R | N | N | Y |
| 25 | M | 74 | 430 | GBM | IDH1/2 WT | 2 | N | Y | L | N | N | N |
| 26 | F | 67 | 187 | GBM | IDH1 WT | 1 | Y | Y | R | Y | N | Y |
| 27 | M | 65 | NA | GBM | IDH1 WT | 2 | N | N | R | N | N | N |
| 28 | F | 68 | 307 | GBM | IDH1 WT | 1 | Y | Y | R | Y | MC | Y |

| | | | | | | | | | | | | |
|----|---|----|-----|-------------|--------------|---|---|---|----|---|----|---|
| 29 | F | 56 | 45 | GBM | IDH1 WT | 4 | N | N | BL | Y | MC | N |
| 30 | M | 54 | 333 | ACIII | IDH1/2 WT | 2 | N | N | L | N | N | N |
| 31 | M | 65 | 420 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 32 | M | 48 | 458 | GBM | IDH1/2 WT | 1 | Y | Y | R | N | N | Y |
| 33 | M | 60 | NA | GBM | IDH1 WT | 4 | N | N | L | N | N | N |
| 34 | M | 49 | NA | ACIII | IDH1 pos | 3 | N | N | L | N | N | N |
| | | | | | 1p/19q loss | | | | | | | |
| 35 | M | 65 | 560 | GBM | IDH1/2 WT | 1 | Y | Y | R | N | N | Y |
| 36 | F | 63 | NA | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 37 | M | 74 | 200 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | Y |
| 38 | M | 80 | 88 | GBM | IDH1/2 WT | 2 | Y | Y | R | N | N | Y |
| 39 | M | 72 | 410 | GBM | IDH1 WT | 4 | N | N | R | N | N | N |
| 40 | F | 46 | 662 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 41 | M | 56 | 204 | GBM | IDH1/2 WT | 4 | N | N | R | N | N | Y |
| 42 | M | 66 | 422 | GBM | IDH1 WT | 4 | N | N | L | N | N | N |
| | | | | Gliosarcoma | | | | | | | | |
| 43 | M | 70 | 581 | ACIII | IDH1 WT | 4 | N | N | L | Y | N | N |
| 44 | M | 68 | 420 | GBM | IDH1 WT | 4 | N | N | R | Y | N | N |
| 45 | F | 75 | 576 | GBM | IDH1 WT | 4 | N | N | L | N | N | Y |
| 46 | M | 82 | 327 | GBM | Not known | 2 | N | N | R | Y | N | N |
| 47 | M | 47 | 200 | GBM | IDH1 WT | 2 | N | N | R | N | N | Y |
| 48 | M | 63 | 353 | GBM | IDH1 WT | 2 | N | N | L | N | N | Y |
| 49 | M | 50 | 610 | GBM | IDH1 WT | 4 | N | N | R | N | N | N |
| 50 | M | 69 | 540 | ACIII | IDH1 WT | 4 | N | N | L | N | N | N |
| | | | | | 1p19q intact | | | | | | | |
| 51 | M | 58 | 364 | GBM | IDH1 WT | 2 | N | N | R | N | N | Y |
| 52 | F | 64 | 761 | ACIII | IDH1 WT | 2 | Y | Y | L | Y | N | Y |
| 53 | M | 61 | 138 | ACIII | IDH1 WT | 2 | Y | Y | R | Y | N | Y |
| 54 | M | 78 | 383 | GBM | IDH1/2 WT | 4 | N | N | L | N | N | N |
| 55 | M | 71 | 146 | GBM | IDH1 WT | 2 | N | Y | R | Y | N | N |
| 56 | M | 60 | 109 | GBM | IDH1 WT | 4 | N | N | R | N | N | Y |
| 57 | M | 75 | 262 | GBM | IDH1 WT | 3 | N | Y | R | Y | MF | Y |
| 58 | F | 66 | 532 | GBM | IDH1/2 WT | 2 | N | N | R | Y | N | Y |
| 59 | M | 65 | 263 | GBM | IDH1/2 WT | 4 | N | N | L | Y | N | Y |

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|----|---|----|------|-------|-----------|---|---|---|---|---|---|---|
| 60 | M | 67 | 582 | GBM | IDH1/2 WT | 1 | N | N | L | N | N | N |
| 61 | M | 54 | 1183 | GBM | IDH1/2 WT | 2 | Y | Y | L | N | N | Y |
| 62 | F | 63 | 558 | GBM | IDH1 WT | 4 | N | N | L | N | N | N |
| 63 | M | 33 | 267 | GBM | IDH1 WT | 3 | Y | Y | R | Y | N | Y |
| 64 | F | 54 | 377 | GBM | IDH1/2 WT | 2 | N | N | R | N | N | N |
| 65 | F | 58 | NA | GBM | IDH1/2 WT | 4 | N | N | L | Y | N | N |
| 66 | M | 47 | 639 | ACIII | IDH1 WT | 4 | N | N | R | N | N | N |
| 67 | M | 60 | 145 | ACIII | IDH1 WT | 2 | N | N | L | N | N | N |
| 68 | M | 76 | 296 | GBM | IDH1 WT | 3 | N | N | L | Y | N | N |
| 69 | F | 72 | 288 | GBM | IDH1 WT | 4 | N | Y | R | N | N | Y |
| 70 | M | 70 | 215 | GBM | IDH1 WT | 1 | Y | Y | L | Y | N | Y |