**OS: N = 515 with 109 events**

| | HR (95% CI) | P–value |
|---|---|---|
| Biopsy only | 1.00 ( NA–NA) | |
| Gross/Near total resection | 0.22 (0.1–0.4) | P < 0.01 |
| Partial resection | 0.37 (0.2–0.6) | P < 0.01 |
| LGG | 1.00 ( NA–NA) | |
| non–LGG | 19.18 (5.5–67.5) | P < 0.01 |
| Cluster 6 | 1.00 ( NA–NA) | |
| Cluster 1 | 5.18 (0.5–52.4) | P = 0.16 |
| Cluster 10 | 5.48 (0.7–45.9) | P = 0.12 |
| Cluster 2 | 5.21 (0.6–47.0) | P = 0.14 |
| Cluster 3 | 9.68 (1.2–77.8) | P = 0.03 |
| Cluster 4 | 8.53 (1.1–64.0) | P = 0.04 |
| Cluster 5 | 5.07 (0.6–40.2) | P = 0.12 |
| Cluster 7 | 26.04 (3.5–195.5) | P < 0.01 |
| Cluster 8 | 12.55 (1.6–95.8) | P = 0.01 |
| Cluster 9 | 7.70 (1.0–58.6) | P = 0.05 |
| CLK1 Ex4 TPM:age at diagnosis years | 1.00 (1.0–1.0) | P = 0.56 |
| age at diagnosis years | 0.97 (0.9–1.0) | P = 0.35 |
| CLK1 Ex4 TPM | 0.96 (0.9–1.0) | P = 0.29 |

Hazard Ratio ± 95% CI