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| **Table S1** The clinical characteristics of GBM patients in TCGA cohort. |   |
| **Characteristic** |  | **Risk score** |  | ***P* value** |
|   | Low (*n*=77) | High (*n*=76) |
| Gender |  |  |  |  |  |  | 0.241 |
|  | Male |  | 48 (62.34%) | 48 (63.16%) |  |
|  | Female  |  | 25 (32.47%) | 24 (31.58%) |  |
|  | NA |  |  4 (5.19%) |  4 (5.26%) |  |
| Age |  |  |  |  |  |  | 0.549 |
|  | >60 |  | 34 (44.16%） | 38 (50.00%) |  |
|  | ≤60 |  | 39 (50.65%） | 34 (44.74%) |  |
|  | NA |  |  4 (5.19%) |  4 (5.26%) |  |
| Expression subtypes |  |  |  |  | 0.003*\*\** |
|  | Mes |  | 22 (28.57%) | 26 (34.21%) |   |
|  | No-Mes |  | 42 (54.55%) | 40 (52.63%) |  |
|  | NA |  | 13 (16.88%) | 10 (16.16%) |  |
| IDH1 status  |  |  |  |  |  | 0.002*\*\** |
|  | Mutation |  | 10 (12.99%) | 0 (0%) |  |   |
|  | Wild type  | 61 (79.22%) | 70 (92.11%) |   |
|  | NA |  |  6 (7.79%) |  6 (7.89%) |  |
| MGMT status  |  |  |  |  |  | 0.003*\*\** |
|  | Methylated | 28 (36.36%) | 19 (25.00%) |   |
|  | Unmethylated | 29 (37.66%) | 36 (47.37%) |  |
|  | NA |  | 20 (25.97%) | 21 (27.63%) |  |
| Radiotherapy  |  |  |  |  |  | 0.295 |
|  | Yes |  | 67 (87.01%) | 61 (80.26%) |  |
|  | No |  |  8 (10.39%) | 11 (14.47%) |  |
|  | Missing |  |  2 (2.60%) |  4 (5.26%) |  |
| Chemotherapy |  |  |  |  |  | 0.4435 |
|  | Yes |  | 55 (71.43%) | 49 (64.47%) |  |
|  | No  |  | 19 (24.68%) | 21 (27.63%) |  |
|  | NA |  |  3 (3.90%) |  6 (7.89%) |  |
|  |
| **Abbreviations:** IDH1, isocitrate dehydrogenase 1; MGMT, O(6)-methylguanine-DNA methyltransferase. *\*\* P* <0.01*.* |