**Table S3.** **Clinical characteristics of HCC patients in the training and validation groups**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Subcategory** | **Training group, *n*=186** | **Validation group, *n*=184** |
| Age in years | >60 | 93 | 84 |
|  | ≤60 | 93 | 100 |
| Sex | Female | 62 | 59 |
|  | Male | 124 | 125 |
| Grade | G1 | 28 | 27 |
|  | G2 | 90 | 87 |
|  | G3 | 58 | 63 |
|  | G4 | 6 | 6 |
|  | Unknown | 4 | 1 |
| Stage | I | 85 | 86 |
|  | II | 51 | 34 |
|  | III | 33 | 52 |
|  | IV | 2 | 3 |
|  | Unknown | 15 | 9 |
| T | T1 | 90 | 91 |
|  | T2 | 57 | 36 |
|  | T3 | 33 | 47 |
|  | T4 | 5 | 8 |
|  | TX/unknown | 1 | 2 |
| N | N0 | 126 | 126 |
|  | N1 | 1 | 3 |
|  | NX/unknown | 59 | 55 |
| M | M0 | 128 | 138 |
|  | M1 | 1 | 3 |
|  | MX/unknown | 57 | 43 |
| Risk | Low | 93 | 86 |
|  | High | 93 | 98 |

HCC, hepatocellular carcinoma.