**Table S3.** The corresponding score and the formula of our nomogram models.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **Categories** | **Points (for patients with adjuvant TACE)** | **Points (for patients without adjuvant TACE)** |
| Portal hypertension | No | 0 | 0 |
| Yes | 51.94777 | 31.19859 |
| Child-Pugh grade | A | 0 | 0 |
| B | 60.05807 | 51.15008 |
| Preoperative AFP level | ≤ 400 ug/L | 0 | 0 |
| > 400 ug/L | 60.30426 | 39.33928 |
| Maximum tumor size | < 5.0 cm | 0 | 0 |
| 5.0 ~ 9.9 cm | 35.32567 | 25.82731 |
| ≥ 10.0 cm | 70.65135 | 51.65426 |
| Tumor number | 1 | 0 | 0 |
| 2 | 31.78122 | 35.10249 |
| 3 | 63.56243 | 70.40299 |
| Macrovascular invasion | No | 0 | 0 |
| Yes | 100 | 100 |
| Microvascular invasion | No | 0 | 0 |
| Yes | 39.30759 | 41.68323 |
| Resection margin | ≥ 1.0 cm | 0 | 0 |
| < 1.0 cm | 40.18231 | 25.85738 |
| **Points** = Portal hypertension + Child-Pugh + Preoperative AFP level + Maximum tumor size + Tumor number + Macrovascular invasion + Microvascular invasion + Resection margin.  |
| **For patients with adjuvant TACE:**1) Expected survival time = 1.977e-06×Points3 + -0.0011054×Points2 + -0.084758999×Points + 93.8919540782) 3-years survival probability = 1.9 e-08×Points3 + -1.6233 e-05×Points2 + 0.001217872×Points + 0.8741812523) 5-years survival probability = 3.5 e-08×Points3 + -1.8669 e-05×Points2 + -0.000184557×Points + 0.82509684 |
| **For patients without adjuvant TACE:**1) Expected survival time = 7.594 e-06×Points3+-0.002434342×Points2 + -0.225062883×Points + 99.6510760452) 3-years survival probability =3.7e-08×Points3+-2.0361 e-05×Points2+ -0.000396771×Points + 0.896251275 3) 5-years survival probability = 6.7e-08×Points3+-2.4271 e-05×Points2+ -0.001407053×Points + 0.806544868  |