**Supplementary Table 1. Association between UFL1 expression and clinicopathologic characteristics of HCC patients in TMA cohort of Zhongshan.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Characteristics** | **Total(%)(N=98)** | **Low(%)(N=49)** | **High(%)(N=49)** | ***P* value** |
| Gender |  |  |  | 0.505 |
| Female | 10(10.20) | 6(6.12) | 4(4.08) |  |
| Male | 88(89.80) | 43(43.88) | 45(45.92) |  |
| Age (years) |  |  |  | 0.069 |
| ≤ 50 | 47(47.96) | 19(19.39) | 28(28.57) |  |
| ˃ 50 | 51(52.04) | 30(30.61) | 21(21.43) |  |
| AFP(μg/L) |  |  |  | 0.527 |
| ≤ 20 | 35(35.71) | 19(19.39) | 16(16.33) |  |
| ˃ 20 | 63(64.29) | 30(30.61) | 33(33.67) |  |
| Liver Cirrhosis |  |  |  | 0.161 |
| No | 15(15.31) | 5(5.10) | 10(10.20) |  |
| Yes | 83(84.69) | 44(44.90) | 39(39.80) |  |
| MVI |  |  |  | 1.000 |
| No | 50(51.02) | 25(25.51) | 25(25.51) |  |
| Yes | 48(48.98) | 24(24.49) | 24(24.49) |  |
| Tumor number |  |  |  | 0.790 |
| Single | 81(82.65) | 40(40.82) | 41(41.84) |  |
| Multiple | 17(17.35) | 9(9.18) | 8(8.16) |  |
| **Tumor size (cm)** |  |  |  | **0.015** |
| ≤ 5 | 48(48.98) | 18(18.37) | 30(30.61) |  |
| ˃ 5 | 50(51.02) | 31(31.63) | 19(19.39) |  |
| Tumor encapsulation |  |  |  | 0.840 |
| Yes | 47(47.96) | 24(24.49) | 23(23.47) |  |
| No | 51(52.04) | 25(25.51) | 26(26.53) |  |
| Tumor differentiation |  |  |  | 0.285 |
| I-II | 65(66.33) | 35(35.71) | 30(30.61) |  |
| III-IV | 33(33.67) | 14(14.29) | 19(19.39) |  |
| TNM stage |  |  |  | 0.821 |
| I+II | 71(72.45) | 35(35.71) | 36(36.73) |  |
| III+IV | 27(27.55) | 14(14.29) | 13(13.27) |  |
| BCLC stage |  |  |  | 0.539 |
| 0+A | 41(41.84) | 22(22.45) | 19(19.39) |  |
| B+C | 57(58.16) | 27(27.55) | 30(30.61) |  |
| HBsAg |  |  |  | 0.616 |
| Negative | 20(20.41) | 9(9.18) | 11(11.22) |  |
| Positive | 78(79.59) | 40(40.82) | 38(38.78) |  |

Abbreviations: AFP, alpha-fetoprotein; MVI, Microvascular invasion; TNM, tumor-node-metastasis; BCLC, Barcelona ​Clinic ​Liver ​Cancer. *P* < 0.05 was considered statistically significant by the Pearson chi-square tes