**Table S2.** Univariate and Multivariate Analysis of OS of Patients in Cohort 1

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| **Variables** | **Univariate analysis** | **Multivariate analysis** |
| **HR (95% CI)** | **P value** | **HR (95% CI)** | **P value** |
| Gender | Female vs. male | 0.673 (0.396-1.144) | 0.143 |  |  |
| Age (years) | > 50 vs. ≤ 50 | 0.967 (0.634-1.475) | 0.878 |  |  |
| HBsAg | Positive vs. negative | 1.294 (0.741-2.258) | 0.365 |  |  |
| AFP (μg/L) | > 400 vs. ≤ 400 | 1.647 (1.079-2.515) | **0.021** | 0.990 (0.612-1.602) | 0.968 |
| Satellite | Yes vs. no | 2.396 (1.554-3.694) | **< 0.001** | 1.567 (0.896-2.737) | 0.115 |
| MVI | Yes vs. no | 2.439 (1.579-3.767) | **< 0.001** | 1.185 (0.632-2.223) | 0.597 |
| PVTT | Yes vs. no | 2.902 (1.756-4.795) | **< 0.001** | 0.954 (0.393-2.313) | 0.917 |
| Tumor size (cm) | ˃ 5 vs. ≤ 5 | 1.316 (0.854-2.027) | 0.214 |  |  |
| Single or multiple | Multiple vs. single | 2.645 (1.637-4.274) | **< 0.001** | 1.540 (0.754-3.146) | 0.236 |
| BCLC | B/C vs 0/A | 0.577(0.327-1.019) | 0.051 | 1.120 (0.684-1.831) | 0.653 |
| TNM | III/IV vs. I/II | 1.530 (0.999-2.343) | **< 0.001** | 1.642 (0.695-3.877) | 0.258 |
| Child-Pugh | B vs. A | 1.798 (0.924-3.497) | **0.084** | 1.420 (0.627-3.215) | 0.401 |
| DLAT | High vs. low | 2.574 (1.667-3.975) | **< 0.001** | 2.215 (1.353-3.624) | **0.002** |

OS: overall survival; HBsAg: hepatitis B virus surface antigen; AFP: α-fetoprotein; MVI: macroscopic vascular invasion; PVTT: portal vein tumor thrombus; BCLC: Barcelona Clinic Liver Cancer Stage; TNM: tumor, node, metastasis.