**Table S3.** Univariate and Multivariate Analysis of DFS 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 | 0.642 (0.378-1.092) | 0.102 |  |  |
| Age (years) | > 50 vs. ≤ 50 | 0.943 (0.618-1.440) | 0.787 |  |  |
| HBsAg | Positive vs. negative | 1.324 (0.758-2.310) | 0.324 |  |  |
| AFP (μg/L) | > 400 vs. ≤ 400 | 1.646 (1.079-2.512) | 0.021 | 1.028 (0.645-1.637) | 0.908 |
| Satellite | Yes vs. no | 2.438 (1.584-3.752) | < 0.001 | 1.667 (0.989-2.812) | 0.055 |
| MVI | Yes vs. no | 2.554 (1.658-3.937) | < 0.001 | 1.436 (0.796-2.592) | 0.229 |
| PVTT | Yes vs. no | 2.750 (1.664-4.545) | < 0.001 | 1.155 (0.526-2.537) | 0.719 |
| Tumor size (cm) | ˃ 5 vs. ≤ 5 | 1.239 (0.805-1.909) | 0.330 |  |  |
| Single or multiple | Multiple vs. single | 2.502 (1.550-4.039) | < 0.001 | 1.781 (0.939-3.380) | 0.077 |
| BCLC | B/C vs. 0/A | 1.544 (1.008-2.365) | 0.046 | 1.023 (0.631-1.657) | 0.928 |
| TNM | III/IV vs. I/II | 2.763 (1.766-4.321) | < 0.001 | 1.128 (0.531-2.398) | 0.755 |
| Child-Pugh | B vs. A | 1.584 (0.815-3.077) | 0.175 |  |  |
| DLAT | High vs. low | 2.692 (1.740-4.164) | < 0.001 | 2.374 (1.447-3.894) | < 0.001 |

DFS: disease-free 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.