**Table S1.** Baseline Characteristics of Patients in Cohort 1

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| **Characteristics** | **DLAT low****N = 60** | **DLAT high****N = 60** | **P valuea** |
| Gender | Male | 44 | 48 | 0.517 |
| Female | 16 | 12 |
| Age (years) | ≤50 | 28 | 36 | 0.200 |
| ˃50 | 32 | 24 |
| HBsAg | Positive | 46 | 52 | 0.238 |
| Negative | 14 | 8 |
| AFP (μg/L) | ˃ 400 | 24 | 34 | 0.100 |
| ≤ 400 | 36 | 26 |
| Satellite | Yes | 26 | 33 | 0.273 |
| No | 34 | 27 |
| MVI | Yes | 17 | 26 | 0.128 |
| No | 43 | 34 |
| PVTT | Yes | 3 | 20 | < 0.001 |
| No | 57 | 40 |
| Tumor size (cm) | ˃ 5 | 33 | 38 | 0.458 |
| ≤ 5 | 27 | 22 |
| Single or multiple | Multiple | 11 | 16 | 0.382 |
| Single | 49 | 44 |
| BCLC | 0/A | 42 | 16 | < 0.001 |
| B/C | 18 | 44 |
| TNM | III/IV | 10 | 25 | 0.005 |
| I/II | 50 | 35 |
| Child-Pugh | A | 54 | 54 | 1.000 |
| B | 6 | 6 |

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. aPvalues were calculated using Chi-squared test.