| Variable | Univariate | Multivariate |
|----------|------------|--------------|
|          | OR 95% CI  | P-value      | OR 95% CI  | P-value |
| **Demographical variables** | | | | |
| Age (years) | 0.985 0.946–1.027 | 0.476 | - | - |
| Male sex | 1.523 0.538–4.309 | 0.428 | - | - |
| Body mass index (kg/m²) | 1.122 0.976–1.289 | 0.106 | - | - |
| **Laboratory variables** | | | | |
| Aspartate aminotransferase (IU/L) | 1.104 1.001–1.028 | 0.048 | 1.013 0.998–1.029 | 0.079 |
| Alanine aminotransferase (IU/L) | 1.002 0.992–1.012 | 0.691 | - | - |
| Platelet count (10¹³/L) | 1.002 0.995–1.009 | 0.546 | - | - |
| HBV-DNA levels (log10 IU/mL) | 1.016 0.834–1.238 | 0.874 | - | - |
| Alpha-fetoprotein (ng/mL) | 1.002 0.995–1.009 | 0.711 | - | - |
| Des-gamma carboxyprothrombin (mAU/mL) | 1.000 1.000–1.000 | 0.589 | - | - |
| ICG R15 (%) | 1.026 0.981–1.074 | 0.259 | - | - |
| WFA⁺-M2BP (COI) | 1.210 0.827–1.771 | 0.326 | - | - |
| On-going antiviral therapy | 1.051 0.204–5.416 | 0.952 | - | - |
| **Operative variables** | | | | |
| Major hepatectomy (vs. minor) | 0.233 0.101–0.537 | 0.001 | 4.254 1.824–9.919 | 0.001 |
| Open surgery (vs. robotic or laparoscopic) | | | | |
| Blood loss (mL) | 1.000 1.000–1.001 | 0.178 | - | - |
| Blood transfusion | 2.580 0.721–9.227 | 0.145 | - | - |
| **Tumor pathology** | | | | |
| Maximal tumor size (cm) | 1.032 0.842–1.264 | 0.762 | - | - |
| Multiple tumors (vs. single) | 0.560 0.122–2.582 | 0.457 | - | - |
| Portal vein invasion | 0.338 0.042–2.691 | 0.305 | - | - |
| Microscopic vascular invasion | 0.805 0.358–1.813 | 0.601 | - | - |
| Satellite nodule | 1.071 0.222–5.171 | 0.932 | - | - |
| Edmondson-Steiner grade III-V (vs. I-II) | 0.936 0.413–2.118 | 0.873 | - | - |
| **Non-tumor pathology** | | | | |
| F4 fibrosis (vs. F0-3) | 2.235 0.926–5.393 | 0.074 | - | - |
| A3 activity grade (vs. A0-2) | 0.663 0.078–5.608 | 0.706 | - | - |

PHLF, posthepatectomy liver failure; OR, odds ratio; CI, confidence interval; HBV, hepatitis B virus; ICG R15, indocyanine green retention rate at 15 minutes; WFA⁺-M2BP, Wisteria floribunda agglutinin-positive human Mac-2 binding protein.