

Table S1. Univariate and multivariable analysis of the risk Factors of postoperative transfusion.

| | Univariate | | | Multivariate | | |
|------------------------------------|------------|------------|---------|--------------|-----------|---------|
| | OR | 95% CI | P-value | OR | 95% CI | P-value |
| PNI (< 44) | 2.41 | 1.20–4.83 | 0.014 | 1.92 | 0.90–4.10 | 0.089 |
| Age | 0.99 | 0.96–1.03 | 0.727 | | | |
| Sex (male) | 1.32 | 0.59–2.98 | 0.499 | | | |
| BMI | 0.93 | 0.82–1.05 | 0.242 | | | |
| DM | 0.45 | 0.06–3.40 | 0.445 | | | |
| HTN | 1.35 | 0.40–4.54 | 0.624 | | | |
| MELD scores | 1.37 | 1.09–1.71 | 0.007 | 1.27 | 0.98–1.64 | 0.066 |
| CTP scores | 2.15 | 1.23–3.75 | 0.007 | | | |
| TNM staging | | | 0.070 | | | |
| 1 | 1.00(Ref.) | | | | | |
| 2 | 3.73 | 1.32–10.57 | 0.013 | | | |
| 3 | 4.40 | 0.94–20.51 | 0.059 | | | |
| 4 | 1.45 | 0.65–3.24 | 0.362 | | | |
| Hemoglobin | 0.84 | 0.68–1.03 | 0.100 | | | |
| RDW | 1.20 | 1.02–1.42 | 0.030 | | | |
| Operation time; min | 1.01 | 1.01–1.01 | < 0.001 | 1.01 | 1.01–1.01 | < 0.001 |
| Synthetic colloid use | 2.38 | 1.12–5.05 | 0.024 | 1.97 | 0.90–4.30 | 0.090 |
| Extensive surgery (≥3 segments) | 1.60 | 0.37–6.92 | 0.529 | | | |
| Laparoscopic surgery | 0.63 | 0.24–1.65 | 0.347 | | | |

OR, odds ratio; CI, confidence interval; BMI, body mass index; DM, diabetes mellitus; HTN, hypertension; MELD, model for end-stage liver disease; CTP, child-turcotte-pugh; RDW, red cell distribution width; PNI, prognostic nutritional index; SD, standard deviation. Values are expressed as the mean ± SD, median (interquartile range), or n (proportion).