

Figure S1 Graft survival after HOPE. The association between graft survival and EAD analyzed with cox proportional hazards model.

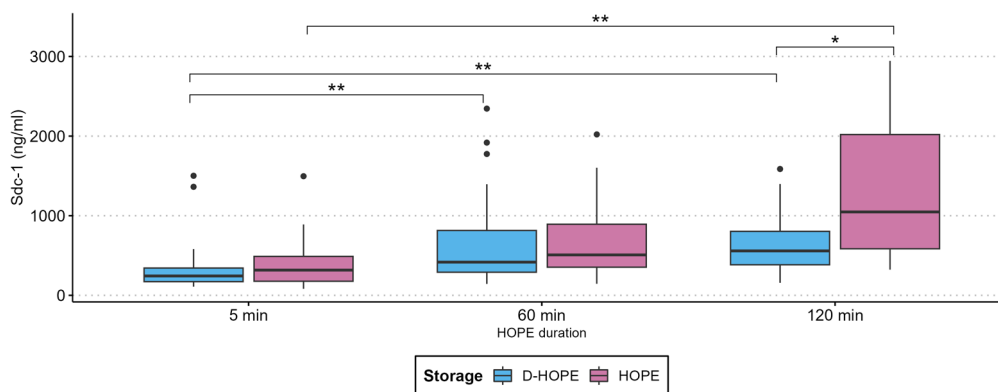


Figure S2 Lower concentration of Syndecan-1 in perfusate of D-HOPE compared to HOPE. Asterisks are indicating P values of Mann-Whitney U testing: *, $P \leq 0.05$; **, $P \leq 0.01$. Number of observations: 5 min, $n=39$; 60 min, $n=38$; 120 min, $n=31$.

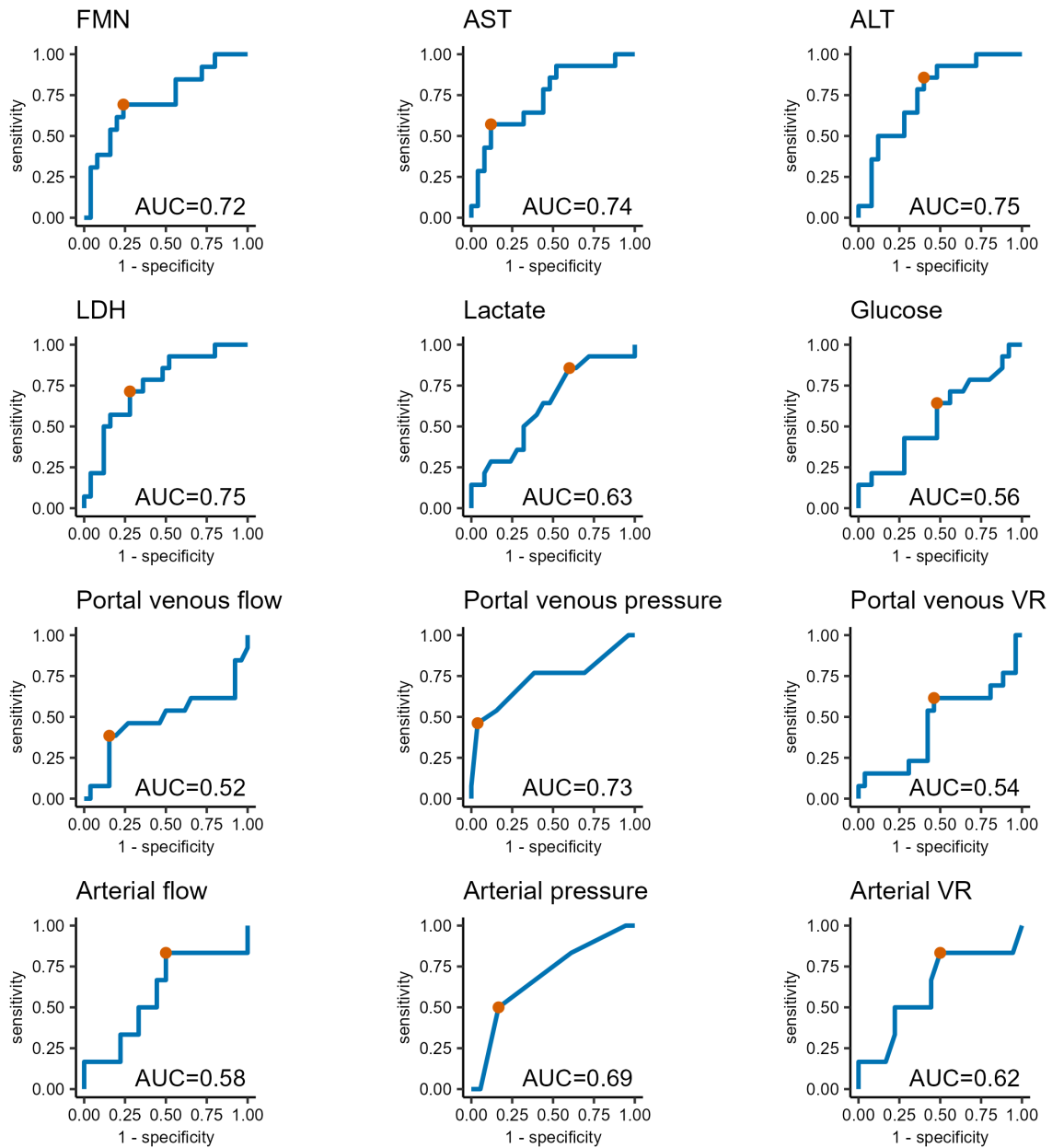


Figure S3 Receiver operating characteristic of perfusion variables at 60 minutes of HOPE.

Table S1 Correlation of syndecan-1 concentration during hypothermic oxygenated perfusion, recipient serum variables with and donor characteristics

| | Time point | Sdc-1 60 min |
|---------------------------|------------|--------------|
| Recipient serum variables | | |
| Sdc-1 | Post OP | 0.34* |
| | POD1 | 0.05 |
| | POD3 | 0.02 |
| | POD7 | 0.10 |
| AST | Peak | 0.38* |
| | POD1 | 0.40* |
| | POD7 | 0.23 |
| ALT | Peak | 0.37* |
| | POD1 | 0.36* |
| | POD7 | 0.27 |
| γGT | Peak | -0.02 |
| | POD1 | -0.13 |
| | POD7 | 0.09 |
| Alkaline phosphatase | Peak | 0.07 |
| | POD1 | -0.03 |
| | POD7 | 0.22 |
| Bilirubin | Peak | 0 |
| | POD1 | -0.03 |
| | POD7 | 0.31 |
| GFR | Peak | -0.05 |
| | POD1 | -0.02 |
| | POD7 | 0.01 |
| INR | Peak | -0.01 |
| | POD1 | 0.17 |
| | POD7 | 0.12 |
| aPTT | Peak | 0.06 |
| Platelets | Peak | -0.16 |
| | POD1 | -0.24 |
| | POD7 | -0.23 |
| Hemoglobin | Peak | -0.14 |
| | POD1 | 0.01 |
| | POD7 | 0.09 |
| Creatinine | Peak | 0.07 |
| | POD1 | -0.05 |
| | POD7 | 0.14 |
| Donor Characteristics | | |
| Age | - | -0.12 |
| BMI | - | -0.09 |
| Cold ischemic time (min) | - | 0.36* |
| DRI | - | -0.12 |
| γGT (U/L) | - | -0.02 |
| Height (cm) | - | 0.33* |

*, $P \leq 0.05$ of Pearson-correlation.

Table S2 Logistic regression for perfusion variables and the occurrence of early allograft dysfunction

| Logistic regression for occurrence of EAD | Univariate | | Multivariate | |
|---|------------|---------|--------------|---------|
| | Odds ratio | P value | Odds ratio | P value |
| Recipient | | | | |
| Sex | 0.278 | 0.26 | – | – |
| Age | 1.033 | 0.35 | – | – |
| BMI | 1.046 | 0.475 | – | – |
| MELD score | 1.033 | 0.50 | – | – |
| Donor | | | | |
| Sex | 0.300 | 0.12 | – | – |
| Age | 0.989 | 0.62 | – | – |
| BMI | 1.002 | 0.97 | – | – |
| DRI | 0.795 | 0.79 | – | – |
| ET-DRI | 1.597 | 0.58 | – | – |
| Cold ischemic time | 1.006 | 0.08 | 1.003 | 0.43 |
| Perfusion duration | 0.996 | 0.37 | – | – |
| Perfusate biomarkers at 60 minutes | | | | |
| Sdc-1 | 1.002 | 0.01 | 1.002 | 0.052 |
| AST | 1.001 | 0.051 | 1.001 | 0.22 |
| ALT | 1.001 | 0.06 | 1.000 | 0.10 |
| LDH | 1.000 | 0.08 | 0.999 | 0.31 |
| Lactate | 1.496 | 0.13 | – | – |
| Glucose | 1.004 | 0.26 | – | – |
| FMN | 1.026 | 0.14 | – | – |