**Supplementary Materials**

**Supplementary Table S1:** **Association of pulse wave velocity (PWV) with CV events**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CV events (n=11) | UnivariableHR (95% CI) | p-value | Multivariable \*\*HR (95% CI) | p-value |
| Pre-transplantation PWV | 1.00 (0.77 - 1.31) | 0.98 | 0.95 (0.73 - 1.25) | 0.74 |
| PWV at 1-year post-transplantation | 1.01 (0.85 - 1.18) | 0.95 | 0.96 (0.80 - 1.15) | 0.67 |
| Early change (pre PWV ‒ PWV at 1-year) \* | 0.99 (0.82 - 1.20) | 0.96 | 1.03 (0.85 - 1.26) | 0.75 |
| Latest PWV post-transplantation | 1.34 (1.08 - 1.65) | **0.008** | 1.24 (0.98 - 1.58) | **0.074** |
| Late change (PWV at 1- year ‒ latest PWV) \* | 0.71 (0.55 - 0.90) | **0.006** | 0.76 (0.58 - 0.98) | **0.036** |

*\*models of PWV change were adjusted for the baseline PWV*

*\*\* All models were adjusted for age at transplantation*

*Results with p value less than 5% were emphasized using bold letters*

**Supplementary Table S2: Determinants of absolute changes in pulse wave velocity (PWV) post-transplantation (PWV at 1-year – latest PWV) using backward linear regression**

|  |  |  |
| --- | --- | --- |
| **Late PWV change (m/s)** | **Univariable\*** | **Multivariable (backward selection) \*** |
|  | ß  | (95% CI) | p-value | ß  | (95% CI) | p-value |
| Lower | Upper |  | Lower | Upper |  |
| First PWV post-transplantation (m/s) \*\* | 0.662 | 0.405 | 0.918 | **<0.0001** | 0.744 | 0.489 | 1.000 | **<0.0001** |
| Sex (1=Male, 2=Female) | 1.125 | -0.313 | 2.563 | **0.12** | ̶ | ̶ | ̶ | ̶ |
| Age at transplantation (years) | -0.104 | -0.198 | -0.010 | **0.031** | -0.104 | -0.198 | -0.010 | **0.031** |
| Mean arterial blood pressure (mmHg) | -0.028 | -0.095 | 0.033 | 0.35 |  |  |  |  |
| Hypercholesterolemia (1=Yes, 0=No) | 0.532 | -0.952 | 2.015 | 0.47 |  |  |  |  |
| Diabetes (1=Yes, 0=No) | 1.565 | -1.405 | 4.536 | 0.29 |  |  |  |  |
| Smoking (1=Yes, 0=No) | -0.828 | -2.291 | 0.634 | 0.26 |  |  |  |  |
| History of angina or myocardial infarction (1=Yes, 0=No) | 1.207 | -2.331 | 4.746 | 0.49 |  |  |  |  |
| Previous strokes (1=Yes, 0=No) | -1.924 | -5.202 | 1.355 | 0.24 |  |  |  |  |
| CNI (1=Tacrolimus, 2= Ciclosporin) | 0.085 | -1.549 | 0.719 | 0.92 |  |  |  |  |
| **Cause of ESRD** |  |  |  | **0.11** | ̶ | ̶ | ̶ | ̶ |
| Glomerulopathy | 0.478 | -3.895 | 4.852 | 0.83 |  |  |  |  |
| Malformation | 1.023 | -3.415 | 5.462 | 0.64 |  |  |  |  |
| Polycystic kidney disease | -0.146 | -4.402 | 4.11 | 0.94 |  |  |  |  |
| Vascular | 0.674 | -3.826 | 5.101 | 0.77 |  |  |  |  |
| Other  | 0.800 | -3.251 | 4.852 | 0.69 |  |  |  |  |

*\*Univariable and multivariable models are adjusted on first PWV post-transplantation*

*\*\* In this model PWV was used alone in the model*

*Mean arterial blood pressure is at the moment of the latest PWV; CNI, Calcineurin inhibitors; ESRD, end-stage renal disease (Reference = diabetes)*

*All variables with a p <0.15 in univariable analysis were used as candidate variables in the multivariable model prior to backward selection procedures.*