

**Supplemental Table 7: Candidate Risk Prediction Models for the Composite Outcome of Death or Graft Loss Using Backwards Selection**

| Model        |                             |                      | AIC<br>(Derivation) | Derivation                  | Validation                  |
|--------------|-----------------------------|----------------------|---------------------|-----------------------------|-----------------------------|
| Model Number | Independent D & R variables | DR Pairing variables |                     | Harrell's c-index (95% CI)  | Harrell's c-index (95% CI)  |
| 1            | ✓                           |                      | 456,445.4           | 0.625<br>(0.621-629)        | 0.627<br>(0.621-0.634)      |
| 2            |                             | ✓                    | 457,128.5           | 0.616<br>(0.612-0.620)      | 0.620<br>(0.613-0.626)      |
| 3            | ✓                           | ✓                    | <b>456,378.5</b>    | <b>0.626</b><br>(0.622-630) | <b>0.627</b><br>(0.621-634) |

Donor-recipient (DR), Akaike Information Criterion (AIC).