

## Supplemental Digital Content (SDC)

**Supplemental Appendix.** Covariates included in the regression models of graft loss and Medicare payments after kidney transplant.

<b>UNOS Kidney Committee Model (22)</b>	
<ol style="list-style-type: none"> <li>1. Recipient Age in years/10</li> <li>2. Recipient Male Gender</li> <li>3. Candidate dialysis history               <ol style="list-style-type: none"> <li>a. Preemptive transplant (candidate not undergoing dialysis before transplant)</li> <li>b. Years since dialysis start: natural log of (1+ years since start of dialysis)</li> </ol> </li> <li>4. Body Mass Index               <ol style="list-style-type: none"> <li>a. Per kg/m<sup>2</sup></li> <li>b. &gt; 20 kg/m<sup>2</sup> (indicator)</li> <li>c. Missing</li> </ol> </li> <li>5. Cause of ESRD               <ol style="list-style-type: none"> <li>a. Reference: glomerulonephritis and diabetes</li> <li>b. Polycystic kidney disease</li> <li>c. Hypertension</li> <li>d. Other/missing</li> </ol> </li> <li>6. Recipient Diabetes               <ol style="list-style-type: none"> <li>a. Any indication of diabetes</li> <li>b. Diabetes indicator*recipient age at diabetes diagnosis in years/10</li> </ol> </li> <li>7. Previous Transplant</li> <li>8. Peak Panel Reactive Antibodies (latest if peak not recorded)               <ol style="list-style-type: none"> <li>a. Reference &lt;10</li> <li>b. 10 –79</li> <li>c. 80+</li> <li>d. Missing</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>9. HLA Mismatches               <ol style="list-style-type: none"> <li>a. Zero A, B, and DR</li> <li>b. Zero DR</li> </ol> </li> <li>10. Serum Albumin at Listing (g/dl)               <ol style="list-style-type: none"> <li>a. Per g/dl</li> <li>b. &gt;3.5 g/dl (indicator)</li> <li>c. Missing</li> </ol> </li> <li>11. Calendar year of transplant (Reference 1998)</li> <li>12. Donor age               <ol style="list-style-type: none"> <li>a. Per year</li> <li>b. &gt; 18 years (indicator)</li> <li>c. Missing</li> </ol> </li> <li>13. Donor Hypertension</li> <li>14. Donor Cytomegalovirus positive</li> <li>15. Donor Weight               <ol style="list-style-type: none"> <li>a. Natural log (kg)</li> <li>b. Missing</li> </ol> </li> <li>16. Donor Cause of Death               <ol style="list-style-type: none"> <li>a. Anoxia</li> <li>b. Cerebrovascular accident</li> <li>c. Head trauma</li> <li>d. Central nervous system tumor</li> <li>e. Other (reference in ECD model)</li> </ol> </li> </ol>
<b>Additional Variables Beyond the UNOS Kidney Committee models</b>	
<ol style="list-style-type: none"> <li>1. Recipient race               <ul style="list-style-type: none"> <li>• Reference: white</li> <li>• African-American</li> <li>• Other</li> </ul> </li> <li>2. Donor race               <ul style="list-style-type: none"> <li>• Reference: white</li> <li>• African-American</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>3. Acute rejection in first year post-transplant</li> <li>4. Estimated glomerular filtration rate (eGFR) at the one year post-transplant</li> </ol>