Supplemental Table 3: Univariable screen of various functional forms for continuous variables & categorical variables

Variable	AIC
DR Age Difference	485,267.2
Log ₂ D-Log ₂ R Age Difference	485,196.4
DR Age Difference squared	485,397.2
DR Age ratio	485,126.5*
DR Age Categories:	
 > 30 year Donor < Recipient 	
10-30 year Donor < Recipient	485,235.0
< 10 year (Reference)	
 > 10 year Donor > Recipient 	
Donor Age	484,313.1
Log₂ Donor Age	484,759.1
Donor Age squared/1000	484,135.5 *
Donor Age categories:	
• <35 years	484,363.6
• 35-60 years	
>60 years	
Recipient Age	484,892.2
Log₂ Recipient Age	485,112.0
Recipient Age squared/1000	484,704.2
Recipient Age Categories	
• <35 years	484,589.4*
• 35-60 years	101,00011
• >60 years	
DR Weight Difference	485,373.8
Log ₂ D-Log ₂ R Weight Difference	485,380.9
DR Weight Difference squared	485,406.7
DR Weight ratio DR Weight Categories:	485,399.1
 > 30 kg Donor < Recipient 	
10-30 kg Donor < Recipient	485,371.2*
< 10 kg (Reference)	403,37 1.2
>10 kg (Neverlence)>10 kg Donor > Recipient	
Donor Weight	485,421.4
Log ₂ Donor Weight	485,424.5
Donor Weight squared/1000	485,419.7*
Recipient Weight	485,248.7*
Log ₂ Recipient Weight	485,253.8
Recipient Weight squared/1000	485.256.1
DR Height Difference	485,337.1
Log ₂ D-Log ₂ R Height Difference	485,354.5
DR Height ratio	485,344.4
D-R Height Categories:	
 > 0.30 m Donor < Recipient 	
0.10-0.30 m Donor < Recipient	485,348.8
• < 0.10 m (Reference)	400,340.0
0.10-0.30 m Donor > Recipient	
> 0.30 m Donor > Recipient	

Variable	AIC
DR Height Difference squared	485,424.1
Donor Height	485,400.7
Log₂ Donor Height	485,406.6
Donor Height squared	485,395.3*
Recipient Height	485,354.3
Log₂ Recipient Height	485,356.4
Recipient Height squared	485,352.8*
CIT	485,335.3*
Log ₂ CIT	485,342.5
CIT squared/1000	485,376.6
Peak PRA	485,408.9
Peak PRA squared/1000	485,406.5*
Pear PRA Categories	
• < 20	485,409.2
• 20-80	403,409.2
• > 80	
DR Race pairing	484,890.1*
W/B/O vs W/B/O	404,030.1
DR Race pairing	484,987.6
B/O vs B/O	404,907.0
HLA MM	485,161.2*
• 0/1/2/3/4/5/6	700,101.2
HLA MM	485,267.3
• 0 vs > 0	·

Donor-Recipient (DR), Cold ischemic time (CIT), Panel reactive antibody (PRA), Human leukocyte antigen (HLA), Mismatch (MM), Log₂ (Log base 2).