

Table S1: Characteristics of the matching validation tasks and associated data sets with 1,000 patients and 10,000 donors each

	MVT/MVS 1	MVT/MVS 2	MVT/MVS 3
<b>Basic parameters</b>			
HLA loci considered for matching	A, B, DRB1	A, B, DRB1	A, C, B, DRB1, DQB1
IPD-IMGT/HLA Database version	2.16.0	2.16.0	3.4.0
<b>Patient data</b>			
serologic designations	0.0%	10.4%	0.0%
1st-field allele designations (XX codes)	12.0%	0.0%	14.0%
multiple allele codes (no ARD groups)	39.3%	38.4%	15.4%
2 field allele designations or ARD groups	48.7%	51.2%	70.6%
<b>Donor data</b>			
serologic designations	0.0%	61.8%	0.0%
1st-field allele designations (XX codes)	61.1%	0.0%	60.8%
multiple allele codes (no ARD groups)	23.9%	23.5%	32.9%
2 field allele designations or ARD groups	15.0%	14.7%	6.3%
without HLA-C	n/a	n/a	80%
without HLA-DRB1	0%	0%	10%
without HLA-DQB1	n/a	n/a	90%
<b>HLA matching</b>			
allele level matching	✓	✓	✓
antigen level matching		✓	
probabilistic matching			✓