

Table S2: Parameter Values of Demographic Models of HCMV Populations

B103		
	Time (months)	95% Confidence Interval
$T_{\text{Bottleneck1}}$	0	---
$T_{\text{Bottleneck2-Split}}$	2.33	1.98 - 2.69
$T_{\text{Collection1}}$	5.33	4.34 - 6.33
$T_{\text{Collection2}}$	11.1	10.1 - 12.1
	Relative Population Size	95% Confidence Interval
$N_{\text{Ancestral}}$	1	---
$N_{\text{Collection1-Plasma}}$	0.0732	.0582 - .0883
$N_{\text{Collection2-Plasma}}$	0.0410	.0305 - .0516
$N_{\text{Collection1-Urine}}$	2.60	1.91 - 3.28
$N_{\text{Collection2-Urine}}$	9.92	7.90 - 11.9
$\text{Bottleneck}_{1\text{st}}$	0.33%	.26% - .39%
$\text{Bottleneck}_{2\text{nd}}$	0.41%	.31% - .50%
	Migration Rate ($\times 10^{-5}$ migrants per generation)	95% Confidence Interval
$m_{\text{Urine-to-Plasma1}}$	137	108 - 167
$m_{\text{Plasma-to-Urine1}}$	15.1	10.5 - 19.8
$m_{\text{Urine-to-Plasma2}}$	57.4	44.2 - 70.5
$m_{\text{Plasma-to-Urine2}}$	3.90	3.31 - 4.55

B101		
	Time (months)	95% Confidence Interval
$T_{\text{Bottleneck1}}$	0	---
$T_{\text{Bottleneck2}}$	2.54	1.90 - 3.18
$T_{\text{Collection1}}$	11.1	10.4 - 11.7
$T_{\text{Collection2}}$	14.1	13.7 - 14.4

	Relative Population Size	95% Confidence Interval
$N_{\text{Ancestral}}$	1	---
$N_{\text{Pre-Bottleneck2}}$	0.172	.138 - .206
$N_{\text{Collection1}}$	4.31	3.30 - 5.32
$N_{\text{Collection2}}$	6.18	4.82 - 7.53
Bottleneck_{1st}	0.87%	.75% - 1.00%
Bottleneck_{2nd}	2.36%	1.97% - 2.74%

M103		
	Time (months)	95% Confidence Interval
$T_{\text{bottleneck}}$	0	---
$T_{\text{Collection1}}$	6.24	5.70 - 6.80
$T_{\text{Collection2}}$	9.75	9.58 - 9.91
	Relative Population Size	95% Confidence Interval
$N_{\text{Ancestral}}$	1	---
$N_{\text{Collection1}}$	0.283	.226 - .341
$N_{\text{Collection2}}$	0.669	.584 - .754
Bottleneck	0.20%	.15% - .26%

MS1 & MS2		
	Time (Months)	95% Confidence Interval
$T_{\text{Bottleneck1}}$	0.466	.333 - .600
$T_{\text{Bottleneck2-Split}}$	0.623	.600 - .646
$T_{\text{Bottleneck3}}$	2.86	2.81 - 2.92
$T_{\text{Collection1}}$	6.62	6.14 - 7.10
$T_{\text{Collection2}}$	7.49	7.38 - 7.60
$T_{\text{Collection3}}$	16.6	15.7 - 17.5
	Relative Population Size	95% Confidence Interval
$N_{\text{Ancestral}}$	1	---

	Migration Rate ($\times 10^{-5}$ migrants per generation)	95% Confidence Interval
N_{Pre-Bottleneck2}	0.413	.351 - .475
N_{Pre-Bottleneck3-MS1}	0.105	.083 - .127
N_{Pre-Bottleneck3-MS2}	0.142	.120 - .165
N_{Collection1-MS1}	13.2	11.4 - 15.1
N_{Collection1-MS2}	11.2	9.4 - 13.1
N_{Collection2-MS1}	1.37	1.18 - 1.57
N_{Collection2-MS2}	1.16	1.02 - 1.30
N_{Collection3-MS1}	0.139	.124 - .154
N_{Collection3-MS2}	0.117	.085 - .149
Bottleneck₁	10.6%	8.55% - 12.7%
Bottleneck_{2-MS1}	11.7%	7.9% - 15.5%
Bottleneck_{2-MS2}	20.0%	14.1% - 26.0%
Bottleneck_{3-MS1}	1.51%	1.16% - 1.86%
Bottleneck_{3-MS2}	6.10%	4.94% - 7.26%
m_{MS1-to-MS2-1}	3.32	2.93 - 3.71
m_{MS2-to-MS1-1}	1.76	1.12 - 2.41
m_{MS1-to-MS2-2}	92.7	83.4 - 102
m_{MS2-to-MS1-2}	1112	921 - 1304
m_{MS1-to-MS2-3}	371	322 - 419
m_{MS2-to-MS1-3}	21.3	12.4 - 30.3