Table S1: **Medians and 95% posteriors for parameter estimation in intra-macaque Simian-HIV populations.**

	c	m	M^1	s	$N\mu$
Plasma v Gut	1	1.03e-3	101	1.5	0.98
		(5e-5,0.291)	(4.9,28600)	(0.71,5.31)	(0.559,1.94)
Plasma v LN [1]		2.67e-2	2460	0.949	0.92
		(2.85e-3,0.448)	(262,41200)	(0.604,5.01)	(0.51,2.14)
Plasma v Gut	2	5.28e-4	15.5	3	0.293
		(2.06e-5,0.0326)	(0.602,953)	(0.987,27.7)	(0.122,0.744)
Plasma v LN		0.0271	573	1.24	0.212
		(1.09e-3,0.444)	(23,9400)	(0.783,3.19)	(0.11,0.44)
Plasma v Gut	5	5.37e-4	8.05	1.75	0.15
		(1.84e-5,0.0145)	(0.276,218)	(1,15.8)	(0.103,0.296)
Plasma v LN		4.13e-2	574	1.52	0.139
		(1.03e-3,0.447)	(14.4,6220)	(0.849,14.9)	(0.101,0.29)

[1]M is a composite estimate taken from multiplying the m distribution by the point estimate of predicted population size derived from the estimated $N\mu$ ($M = m \times (N\mu)/\mu$).