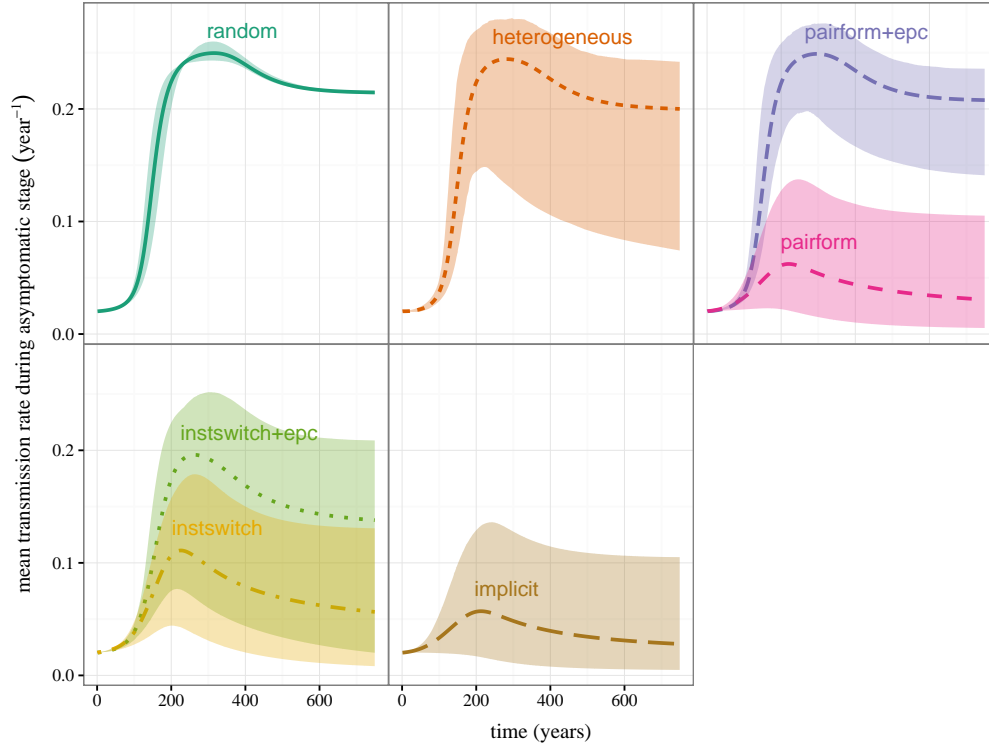
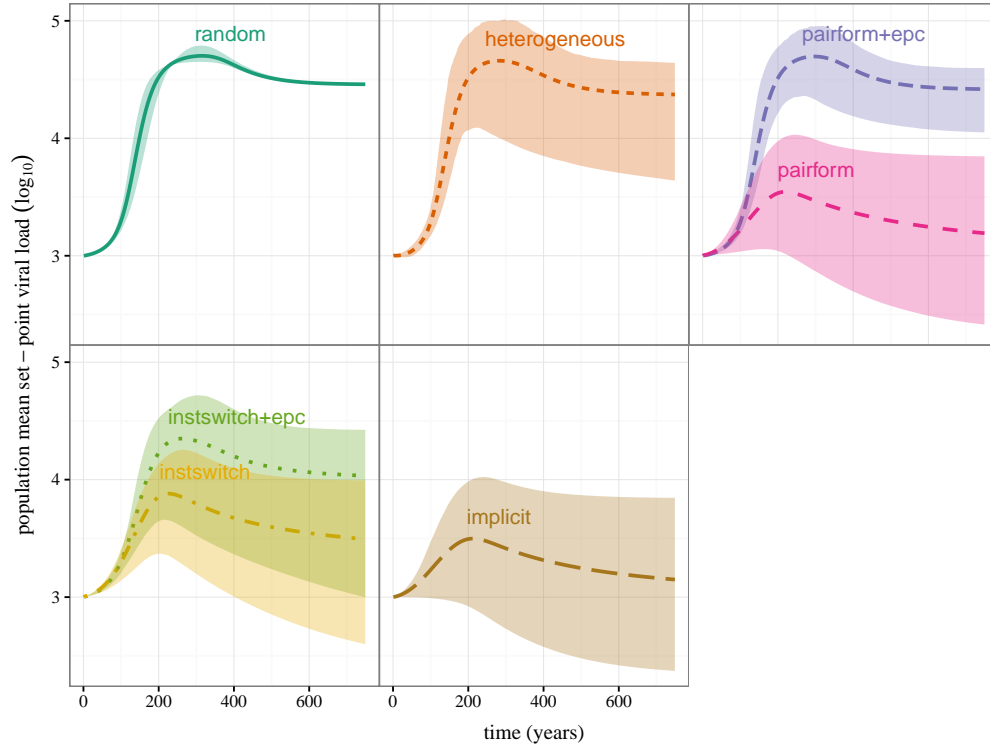


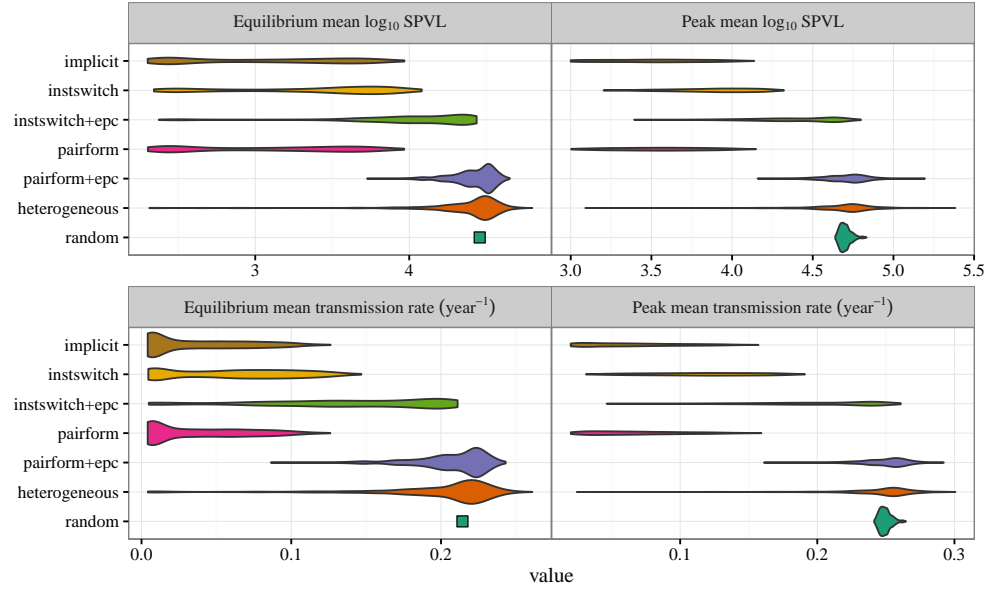
**Supporting Information S2: dynamics of transmission and virulence** This section presents alternate versions of the figures from the main text showing time dynamics and summary statistics in terms of  $\log_{10}$  SPVL and per-year transmission probability rather than expected progression time to AIDS.



**Fig S1. Envelopes of transmission trajectories under all models.** This figure matches Fig 2 in main text, but displays the envelope of population-mean transmission probabilities rather than expected progression time to AIDS over time for each model.



**Fig S2. Envelopes of SPVL trajectories under all models.** This figure matches Fig 2 in main text, but displays the envelope of  $\log_{10}$  SPVL rather than expected progression time to AIDS over time for each model.



**Fig S3. Univariate distributions of transmission probabilities and SPVL.**

This figure matches Fig 3 in main text, but displays the univariate distributions for the transmission probability and  $\log_{10}$  SPVL time at the virulence peak and at the epidemiological equilibrium, rather than the distributions of progression time to AIDS.