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| **Parameter** | **Definition** | **Measurement** |
| ***λ*** | Mean number of HIV infection attempts per cell. | Total number HIV copies (integrated or unintegrated)/total number cells. |
| ***Lλ*** | Probability of a cell to live given transmission with *λ* copies at 2 (cell line) or 4 (lymph node cells) days post infection. | Concentration of live cells with λ transmissions/concentration of live cells with no transmission. Concentration of live cells with no transmission is derived in a separate cell culture infected with the identical amount of cell-free HIV but where the infection is inhibited with high [EFV]. |
| ***Pλ*** | Probability of a cell to be infected and live given transmission with *λ* copies at 2 (cell line) or 4 (lymph node cells) days post-infection. | Fraction of live cellspositive for HIV dependent GFP expression 2 days post-infection (cell line) or HIV Gag protein 4 days post-infection (lymph node cells). |
| ***q1*** | Probability of cell death at *λ*=1. | *-ln(Lλ)/λ* |
| ***r1*** | Probability of cell infection at *λ*=1. | *-ln(1-Pλ) /λ* |

S Table 1: Parameters and definitions

1 Measured in the cell line two days post-infection with wild type cell-free HIV, otherwise fitted using Equation (2).