Correction: Understanding the Slow Depletion of Memory CD4+ T Cells in HIV Infection

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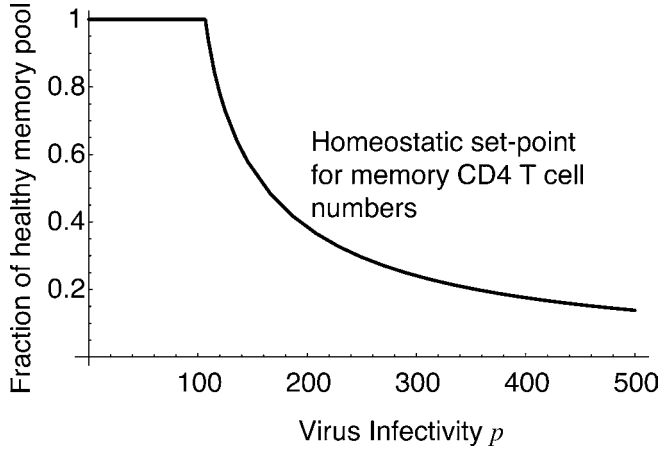
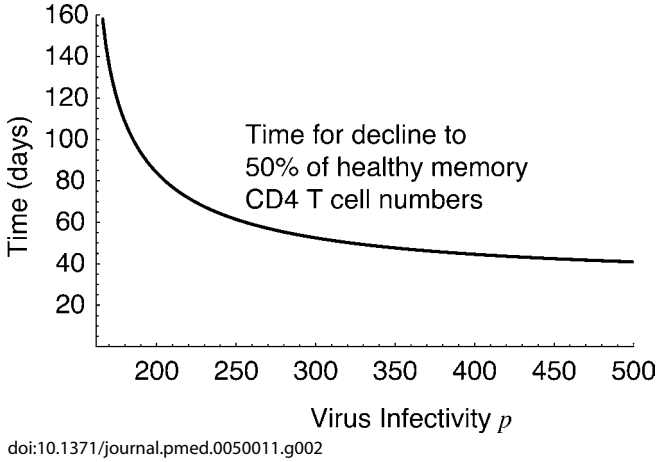
Correction for:
Yates A, Stark J, Klein N, Antia R, Callard R (2007) Understanding the slow depletion of memory CD4+ T cells in HIV infection. PLoS Med 4(5): e177. doi:10.1371/journal.pmed.0040177

In the published manuscript, Figures 3, 4, 6, and 7 were generated using slightly different parameter values than those quoted in the captions. Corrected versions of these figures are shown here. None of the conclusions of the study change as a result.



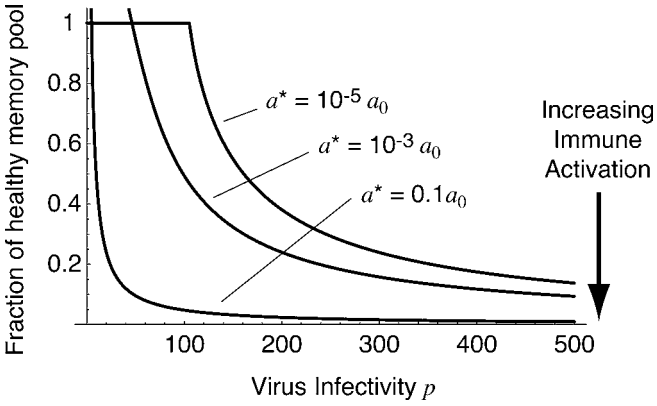
doi:10.1371/journal.pmed.0050011.g001

Figure 3. Steady-State Pool Size as a Function of Virus Infectivity *p*



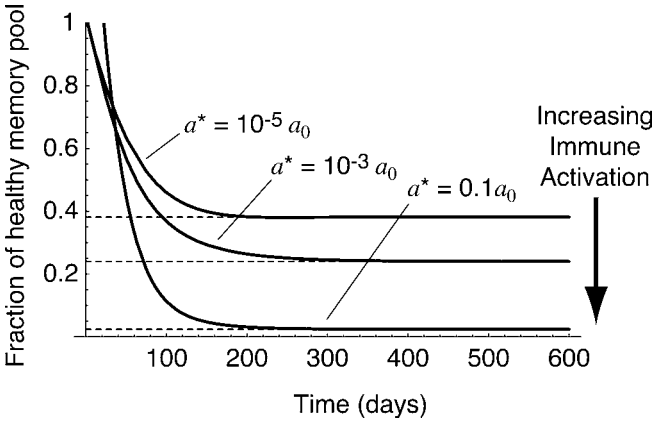
doi:10.1371/journal.pmed.0050011.g002

Figure 4. The Predicted Time for Memory CD4+ T Cell Numbers to Decline from 100% to 50% of Healthy Numbers, as a Function of Virus Infectivity *p*



doi:10.1371/journal.pmed.0050011.g003

Figure 6. The Predicted Steady-State Pool Size as a Function of Virus Infectivity p, in the Presence of Different Levels of Immune Activation *a**



doi:10.1371/journal.pmed.0050011.g004

Figure 7. The Predicted Time Course of CD4+ Memory T Cell Numbers as They Decline to Their Steady State Level for Different Levels of Immune Activation *a** in the Presence of HIV

Other minor corrections:

The homeostatically dividing cell death rate μ is 0.77/day, not 1.06 as stated in the original caption to Figure 4. This rate is calculated using the constraint that approximately 1% of CD4+ T cells in blood are activated at the healthy set point, giving

$$\mu = \frac{a_0(r - 99\delta) + r\delta}{a_0 - \delta}.$$

In the third paragraph of the Results section, in the sentence beginning, "For the simulations we show below, we used the linear forms...", the equation should read $a(x) = a_0(1 - x/\kappa)$.

At the end of the next paragraph, "given *a* and *r*" should read "given *a*(*x*) and *r*".

In the caption of Figure 5, the third equation should read $dw/dt = f a^* x - (\gamma_1 + \gamma_2)w - pzw$.

The authors are exceptionally grateful to Ben Bolker, Jess Beasley, and Carol Chaffee for bringing attention to these errors.

Citation: Yates A, Stark J, Klein N, Antia R, Callard R (2008) Correction: Understanding the Slow Depletion of Memory CD4+ T Cells in HIV Infection. PLoS Med 5(1): e11. doi:10.1371/journal.pmed.0050011

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