



Correction

Correction to "On the rate of clinical AIDS on diagnosis: The mathematical interpretation and goal for the successful control of HIV/AIDS"

[*Mathematical Biosciences and Engineering* 22(8) (2025) 2105–2119]

Seiko Fujiwara and Hiroshi Nishiura*

School of Public Health and Center for Health Security, Graduate School of Medicine, Kyoto University, Kyoto, Japan

* **Correspondence:** Email: nishiura.hiroshi.5r@kyoto-u.ac.jp; Tel: +81-075-753-4456.

Correction of: *Mathematical Biosciences and Engineering*, 2025, 22(8): 2105-2119

A correction on

Seiko Fujiwara, Hiroshi Nishiura. On the rate of clinical AIDS on diagnosis: The mathematical interpretation and goal for the successful control of HIV/AIDS[J]. *Mathematical Biosciences and Engineering*, 2025, 22(8): 2105–2119. doi: 10.3934/mbe.2025077

The authors wish to correct a numerical error in the abovementioned article:

In the Results section (the equilibrium approximation, pages 2113–2114), the evaluation of inequality (18) for $t = 30$ years and $P_0 = 0.95$ was given incorrectly. The corrections are as follows.

Correct:

$$\alpha_0 > \frac{1}{30} \cdot \frac{0.95}{1 - 0.95} = \frac{0.95}{1.5} \approx 0.63.$$

That is, a diagnosis rate of over **0.63** per year **would be required to** reach the 95% diagnosis goal over 30 years. This level is **about 2.7 times** the estimate in Japan (see Figure 2B), indicating that **the goal**

of 95% diagnosis cannot be attained with the present-day diagnostic effort.

The error was restricted to a single human error in calculation, and the main results are not affected.

References

1. S. Fujiwara, H. Nishiura, On the rate of clinical AIDS on diagnosis: The mathematical interpretation and goal for the successful control of HIV/AIDS, *Math. Biosci. Eng.*, 22 (2025): 2105–2119. <https://doi.org/10.3934/mbe.2025077>



AIMS Press

©2026 the Author(s), licensee AIMS Press. This is an open access article distributed under the terms of the Creative Commons Attribution License (<https://creativecommons.org/licenses/by/4.0>)