Access article distributed under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs licence (https:// creativecommons.org/licenses/by-nc-nd/4.0/), which permits non-commercial reproduction and distribution of the work, in any medium, provided the original work is not altered or transformed in any way, and that the work is properly cited. For commercial re-use, please contact journals.permissions@oup.com https://doi.org/10.1093/infdis/jiab528 **Response to Bender et al**

TO THE EDITOR—We thank the authors for their interesting letter. We would be most interested in knowing the exact brand of rapid antigen detection test (RADT) they utilized, as these tests can vary in both sensitivity and reliability. We would also be interested in seeing their individual-level timing of tests and results; given the wide variety of testing times and frequencies, it is difficult to determine which results are comparable with our daily sampling. However, in general, it would be difficult to compare these results because of the limited prescreening employed in the Bender et al study. One of the most important aspects of our study was a negative polymerase chain reaction (PCR) result in the previous 7 days, ensuring that all people enrolled in our study were newly infected [1]. As it is well known that quantitative reverse transcription PCR (RTqPCR) results can remain positive long after a mildly symptomatic or asymptomatic infection [2], and as we have shown that RADTs will rapidly turn negative after the infectious period has passed, it is possible that some participants in the study described by Bender et al were not newly infected and, therefore, would not be expected to have a positive RADT. Ensuring that participants are early in their infection is essential for accurate estimation of test sensitivity for SARS-CoV-2 infection, and we encourage anyone designing a test validation trial to consider this point carefully.

Notes

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Potential conflicts of interest. C. B. B. is listed as inventor on a pending patent application for the saliva RTqPCR test used in our study. R. L. S. reports no potential conflicts. The authors have submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest. Conflicts that the editors consider relevant to the content of the manuscript have been disclosed.

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References

1. Smith RL, Gibson LL, Martinez PP, et al. Longitudinal assessment of diagnostic test performance over the course of acute SARS-CoV-2 infection. J Infect Dis **2021**; 224:976–82.

2. Kissler SM, Fauver JR, Mack C, et al. Viral dynamics of acute SARS-CoV-2 infection and applications to diagnostic and public health strategies. PLoS Biol **2021**; 19:e3001333.

Test Accuracy Group. Rapid, pointof-care antigen and molecular-based tests for diagnosis of SARS-CoV-2 infection. Cochrane Database Syst Rev **2021**; 3:CD013705.

- He X, Lau EHY, Wu P, et al. Author correction: temporal dynamics in viral shedding and transmissibility of COVID-19. Nat Med 2020; 26:1491–3.
- Jones TC, Biele G, Muhlemann B, et al. Estimating infectiousness throughout SARS-CoV-2 infection course. Science 2021; 373:eabi5273.
- Bender JK, Brandl M, Hohle M, Buchholz U, Zeitlmann N. Analysis of asymptomatic and presymptomatic transmission in SARS-CoV-2 outbreak, Germany, 2020. Emerg Infect Dis 2021; 27:1159–63.
- Arons MM, Hatfield KM, Reddy SC, et al; Public Health–Seattle and King County and CDC COVID-19 Investigation Team. Presymptomatic SARS-CoV-2 infections and transmission in a skilled nursing facility. N Engl J Med 2020; 382:2081–90.
- 10.Federal Government of Germany. Video conference between the Federal Chancellor and the Heads of Government of the Länder on 10 August 2021. https://www. bundesregierung.de/resource/blo b/656632/1950174/93e22e944e16 5b106f56406b3de0dfa9/2021-08-10-mpk-beschluss-corona-en-data. pdf?download=1. Accessed 27 October 2021.

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