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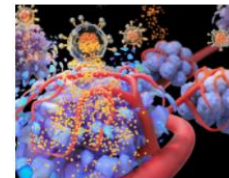
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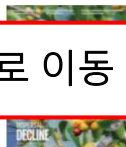
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Addressing the human cost in a changing climate

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VOL. 372, NO. 6548 • 18 JUN 2021 : 1284-1287



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BY STEPHEN T. JACKSON • SCIENCE • VOL. 373, NO. 6559 • 01 SEP 2021 : 1085-1086



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How ambitious are oil and

BY SIMON DIETZ, DAN GARDINER, VALENTIN JA

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COVER: A blue-throated barbet (*Psilopogon asiaticus*) eats a fig in southern Bhutan, dispersing the seeds within. Seed-dispersing animals help fleshy-fruited plants adapt to climate change by moving seeds to suitable habitats. However, many seed dispersers are in decline, endangered, or extinct. Bird and mammal population losses have caused an estimated 60% decline in seed...

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JASON ABALUCK , LAURA H. KWONG , ASHLEY STYCZYNSKI , ASHRAFUL HAQUE , MD. ALAMGIR KABIR , ELLEN BATES-JEFFERYS, EMILY CRAWFORD, JADE BENJAMIN-CHUNG , SHABIB RAIHAN , [...] AHMED MUSHFIQ MOBARAK +13 authors [Authors Info & Affiliations](#)

SCIENCE • 2 Dec 2021 • Vol 375, Issue 6577 • DOI: 10.1126/science.abi9069

35,515

D



Persuading people to mask

Even in places where it is obligatory, people tend to optimistically overstate their compliance for mask wearing. How then can we persuade more of the population at large to act for the greater good? Abaluck *et al.* undertook a large, cluster-randomized trial in Bangladesh involving hundreds of thousands of people (although

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BY ANNE FASSL, YAN GENG, ET AL.

Mitochondria shed their outer membrane in response to infection-induced stress

BY XIANHE LI, JULIAN STRAUB, ET AL.

Impact of community masking on COVID-19: A cluster-randomized trial in Bangladesh

BY JASON ABALUCK, LAURA H. KWONG, ET AL.

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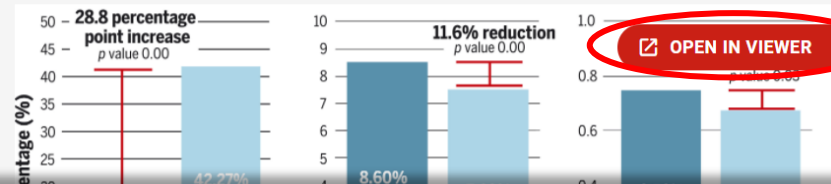
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CONCLUSION

A randomized-trial of community-level mask promotion in rural Bangladesh during the COVID-19 pandemic shows that the intervention increased mask usage and reduced symptomatic SARS-CoV-2 infections, demonstrating that promoting community mask-wearing can improve public health.



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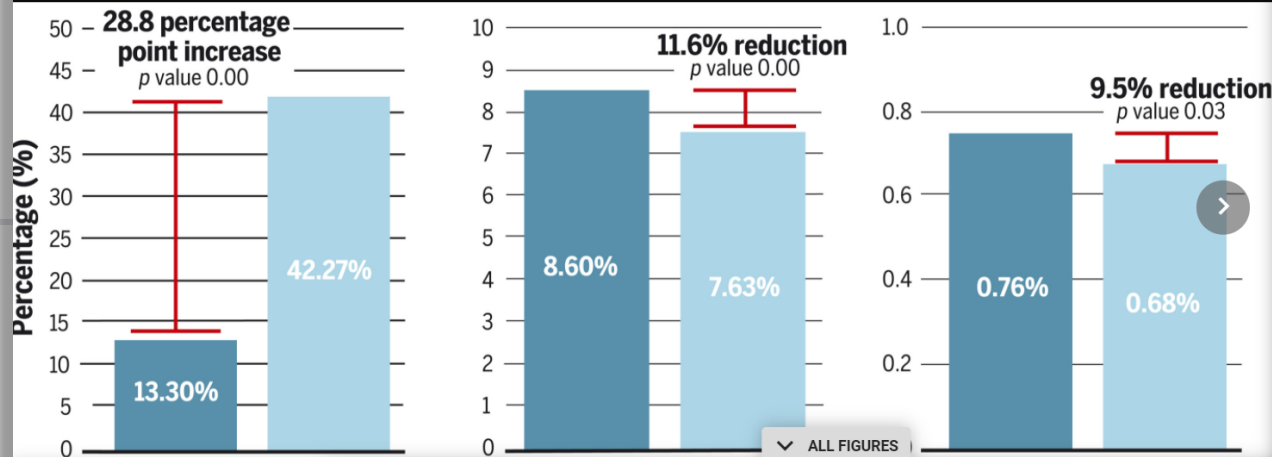
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Impact of community masking on COVID-19: A cluster-randomized trial in Bangladesh

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이미지 확대, 다운로드, 공유



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Impact of intervention on mask use and COVID-19 outcomes. The figure shows the raw means of mask use (left), COVID-19 symptoms (middle), and symptomatic seropositivity (right) in the control and treatment arms. The estimated change in each outcome, confidence intervals, and p values adjust for preregistered covariates (and thus are not computable from the raw values). Individuals who were symptomatic but did not consent to blood collection were dropped from the sample; measured symptomatic seropositivity thus understates the true fraction of the population that was symptomatic seropositive.

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ence ratio = 0.65 [0.45, 0.85]). Mask distribution with promotion was a scalable and effective method to reduce symptomatic SARS-CoV-2 infections.

As of September 2021, the COVID-19 pandemic has taken the lives of more than 4.7 million people. Inspired by the growing body of scientific evidence that face masks have the potential to slow the spread of the disease and save lives (1–10), we conducted a cluster-randomized controlled trial covering 342,185 adults in 600 villages in rural Bangladesh with the dual goals of (i) identifying community-wide mask-wearing and (ii) tracking changes in symptomatic respiratory syndrome coronavirus 2 (SARS-CoV-2) infections as a result of our intervention. Although vaccines may constrain the spread of SARS-CoV-2 in the long-term, it is unlikely that a substantial fraction of the population in low- and middle-income countries will have access to vaccines before the end of 2021 (11). Developing scalable and effective means of combating COVID-19 is thus of first-order policy importance.

The World Health Organization (WHO) declined to recommend mask adoption until June 2020, citing the lack of evidence from community-based randomized-controlled trials as well as concerns that mask-wearing would create a false sense of security (12). Critics argued that those who wore masks would engage in compensating behaviors, such as failing to physically distance from others, resulting in a net increase in transmission (13). We directly test this hypothesis by measuring physical distancing.

We designed our trial to encourage universal mask-wearing at the community level,

Reference 링크

1. J. Howard, A. Huang, Z. Li, Z. Tufekci, V. Zimal, H.-M. van der Westhuizen, A. von Delft, A. Price, L. Fridman, L.-H. Tang, V. Tang, G. L. Watson, C. E. Bax, R. Shaikh, F. Questier, D. Hernandez, L. F. Chu, C. M. Ramirez, A. W. Rimoin, An evidence review of face masks against COVID-19. *Proc. Natl. Acad. Sci. U.S.A.* **118**, e2014564118 (2021).

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2. N. H. L. Leung, D. K. W. Chu, E. Y. C. Shiu, K.-H. Chan, J. J. McDevitt, B. J. P. Hau, H.-L. Yen, Y. Li, D. K. M. Ip, J. S. M. Peiris, W.-H. Seto, G. M. Leung, D. K. Milton, B. J. Cowling, Respiratory virus shedding in exhaled breath and efficacy of face masks. *Nat. Med.* **26**, 676–680 (2020).

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Vissing, P. B. Nielsen, U. C. Winslow, K. Fogh, R. Hasselbalch, J. H. Kristensen, A. Ringgaard, M. Porsborg Andersen, N. B. Goecke, R. Trebbien, K. Skovgaard, T. Benfield, H. Ullum, C. Torp-Pedersen, K.

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