Viral kinetics data during the COVID-19 pandemic

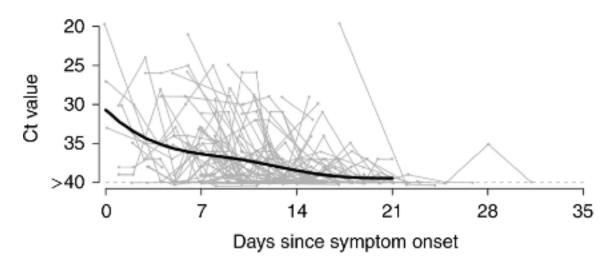
Targeted studies

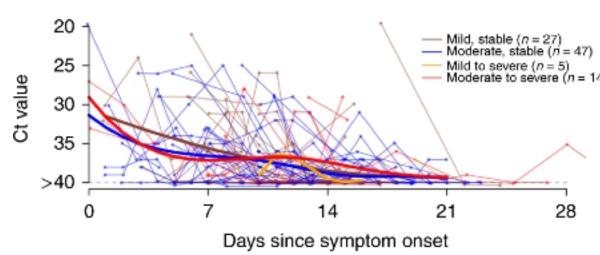
nature medicine

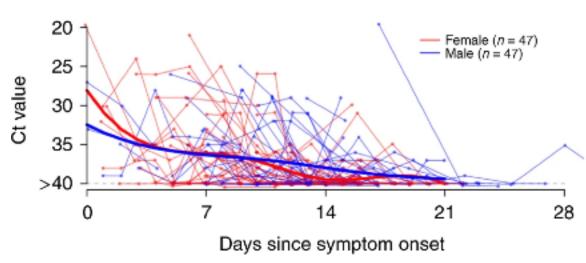
Temporal dynamics in viral shedding and transmissibility of COVID-19

Xi He, Eric H. Y. Lau , Peng Wu, Xilong Deng, Jian Wang, Xinxin Hao, Yiu Chung Lau, Jessica Y. Wong, Yujuan Guan, Xinghua Tan, Xiaoneng Mo, Yanqing Chen, Baolin Liao, Weilie Chen, Fengyu Hu, Qing Zhang, Mingqiu Zhong, Yanrong Wu, Lingzhai Zhao, Fuchun Zhang, Benjamin J. Cowling, Fang Li & Gabriel M. Leung

Nature Medicine 26, 672–675 (2020) | Cite this article





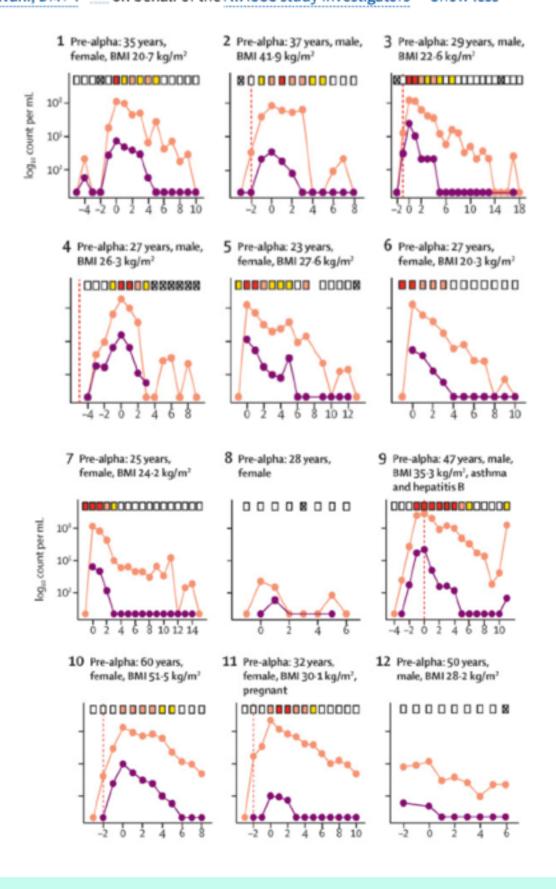


Large prospective studies

THE LANCET Respiratory Medicine

Onset and window of SARS-CoV-2 infectiousness and temporal correlation with symptom onset: a prospective, longitudinal, community cohort study

Seran Hakki, PhD a.* Jie Zhou, PhD b.* Jakob Jonnerby, DPhil a.* Anika Singanayagam, PhD a.b.g.* Jack L Barnett, MPhys a.† Kieran J Madon, MSc a.† Aleksandra Koycheva, BSc a. Christine Kelly, PhD g.h. Hamish Houston, MBBChir a. Sean Nevin, MSc a. Joe Fenn, PhD a. Rhia Kundu, PhD a. Michael A Crone, MBBCh c,d,f. Timesh D Pillay, MBBS a. Shazaad Ahmad, FRCPath a. Nieves Derqui-Fernandez, MSc a. Emily Conibear, MSc a. Prof Paul S Freemont, PhD c,d,f. Prof Graham P Taylor, DSc b. Prof Neil Ferguson, DPhil a. Prof Maria Zambon, FRCPath a. Prof Wendy S Barclay, PhD b. Prof Jake Dunning, PhD g.j. Prof Ajit Lalvani, DM a. on behalf of the ATACCC study investigators. Show less



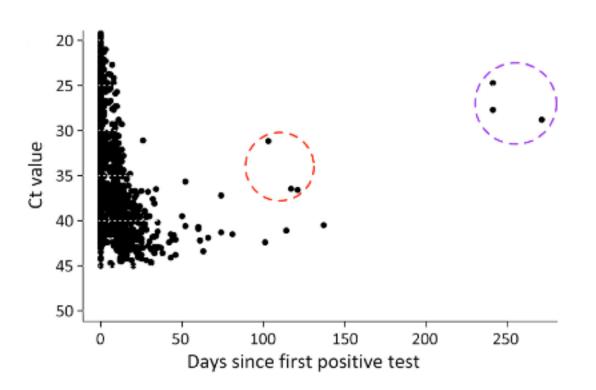
Occupational health programs

EMERGING INFECTIOUS DISEASES°

SARS-CoV-2 Dynamics in the Premier League Testing Program, United Kingdom

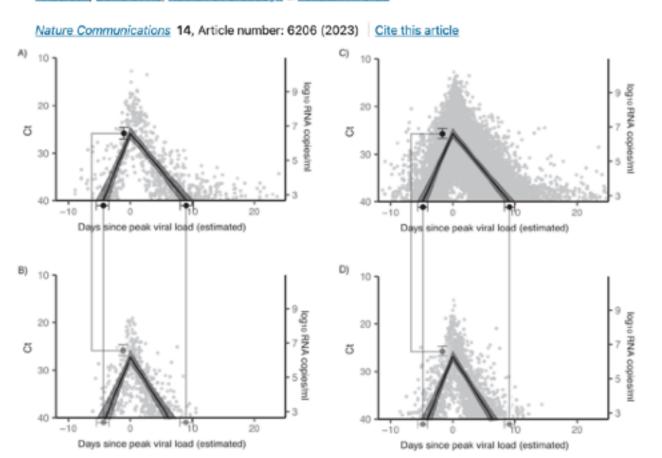
Adam J. Kucharskitz, Timothy W. Russell, Joel Hellewell, Sebastian Funk, Andrew Steele, W. John Edmunds, and Mark Gillett
Author affiliations: London School of Hygiene & Tropical Medicine, London, UK (A.J. Kucharski, T.W. Russell, S. Funk, W.J. Edmunds);
European Bioinformatics Institute at Wellcome Genome Campus, Hinxton, UK (J. Hellewell); Stride Health Group, London (A. Steele);
The Football Association Premier League, London (M. Gillett)

Cite This Article



Viral kinetics of sequential SARS-CoV-2 infections

Stephen M. Kissler, James A. Hay, Joseph R. Fauver, Christina Mack, Caroline G. Tai, Deverick J. Anderson, David D. Ho, Nathan D. Grubaugh & Yonatan H. Grad □



Viral kinetics data during the COVID-19 pandemic

Targeted studies

- + Quick to design/deploy
- + Can be highly informative about key epi parameters
- Sample sizes often small,unrepresentative
- May miss early infection

Large prospective studies

- + Highly representative
- + Can provide detailed information on both primary and secondary infections
- Expensive
- Requires a robust contact tracing framework

Occupational health programs

- + Can generate huge volumes of data
- + "Cheap" in the sense that the data's already being collected
- Can be unrepresentative
- Data collection ends when occupational health need ends



