Worshipful Society of Apothecaries of London
Faculty of Conflict and Catastrophe Medicine

Covid-19/SARS-CoV-2:
References, Resources & Guidance

[Updated 12/10/2020 – items added since the last update are placed in the “New Additions” section at the beginning and then moved to the relevant section in the next issue]

[Disclaimers: This is not a complete or comprehensive listing and it is not intended to compete with the huge resources of medical libraries nor the specific guidance of professional bodies. It is intended to provide a “Go To” resource containing publications and links from a wide range of sources, that may be of practical use to health care workers dealing with the COVID-19 epidemic.

We will update this regularly and this will work best if you, the users, feed back to us. So if you know of any useful references or resources that are not included, or if you are aware that any of the references or resources listed are out of date or have been superseded, please let us know so that we can put them in, change them or cut them out!

(Inclusion of a title in this listing does not imply approval, endorsement or certification of the work or results therein by the Faculty of Conflict and Catastrophe Medicine or the Worshipful Society of Apothecaries of London. The items are included for information only and should be evaluated by the readers before use. When reading items published in printed or on-line journals, please bear in mind that the peer review process may have been curtailed or that an item may be a preprint that has not been certified by peer review. Such reports of new medical research may not yet have been evaluated and so should not be used to guide clinical practice).]

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Publications


RESOURCES & GUIDANCE


International Society for Infectious Diseases. (This page provides you with the latest information, publications, and news articles on the evolving novel coronavirus outbreak from trusted sources). https://isid.org/2019-novel-coronavirus/


LSHTM. COVID-19 https://www.lshtm.ac.uk/research/research-action/covid-19


ProMED. (International Society for Infectious Diseases - ISID). (The Program for Monitoring Emerging Diseases (ProMED) is a program of ISID. It is an Internet service to identify unusual health events related to emerging and re-emerging infectious diseases and toxins affecting humans, animals and plants. It is the largest publicly-available system conducting global reporting of infectious diseases outbreaks) https://promedmail.org/about-promed/


Journals

**BMJ’s Coronavirus (Covid-19) Hub.** This hub supports health professionals and researchers with practical guidance, online CPD courses, as well as the latest news, comment, and research from BMJ. The content is free and updated daily. [https://www.bmj.com/coronavirus](https://www.bmj.com/coronavirus)


**Lancet Coronavirus Resource Centre.** This resource brings together new 2019 novel coronavirus disease (COVID-19) content from across *The Lancet* journals as it is published. (All of the Lancet COVID-19 content is free to access). [https://www.thelancet.com/coronavirus](https://www.thelancet.com/coronavirus)

**Nature Medicine.** (Covid Research in Brief. (A weekly roundup of how science is responding to COVID-19). [https://www.nature.com/nm/](https://www.nature.com/nm/)


**CLINICAL MATTERS**

**Clinical characteristics/Symptoms**


Chen T. et al. **Clinical characteristics of 113 deceased patients with coronavirus disease 2019: retrospective study.** *BMJ* 2020; 368 doi: [https://doi.org/10.1136/bmj.m1091](https://doi.org/10.1136/bmj.m1091) (Published 26 March 2020


[This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice].


Management of cases


NICE. COVID-19 rapid guideline: managing suspected or confirmed pneumonia in adults in the community. https://www.nice.org.uk/guidance/ng165


**Children & Adolescents**


Jones VG, Mills M, Suarez D, et al. **COVID-19 and Kawasaki disease: novel virus and novel case.** Hosp Pediatr. 2020; doi: 10.1542/hpeds.2020-0123 (This is a pre-publication version of an article that has undergone peer review and been accepted for publication but is not the final version of record) [https://hosppeds.aappublications.org/content/hosppeds/early/2020/04/06/hpeds.2020-0123.full.pdf](https://hosppeds.aappublications.org/content/hosppeds/early/2020/04/06/hpeds.2020-0123.full.pdf)

Liao J et al. **Epidemiological and clinical characteristics of COVID-19 in adolescents and young adults.** 12 March 2020 (Please note this is a preprint and has not been certified by peer review. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice) [https://www.medrxiv.org/content/10.1101/2020.03.10.20032136v1.full.pdf+html](https://www.medrxiv.org/content/10.1101/2020.03.10.20032136v1.full.pdf)


https://journals.lww.com/jphmp/Abstract/publishahead/COVID_19_in_Children_in_the_United_States_.99293.aspx

Care of recovering patients


NHS. Supporting your recovery after COVID-19.
https://www.yourcovidrecovery.nhs.uk

https://jamanetwork.com/journals/jamacardiology/fullarticle/2768916


https://www.cdc.gov/mmwr/volumes/69/wr/mm6930e1.htm

ETHICAL ISSUES


BMA. COVID-19 Ethical Issues. A guidance note

https://www.rcplondon.ac.uk/news/ethical-guidance-published-frontline-staff-dealing-pandemic

Royal College of Psychiatrists. COVID-19: Ethical Considerations.

**VENTILATORS**


**CARE OF HEALTH-CARE STAFF.**

Royal College of Psychiatrists. Workforce - COVID-19 guidance for clinicians. (Top 10 messages for supporting healthcare staff during the Covid-19 pandemic). 9 April 2020. https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.rcpsych.ac.uk%2Fabout-us%2Fresponding-to-covid-19%2Fresponding-to-covid-19-guidance-for-clinicians%2Fworkforce-covid-19-guidance-for-clinicians&data=02%7C01%7Crichard.williams%40southwales.ac.uk%7Cecbb07c6b4214b30214808d7d2765daf%7Ce5aafe7c971b4ab7b039141ad36acec0%7C0%7C1%7C63720927814190935&sdata=pbJb9nhRFWkJBRwItsLV%E6%2F3Od%26%2Fg9ih6XFw%3D&reserved=0

INFECTION CONTROL


Guo Z-D et al. Aerosol and Surface Distribution of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospital Wards, Wuhan, China, 2020. EID Journal 26, No 7: https://wwwnc.cdc.gov/eid/article/26/7/20-1435_article


Srivatsan S et al. **Preliminary support for a “dry swab, extraction free” protocol for SARS-CoV-2 testing via RT-qPCR.** (This article is a preprint and has not been certified by peer review).

[https://www.biorxiv.org/content/10.1101/2020.04.22.056283v1](https://www.biorxiv.org/content/10.1101/2020.04.22.056283v1)

van Doremalen N **et al.** **Aerosol and surface stability of SARS-CoV-2 as compared to SARS-CoV-1.** NEJM 17 March 2020.


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**PPE and Masks**

Bhaskar ME, Arun S. **SARS-CoV-2 Infection Among Community Health Workers in India Before and After Use of Face Shields.** *JAMA.* Published online August 17, 2020. doi:10.1001/jama.2020.15586

[https://jamanetwork.com/journals/jama/fullarticle/2769693](https://jamanetwork.com/journals/jama/fullarticle/2769693)

BMJ. **Face masks for the public during the covid-19 crisis.** *BMJ* 2020;369:m1435. [https://www.bmj.com/content/369/bmj.m1435](https://www.bmj.com/content/369/bmj.m1435)

Chu DK et al. **Physical distancing, face masks, and eye protection to prevent person-to-person transmission of SARS-CoV-2 and COVID-19: a systematic review and meta-analysis.** The Lancet. Published:June 01, 2020 DOI:[https://doi.org/10.1016/S0140-6736(20)31142-9](https://doi.org/10.1016/S0140-6736(20)31142-9)


ECDC. **Using face masks in the community. Reducing COVID-19 transmission from potentially asymptomatic or pre-symptomatic people through the use of face masks.** 8 April 2020.


ECDC. **Guidance for wearing and removing personal protective equipment in healthcare settings for the care of patients with suspected or confirmed COVID-19.** February 2020.


Feng S et al. **Rational use of face masks in the COVID-19 pandemic.** Published: March 20, 2020 DOI: [https://doi.org/10.1016/S2213-2600(20)30134-X](https://doi.org/10.1016/S2213-2600(20)30134-X)

https://www.preprints.org/manuscript/202004.0203/v1

https://doi.org/10.1038/s41591-020-0843-2

PHE. *COVID-19 personal protective equipment (PPE).* (Updated 7 April 2020)

The Royal Society and the British Academy. *Face masks and coverings for the general public: Behavioural knowledge, effectiveness of cloth coverings and public messaging.* 26 June 2020. https://royalsociety.org/-/media/policy/projects/set-c/set-c-facemasks.pdf [This paper is a pre-print and has not been subject to formal peer-review].


https://doi.org/10.1021/acs.nanolett.0c02211

**LOW INCOME SETTINGS**

https://doi.org/10.1038/s41591-020-0961-x
Refugees and refugee camps


Sphere

THE VIRUS

General

Bryner J. The coronavirus did not escape from a lab. Here’s how we know. Live Science 23 March 2020. https://www.livescience.com/coronavirus-not-human-made-in-lab.html?fbclid=IwAR1tWkVZv8c19U5EyWfFbQ5l5bTlhwHLRoF6M5mSLxfFz7ysysWMDUzXV4


Epidemiology


Althouse BM et al. Stochasticity and heterogeneity in the transmission dynamics of SARS-CoV-2. Cornell University. arXiv:2005.13689 [q-bio.PE] [ e-prints posted on arXiv are not peer-reviewed by arXiv; they should not be relied upon without context to guide clinical practice or health-related behaviour and should not be reported in news media as established information without consulting multiple experts in the field]


Gatalo O et al. Associations between phone mobility data and COVID-19 cases The Lancet Infectious Diseases. Published:September 15, 2020DOI:https://doi.org/10.1016/S1473-3099(20)30725-8


Jarvis CI et al. Quantifying the impact of physical distance measures on the transmission of COVID-19 in the UK. (Non-peer reviewed preprint.) 3 April 2020. medRxiv 2020.03.31.20049023; doi: https://doi.org/10.1101/2020.03.31.20049023


Nicolelis M et al. How super-spreader cities, highways, hospital bed availability, and dengue fever influenced the COVID-19 epidemic in Brazil. medRxiv doi: https://doi.org/10.1101/2020.09.19.20197749 [This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.]


Worobey M et al. The emergence of SARS-CoV-2 in Europe and North America. Science 10 Sep 2020: eabc8169 DOI: 10.1126/science.abc8169
https://science.sciencemag.org/content/early/2020/09/11/science.abc8169

https://doi.org/10.1038/s42256-020-0180-7

**SARS-CoV-2 Seroprevalence**

https://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736(20)31482-3.pdf

DOI:https://doi.org/10.1016/S0140-6736(20)31483-5


Uyoga S et al. Seroprevalence of anti-SARS-CoV-2 IgG antibodies in Kenyan blood donors. medRxiv 2020.07.27.20162693; doi: https://doi.org/10.1101/2020.07.27.20162693 [This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.]

**Immunology**

https://doi.org/10.1111/joim.13101

https://science.sciencemag.org/content/early/2020/09/23/science.abd4585


https://doi.org/10.3389/fimmu.2020.00827
doi: https://doi.org/10.1101/2020.07.02.20145003
[This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice].


DOI: 10.1056/NEJMoa2021436


Robbiani DF et al. Convergent Antibody Responses to SARS-CoV-2 Infection in Convalescent Individuals. bioRxiv preprint. 22 May 2020. [This article is a preprint and has not been certified by peer review]
https://www.biorxiv.org/content/10.1101/2020.05.13.092619v2

doi: 10.1096/fj.202000967 [Epub ahead of print]

[This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice],

Takahashi T et al. Sex differences in immune responses to SARS-CoV-2 that underlie disease outcomes. medRxiv
https://www.medrxiv.org/content/10.1101/2020.06.06.20123414v2
[This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.]

Toelzer C et al. Unexpected free fatty acid binding pocket in the cryo-EM structure of SARS-CoV-2 spike protein. Science 21 Sep 2020: eabd3255
https://science.sciencemag.org/content/early/2020/09/18/science.abd3255

Wang X et al. SARS-CoV-2 infects T lymphocytes through its spike protein-mediated membrane fusion. 7 April 2020 Nature Cellular and Molecular Immunology. https://www.nature.com/articles/s41423-020-0424-9

https://science.sciencemag.org/content/early/2020/09/25/science.abd4570

Zhu F-C et al. Immunogenicity and safety of a recombinant adenovirus type-5-vectored COVID-19 vaccine in healthy adults aged 18 years or older: a randomised, double-blind, placebo-controlled, phase 2 trial. Lancet. 2020; (published online July 20.)
https://doi.org/10.1016/S0140-6736(20)31605-6
Drug & other interactions


Miller A et al. Correlation between universal BCG vaccination policy and reduced morbidity and mortality for COVID-19: an epidemiological study. doi: https://doi.org/10.1101/2020.03.24.20042937


VACCINES, TESTS & TREATMENTS

Vaccines


Folegatti PM et al. Safety and immunogenicity of the ChAdOx1 nCoV-19 vaccine against SARS-CoV-2: a preliminary report of a phase 1/2, single-blind, randomised controlled trial. The Lancet. Published:July 20, 2020 DOI:https://doi.org/10.1016/S0140-6736(20)31604-4


**Therapeutics**


Duan K et al. *Effectiveness of convalescent plasma therapy in severe COVID-19 patients*. PNAS 18 March 2020. [https://www.pnas.org/content/early/2020/04/02/2004168117](https://www.pnas.org/content/early/2020/04/02/2004168117)

Fernandez-Cruz A et al. *Impact of Glucocorticoid treatment in SARS-CoV-2*. 26 May 2020. medRxiv preprint. [This article is a preprint and has not been certified by peer review [what does this mean?] It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice]. [https://www.medrxiv.org/content/10.1101/2020.05.22.20110544v1](https://www.medrxiv.org/content/10.1101/2020.05.22.20110544v1)


Norrie JD. *Remdesivir for COVID-19: challenges of underpowered studies*. The Lancet 29 April 2020. DOI: [https://doi.org/10.1016/S0140-6736(20)31023-0](https://doi.org/10.1016/S0140-6736(20)31023-0)


Antimalarials & other drugs


Mitja O et al., A Cluster-Randomized Trial of Hydroxychloroquine as Prevention of Covid-19 Transmission and Disease medRxiv 2020.07.20.20157651; doi: https://doi.org/10.1101/2020.07.20.20157651 [This article is a preprint and has not been peer-reviewed. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.]


Tests & Testing

Andersson M. et al. Rapid roll out of SARS-CoV-2 antibody testing—a concern BMJ 2020;369:m2420 doi: https://doi.org/10.1136/bmj.m2420 (Letter to BMJ Published 24 June 2020)

(Rapid response to the above letter):

Rapid roll out of SARS-CoV-2 antibody testing—a concern BMJ 2020;369:m2420 doi: https://doi.org/10.1136/bmj.m2420 (Published 24 June 2020)


Hou YJ et al., SARS-CoV-2 Reverse Genetics Reveals a Variable Infection Gradient in the Respiratory Tract, Cell (2020), https://doi.org/10.1016/j.cell.2020.05.042


**MISCELLANEOUS**

Environment, Animals


Mass Gatherings


Treatment, Health Care etc.

Ahmad A et al. What does it mean to be vulnerable in the era of COVID-19. The Lancet 27 April 2020. DOI: https://doi.org/10.1016/S0140-6736(20)30979-X

Burki T. Prisons are “in no way equipped” to deal with COVID-19. The Lancet VOLUME 395, ISSUE 10234, P1411-1412, MAY 02, 2020. DOI: https://doi.org/10.1016/S0140-6736(20)30984-3


Nutrition


IHL & other Legal


Taxonomy & genetics

https://journals.eco-vector.com/ecolgenet/article/view/33973

https://jamanetwork.com/journals/jama/fullarticle/2768926

Daniloski Z et al. The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types. bioRxiv 07/07/2020 [This article is a preprint and has not been certified by peer review]
doi: https://doi.org/10.1101/2020.06.14.151357


https://www.biorxiv.org/content/10.1101/2020.02.07.937862v1.full.pdf

https://doi.org/10.1016/j.cell.2020.06.040

Korber B et al., Tracking Changes in SARS-CoV-2 Spike: Evidence that D614G Increases Infectivity of the COVID-19 Virus’ Cell. 3 July 2020.
https://doi.org/10.1016/j.cell.2020.06.043

https://www.biorxiv.org/content/10.1101/2020.05.31.116061v1


Yao H et al. Patient-derived mutations impact pathogenicity of SARS-CoV-2. (Please note this is a preprint and has not been certified by peer review. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice)
Yong Jia et al. **Analysis of the mutation dynamics of SARS-CoV-2 reveals the spread history and emergence of 2 RBD mutant with lower ACE2 binding affinity.** doi: [https://doi.org/10.1101/2020.04.09.034942](https://doi.org/10.1101/2020.04.09.034942) [This article is a preprint and has not been certified by peer review]

Zeberg, H., Pääbo, S. **The major genetic risk factor for severe COVID-19 is inherited from Neanderthals.** Nature (2020). [https://doi.org/10.1038/s41586-020-2818-3](https://doi.org/10.1038/s41586-020-2818-3)

### Other pathogens

Stochino C et al., **Clinical characteristics of COVID-19 and active tuberculosis co-infection in an Italian reference hospital.** European Respiratory Journal 2020; [https://erj.ersjournals.com/content/early/2020/05/29/13993003.01708-2020](https://erj.ersjournals.com/content/early/2020/05/29/13993003.01708-2020)


WHO. Information Note. **Tuberculosis and COVID-19.** 4 April 2020. [https://www.who.int/tb/COVID_19considerations_tuberculosis_services.pdf](https://www.who.int/tb/COVID_19considerations_tuberculosis_services.pdf)


### Press & publications


ODI Newsletter – weekly. To sign up: [https://www.odi.org/newsletter-sign-up](https://www.odi.org/newsletter-sign-up)

WHO. **Q & A on coronaviruses (COVID-19).** 8 April 2020. [https://www.who.int/news-room/q-a-detail/q-a-coronaviruses](https://www.who.int/news-room/q-a-detail/q-a-coronaviruses)


Nature News. **Coronavirus blood-clot mystery intensifies.** 8 May 2020. [https://www.nature.com/articles/d41586-020-01403-8](https://www.nature.com/articles/d41586-020-01403-8)


ON-LINE COURSES, WEBINARS, BLOGS & BOOKS

Courses


redr uk. Covid-19 training. Free online training courses for a UK based audience:
Module 1: Culturally Appropriate Hygiene Promotion for Covid-19
Module 2: Covid-19 Myth Busting
Module 3: Managing Stress During the Covid-19 Pandemic


Courses include:
- Severe Acute Respiratory Infection (SARI) Treatment Facility Design
- COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response
- Infection Prevention and Control (IPC) for novel coronavirus (COVID-19)
- Introduction to emerging respiratory viruses, including novel coronavirus
- Clinical Care Severe Acute Respiratory Infection
- WHO-ICRC Basic Emergency Care: approach to the acutely ill and injured
- WHO Medical Emergency Checklist
- Resuscitation Area Designation Tool
- Health and safety briefing for respiratory diseases – ePROTECT
Blogs
NDORMS. (Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences). OxImmuno Literature Blog - Covid-19 research papers explained simply. [https://www.ndorms.ox.ac.uk/news/blog/oximmuno-literature-blog](https://www.ndorms.ox.ac.uk/news/blog/oximmuno-literature-blog)


Webinars
RSM. COVID-19 Series. (This webinar series is dedicated to give healthcare workers on the frontlines, regular and easy-to-access updates from healthcare leaders on COVID-19). [https://www.rsm.ac.uk/resources/rsm-live/?_cldee=bWFyaW9uLmJpcmNoMkBidGludGVybmV0LmNvbQ%3d%3d&recipientid=contact-48958b9efc22e911a88100224800492f-07fc18bd6f7c468893d2bce9906d2412&utm_source=ClickDimensions&utm_medium=email&utm_campaign=PEN65%20%26%20PEN66%2018.4.2020&esid=c144d41ec780-ea11-a811-000d3a86ad99](https://www.rsm.ac.uk/resources/rsm-live/?_cldee=bWFyaW9uLmJpcmNoMkBidGludGVybmV0LmNvbQ%3d%3d&recipientid=contact-48958b9efc22e911a88100224800492f-07fc18bd6f7c468893d2bce9906d2412&utm_source=ClickDimensions&utm_medium=email&utm_campaign=PEN65%20%26%20PEN66%2018.4.2020&esid=c144d41ec780-ea11-a811-000d3a86ad99)

UNIVERSITIES
Birmingham University. COVID-19 research. [https://www.birmingham.ac.uk/research/coronavirus/index.aspx](https://www.birmingham.ac.uk/research/coronavirus/index.aspx)

Cambridge University. Research Covid-19. [https://www.cam.ac.uk/topics/covid-19](https://www.cam.ac.uk/topics/covid-19)


Glasgow University. Centre for Virus Research. [https://www.gla.ac.uk/researchinstitutes/iii/cvr/researchprogrammes/covid/](https://www.gla.ac.uk/researchinstitutes/iii/cvr/researchprogrammes/covid/)

Liverpool University & Liverpool School of Tropical Medicine. CEIDR and HPRU EZI COVID-19 research programme. [https://www.liverpool.ac.uk/centre-of-excellence-infectious-diseases-research/covid-19/](https://www.liverpool.ac.uk/centre-of-excellence-infectious-diseases-research/covid-19/) & [https://www.lstmed.ac.uk/covid-19](https://www.lstmed.ac.uk/covid-19)


Oxford University. Coronavirus research. [https://www.research.ox.ac.uk/Area/coronavirus-research](https://www.research.ox.ac.uk/Area/coronavirus-research)
London University

Imperial College. MRC Centre for Global Infectious Disease Analysis.
https://www.imperial.ac.uk/mrc-global-infectious-disease-analysis/covid-19/covid-19-reports/


UCL. COVID-19 Research at UCL. https://www.ucl.ac.uk/covid-19-research/

BOOKS


Kelman L. Disaster by Choice. OUP 2020


