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

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

[Updated 27/10/2020 – 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references or resources that are not included, or if you are aware that any of the references or resources listed are out of date or have been superseded, please let us know so that we can put them in, change them or cut them out!]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please bear in mind that the peer review process may have been curtailed or that an item may be a preprint that has not been certified by peer review.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).]

Contacts:
Faculty of Conflict & Catastrophe Medicine: facultycc@apothecaries.org
Dr Tim Healing: drtimhealing@hotmail.com
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https://jamanetwork.com/journals/jama/fullarticle/2771841


[This article is a preprint and has not been peer-reviewed.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.]


[This article is a preprint and has not been peer-reviewed.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.]


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/
Johns Hopkins University. **Coronavirus resource center.** [https://coronavirus.jhu.edu/](https://coronavirus.jhu.edu/)

**LSHTM. COVID-19** [https://www.lshtm.ac.uk/research/research-action/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/](https://promedmail.org/about-promed/)

Royal College of Physicians and Surgeons of Glasgow. **Publications and Academic Resources.** [https://rcpsg.ac.uk/college/covid-19/publications-and-academic-resources](https://rcpsg.ac.uk/college/covid-19/publications-and-academic-resources)

Royal College of Surgeons. **Covid-19 Information hub.**
[https://www.rcseng.ac.uk/coronavirus/](https://www.rcseng.ac.uk/coronavirus/)
[https://www.rcseng.ac.uk/coronavirus/coronavirus-resources/](https://www.rcseng.ac.uk/coronavirus/coronavirus-resources/)
[https://www.rcseng.ac.uk/dental-faculties/fds/coronavirus/](https://www.rcseng.ac.uk/dental-faculties/fds/coronavirus/)

Royal College of Surgeons. **Covid-19. Guidance for surgeons working during the pandemic.** (Updated Friday 5 June 2020).
[https://www.rcseng.ac.uk/coronavirus/joint-guidance-for-surgeons-v2/](https://www.rcseng.ac.uk/coronavirus/joint-guidance-for-surgeons-v2/)

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

UK Research and Innovation (UKRI). **Coronavirus: the science explained.**
[https://coronavirusexplained.ukri.org/en/](https://coronavirusexplained.ukri.org/en/)

WHO. **Country and Technical Guidance – Coronavirus Disease (COVID-19).** (All technical guidance on COVID-19 - select topic from drop down menu)

WHO. **Global Alert and Response Network (GOARN) Knowledge Hub.**
[https://extranet.who.int/goarn/COVID19Hub](https://extranet.who.int/goarn/COVID19Hub)


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


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 (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].


Patterson RW et al., The emerging spectrum of COVID-19 neurology: clinical, radiological and laboratory findings, Brain, awaa240, 08 July 2020 https://doi.org/10.1093/brain/awaa240


Vincent J-L, Taccone FS. **Understanding pathways to death in patients with COVID-19.** The Lancet Respiratory Medicine 6 April 2020. DOI: [https://doi.org/10.1016/S2213-2600(20)30165-X](https://doi.org/10.1016/S2213-2600(20)30165-X)

[https://jamanetwork.com/journals/jama/fullarticle/2770279](https://jamanetwork.com/journals/jama/fullarticle/2770279)

[https://jamanetwork.com/journals/jama/fullarticle/2768391](https://jamanetwork.com/journals/jama/fullarticle/2768391)

Wu Y et al., **Nervous system involvement after infection with COVID-19 and other coronaviruses.** Brain, Behaviour and Immunity. Volume 87, July 2020, Pages 18-22. [https://doi.org/10.1016/j.bbi.2020.03.031](https://doi.org/10.1016/j.bbi.2020.03.031)

**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](https://www.nice.org.uk/guidance/ng165)


Public Health England. **COVID-19: investigation and initial clinical management of possible cases.** Updated on 31/07/2020

PHE. **COVID-19: guidance for health professionals.** Updated on 02/06/2020
Royal College of Nursing. **Clinical guidance for managing COVID-19.**  


https://www.who.int/publications/i/item/clinical-management-of-covid-19


https://www.who.int/publications/i/item/criteria-for-releasing-covid-19-patients-from-isolation


**Children & Adolescents**

British Paediatric Respiratory Society. **Guidance for the clinical management of children admitted to hospital with suspected COVID-19.**  

https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642(20)30130-9/fulltext

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
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://doi.org/10.1186/s12916-020-01596-9


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


VENTILATORS


CARE OF HEALTH-CARE STAFF.

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%7C7C01%7Crichard.williams%40southwales.ac.uk%7Cecbb07c6b4214b30214808d7d2765daf%7C5aafe7c971b4ab7b039141ad36acec0%7C0%7C1%7C637209278141940935&sdata=pwJb9nhRFWkJBRwItsLVE6%2F3Odv98yMCB%2Fg9ih6XFw1%3D&reserved=0


INFECTION CONTROL


Chin AWH et al. Stability of SARS-CoV-2 in different environmental conditions. The Lancet Microbe. 2 April 2020

Goldman E. Exaggerated risk of transmission of COVID-19 by fomites. [Comment] The Lancet July 3, 2020

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/26/7/20-0885_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://apps.who.int/iris/handle/10665/331538

**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

BMJ. **Face masks for the public during the covid-19 crisis. BMJ** 2020;369: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


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

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

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].


LOW INCOME SETTINGS


Refugees and refugee camps


https://doi.org/10.1371/journal.pmed.1003144

UNSW Sydney, Kaldor Centre for International Refugee Law. Considering the impact of COVID-19 on refugees.

Sphere

https://spherestandards.org/coronavirus

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=IwAR1tWkfVZv8c19U5EyWjfFbQ5ibTIlhwHLRoF6M5mSLxfFz7ysysWMDUzXV4
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]


Cowger TL et al., Comparison of Weighted and Unweighted Population Data to Assess Inequities in Coronavirus Disease 2019 Deaths by Race/Ethnicity Reported by the US Centers for Disease Control and Prevention. *JAMA Netw Open.* 2020;3(7):e2016933.  
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Deslandes A et al. SARS-COV-2 was already spreading in France in late December 2019. *International Journal of Antimicrobial Agents* 3 May 2020  

https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2766121


https://wwwnc.cdc.gov/eid/article/26/9/20-2272_article

https://doi.org/10.2807/1560-7917.ES.2020.25.17.2000257

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

https://doi.org/10.1038/s41591-020-0883-7


https://www.nature.com/articles/s41591-020-0869-5

https://doi.org/10.1038/s41591-020-0869-5
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.]


**SARS-CoV-2 Seroprevalence**


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**


Dorward DA. et al. Tissue-specific tolerance in fatal Covid-19. medRxiv 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].
Fachetti F. et al. SARS-CoV2 vertical transmission with adverse effects on the newborn revealed through integrated immunohistochemical, electron microscopy and molecular analyses of Placenta. The Lancet EBioMedicine Volume 59, 102951, September 01, 2020
https://www.thelancet.com/journals/ebiom/article/PIIS2352-3964(20)30327-3/fulltext

https://elifesciences.org/articles/59177


https://doi.org/10.1038/s41594-020-0469-6

https://doi.org/10.1016/j.cell.2020.06.043

https://immunology.sciencemag.org/content/5/49/eabd1554


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


Seow. J et al. Longitudinal evaluation and decline of antibody responses in SARS-CoV-2 infection. medRxiv. doi: https://doi.org/10.1101/2020.07.09.20148429 [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


Drug & other interactions

https://jamanetwork.com/journals/jamacardiology/fullarticle/2765049


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


https://www.who.int/publications/m/item/draft-landscape-of-covid-19-candidate-vaccines

Therapeutics


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].
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Antimalarials & other drugs

BMJ 2020; 369 doi: https://doi.org/10.1136/bmj.m1432


Caly, L et al. The FDA-approved drug ivermectin inhibits the replication of SARS-CoV-2 in vitro. Antiviral Research Volume 178, June 2020, 104787 
https://doi.org/10.1016/j.antiviral.2020.104787


https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)30817-5/fulltext


Mitija 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.]


Silva Borba MG et al. Effect of high vs low doses of chloroquine diphosphate as adjunctive therapy for patients hospitalised with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection. A randomized clinical trial. JAMA Netw Open 2020;3(4.23);2e208857 https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2765499


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](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](https://doi.org/10.1136/bmj.m2420) (Published 24 June 2020)

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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](https://doi.org/10.1016/j.cell.2020.05.042)


Kennedy-Shaffer, Lee, Michael Baym, and William Hanage. **Perfect as the Enemy of the Good: Using Low-Sensitivity Tests to Mitigate SARS-CoV-2 Outbreaks** (2020). [https://dash.harvard.edu/handle/1/37363184](https://dash.harvard.edu/handle/1/37363184)


Takahashi S., Greenhouse B., Rodriguez-Barraquer I. **Are SARS-CoV-2 seroprevalence estimates biased?** OSFREPRINTS. [https://osf.io/y3fxt/](https://osf.io/y3fxt/)


**MISCELLANEOUS**

**Environment, Animals**

Conticini E et al. **Can atmospheric pollution be considered a co-factor in extremely high level of SARS-CoV-2 lethality in Northern Italy.** Science Direct. 4 April 2020. [https://doi.org/10.1016/j.envpol.2020.114465](https://doi.org/10.1016/j.envpol.2020.114465)


WHO, FAO, OIE. **A Tripartite Guide to Addressing Zoonotic Diseases in Countries.** [https://extranet.who.int/sph/docs/file/3853](https://extranet.who.int/sph/docs/file/3853)
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**


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


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 [This article is a preprint and has not been certified by peer review]

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


Press & publications


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


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


SGUL. Managing COVID-19 in General Practice.

WHO. Coronavirus disease (COVID-19) training: Online training.
https://www.who.int/emergencies/diseases/novel-coronavirus-2019/training/online-training

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


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/?cldiee=bWFyaW9uLmJpcmNoMkBidGludGVybmV0LmlWbQ%3d%3d&recipientid=22e911a88100224800492f-07fc18bd6f7c468893d2bce9906d2412&utm_source=ClickDimensions&utm_medium=email&utm_campaign=PEN65%20%26%20PEN66%2018.4.2020&esid=c144d41ec780-ea11-a811-000d3a86ad99

UNIVERSITIES


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


Oxford University. 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


