

# COVID-19

## Health Evidence Summary No.82

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*This daily COVID-19 Health Evidence Summary is to signpost DFID and other UK government departments to the latest relevant evidence and discourse on COVID-19 to inform and support their response. It is a result of 3 hours of work and is not intended to be a comprehensive summary of available evidence on COVID-19 but aims to make original documents easily accessible to decision makers which, if relevant to them, they should go to before making decisions.*

### Epidemiology and modelling

Publication date	Title/URL	Journal/Article type	Summary	Keywords
06.07.2020	Prediction of COVID-19 spreading profiles in South Korea, Italy and Iran by data-driven coding	PLOS One	<ul style="list-style-type: none"> <li>This work applies a data-driven coding method for prediction of the COVID-19 spreading profile in any given population that shows an initial phase of epidemic progression.</li> <li>Application of the method to the data collected for South Korea, Italy and Iran shows that peaks of infection cases are expected to occur before mid April, the end of March and the end of May 2020, and that the percentage of population infected in each city or region will be less than 0.01%, 0.5% and 0.5%, for South Korea, Italy and Iran, respectively.</li> </ul>	Data

## Infection Prevention and Control

Publication date	Title/URL	Journal/Article type	Summary	Keywords
06.07.2020	Global resource shortages during COVID-19: Bad news for low-income countries	PLOS Neglected Tropical Diseases	<ul style="list-style-type: none"> <li>To better elucidate COVID preparedness in low-income countries, we combined data from all service provision assessments (SPAs) conducted in nationally representative surveys of hospitals within the past 5 years in low-income countries, which included Afghanistan, Democratic Republic of the Congo (DRC), Haiti, Nepal, and Tanzania.</li> <li>Conclusions: Continued local as well as international action is needed to ensure access to PPE for all health workers and respiratory support for all patients, not just for those living in resource-abundant countries. As COVID-19 therapeutics and vaccines emerge, additional international commitment will be necessary to ensure global access.</li> </ul>	PPE
06.07.2020	Mobility restrictions for the control of epidemics: When do they work?	PLOS One	<ul style="list-style-type: none"> <li>Mobility restrictions may not be an effective policy for controlling the spread of an infectious disease if it is assessed by the overall final epidemic size. Patterns of mobility established through the independent mobility and trade decisions of people in both communities may be sufficient to contain epidemics.</li> </ul>	Mobility restrictions

## Therapeutics

Publication date	Title/URL	Journal/Article type	Summary	Keywords
06.07.2020	The Role of Remdesivir in South Africa: Preventing COVID-19 Deaths Through Increasing ICU Capacity	Clinical Infectious Diseases	<ul style="list-style-type: none"> <li>Countries such as South Africa have limited intensive care unit (ICU) capacity to handle the expected number of COVID-19 patients requiring ICU care. Remdesivir can prevent deaths in countries such as South Africa by decreasing the number of days people spend in ICU, therefore freeing up ICU bed capacity.</li> </ul>	Remdesivir

## Indirect impact of COVID-19

Publication date	Title/URL	Journal/Article type	Summary	Keywords
18.06.2020	Pausing the Fight Against Malaria to Combat the COVID-19 Pandemic in Africa: Is the Future of Malaria Bleak?	Frontiers in microbiology	<ul style="list-style-type: none"> <li>Access to healthcare has generally been limited by COVID-19, while malaria interventions, such as seasonal malaria chemotherapy and distribution of insecticide-treated bed nets, have been suspended due to lockdowns.</li> <li>Likewise, the repurposing of antimalarials for treatment of COVID-19 shared symptoms and the shift in focus from the production of malaria rapid diagnostic tests (RDTs) to COVID-19 RDTs is a cause for concern in malaria-endemic regions.</li> <li>Children are less affected by the COVID-19 pandemic compared to the elderly. However, due to the fears of contracting SARS-CoV-2, the elderly who are worst affected by COVID-19 may not take children for malaria</li> </ul>	Malaria

			medication, resulting in high malaria-related mortalities among children.	
02.07.2020	<a href="#">The Impact of COVID-19 on People With Diabetes in Brazil</a>	Diabetes research and clinical practise	<ul style="list-style-type: none"> <li>• Convenience sampling study with data collected from 1701 individuals.</li> <li>• Study provides a firsthand revelation of the severity of COVID-19 on individuals with diabetes in Brazil, altering their habits, which impacted their glycemia, potentially increasing their risk of poor outcomes if infected by SARS-CoV-2.</li> </ul>	Diabetes

## Comments, Editorials, Opinions, Blogs, News

Publication date	Title/URL	Journal   Article type	Author(s)
June 2020	<a href="#">Cardiovascular care in sub-Saharan Africa during the COVID-19 crisis: lessons from the global experience</a>	Cardiovascular Journal of Africa   Editorial	Kishal Likhna, Blanche Cupido, Jens Hitzeroth, Ashley Chin, Mpiko Ntsekhe
August 2020	<a href="#">COVID-19, health rights of prison staff, and the bridge between prison and public health in Africa</a>	Public Health   Letter	M C Van Hout
03.07.2020	<a href="#">Covid-19: No large hidden outbreak in Africa but health worker shortage worsens</a>	BMJ   News	Owen Dyer
03.07.2020	<a href="#">Remdesivir: US purchase of world stocks sparks new "hunger games," warn observers</a>	BMJ   News	Jacqui Wise
06.07.2020	<a href="#">Reset Sustainable Development Goals for a pandemic world</a>	Nature   Comment	
06.07.2020	<a href="#">Cambodia's Response to COVID-19</a>	JHBSPPH   Podcast	Dr. Kumanan Rasanathan,

			talks with Dr. Sara Bennett
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## Dashboards & Trackers

Cases & deaths: Global	Cases & deaths: Regional	Cases & deaths: Country	Living evidence & policy maps	Current research including trials	Diagnostics	Treatments	Vaccines
WHO sitreps	WHO Africa	Ghana	COVID-NMA	WHO	FIND SARS-CoV-2 Test Tracker	Global COVID-19 Clinical Trial Tracker	CEPI
WHO dashboard	African Arguments	Indonesia	EPPI Centre	WHO International Clinical Trials Registry Platform (ICTRP)	FIND SARS-CoV-2 Diagnostics: performance data	US NIH registered clinical trials	Vaccine Centre LSHTM
Johns Hopkins University	European CDC	Nigeria CDC	Norwegian Institute of Public Health	Cytel	Serology-based tests for COVID-19	Solidarity trial	COVID-19 Oxford Vaccine Trial
WEF		Sierra Leone	Oxford C19 Government Response Tracker (OxCGRT)	US NIH	Our World in Data: C19 Testing	COVID-19 Therapeutics Accelerator	COVID-19 Vaccine Tracker
Our World in Data		Singapore	Our World in Data: C19 Policy responses	COVID-evidence			
Global 5050		UK	IFPRI COVID-19 Policy Response Portal	Cochrane			

CEBM, University of Oxford		US	COVID-19 Primer	Clinicaltrials.gov			
Humanitarian Data Exchange			NIH LitCovid	UKCDR			
Information is Beautiful			WHO COVID-19 Database				
LSHTM							
HealthMap (cases)							
The Commons Project							

## C19 Resource Hubs

Global	Regional & Country	Academic journals & Publishers	Institutes/Centres /Funders/Other	Health Topics	Social Sciences
WHO COVID- 19 pandemic	Africa CDC	Annals of Internal Medicine	LSTM	Stop TB Partnership	SSHAP
WHO risk communication	African Union	BMJ	LSHTM		IDA
WHO Q&A	Nigeria CDC	Bulletin of the WHO	ICL MRC Centre for Global Infectious Disease Analysis	Global Menstrual Collective	Disability and inclusion

WHO Global research	GeoPoll: SSA	Cambridge University Press	ODI	SLH: Handwashing in low resource settings	Coregroup IDDC
COVID-19 Solidarity Response Fund	Global Health Network Africa	Cell Press	Johns Hopkins University	RBM Partnership	Ethics, health systems & COVID-19
UN	African Academy of Sciences	Cochrane	Center for Global Development	Epidemic Preparedness Innovations	Social Development Direct C19 blog series
UN Women	Africa Evidence Network	Elsevier	CMMID Repository		
UNOCHA	OCHA Southern and Eastern Africa COVID-19 Digest	Health Policy and Planning	Norwegian Institute of Public Health		
UNHCR	South African Government	JAMA Network	Oxford Centre for Evidence-based Medicine		
UNICEF		The Lancet	HEART		
UNESCO		medRxiv and bioRxiv (Preprints)	UKRI		
UN WFP		NEJM	Evidence Aid		

GOARN		Oxford University Press	NIH		
EPI-WIN		PLoS	IFPRI Resources and Analyses of C19 Impact		
World Bank		SAGE journals	Prevent Epidemics		
Our World in Data		Science			
COVID-19 Narratives by David Nabarro		Springer Nature			
Reliefweb		SSRN (Preprints)			
Humanitarian OpenStreetMap Team		Wiley			
Global Partnership for Sustainable Development Data					
WorldPop					
Flowminder					
COVID-END					
Premise COVID-19 Global Impact Study					



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## Online learning & events

Date	Title/URL	Online learning/event	Duration	Lead
07.07.2020 1300-1430 BST	<a href="#">Fifth Annual Health Financing Forum (AHFF): Health Financing Resilience and Sustainability</a>	Online event	1h 30	JLN, WB, USAID, GFF, GFF, CGD
30.06.2020 1000 BST	<a href="#">Clinical update: dexamethasone and hydroxychloroquine for treatment of severe COVID-19</a>	Webinar		African Academy of Sciences
26.06.2020 0900 to 1030 EDT	<a href="#">Monitoring and mitigating the collateral effects of COVID-19</a>	Online event	1h 30	CGD
13 July 3:00 PM – 6:00 PM BST	<a href="#">2020 UCL-Lancet Lecture: Global Health Preparedness by Dr Muhammad Pate, Global Director for Health, Nutrition and Population at the World Bank Group</a>	Online Lecture	2 hour lecture, 1 hour panel discussion	UCL, The Lancet
June 2020	<a href="#">OpenWHO, the free, open-access learning platform for health emergencies, now offers 10 online courses related to COVID19.</a>	Online courses	Varies	WHO
24- 25.06.2020	<a href="#">Africa's leadership role in COVID-19 vaccine</a>	Zoom webinar		African Union & Africa CDC

	development and access			
Available now	Standard precautions: Environmental cleaning and disinfection	Online course	1 hour	WHO
Available now	COVID-19: Effective Nursing in Times of Crisis	Online course	2 weeks – 2 hours per week	Johns Hopkins School of Nursing
Available now	WHO Academy and WHO Info mobile applications	Mobile app		WHO
Available now	COVID-19: Pandemics, Modelling and Policy	Online learning	2 weeks   2 hours weekly study	FutureLearn UNESCO UNITWIN Complex Systems Digital Campus/Open University
12.05.2020	COVID-19 and maintaining quality essential health services	Webinar	1 hour	WHO & ISQua – Dr Shams Syed, Dr Peter Lachman, Dr Teri Rynolds & Dr Ed Kelley
11.5.2020	COVID-19 Contact Tracing course	Online learning	5 hours	Johns Hopkins Bloomberg School of Health
7-28 May 2020	Virtual Evidence Weeks	5 sessions	1h 30	International Initiative for Impact Evaluation (3ie)
Tuesdays at 1700 CEST (Geneva time) & Thursdays 0830 CEST (Geneva time)	COVID-19 Open online brief with Dr David Nabarro	Event	1h	4SD

30.04.2020	Professor Chris Whitty's Gresham lecture on COVID-19	Event	1h 20	Gresham College
Available now	Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control	Online learning	3 hours	WHO
Available now	Responding to COVID-19: Real-time training for the coronavirus disease outbreak	Online learning	Multiple self-paced course	WHO
25 May 2020	COVID-19: Tackling the Novel Coronavirus	Online learning	3 weeks   4 hours weekly study	FutureLearn LSHTM/UK PHRST
Available online now without mentors. Updated version will commence early June 2020	COVID-19 Diagnostics and Testing	Online learning	3 weeks   3 hours weekly study	FutureLearn FIND/LSHTM/ASLM
6 April 2020	COVID-19 Critical Care: Understanding and Application	Online learning	5 weeks   1 hour weekly study	FutureLearn University of Edinburgh & Royal College of Physicians of Edinburgh
Available now	COVID-19 supporting online courses	Online learning	Multiple self-paced course	BMJ Learning

## Suggested citation

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## Rapid review methodology

The rapid daily search for peer-reviewed literature is carried out through a PubMed search with the following keywords (“COVID-19” OR “severe acute respiratory syndrome coronavirus 2” OR “2019-nCoV” OR “SARS-CoV-2” OR “2019nCoV” OR “coronavirus” ) AND (“Africa”) OR (“equity” OR “equities”) OR (“poverty”), restricted to articles published in the previous 2 to 3 days, in English. This is complemented by a search of the homepage of the following high-impact global health journals: The Lancet journals, New England Journal of Medicine, Nature, JAMA, Annals of Internal Medicine, Cochrane Reviews, BMJ Global Health, the PLoS journals and a Twitter search of their Twitter pages. A search also of preprints from bioRxiv and medRxiv. Please note that papers that have not been peer-reviewed are highlighted in red. All primary research papers that relate to the primary and secondary impacts of the COVID-19 response in LMICs, and disease control and health system responses are included. Articles related to tackling the secondary impacts on other sectors are not included. Additional commentaries, opinions, and commissioned pieces are selected based on relevance.

The search for dashboards, guidelines, tools, editorials, comments, blogs, opinions and news is through the academic journals listed above, C19 resource hubs and following lead academics and professionals on Twitter.

## About this report

This daily COVID-19 health evidence summary (HES) is based on 3 hours of desk-based research. The summary is not intended to be a comprehensive summary of available evidence on COVID-19 but aims to make original documents easily accessible to decision makers which, if relevant to them, they should go to before making decisions. The HES are not intended to replace medical or professional advice and the researcher or the K4D consortium cannot be held responsible for any decisions made about COVID-19 on the basis of the HES alone. K4D services are provided by a consortium of leading organisations working in international development, led by the Institute of Development Studies (IDS), with Education Development Trust, Itad, University of Leeds Nuffield Centre for International Health and Development, Liverpool School of Tropical Medicine (LSTM), University of Birmingham International Development Department (IDD) and the University of Manchester Humanitarian and Conflict Response Institute (HCRI).

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