

# COVID-19

## Health Evidence Summary No.78

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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.*

### Clinical characteristics and management

Publication date	Title/URL	Journal/Article type	Summary	Keywords
01.07.2020	Neurologic and radiographic findings associated with COVID-19 infection in children	JAMA   Brief Report	<ul style="list-style-type: none"> <li>• Case series of 4 previously healthy children with neurological symptoms caused by inflammatory syndrome associated with COVID-19.</li> <li>• Two recovered, the other two improving but still in hospital and currently wheelchair bound due to muscle weakness.</li> <li>• Children with C19 may present with new neurological symptoms in the absence of respiratory symptoms</li> </ul>	Neurology, children

## Epidemiology and modelling

Publication date	Title/URL	Journal/Article type	Summary	Keywords
July 2020	COVID-19 age-mortality curves are flatter in developing countries	World Bank   Policy Research Working Paper 9313	<ul style="list-style-type: none"> <li>• Uses data on COVID-19 deaths by age for 26 countries</li> <li>• Data and analysis for estimating potential burden in different countries</li> <li>• On average, the age-mortality curve is flatter in developing countries. In rich countries, people ages 70-79 are 12.6 times as likely to die as those ages 50-59. In the LMICs, this ratio is 3.5.</li> <li>• This pattern holds separately for men's and women's mortality rates</li> <li>• Authors discuss possibilities for differences across countries</li> </ul>	demography

## Testing

Publication date	Title/URL	Journal/Article type	Summary	Keywords
01.07.2020	Diagnostic accuracy of serological tests for covid-19: systematic review and metaanalysis	BMJ   Research	<ul style="list-style-type: none"> <li>• Sensitivity and specificity, stratified by method of serological testing, are reported</li> <li>• Sensitivity was higher at least 3 weeks after symptom onset compared with the first week</li> <li>• Authors call for higher quality clinical studies assessing the diagnostic accuracy of serological tests for C19</li> <li>• Available evidence does not support the continued use of existing POC serological tests</li> </ul>	Accuracy, antibody tests

## Social Science

Publication date	Title/URL	Journal/Article type	Summary	Keywords
24.06.2020	How villagers in central Sierra Leone understand infection risks under threat of COVID-19	PLOS   ONE	<ul style="list-style-type: none"> <li>Fieldwork in two villages in central Sierra Leone suggest that rural people in SL retain the lessons of experience from the Ebola outbreak of 2014-15</li> <li>Authors expect that rural populations will be able to apply these lessons to the C19 context reducing the need for draconian enforcement</li> </ul>	Understanding, outbreak experience

## Comments, Editorials, Opinions, Blogs, News

Publication date	Title/URL	Journal   Article type	Author(s)
July 2020	Tackling antimicrobial resistance in the COVID-19 pandemic	Bull WHO   Editorial	
02.07.2020	UN enlists 10,000 digital volunteers to fight COVID-19 misinformation	Devex   News	
01.07.2020	Accelerating development of SARS-CoV-2 vaccines – the role for controlled human infection models	NEJM   Perspective	<p>Megan E. Deming</p> <p>Nelson L. Michael</p> <p>Merlin Robb et al.</p>
01.07.2020	Do-It-Yourself pandemic: it's time for accountability in models	Issues in Science and Technology   Blog	Guru Madhavan

30.06.2020	All bets are off for measuring pandemic preparedness	Think Global Health   Blog	Sawyer Crosby Joseph L Dieleman Samantha Kiernan Thomas J. Bollyky
29.06.2020	No clinical benefit from use of lopinavir-ritonavir in hospitalised COVID-19 patients studied in RECOVERY	RECOVERY Trial   News	
29.06.2020	Timeline of WHO's response to COVID-19	WHO   News	
28.06.2020	The hard nut of cracking who is vulnerable in our communities in the context of COVID-19	Arise   Blog	Joseph Kimani
26.06.2020	COVID-19 research in brief: December, 2019 to June, 2020	Nature   News	
25.06.2020	Ensuring continuity of tuberculosis care during the covid-19 crisis	BMJ   Opinion	Nathaly Aguilera Vasquez Tripti Pande Petra Heitkamp Madhukar Pai
24-25.06.2020	COVID-19 vaccine development and access virtual conference	Africa CD  News	

## 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	<a href="#">COVID-19 Oxford Vaccine Trial</a>
WEF		Sierra Leone	Oxford COVID-19 Government Response Tracker (OxCGRT)	US NIH	Our World in Data: COVID-19 Testing	COVID-19 Therapeutics Accelerator	
Our World in Data		Singapore	Our World in Data: COVID-19 Policy responses	COVID-evidence			
Global 5050		UK	<a href="#">IFPRI COVID-19 Policy Response Portal</a>	Cochrane			
CEBM, University of Oxford		US	<a href="#">COVID-19 Primer</a>	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	JAMA Network	Norwegian Institute of Public Health		
UNHCR	South African Government	The Lancet	Oxford Centre for Evidence-based Medicine		
UNICEF		medRxiv and bioRxiv (Preprints)	HEART		
UNESCO		NEJM	UKRI		
UN WFP		Oxford University Press	Evidence Aid		
GOARN		PLoS	NIH		
EPI-WIN		SAGE journals	IFPRI Resources and Analyses of C19 Impact		

World Bank		Science	Prevent Epidemics		
Our World in Data		Springer Nature			
COVID-19 Narratives by David Nabarro		SSRN (Preprints)			
Reliefweb		Wiley			
Humanitarian OpenStreetMap Team					
Global Partnership for Sustainable Development Data					
WorldPop					
Flowminder					
COVID-END					
Premise COVID-19 Global Impact Study					
GISAID					



## Online learning & events

Date	Title/URL	Online learning/event	Duration	Lead
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 development and access</a>	Zoom webinar		African Union & Africa CDC
Available now	<a href="#">Standard precautions: Environmental cleaning and disinfection</a>	Online course	1 hour	WHO

Available now	<a href="#">COVID-19: Effective Nursing in Times of Crisis</a>	Online course	2 weeks – 2 hours per week	Johns Hopkins School of Nursing
Available now	<a href="#">WHO Academy and WHO Info mobile applications</a>	Mobile app		WHO
Available now	<a href="#">COVID-19: Pandemics, Modelling and Policy</a>	Online learning	2 weeks   2 hours weekly study	FutureLearn UNESCO UNITWIN Complex Systems Digital Campus/Open University
12.05.2020	<a href="#">COVID-19 and maintaining quality essential health services</a>	Webinar	1 hour	WHO & ISQua – Dr Shams Syed, Dr Peter Lachman, Dr Teri Rynolds & Dr Ed Kelley
11.5.2020	<a href="#">COVID-19 Contact Tracing course</a>	Online learning	5 hours	Johns Hopkins Bloomberg School of Health
7-28 May 2020	<a href="#">Virtual Evidence Weeks</a>	5 sessions	1h 30	International Initiative for Impact Evaluation (3ie)
Tuesdays at 1700 CEST (Geneva time) & Thursdays 0830 CEST (Geneva time)	<a href="#">COVID-19 Open online brief with Dr David Nabarro</a>	Event	1h	4SD
30.04.2020	<a href="#">Professor Chris Whitty's Gresham lecture on COVID-19</a>	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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