

COVID-19

Health Evidence Summary No.76

Kerry Millington & Samantha Reddin

Liverpool School of Tropical Medicine (LSTM) & Institute of Development Studies

30 June 2020

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
29.06.2020	Childhood Multisystem Inflammatory Syndrome — A New Challenge in the Pandemic	The New England Journal of Medicine Editorial	<ul style="list-style-type: none"> As the Covid-19 pandemic has evolved, case reports have appeared describing children with unusual febrile illnesses that have features of Kawasaki's disease, toxic shock syndrome, acute abdominal conditions, and encephalopathy, along with other reports of children with fever, elevated inflammatory markers, and multisystem involvement. It is now apparent that these reports were describing different clinical presentations of a new childhood inflammatory disorder. Two reports now appearing in the Journal describe the epidemiology and clinical features of the 	children

			new disorder in the United States.	
29.06.2020	Association of BMI and Obesity with Composite poor outcome in COVID-19 adult patients: A Systematic Review and Meta-Analysis	medRix (not peer reviewed) pre-print	<ul style="list-style-type: none"> Based on a systematic literature search from PubMed and Embase database Most studies were conducted in China (55.5%) with remaining studies from French, Germany, and United States Conclusion: Obesity is a risk factor of composite poor outcome of COVID-19. On the other hand, COVID-19 patients with composite poor outcome have higher BMI. BMI is an important routine procedure that should be assessed in the management of COVID-19 patients and special attention should be given to patients with obesity 	obesity

Epidemiology and modelling

Publication date	Title/URL	Journal/Article type	Summary	Keywords
29.06.2020	Statistics associated with the lethality of COVID-19 by age group and gender in Mexico	medRix (not peer reviewed) pre-print	<ul style="list-style-type: none"> Outcomes of 34,686 SARS-CoV-2 confirmed cases analysed of patients attending the IMSS (Mexican Institute for National Insurance) from January 2 to June 23, 2020. We calculated relative IFR by age group and gender and introduced the concept of adjusted lethalties, that can be used to project the burden of the disease for a population with different demographic characteristics. 	Data, age, gender

29.06.2020	Predictive model of COVID-19 incidence and socioeconomic description of municipalities in Brazil	medRxiv (not peer reviewed) pre-print	<ul style="list-style-type: none"> The inhabitants in cities with reported cases of COVID-19 represent more than 73.1% of the Brazilian population. Stratifying the age groups of the inhabitants and accounting for the percentage of women and men does not affect COVID-19 incidence (confirmed cases/100,000 inhabitants). The demographic density, the MHDl and the per capita income of the municipalities with cases of COVID-19 do not affect disease incidence. If conditions are maintained, our model predicts 2,358,703 (2,172,930 to 2,544,477) cumulative cases on July 25, 2020. 	Modelling, age, gender
------------	--	---	--	------------------------

Social Science

Publication date	Title/URL	Journal/Article type	Summary	Keywords
29.06.2020	Digital tools against COVID-19: taxonomy, ethical challenges, and navigation aid	Lancet digital health Health policy	<ul style="list-style-type: none"> A typology of the primary digital public health applications that are in use are presented. These include proximity and contact tracing, symptom monitoring, quarantine control, and flow modelling. For each, we discuss context-specific risks, cross-sectional issues, and ethical concerns. Recognising the need for practical guidance, we propose a navigation aid for policy makers and other decision makers for the ethical development and use of digital public health tools. 	Ethics, digital tools

Comments, Editorials, Opinions, Blogs, News

Publication date	Title/URL	Journal Article type	Author(s)
29.06.2020	Global Disparity and Solidarity in a Pandemic	The Hastings Centre Report Brief reflections	Anita Ho, Iulia Dascalu
29.06.2020	What Could “Fair Allocation” during the Covid-19 Crisis Possibly Mean in Sub-Saharan Africa?	The Hastings Centre Report Essay	Keymanthri Moodley, Laurent Ravez, Adetayo Emmanuel Obasa et al
29.06.2020	Why N95 Should Be the Standard for All COVID-19 Inpatient Care	Annals of internal medicine Ideas and opinions	Nhu Quyen Dau,
29.06.2020	Impact of COVID-19 lockdown on routine immunisation in Karachi, Pakistan	Lancet Global Health Correspondance	Subhash Chandir, Danya Arif Siddiqi, Hamidreza Setayesh, Aamir Javed Khan
29.06.2020	Applications of digital technology in COVID-19 pandemic planning and response	Lancet digital health Viewpoint	Sera Whitelaw, Prof Mamas A Mamas, Prof Eric Topol, Harriette G C Van Spall
29.06.2020	Child poverty, food insecurity, and respiratory health during the COVID-19 pandemic	Lancet respiratory medicine spotlight	Ian P Sinha, Alice R Lee et al
26.06.2020	‘The epidemic is growing very rapidly’: Indian government adviser fears coronavirus crisis will worsen	Nature News	Jayaprakash Muliylil

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 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	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		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	Clinical update: dexamethasone and hydroxychloroquine for treatment of severe COVID-19	Webinar		African Academy of Sciences
26.06.2020 0900 to 1030 EDT	Monitoring and mitigating the collateral effects of COVID-19	Online event	1h 30	CGD
13 July 3:00 PM – 6:00 PM BST	2020 UCL-Lancet Lecture: Global Health Preparedness by Dr Muhammad Pate, Global Director for Health, Nutrition and Population at the World Bank Group	Online Lecture	2 hour lecture, 1 hour panel discussion	UCL, The Lancet
June 2020	OpenWHO, the free, open-access learning platform for health emergencies, now offers 10 online courses related to COVID19.	Online courses	Varies	WHO
24- 25.06.2020	Africa's leadership role in COVID-19 vaccine development and access	Zoom webinar		African Union & Africa CDC
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

Millington, K.A. and Reddin, S. (2020). *COVID-19 Health Evidence Summary No.76*. K4D Evidence Summary. Brighton, UK: Institute of Development Studies.

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).

This evidence summary was prepared for the UK Government’s Department for International Development (DFID) and its partners in support of pro-poor programmes. It is licensed for non-commercial purposes only. K4D cannot be held responsible for errors, omissions or any consequences arising from the use of information contained in this health evidence summary. Any views and opinions expressed do not necessarily reflect those of DFID, K4D or any other contributing organisation.

© DFID - Crown copyright 2020.

