

# COVID-19

## Health Evidence Summary No.35

Kerry Millington

Liverpool School of Tropical Medicine (LSTM)

11 May 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.*

### Indirect impact of COVID-19

Publication date	Title/URL	Journal/Article type	Summary
11.05.2020	Potential effects of disruption to HIV programmes in sub-Saharan Africa caused by COVID-19: results from multiple mathematical models	Preprint (not peer-reviewed)	<ul style="list-style-type: none"> <li>• Five well-described models of HIV epidemics were each used to predict the potential effect of the COVID-19 epidemic on disruption to HIV prevention and treatment services on HIV-related deaths and new infections in sub-Saharan Africa over a one and 5 year period</li> <li>• A six month disruption of antiretroviral therapy could lead to more than 500,000 extra deaths from AIDS-related illnesses, including from TB, in sub-Saharan Africa in 2020-21. Shorter disruptions of three months would still see a significant impact on HIV deaths</li> <li>• Sporadic adherence to treatment risks spread of HIV drug resistance</li> <li>• Gains made in preventing mother-to-child transmission of HIV could be reversed, with new HIV infections among children up by as much as 104%</li> <li>• A focus must remain on the supply of ARVs for people with HIV to</li> </ul>

			avoid additional HIV-related deaths and provision of other essential prevention measures to prevent any increase in HIV incidence
--	--	--	---

## Therapeutics

Publication date	Title/URL	Journal/Article type	Summary
08.05.2020	Triple combination of interferon beta-1b, lopinavir-ritonavir, and ribavirin in the treatment of patients admitted to hospital with COVID-19: an open-label, randomised phase 2 trial	The Lancet   Article	<ul style="list-style-type: none"> <li>This study showed that early treatment with triple antiviral therapy interferon beta-1b, lopinavir-ritonavir and ribavirin, compared with single antiviral therapy lopinavir-ritonavir, was safe and highly effective in shortening the duration of virus shedding, decreasing cytokine responses, alleviating symptoms, and facilitating the discharge of patients with mild to moderate COVID-19</li> </ul>

## Guidelines, Statements & Tools

Publication Date	Title/URL	Source	Summary
10.05.2020	Considerations for public health and social measures in the workplace in the context of COVID-19	WHO	<ul style="list-style-type: none"> <li>Annex to Considerations in adjusting public health and social measures in the workplace in the context of COVID-19</li> </ul>
10.05.2020	Considerations for school-related public health measures in the context of COVID-19	WHO	<ul style="list-style-type: none"> <li>Annex to Considerations for school-related public health and social measures in the context of COVID-19</li> </ul>

May 2020	Interim Guidance: Public health and social measures for COVID-19 preparedness and response in low capacity and humanitarian settings version 1	ICRC, IFRC, IOM, NRC, UNICEF, UN-HABITAT, UNHCR, WHO in consultation with IASC members	<ul style="list-style-type: none"> <li>This interim guidance outlines how to adapt to COVID-19 prevention and response measures for use in low capacity and humanitarian settings</li> </ul>
07.05.2020	Global Humanitarian Response Plan for COVID-19: May Update	UN OCHA	<ul style="list-style-type: none"> <li>The humanitarian system is preparing for a sharp rise in conflict, food insecurity and poverty as a result of the C19 pandemic</li> <li>An increase in measles, malaria, cholera and other diseases are expected as vaccination programmes are put on hold, weak health systems are unable to cope and supply chains are disrupted</li> <li>The updated \$6.7 billion global HRP is based on extensive in-country consultations and reflects real-time needs</li> <li>It brings together appeals from WHO and other UN humanitarian agencies shaped by NGOs and NGO consortia, through which they can access funding through it</li> <li>The Plan provides help and protection that prioritise the most vulnerable in society in 63 LMICs and includes programmes that respond to the projected rapid growth in food insecurity</li> </ul>
05.05.2020	Community-based health care, including outreach and campaigns, in the context of the COVID-19 pandemic	WHO & UNICEF   Interim Guidance	<ul style="list-style-type: none"> <li>Discusses the specific role of community-based healthcare in the pandemic context and outlines adaptations needed to keep people safe, maintain continuity of essential services and ensure an effective response to C19</li> </ul>
May 2020	COVID-19: What are prisons a particular risk, and what can be done to mitigate this?	SSHAP   Brief	<ul style="list-style-type: none"> <li>Includes practical considerations to mitigate risks associated with an outbreak of C19 in prisons in LMICs</li> </ul>

April 2020	Considerations and principles for shielding people at high risk of severe outcomes from COVID-19	SSHAP   Brief	<ul style="list-style-type: none"> <li>• Considers the rationale for shielding individuals at high risk of severe disease or death from C19 in LMICs</li> <li>• Provides overview of approaches to shielding, including who to shield, and the likely challenges and ways to mitigate these challenges</li> </ul>
05.05.2020	LSHTM COVID-19 Transmission Model (version 1)	CMMID Repository	<ul style="list-style-type: none"> <li>• Simulate C19 epidemics in 152 countries, and see how school closures, social distancing, elderly shielding, self-isolation and lockdowns may impact cases, hospitalisations and deaths. Designed for educational purposes not medical or policy advice.</li> </ul>
04.05.2020	Community participation is crucial in a pandemic	The Lancet   Comment	<ul style="list-style-type: none"> <li>• Includes a panel of steps to community participation in the C19 response</li> </ul>
01.05.2020	Statement on the third meeting of the International Health Regulations (2005) Emergency Committee regarding the outbreak of coronavirus disease (COVID-19)	WHO Statement	<ul style="list-style-type: none"> <li>• Statement from the third meeting (teleconference) of the expanded Emergency Committee on 30 April 2020 convened by the WHO DG under the IHR (2005) regarding CoVID-19</li> </ul>
30.04.2020	COVID-19 and the Rights of Persons with Disabilities: Guidance	UN Human Rights	
28.04.2020	COVI-PREG	CHUV	<ul style="list-style-type: none"> <li>• International COVID-19 and Pregnancy Registry</li> </ul>
28.04.2020	Accessibility Campaign – COVID-19	International Disability Alliance	<ul style="list-style-type: none"> <li>• Call for PH information and communications around COVID-19 to be fully accessible</li> </ul>
24.04.2020	Handwashing compendium for low resource settings: a	IDS Sanitation Learning Hub	

	living document (edition 1)		
23.04.2020	Practical recommendations for the management of diabetes in patients with COVID-19	The Lancet Diabetes & Endocrinology   Personal view	<ul style="list-style-type: none"> <li>Practical recommendations for the management of diabetes in patients with C19, authored by an internal panel of experts in the fields of diabetes and endocrinology</li> </ul>
Ongoing	WHO Country & Technical Guidance	WHO	
Ongoing	Rapid guidelines and evidence summaries	NICE	
Ongoing	Inter-Agency Standing Committee (IASC)	IASC	

## Comments, Editorials, Opinions, Blogs, News

Publication date	Title/URL	Journal   Article type	Author(s)
May 2020	Harnessing behavioural science in public health campaigns to maintain 'social distancing' in response to the COVID-19 pandemic: key principles	J Epidemiol Community Health	Chris Bonell et al.
08.05.2020	Interferon beta-1b for COVID-19	The Lancet   Comment	Sarah Shalhoub
08.05.2020	Sharpening the global focus on ethnicity and race in the time of COVID-19	The Lancet   Comment	Neeraj Bhala et al.
08.05.2020	COVID-19: a public health approach to manage domestic violence is needed	The Lancet Public Health   Correspondence	Joht Singh Chandan et al.

08.05.2020	Sex and gender differences in health: what the COVID-19 pandemic can teach us	Annals of Internal Medicine   Ideas and Opinions	Primavera A. Spagnolo et al.
08.05.2020	Sexual Health in the SARS-CoV-2 Era	Annals of Internal Medicine   Ideas and Opinions	Jack L. Turban et al.
07.05.2020	Access to lifesaving medical resources for African countries: COVID-19 testing and response, ethics and politics	The Lancet   Viewpoint	Matthew M Kavanagh et al.
08.0.2020	COVID-19: How do you self-isolate in a refugee camp?	Int J Public Health   Letter	Emmanuel Raju and Sonja Ayeb-Karlsson
April 2020	Considerations and principles for shielding people at high risk of severe outcomes from COVID-19	SSHAP   Briefing	N Butler & Olivia Tulloch
06.05.2020	Coronavirus: share lesson on lifting lockdowns	Nature   Editorial	
07.05.2020	The equitable distribution of COVID-19 therapeutics and vaccines	JAMA   Viewpoint	Thomas j. Bollyky, Lawrence O. Gostin & Margaret A. Hamburg

## Dashboards & Trackers

Cases & deaths: Global	Cases & deaths: Regional	Cases & deaths: Country	Living evidence & policy maps	Current research including trials	Diagnoses	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	
WEF		Sierra Leone	Oxford C19 Government Response Tracker (OxCGRT)	US NIH		COVID-19 Therapeutics Accelerator	
Our World in Data		Singapore		COVID-evidence			
Global 5050		UK		Cochrane			
CEBM, University of Oxford		US		Clinicaltrials.gov			
Humanitarian Data Exchange				UKCDR			
Information is Beautiful							
LSHTM							
HealthMap (cases)							

The Commons Project							
---------------------	--	--	--	--	--	--	--

## C19 Resource Hubs

Global	Regional & Country	Academic journals & Publishers	Global Health Institutes/Centres/Funders/ Other	Health Topics	Social Sciences
WHO COVID-19 pandemic	Africa CDC	The Lancet	LSTM	Stop TB Partnership	SSHAP
WHO risk communication	African Union	NEJM	LSHTM		IDA
WHO Q&A	Nigeria CDC	Elsevier	ICL MRC Centre for Global Infectious Disease Analysis	Global Menstrual Collective	Disability and Inclusion
WHO Global research	GeoPoll : SSA	BMJ	ODI	SLH: Handwashing in low resource settings	Coregroup IDDC
COVID-19 Solidarity Response Fund	Global Health Network Africa	Cell Press	Johns Hopkins University		Rings HSG Resyst Reach Wellcome
UN	African Academy of Sciences	Cochrane resources	Center for Global Development		Social Development Direct C19 blog series



UN Women	Africa Evidence Network	PLoS	CMMID Repository		
UNOCHA		Annals of Internal Medicine	Norwegian Institute of Public Health		
UNHCR			Oxford Centre for Evidence-based Medicine		
UNICEF			HEART		
UNESCO		Wiley Health Economics	UKRI		
UN WFP		Pre-prints medRxiv and bioRxiv	Evidence Aid		
GOARN					
EPI-WIN					
World Bank					
COVID-19 Narratives by David Nabarro					
Reliefweb					

Humanitarian OpenStreetMap Team					
Global Partnership for Sustainable Development Data					
WorldPop					
Flowminder					
COVID-END					
Premise COVID-19 Global Impact Study					

## Online learning & events

Date	Title/URL	Online learning/event	Duration	Lead
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. (2020). *COVID-19 Health Evidence Summary No.35*. 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.