

COVID-19

Health Evidence Summary No.34

Kerry Millington

Liverpool School of Tropical Medicine (LSTM)

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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
07.05.2020	COVID-19: PCR screening of asymptomatic healthcare workers at London hospital	The Lancet Correspondence	<ul style="list-style-type: none"> Understanding the determinants of asymptomatic infection could identify correlates of protection This study reports serial testing in high-exposure asymptomatic HCWs Data from this study suggests that the rate of asymptomatic infection among HCWs more likely reflects general community transmission than in-hospital exposure in a London setting

Infection prevention and control

Publication date	Title/URL	Journal/Article type	Summary
06.05.2020	Infection prevention and control compliance in Tanzanian outpatient facilities: a cross-sectional study with implications for the control of COVID-19	The Lancet Global Health Article	<ul style="list-style-type: none"> This secondary analysis of cross-sectional data collected in 2018 as part of a randomised controlled trial in 220 private for-profit dispensaries and health centres and in faith-based dispensaries, health centres, and hospitals in 18 regions of Tanzania identified health worker infection prevention and control compliance, especially for hand hygiene and disinfection, was inadequate in these outpatient settings Improvements in supplies and compliance with IPC practices are urgently needed to contain rather than fuel COVID-19 transmission

Epidemiology and modelling

Publication date	Title/URL	Journal/Article type	Summary
06.05.2020	COVID-19 on the African continent	The Lancet Infectious Diseases Correspondence	<ul style="list-style-type: none"> Illustrating the potential burden of SARS-CoV-2 epidemics within the most vulnerable countries in Africa, this study simulated a SARS-CoV-2 outbreak in DR Congo in the absence of interventions using an age-structured epidemiological model and assuming a basic reproductive number of 2.72 76,213,155 infections and 319, 441 deaths were estimated in the absence of physical distancing (see figure) Assessing the true burden of COVID-19 and implementing effective case isolation is challenging where testing is sparse – by mid-April approximately 200 tests per day were being conducted in in DR Congo, 300 tests per day in Senegal and 400 tests per day in Ethiopia

Guidelines, Statements & Tools

Publication Date	Title/URL	Source	Summary
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"> 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
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"> Includes practical considerations to mitigate risks associated with an outbreak of C19 in prisons in LMICs
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"> Considers the rationale for shielding individuals at high risk of severe disease or death from C19 in LMICs Provides overview of approaches to shielding, including who to shield, and the likely challenges and ways to mitigate these challenges
05.05.2020	LSHTM COVID-19 Transmission Model (version 1)	CMMID Repository	<ul style="list-style-type: none"> 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.
04.05.2020	Community participation is crucial in a pandemic	The Lancet Comment	<ul style="list-style-type: none"> Includes a panel of steps to community participation in the C19 response
01.05.2020	Statement on the third meeting of the International Health Regulations (2005) Emergency Committee	WHO Statement	<ul style="list-style-type: none"> 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

	regarding the outbreak of coronavirus disease (COVID-19)		
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"> International COVID-19 and Pregnancy Registry
28.04.2020	Accessibility Campaign – COVID-19	International Disability Alliance	<ul style="list-style-type: none"> Call for PH information and communications around COVID-19 to be fully accessible
24.04.2020	Handwashing compendium for low resource settings: a living document (edition 1)	IDS Sanitation Learning Hub	
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"> 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
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)
07.05.2020	Leave no one behind: using a benefit-based advance market commitment to incentivise development and global supply of COVID-19 vaccines	Center for Global Development Notes	Kalipso Chalkidou et al.
06.05.2020	Health system quality in the time of COVID-19	The Lancet Global Health Comment	Sanam Roder-DeWan
06.05.2020	COVID-19 in Cameroon: a crucial equation to resolve	The Lancet Infectious Diseases Correspondence	Francois-Xavier Mbopi-Keou, Jean-Emmanuel Pondi & Maurice Aurelien Sosso
06.05.2020	The immune system of children: the key to understanding SARS-CoV-2 susceptibility?	The Lancet Child & Adolescent Health Comment	Rita Carsetti et al.
06.05.2020	COVID-19-associated nephritis: early warning for disease severity and complications?	The Lancet Correspondence	Oliver Gross et al.
06.05.2020	COVID-19: underlying metabolic health in the spotlight	The Lancet Diabetes & Endocrinology Editorial	Jagdish Khubchandani, Timothy R Jorfan & Y Tony Yang
06.05.2020	Effective transmission across the globe: the role of climate in COVID-19 mitigation strategies	The Lancet Planetary Health Correspondence	Kathleen M O' Reilly et al.
05.05.2020	COVID-19: Shining the light on Africa	Am J Trop Med Hyg Editorial	Philip J. Rosenthal et al.

30.04.2020	COVID-19 in fragile settings: Ensuring a conflict sensitive response	World Bank Blog	Franck Bousquet & Oscar Fernandez-Taranco
06.05.2020	Interpreting diagnostic tests for SARS-CoV-2	JAMA Viewpoint	Nandini Sethuraman et al.

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	
WEF		Sierra Leone	Oxford COVID-19 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	UKRI		

		Economics			
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					
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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

20 April 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),

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