

COVID-19 Health Evidence Summary No.51

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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
29.05.2020	Neuropathogenesis and neurologic manifestations of the coronaviruses in the age of coronavirus disease 2019: A Review	JAMA Neurology Review	 MERS-CoV and SARS-CoV-1 are known to cause disease in the central and peripheral nervous systems The pulmonary manifestations of C19 have been well described in the literature but emerging evidence suggests C19 has neurologic consequences as well This review summarises available information regarding neurological disorders 	Morbidity Neurological

			associated with C19 which may lead to improved clinical outcomes and better treatment algorithms. This review also highlights where further studies are required
29.05.2020	Mortality and pulmonary complications in patients undergoing surgery with perioperative SARS-CoV-2 infection: an international cohort study	The Lancet Article	 Analysis of 1128 patients who had surgery between 1 Jan and 31 Mar 2020 Postoperative pulmonary complications occur in half of patients with perioperative SARS-CoV-2 infection and are associated with high mortality Thresholds for surgery during the C19 pandemic should be raised compared to normal practice, especially in men aged 70 years and older Postponing nonurgent procedures and promoting nonoperative treatment to delay or avoid the need for surgery should be considered
29.05.2020	Clinical characteristics and risk factors associated with COVID-19 disease severity in patients with cancer in Wuhan, China: a multicentre, retrospective, cohort study	The Lancet Oncology Article	 Patients with cancer and COVID-19 were more likely to deteriorate into severe illness than those without cancer Risk factors identified in this study may help early clinical surveillance of disease progression of C19 in patients with cancer

	29.05.2020	Clinical characteristics, outcomes, and risk factors for mortality in patients with cancer and COVID-19 in Hubei, China: a multicentre, retrospective, cohort study	The Lancet Oncology Article	•	and COVID 10	Mortality NCD	
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Epidemiology and modelling

Publication date	Title/URL	Journal/Article type	Summary
30.05.2020	Early transmission of SARS-CoV-2 in South Africa: an epidemiological and phylogenetic report	medRxiv Preprint (not peer reviewed)	 A molecular epidemiological study by a network of government and university laboratories of the first 21 SARS-CoV-2 whole genomes sampled in the first port of entry, KwaZulu-Natal (KZN) during the first month of the epidemic The early introduction of SARS-CoV-2 in KZN included a localised hospital outbreak which may explain the initially high death rates in the province The current high rate of transmission of C19 in the Western Cape and Eastern Cape highlights the need to strengthen local genomic surveillance in SA

Indirect impact of COVID-19

Publication date	Title/URL	Journal/Article type	Summary	Keywords

29.0	05.2020	Rapid assessment of service delivery for NCDs during the COVID- 19 pandemic	WHO NCD Department Preliminary results	A survey run by WHO with responses from 155 countries has shown that C19 significantly impacts health services for cancer, cardiovascular disease and diabetes Countries must find innovative ways to continue essential health services	
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Social Science

Publication date	Title/URL	Journal/Article type	Summary	Keywords
29.05.2020	Behavioural health and response for COVID-19	Disaster Medicine and Public Health Preparedness	 Research suggests that behavioural health concerns should take a primary role in response to the pandemic A four-step services system is proposed designed for implementation with a variety of different groups and reserves limited clinical services for the most extreme reactions 	Behaviour
22.05.2020	COVID-19 pandemic, socioeconomic crises and human stress in resource- limited settings: A case from Bangladesh	Cell Research Article	Study to understand the public perception of socioeconomic crises and human stress in resource-limited settings of Bangladesh during the C19 outbreak 1066 Bangladeshi participants	Mental health

Comments, Editorials, Opinions, Blogs, News

Publication date	Title/URL	Journal Article type	Author(s)
01.06.2020	Covid-19 and health: five expert views	ODI Blog	Emma Samman Tom Hart Fiona Samuels Carmen Leon- Himmelstine Vidya Diwakar
May 2020	Towards universal health systems in the Covid-19 era: opportunities and threats	ODI Briefing paper	Emma Samman
29.05.2020	All eyes are on local humanitarian responders during Covid-19 – now they need support	ODI Comment	John Bryant
01.06.2020	COVID-19 significantly impacts health services for noncommunicable diseases	WHO News release	
29.05.2020	The South African Response to the Pandemic	NEJM Correspondence	Salim S. Abdool Karim
29.05.2020	The right to health must guide responses to COVID-19	The Lancet Comment	Dainius Puras Judith Bueno de Mesquita Luisa Cabal Allan Maleche Benjamin Mason Meier

29.05.2020	Lockdown poses new challenges for cancer care in India	The Lancet Oncology News	Dinesh C. Sharma
29.05.2020	Poor clinical outcomes for patients with cancer during the COVID-19 pandemic	The Lancet Oncology Comment	Liang V Tang Yu Hu
27.05.2020	Tracking the genomic footprints of SARS-CoV-2 transmission	Cell Spotlight	Tommy Tsan-Yuk Lam

Dashboards & Trackers

Cases & deaths: Global	Cases & deaths: Regional	Cases & deaths: Country	Living evidence & policy maps	Current research including trials	Diagnosti cs	Treatment s	Vaccin es
WHO sitreps	WHO Africa	Ghana	COVID- NMA	WHO	FIND SARS- CoV-2 Test Tracker	Global COVID-19 Clinical Trial Tracker	CEPI
WHO dashboard	African Argumen ts	Indonesi a	EPPI Centre	WHO International Clinical Trials Registry Platform (ICTRP)	FIND SARS- CoV-2 Diagnostic s: performanc e data	US NIH registered clinical trials	Vaccine Centre LSHTM
Johns Hopkins University	Europea n 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 Governme nt Response	US NIH	Our World in Data: C19 Testing	COVID- 19 Therapeuti	

		Tracker (OxCGRT)		cs Accelerator	
Our World in Data	Singapor e	Our World in Data: C19 Policy responses	evidence		
Global 5050	UK	IFPRI COVID-19 Policy Response Portal	Cochrane		
CEBM, University of Oxford	US		Clinicaltrials.g ov		
Humanitari an Data Exchange			UKCDR		
Information is Beautiful					
LSHTM					
HealthMap (cases)					
The Commons Project					

C19 Resource Hubs

Global	Regional & Country	Academi c journals & Publisher s	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 communicati on	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	Cambrid ge Universit y Press	ODI	SLH: Handwashi ng in low resource settings	Coregrou p 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	Cochran e	Center for Global Development		Social Developm ent 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 Governme nt	The Lancet	Oxford Centre for Evidence-based Medicine	
UNICEF		medRxiv and bioRxiv (Preprint s)	HEART	
UNESCO		NEJM	UKRI	
UN WFP		Oxford Universit y 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 (Preprint s)		
Reliefweb		Wiley		

Humanitarian OpenStreetM ap 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
16.06.2020	Africa beyond COVID- 19	Virtual event	1h 30 hours	ODI
15.06.2020	Poverty monitoring in the context of Covid-	Virtual event	1h 15	ODI
Available now	COVID-19: Effective Nursing in Times of Crisis	Online course	2 weeks – 2 hours per week	Johns Hopkins School of Nursing
04.06.2020 12pm ET	CGD Conversations on COVID-19 and	Event		CGD

	Development: John Nkengasong			
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
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	Online learning	Multiple self-paced course	WHO

	coronavirus disease outbreak			
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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