

# **COVID-19 Health Evidence Summary No.22**

Kerry Millington Liverpool School of Tropical Medicine (LSTM) 21 April 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 evidence.

# **COVID-19 Preparedness and Response**

# Response strategies for COVID-19 epidemics in African settings: a mathematical modelling study

Van Zandwoort, K, Jarvis, C.I. et al. | CMMID LSHTM | 19 April 2020 | Study not yet peer reviewed

https://cmmid.github.io/topics/covid19/covid-response-strategies-africa.html

Current evidence suggests large COVID-19 epidemics are expected in African settings. The health impact of COVID-19 may differ in African settings as compared to countries in Europe or China due to demographic, epidemiological, environmental and socio-economic factors. This study evaluated strategies to reduce SARS-CoV-2 burden in African countries to support decisions that balance minimising mortality, protecting health services and safeguarding livelihoods.

# Strategies combining self-isolation, moderate physical distancing and shielding likely most effective COVID-19 response for African countries

LSHTM | 21 April 2020 | News

https://www.lshtm.ac.uk/newsevents/news/2020/strategies-combining-self-isolation-moderate-physical-distancing-and-shielding

#### Can a virus undermine human rights?

Nay O | The Lancet Public Health | 20 April 2020 | Comment

https://doi.org/10.1016/S2468-2667(20)30092-X

#### **COVID-19: What Africa can learn from Africa – Community Care Centres**

Mokuwa, E.Y. et al | African Arguments | 17 April 2020 | Blog

https://africanarguments.org/2020/04/17/covid-19-what-africa-can-learn-from-africa-community-care-centres/

#### Answering the right questions for policymakers on COVID-19

Graeden et al | The Lancet Global Health | 20 April 2020 | Correspondence

https://doi.org/10.1016/S2214-109X(20)30191-1

Basic descriptive epidemiology and national or global epidemic forecasting has been key to the pandemic response but leaves many questions unanswered at smaller scales or in applied settings. This Correspondence provides a Panel of key questions that frontline decision makers need to be able to address to respond and that can be addressed by currently available data or models. Although the questions are focused on the current needs in the USA, informed by what authors have been asked by the state and local response in the last two weeks, the same core challenges are being faced wherever there is an outbreak of COVID-19.

#### Other healthcare commitments

#### Tailoring malaria interventions in COVID-19 response

WHO | 3 April 2020 | Report

https://www.who.int/malaria/publications/atoz/tailoring-malaria-interventions-in-the-covid-19-response/en/

# WHO/UNICEF joint statement – maintaining routine immunization services vital during the COVID-19 pandemic

WHO/UNICEF | 20 April 2020 | Joint WHO and UNICEF statement to mark European Immunization Week 2020

http://www.euro.who.int/en/media-centre/events/events/2020/04/european-immunization-week-2020/statements/whounicef-joint-statement-maintaining-routine-immunization-services-vital-during-the-covid-19-pandemic

#### Social Sciences

#### Using graphics to cut through Covid's complexity

Marquette, H | Oxfam | 21 April 2020 | Blog

https://oxfamblogs.org/fp2p/using-graphics-to-explain-covids-complexity/

#### Centring sexual and reproductive health and justice in the global COVID-19 response

Stidham Hall et al. | The Lancet | 11 April 2020 | Comment

https://doi.org/10.1016/S0140-6736(20)30801-1

## **Research and Development**

Safety and immunogenicity of a candidate Middle East respiratory syndrome coronavirus viral-vectored vaccine: a dose-escalation, open-label, non-randomised uncontrolled phase 1 trial

Folegatti et al | The Lancet Infectious Diseases | 20 April 2020 | Article

https://doi.org/10.1016/S1473-3099(20)30160-2

There is currently no vaccine for human coronaviruses. This first-in-human clinical trial identified the ChAdOx1 MERS vaccine as safe and well tolerated at all tested doses. A single does was able to elicit both humoral and cellular responses against MERS-CoV. These results support progression into field phase 1b and 2 trials.

Safety and immunogenicity of a modified vaccinia virus Ankara vector vaccine candidate for Middle East respiratory syndrome: an open-label, phase 1 trial

Koch, T Dahlke, C et al | The Lancet Infectious Diseases | 20 April 2020 | Article

https://doi.org/10.1016/S1473-3099(20)30248-6

This phase 1 clinical trial identified the MVA-MERS-S vaccine as safe with homologous prime-boost immunisation inducing both humoral and cellular responses against MERS-CoV. A dose-effect relationship was observed for reactogenicity, but not for vaccine-induced immune responses. These results support progression into the next stage of trials.

# **Economic impact**

The impact of COVID-19 on global poverty: Why sub-Saharan Africa might be the region hardest hit

Mahler, DG et al | World Bank | 20 April 2020 | Blog

https://blogs.worldbank.org/opendata/impact-covid-19-coronavirus-global-poverty-why-sub-saharan-africa-might-be-region-hardest

## Online learning and events

CGD conversations on COVID-19 and development: Mark Lowcock

Tuesday 28 April 2020 1200 ET

#### https://www.cgdev.org/event/cgd-conversations-covid-19-and-development-mark-lowcock

Under-Secretary General for Humanitarian Affairs and Emergency Relief Coordinator, Mark Lowcock, joins CDG President Masood Ahmed to discuss the impacts of the COVID-19 pandemic in fragile states and refugee communities.

# Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control

WHO | Free | 3 hours duration

#### https://openwho.org/courses/introduction-to-ncov

A general introduction to enable you to describe the fundamental principles of emerging respiratory viruses, including novel coronaviruses, and how to effectively respond to an outbreak. Intended for public health professionals, incident managers and personnel working for the UN, international organisations and NGOs.

#### Responding to COVID-19: Real-time training for the coronavirus disease outbreak

WHO | Available now | multiple self-paced courses

https://openwho.org/channels/covid-19

Note that courses are available in English and other languages including French, Portuguese and Spanish.

#### **COVID-19: Tackling the Novel Coronavirus**

LSHTM | FutureLearn course | Starts 25 May 2020 | 3 weeks | 4 hours weekly study | Free

#### https://www.futurelearn.com/courses/covid19-novel-coronavirus

Unfacilitated access to this course remains. An updated version of this course will though be run from 25 May 2020. On this course you will learn what is known about the outbreak of COVID-19 (week 1); what the practical implications for responding to COVID-19 are (week 2); and what we need to find out about COVID-19 (week 3).

#### **COVID-19 Diagnostics and Testing**

FIND, LSHTM & ASLM | FutureLearn course | Starts 20 April 2020 | 3 weeks | 3 hours weekly study | Free

#### https://www.futurelearn.com/courses/covid-19-diagnostics-and-testing

This course is designed for professionals involved in the testing and diagnosis of COVID-19, with a focus on low- and middle-income settings. You will learn the latest recommendations on COVID-19 testing, get upt0date information on the performance of tests and how best to deploy them.

#### **COVID-19 Critical Care: Understanding and Application**

University of Edinburgh & Royal College of Physicians of Edinburgh | FutureLearn course | Starts 6 April 2020 | 5 weeks | 1 hour weekly study | Free

https://www.futurelearn.com/courses/covid-19-critical-care-education-resource

Designed for frontline clinical staff to learn the principles and practice of critical care to treat and care for critically ill patients during the COVID-19 pandemic. You will learn (1) how to apply the current and evolving principles of PPE in the care of COVID-19; (2) apply evidence-based principles of advanced organ support and monitoring to the COVID-19 critically ill patients; (3) apply evidence-based daily practices to care of the critically ill patient; and (4) develop a range of specialised self-caring practices.

Note that this resource has been created in response to the COVID-19 emergency and does not correspond to the classic structure of a FutureLearn course. You do not have to follow the week by week approach and can select the materials most relevant to your work.

# **Tracking Dashboards**

Global WHO sitreps

WHO dashboard

Johns Hopkins University

FIND SARS-CoV-2 Test Tracker

WEF

Vaccine Centre LSHTM

Our World in Data

Global 5050

Humanitarian Data Exchange

Information is Beautiful The Commons Project

Regional WHO Africa

African Arguments

European CDC

Country Ghana

Indonesia Sierra Leone Singapore

UK US

## **Guidelines**

Global WHO

**IASC** 

Regional Africa CDC
Country Nigeria CDC

**UK Government** 

UK ONS NICE UK US CDC

#### **Resource Hubs**

Multilaterals WHO

WHO risk communication

WHO Q&A

WHO Global research

COVID-19 Solidarity Response Fund

UN

UN Women UNOCHA UNHCR UNICEF UNESCO UN WFP World Bank

Regional & Country

Africa CDC African Union

Academic journals The Lancet

NEJM Elsevier BMJ Cell PLoS

Cochrane reviews

Global Health Institutes LSTM

**LSHTM** 

Johns Hopkins University

ICL MRC Centre for Global Infectious Disease Analysis

ODI

Norwegian Institute of Public Health Rings HSG Resyst Reach Wellcome

Clinical trials US NIH registered clinical trials

Funding bodies UKRI

Wellcome

Demographics WorldPop

Global Impact Surveys Premise COVID-19 Global Impact Study

**Ethics** 

GeoPoll: SSA

TB Stop TB Partnership

Disability IDA

Disability and inclusion

Coregroup IDDC

SDGs Global Partnership for Sustainable Development Data

Humanitarian Reliefweb

Humanitarian OpenStreetMap Team

**SSHAP** 

Narratives David Nabarro, WHO DG Special Envoy on COVID-19

## Suggested citation

Millington, K.A. (2020). *COVID-19 Health Evidence Summary No.22.* K4D Evidence Summary. Brighton, UK: Institute of Development Studies.

## **About this report**

This daily COVID-19 health evidence summary is based on 3 hours of desk-based research. 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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