



# COVID-19

## Health Evidence Summary No.47

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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.*

### Epidemiology and modelling

| Publication date | Title/URL   | Journal/Article type                            | Summary  |
|------------------|---|---|--|
| 26.05.20         | Susceptibility to and transmission of COVID-19 amongst children and adolescents compared with adults: a systematic review and meta-analysis | medRxiv (non-peer reviewed) / Systematic review | Children and adolescents under the age of 20 are much less likely than adults to become infected by the new coronavirus, finds a large systematic review of journal articles, preprints and reports. |

## Social Science

| Publication date | Title/URL  | Journal/Article type                            | Summary   |
|------------------|--|---|---|
| 26.05.20         | Digital Health Equity and COVID-19 – The Innovation Curve Cannot Reinforce the Social Gradient of Health | Journal of Medical Internet Research   preprint | <ul style="list-style-type: none"> <li>• Poverty, lack of access to digital health, poor engagement with digital health for some communities, and barriers to digital health literacy are some factors that can contribute to poor health outcomes.</li> <li>• Here the Digital Health Equity Framework is presented, which can be used to consider health equity factors. Along with person-centered care, digital health equity should be incorporated into health provider training and should be championed at the individual, institutional, and social levels.</li> </ul> |

## Comments, Editorials, Opinions, Blogs, News

| Publication date | Title/URL   | Journal   Article type                            | Author(s)           |
|------------------|---|---|---------------------|
| 26.05.20         | Will the Pandemic Lead to Outbreaks of Other Maladies?  | New York Times   Opinion                          | Anita Shet          |
| 26.05.20         | Digital contact tracing poses ethical challenges  | John Hopkins University Q&A                       | Jeffrey Kahn        |
| 23.05.20         | COVID-19: Exposing digital poverty in a pandemic  | International Journal of Surgery   Correspondence | Matthew Seah        |
| 22.05.20         | India's medical students and residents grapple with uncertain futures in the face of covid-19       | BMJ   Opinion                                     | Payel Biswas        |
| 26.05.20         | Physician Moms Group: the support network that's needed more than ever during the covid-19 pandemic | BMJ   Feature                                     | Chris Stokel-Walker |

|           |  |                                       |  |
|-----------|--|---------------------------------------|--|
| 25.05.20  | COVID-19 preparedness in Malawi: a national facility-based critical care assessment  | Lancet Global Health   Correspondence | Paul D Sonenthal et al.  |
| June 2020 | A call for a global COVID-19 Neuro Research Coalition                                | Lancet Neurology   Correspondence     | Andrea Sylvia Winkler et al.   |
| 26.05.20  | Scientific networks are helping African countries to access coronavirus lab supplies | Nature   News                         | Linda Nordling   |
| 26.05.20  | Hunger could double in East Africa and the Horn in months as coronavirus spreads     | Scaling up Nutrition/ WFP             |  |
| 27.05.20  | Africa: Women and Children Will Pay For This Pandemic – Unless We Act                | All Africa   News                     | By H.E. Kersti Kaljulaid, Rt Hon. Helen Clark, H.E. Jorge Alcocer Varela, and Hon. Graça Machel, |

## Guidelines, Statements & Tools

| Publication Date | Title/URL   | Source                         | Summary   |
|------------------|---|--------------------------------|---|
| 26.05.20         | Digital Contact Tracing for Pandemic Response: Ethics and Governance Guidance | Johns Hopkins University Press | <ul style="list-style-type: none"> <li>Detailed guidelines to help manage the creation, implementation, and application of digital contact tracing.</li> </ul>  |
| 22.05.20         | Covid-19 Rx: Treatment Simulations  | NEJM                           | <ul style="list-style-type: none"> <li>The spectrum of Covid-19 presentations ranges from mild self-limited flu-like illness to life-threatening multi-organ failure. Prepare by engaging in these five treatment simulations from NEJM Group.</li> </ul> |
| 26.05.20         | WHO Manifesto for a healthy   | WHO                            | 1) Protect and preserve the source of human health: Nature  |

|  |                        |  |  |
|--|------------------------|--|--|
|  | recovery from COVID-19 |  | <p>2) Invest in essential services, from water and sanitation to clean energy in healthcare facilities.</p> <p>3) Ensure a quick healthy energy transition.</p> <p>4) Promote healthy, sustainable food systems.</p> <p>5) Build healthy, liveable cities.</p> <p>6) Stop using taxpayers money to fund pollution.</p> |
|--|------------------------|--|--|

## Dashboards & Trackers

| Cases & deaths: Global   | Cases & deaths: Regional | Cases & deaths: Country | Living evidence & policy maps        | Current research including trials                           | Diagnosics   | 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 Diagnostic tests: 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 C19 Government Response Tracker (OxCGRT) | US NIH             | Our World in Data: C19 Testing | COVID-19 Therapeutics Accelerator |  |
| Our World in Data          |  | Singapore    | Our World in Data: C19 Policy responses         | COVID-evidence     |                                |                                   |  |
| Global 5050                |  | UK           | IFPRI COVID-19 Policy Response Portal           | 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 | Institutes/Centres/Funders/Others                     | 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                                |  | 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                |  |  |  |  |  |

## Online learning & events

| Date                                     | Title/URL   | Online learning/event | Duration                   | Lead                            |
|--|---|-----------------------|----------------------------|---------------------------------|
| May 28<br>09:30 am to<br>11:00 am<br>EDT | Virtual Event - No backsliding: How can we re-orient food systems and health systems to protect nutrition and healthy diets in the context of COVID-19? | Virtual event         | 1.5 hours                  | IFPRI                           |
| 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<br>12pm ET   | <a href="#">CGD Conversations on COVID-19 and Development: John Nkengasong</a>  | Event           |                                | CGD   |
| Available now   | <a href="#">WHO Academy and WHO Info mobile applications</a>  | Mobile app      |                                | WHO   |
| Available now   | <a href="#">COVID-19: Pandemics, Modelling and Policy</a>   | Online learning | 2 weeks   2 hours weekly study | FutureLearn UNESCO UNITWIN Complex Systems Digital Campus/Open University |
| 11.5.2020   | <a href="#">COVID-19 Contact Tracing course</a>   | Online learning | 5 hours                        | Johns Hopkins Bloomberg School of Health                                  |
| 7-28 May 2020   | <a href="#">Virtual Evidence Weeks</a>  | 5 sessions      | 1h 30                          | International Initiative for Impact Evaluation (3ie)                      |
| Tuesdays at 1700 CEST (Geneva time) & Thursdays 0830 CEST (Geneva time) | <a href="#">COVID-19 Open online brief with Dr David Nabarro</a>  | Event           | 1h                             | 4SD   |
| 30.04.2020  | <a href="#">Professor Chris Whitty's Gresham lecture on COVID-19</a>  | Event           | 1h 20                          | Gresham College   |
| Available now   | <a href="#">Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control</a> | 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

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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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