

# Dr Arran Hamlet

POSTDOCTORAL RESEARCHER

Global Infectious Disease Analysis, School of Public Health, Imperial College London

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*Infectious disease epidemiologist and mathematical modeller with extensive experience in data analysis and statistical/mechanistic modelling to inform outbreak response and public health policy. Strong interest in work within LMIC settings and the programming of interactive tools for data analysis and decision making.*

## Qualifications

### PhD titled 'Yellow fever in South America: The role of environment and host on transmission dynamics'

Jan 2017-Jan 2020

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Project focused on understanding the epidemiology of yellow fever across South America, with a focus on Brazil, examining the roles of climate, environment and host, using a variety of statistical and mechanistic modelling techniques.
- Awarded 3 Medical Research Council (MRC) Exceptional Training Opportunity awards (total £4,589) and a MRC pump priming award (£23,000) to present results as well as teach, design and run workshops in Brazil and Colombia for Ministries of Health and Universities.
- Supervised by Dr Tini Garske and Professor Neil Ferguson, fully funded by the UK Medical Research Council.

### MSc in Epidemiology

Oct 2014-Oct 2015

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Studied a broad collection of topics before specialising in infectious disease epidemiology.
- Awarded a distinction for my dissertation project titled 'The Seasonality of Yellow Fever in Africa.'

### BSc in Biology with Psychology

Sep 2011-May 2014

QUEEN MARY UNIVERSITY OF LONDON

London, United Kingdom

- Graduated with Upper Second-class Honours (2.1).

## Employment

### Postdoctoral Researcher (Malaria)

Jan 2020-

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Involved in a variety of projects assessing the public health impact of various control measures on the burden of malaria across Africa using mechanistic transmission models.
- Assessed the impact of disruption caused by the SARS-CoV-2 pandemic on malaria control across Africa. Results published Nature Medicine as joint first author.
- Lead researcher on a piece of work assessing the potential impact of Anopheles stephensi establishment on malaria transmission in Ethiopia.

### Postdoctoral Researcher (Nigeria COVID-19 response)

Apr 2020-Dec 2020

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Lead researcher for Imperial College London's data analytics and modelling support for Nigeria.
- Conducted analysis to answer specific questions in order to provide evidence for decisions to be made by the Nigerian Presidential Task Force.
- Produced a multitude of reports as well as regular state-specific analysis that fed into NCDC, US CDC and UK Department for International Development decision making.
- A number of position papers can be found at <https://statehouse.gov.ng/covid19/2020/09/18/evidence-based-guidance-on-measures-to-curb-the-spread-of-covid-19/>.

### Postdoctoral Researcher (COVID-19 response)

Feb 2020-Dec 2020

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Provided technical support and input for numerous reports and projects, with a focus on work in Low-to-Middle-Income Countries (LMIC) and on quantifying the underascertainment of mortality.
- Seconded through the Global Outbreak Alert and Response Network to provide technical support for the WHO in Geneva Feb - Apr 2020.

### PhD in Infectious Disease Modelling

Jan 2017 - Jan 2020

IMPERIAL COLLEGE LONDON

London, United Kingdom

- PhD thesis titled 'Yellow fever in South America: The role of environment and host on transmission dynamics'

## Research Assistant

IMPERIAL COLLEGE LONDON

Oct 2015 - Dec 2016

London, United Kingdom

- Outbreak analysis and response for the 2015-2016 outbreak in Angola and the Democratic Republic of the Congo working with the World Health Organization (WHO).
- Responsible for estimating population-level vaccination coverage across Africa and the development of an open-source tool to explore this information. Currently utilised by researchers and the WHO.

## Consultancy

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### Content creator/teaching assistant

APPLIED EPI

Jan 2022 -

Online

- Responsible for creating learning materials for self directed and taught courses designed to teach Epidemiologists how to code in R

### Epidemiologist: COVID-19

WORLD HEALTH ORGANIZATION

Feb 2020 - Apr 2020

Geneva, Switzerland

- Provided technical support for the WHO in the Health Emergency Information and Risk Assessment (HIM) pillar through GOARN deployment
- Work involved exploring and quantifying mortality, transmission and country specific impacts through data analysis and visualisation in real time as the COVID-19 pandemic unfolded. Aspects of data visualisation acknowledged in <https://worldhealthorg.shinyapps.io/covid/>.
- Continued to provide adhoc support till Dec 2020.

### Epidemiologist: Yellow fever

WORLD HEALTH ORGANIZATION

Jul 2016 - Sep 2016

Geneva, Switzerland

- Commissioned to produce a report evaluating the risk of outbreaks of yellow fever across Africa as a result of ongoing transmission in Angola and the Democratic Republic of the Congo and the potential for introduction into Asia.

### Epidemiologist

OZYGEN SYSTEMS

Feb 2016 - Mar 2016

London, United Kingdom

- Hired to produce a report on numerous pathogens involved in nosocomial infection and to evaluate the applicability of ozone decontamination technology in UK healthcare settings to limit their spread.

## Teaching

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### Shortcourse co-organiser

IMPERIAL COLLEGE LONDON

Jan 2021 - Sep 2021

London, United Kingdom

- Co-organiser on the departments 'Mathematical modelling for the control of infectious diseases' short course, run since 1990 and designed to teach public health professionals about infectious disease modelling.
- Responsible for helping redesign, and restructure, the course in order to deliver it fully online in light of the ongoing COVID-19 pandemic.

### PhD Assessor

UNIVERSITY OF SÃO PAULO

Oct 2020 -

São Paulo, Brazil

- Examining progress and assisting with the research of a PhD student's project titled 'Spatio-temporal dynamics of yellow fever in Brazil'.

### MSc Dissertation Supervisor

IMPERIAL COLLEGE LONDON

May 2020 - Oct 2020

London, United Kingdom

- Designed and supervised MSc Epidemiology projects looking at the effect of forest fragmentation on yellow fever in Southern Brazil, and exploring the differences in transmission dynamics between yellow fever, dengue and Zika.

### Graduate Teaching Assistant

IMPERIAL COLLEGE LONDON

Jan 2017 - Jun 2022

London, United Kingdom

- Teaching assistant and demonstrator for numerous modules on infectious disease modelling, statistical analysis and epidemiology.

### Shortcourse Demonstrator

IMPERIAL COLLEGE LONDON

Jun 2019

Bogota, Colombia

- Demonstrator and lecturer on a course coordinated between Imperial College London, Instituto Nacional De Salud and Pontificia Universidad Javeriana Bogota which aimed to give an introduction to infectious disease modelling.

### Shortcourse Demonstrator

IMPERIAL COLLEGE LONDON

Sep 2017/Sep 2018/Sep 2019

London, United Kingdom

- Demonstrator on numerous practical exercises and lectures on data analysis and infectious disease modelling on the aforementioned departments 'Mathematical modelling for the control of infectious diseases' short course.

## Design and implementation of an online platform for teaching infectious disease modelling

Jan 2019 - Sept 2019

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Responsible for liaising between programming team and course organisers to design and translate existing practicals from Berkely Madonna to an online web interface running the Odin language.
- Highly successful implementation with the platform now being used for both future shortcourses and the MSc Epidemiology at Imperial College London.

## Funding awards

### MRC Pump Priming (£23,000)

Nov 2019

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Jointly awarded £23,000 with co-PI Natsuko Imai to run a week long training workshop in Rio de Janeiro focusing on the use of mathematical models in outbreak response and policy in July 2020.
- Course was to be run collaboratively with the Brazilian Ministry of Health and Fundação Oswaldo Cruz (Fiocruz).
- Postponed due to the COVID-19 pandemic and rescheduled for August 2022.

### MRC Exceptional Training Opportunity

Oct 2017/Aug 2018/Jun 2019

IMPERIAL COLLEGE LONDON

London, United Kingdom

- Oct 2017: Awarded £650 to travel to the WHO in Geneva, Switzerland to present my work on yellow fever and discuss with the yellow fever team how my PhD can provide support for their activities.
- Aug 2018: Awarded £2220 to travel to Rio de Janeiro and Brasilia, Brazil, and present my results on modelling yellow fever in South America at a meeting co-hosted by the Brazilian Ministry of Health and the Pan American Health Organization, as well as to set up a research collaboration with Fiocruz.
- Jun 2019: Awarded £1719 to travel to Bogota, Colombia to lecture and demonstrate on a course coordinated between Imperial College London, Instituto Nacional De Salud and Pontificia Universidad Javeriana Bogota which aimed to give an introduction to infectious disease modelling.

## Presentations

### The potential public health consequences of COVID-19 on malaria in Africa

Oct 2020

LONDON MALARIA NETWORK

London, United Kingdom

### Seasonality of agricultural exposure more important than seasonality of climate for predicting yellow fever transmission in Brazil

Nov 2019

AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE

National Harbor, United States of America

### Statistical and mathematical modelling of yellow fever in South America

Jun 2019

OUTBREAK ANALYSIS AND MODELLING FOR PUBLIC HEALTH

Bogota, Colombia

### Land-use, vegetation and habitat fragmentation as drivers of yellow fever transmission in South America

Feb 2019

INTERNATIONAL CONFERENCE ON ONE MEDICINE ONE SCIENCE

Chiang Mai, Thailand

### Yellow fever in Brazil - Modelling as a tool to inform outbreak response and public health policy

Nov 2018

YELLOW FEVER FORECASTING: EMBEDDING MODELLING IN LESSONS LEARNT EXERCISES

Brasilia, Brazil

## Publications

### FIRST AUTHOR PUBLICATIONS

#### \*A Hamlet\*, D Dengela, JE Tongren, FG Tadesse, T Bousema, M Sinka, A Seyoum, SR Irish, JS Armistead, T Churcher

BMC medicine

THE POTENTIAL IMPACT OF ANOPHELES STEPHENSI ESTABLISHMENT ON THE TRANSMISSION OF PLASMODIUM FALCIPARUM IN ETHIOPIA AND PROSPECTIVE CONTROL MEASURES

2022

#### \*A Hamlet\*, DG Ramos, KAM Gaythorpe, APM Romano, T Garske, NM Ferguson

Nature Communications

SEASONALITY OF AGRICULTURAL EXPOSURE AS AN IMPORTANT PREDICTOR OF SEASONAL YELLOW FEVER SPILLOVER IN BRAZIL

2021

#### \*A Hamlet\*, KAM Gaythorpe, T Garske, NM Ferguson

PLoS neglected tropical diseases

SEASONAL AND INTER-ANNUAL DRIVERS OF YELLOW FEVER TRANSMISSION IN SOUTH AMERICA

2021

## \*A Hamlet\*

YELLOW FEVER IN SOUTH AMERICA: THE ROLE OF ENVIRONMENT AND HOST ON TRANSMISSION DYNAMICS

Imperial College London

2020

## \*A Hamlet\*, K Jean, S Yactayo, J Benzler, L Cibrelus, N Ferguson, T Garske

POLICI: A WEB APPLICATION FOR VISUALISING AND EXTRACTING YELLOW FEVER VACCINATION COVERAGE IN AFRICA

Vaccine

2019

## \*A Hamlet\*, Kév Jean, W Perea, S Yactayo, J Biey, MV Kerkhove, N Ferguson, T Garske

THE SEASONAL INFLUENCE OF CLIMATE AND ENVIRONMENT ON YELLOW FEVER TRANSMISSION ACROSS AFRICA

PLoS neglected tropical diseases

2018

## ADDITIONAL PUBLICATIONS

## JA Polonsky, S Bhatia, K Fraser, \*A Hamlet\*, J Skarp, IJ Stopard, Sép Hugonnet, L Kaiser, C Lengeler, K Blanchet, P Spiegel

FEASIBILITY, ACCEPTABILITY, AND EFFECTIVENESS OF NON-PHARMACEUTICAL INTERVENTIONS AGAINST INFECTIOUS DISEASES

AMONG CRISIS-AFFECTED POPULATIONS: A SCOPING REVIEW

Infectious Diseases of Poverty

2022

## E Sherrard-Smith, P Winskill, \*A Hamlet\*, C Ngufor, R N’Guessan, MW Guelbeogo, A Sanou, RK Nash, A Hill, EL Russell, M Woodbridge, P Tungu, MD Kont, T Mclean, C Fornadel, JH Richardson, MJ Donnelly, SG Staedke, S Gonahasa, N Protopopoff, M Rowland, TS Churcher

OPTIMISING THE DEPLOYMENT OF VECTOR CONTROL TOOLS AGAINST MALARIA: A DATA-INFORMED MODELLING STUDY

2022

## SL Li, Aél Acosta, SC Hill, OJ Brady, MABd Almeida, JdC Cardoso, \*A Hamlet\*, LF Mucci, Jtd Deus, FCM Iani, NS Alexander, GRW Wint, OG Pybus, MUG Kraemer, NR Faria, JP Messina

MAPPING ENVIRONMENTAL SUITABILITY OF HAEMAGOGUS AND SABBETHES SPP. MOSQUITOES TO UNDERSTAND SYLVATIC

TRANSMISSION RISK OF YELLOW FEVER VIRUS IN BRAZIL

PLoS neglected tropical diseases

2022

## HA Shah, LR Carrasco, \*A Hamlet\*, KA Murray

EXPLORING AGRICULTURAL LAND-USE AND CHILDHOOD MALARIA ASSOCIATIONS IN SUB-SAHARAN AFRICA

Scientific reports

2022

## P Nouvellet, S Bhatia, A Cori, KEC Ainslie, M Baguelin, S Bhatt, A Boonyasiri, NF Brazeau, L Cattarino, LV Cooper, H Coupland, ZM Cucunuba, G Cuomo-Dannenburg, A Dighe, BA Djaafara, I Dorigatti, OD Eales, SLv Elsland, FF Nascimento, RG FitzJohn, KAM Gaythorpe, L Geidelberg, WD Green, \*A Hamlet\*, K Hauck, W Hinsley, N Imai, B Jeffrey, E Knock, DJ Laydon, JA Lees, T Mangal, TA Mellan, G Nedjati-Gilani, KV Parag, M Pons-Salort, M Ragonnet-Cronin, S Riley, HJT Unwin, R Verity, MAC Vollmer, E Volz, PGT Walker, CE Walters, H Wang, OJ Watson, C Whittaker, LK Whittles, X Xi, NM Ferguson, CA Donnelly

REDUCTION IN MOBILITY AND COVID-19 TRANSMISSION

Nature communications

2021

## AB Hogan, P Winskill, OJ Watson, PGT Walker, C Whittaker, M Baguelin, NF Brazeau, GD Charles, KAM Gaythorpe, \*A Hamlet\*, E Knock, DJ Laydon, JA Lees, A Løchen, R Verity, LK Whittles, F Muhib, K Hauck, NM Ferguson, AC Ghani

WITHIN-COUNTRY AGE-BASED PRIORITISATION, GLOBAL ALLOCATION, AND PUBLIC HEALTH IMPACT OF A VACCINE AGAINST

SARS-CoV-2: A MATHEMATICAL MODELLING ANALYSIS

Vaccine

2021

## OJ Watson, M Alhaffar, Z Mehchy, C Whittaker, Z Akil, NF Brazeau, G Cuomo-Dannenburg, \*A Hamlet\*, HA Thompson, M Baguelin, RG FitzJohn, E Knock, JA Lees, LK Whittles, T Mellan, P Winskill, N Howard, H Clapham, F Checchi, N Ferguson, A Ghani, E Beals, P Walker

LEVERAGING COMMUNITY MORTALITY INDICATORS TO INFER COVID-19 MORTALITY AND TRANSMISSION DYNAMICS IN DAMASCUS,

SYRIA

Nature communications

2021

## C Whittaker, PGT Walker, M Alhaffar, \*A Hamlet\*, BA Djaafara, A Ghani, N Ferguson, M Dahab, F Checchi, OJ Watson

UNDER-REPORTING OF DEATHS LIMITS OUR UNDERSTANDING OF TRUE BURDEN OF COVID-19

2021

## KAM Gaythorpe, \*A Hamlet\*, Kév Jean, DG Ramos, L Cibrelus, T Garske, N Ferguson

THE GLOBAL BURDEN OF YELLOW FEVER

Elife

2021

## N Raslan, \*A Hamlet\*, V Kumari

MENTAL HEALTH AND PSYCHOSOCIAL SUPPORT IN CONFLICT: CHILDREN’S PROTECTION CONCERNS AND INTERVENTION

OUTCOMES IN SYRIA

Conflict and health

2021

<p><b>H Fu, H Wang, X Xi, A Boonyasiri, Y Wang, W Hinsley, KJ Fraser, R McCabe, DO Mesa, J Skarp, A Ledda, T Dewé, A Dighe, P Winskill, SLv Elsland, KEC Ainslie, M Baguelin, S Bhatt, O Boyd, NF Brazeau, L Cattarino, G Charles, H Coupland, ZM Cucunuba, G Cuomo-Dannenburg, CA Donnelly, I Dorigatti, OD Eales, RG FitzJohn, S Flaxman, KAM Gaythorpe, AC Ghani, WD Green, *A Hamlet*, K Hauck, DJ Haw, B Jeffrey, DJ Laydon, JA Lees, T Mellan, S Mishra, G Nedjati-Gilani, P Nouvellet, L Okell, KV Parag, M Ragonnet-Cronin, S Riley, N Schmit, HA Thompson, HJT Unwin, R Verity, MAC Vollmer, E Volz, PGT Walker, CE Walters, OJ Watson, C Whittaker, LK Whittles, N Imai, S Bhatia, NM Ferguson</b></p> <p>DATABASE OF EPIDEMIC TRENDS AND CONTROL MEASURES DURING THE FIRST WAVE OF COVID-19 IN MAINLAND CHINA</p>	<p><i>International Journal of Infectious Diseases</i></p> <p>2021</p>
<p><b>E-Y Caicedo, K Charniga, A Rueda, I Dorigatti, Y Mendez, *A Hamlet*, J-P Carrera, ZM Cucunubá</b></p> <p>THE EPIDEMIOLOGY OF MAYARO VIRUS IN THE AMERICAS: A SYSTEMATIC REVIEW AND KEY PARAMETER ESTIMATES FOR OUTBREAK MODELLING</p>	<p><i>PLoS Neglected Tropical Diseases</i></p> <p>2021</p>
<p><b>Kév Jean, H Raad, KAM Gaythorpe, *A Hamlet*, JE Mueller, D Hogan, T Mengistu, HJ Whitaker, T Garske, MN Hocine</b></p> <p>ASSESSING THE IMPACT OF PREVENTIVE MASS VACCINATION CAMPAIGNS ON YELLOW FEVER OUTBREAKS IN AFRICA: A POPULATION-LEVEL SELF-CONTROLLED CASE SERIES STUDY</p>	<p><i>PLoS medicine</i></p> <p>2021</p>
<p><b>C Whittaker, OJ Watson, C Alvarez-Moreno, N Angkasekwinai, A Boonyasiri, LC Triana, D Chanda, L Charoenpong, M Chayakulkeeree, GS Cooke, J Croda, ZM Cucunubá, BA Djaafara, CF Estofotele, M-E Grillet, NR Faria, SF Costa, DA Forero-Peña, DM Gibb, AC Gordon, RL Hamers, *A Hamlet*, V Irawany, A Jitmuang, N Keurueangkul, TN Kimani, M Lampo, AS Levin, G Lopardo, R Mustafa, S Nayagam, T Ngamprasertchai, ML Nogueira, E Ortiz-Prado, MW Perroud, AN Phillips, P Promsin, A Qavi, AJ Rodger, EC Sabino, S Sangkaew, D Sari, R Sirijatuphat, AC Sposito, P Srisangthong, HA Thompson, Z Udwadia, S Valderrama-Beltrán, P Winskill, AC Ghani, PGT Walker, TB Hallett</b></p> <p>UNDERSTANDING THE POTENTIAL IMPACT OF DIFFERENT DRUG PROPERTIES ON SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-CoV-2) TRANSMISSION AND DISEASE BURDEN: A MODELLING ...</p>	<p><i>Clinical Infectious Diseases</i></p> <p>2021</p>
<p><b>NM Ferguson, D Laydon, G Nedjati-Gilani, N Imai, K Ainslie, M Baguelin, S Bhatia, A Boonyasiri, Z Cucunubá, G Cuomo-Dannenburg, A Dighe, I Dorigatti, H Fu, K Gaythorpe, W Green, *A Hamlet*, W Hinsley, LC Okell, SV Elsland, H Thompson, R Verity, E Volz, H Wang, Y Wang, PGT Walker, C Walters, P Winskill, C Whittaker, CA Donnelly, S Riley, AC Ghani</b></p> <p>IMPACT OF NON-PHARMACEUTICAL INTERVENTIONS (NPIs) TO REDUCE COVID-19 MORTALITY AND HEALTHCARE DEMAND</p>	<p><i>Imperial College COVID-</i></p> <p>2020</p>
<p><b>R Verity, LC Okell, I Dorigatti, P Winskill, C Whittaker, N Imai, G Cuomo-Dannenburg, H Thompson, PGT Walker, H Fu, A Dighe, JT Griffin, M Baguelin, S Bhatia, A Boonyasiri, A Cori, Z Cucunubá, R FitzJohn, K Gaythorpe, W Green, *A Hamlet*, W Hinsley, D Laydon, G Nedjati-Gilani, S Riley, Sv Elsland, E Volz, H Wang, Y Wang, X Xi, CA Donnelly, AC Ghani, NM Ferguson</b></p> <p>ESTIMATES OF THE SEVERITY OF CORONAVIRUS DISEASE 2019: A MODEL-BASED ANALYSIS</p>	<p><i>The Lancet infectious diseases</i></p> <p>2020</p>
<p><b>PGT Walker, C Whittaker, OJ Watson, M Baguelin, P Winskill, *A Hamlet*, BA Djafaara, Z Cucunubá, DO Mesa, W Green, H Thompson, S Nayagam, KEC Ainslie, S Bhatia, S Bhatt, A Boonyasiri, O Boyd, NF Brazeau, L Cattarino, G Cuomo-Dannenburg, A Dighe, CA Donnelly, I Dorigatti, SLV Elsland, R FitzJohn, H Fu, KAM Gaythorpe, L Geidelberg, N Grassly, D Haw, S Hayes, W Hinsley, N Imai, D Jorgensen, E Knock, D Laydon, S Mishra, G Nedjati-Gilani, LC Okell, HJ Unwin, R Verity, M Vollmer, CE Walters, H Wang, Y Wang, X Xi, DG Lalloo, NM Ferguson, AC Ghani</b></p> <p>THE IMPACT OF COVID-19 AND STRATEGIES FOR MITIGATION AND SUPPRESSION IN LOW-AND MIDDLE-INCOME COUNTRIES</p>	<p><i>Science</i></p> <p>2020</p>

**AB Hogan, BL Jewell, E Sherrard-Smith, JF Vesga, OJ Watson, C Whittaker, \*A Hamlet\*, JA Smith, P Winskill, R Verity, M Baguelin, JA Lees, LK Whittles, KEC Ainslie, S Bhatt, A Boonyasiri, NF Brazeau, L Cattarino, LV Cooper, H Coupland, G Cuomo-Dannenburg, A Dighe, BA Djaafara, CA Donnelly, JW Eaton, SLv Elsland, RG FitzJohn, H Fu, KAM Gaythorpe, W Green, DJ Haw, S Hayes, W Hinsley, N Imai, DJ Laydon, TD Mangal, TA Mellan, S Mishra, G Nedjati-Gilani, KV Parag, HA Thompson, HJT Unwin, MAC Vollmer, CE Walters, H Wang, Y Wang, X Xi, NM Ferguson, LC Okell, TS Churcher, N Arinaminpathy, AC Ghani, PGT Walker, TB Hallett**

POTENTIAL IMPACT OF THE COVID-19 PANDEMIC ON HIV, TUBERCULOSIS, AND MALARIA IN LOW-INCOME AND MIDDLE-INCOME COUNTRIES: A MODELLING STUDY

2020

*The Lancet Global Health*

**NM Ferguson, D Laydon, G Nedjati-Gilani, N Imai, K Ainslie, M Baguelin, S Bhatia, A Boonyasiri, Z Cucunubá, G Cuomo-Dannenburg, A Dighe, I Dorigatti, H Fu, K Gaythorpe, W Green, \*A Hamlet\*, W Hinsley, LC Okell, Sv Elsland**

IMPACT OF NON-PHARMACEUTICAL INTERVENTIONS (NPIS) TO REDUCE COVID-19 MORTALITY AND HEALTHCARE DEMAND. IMPERIAL COLLEGE COVID-19 RESPONSE TEAM

2020

*Imperial College COVID-*

**NC Grassly, M Pons-Salort, EPK Parker, PJ White, NM Ferguson, K Ainslie, M Baguelin, S Bhatt, A Boonyasiri, N Brazeau, L Cattarino, H Coupland, Z Cucunuba, G Cuomo-Dannenburg, A Dighe, C Donnelly, SLv Elsland, R FitzJohn, S Flaxman, K Fraser, K Gaythorpe, W Green, \*A Hamlet\*, W Hinsley, N Imai, E Knock, D Laydon, T Mellan, S Mishra, G Nedjati-Gilani, P Nouvellet, L Okell, M Ragonnet-Cronin, HA Thompson, HJT Unwin, M Vollmer, E Volz, C Walters, Y Wang, OJ Watson, C Whittaker, L Whittles, X Xi**

COMPARISON OF MOLECULAR TESTING STRATEGIES FOR COVID-19 CONTROL: A MATHEMATICAL MODELLING STUDY

2020

*The Lancet Infectious Diseases*

**E Sherrard-Smith, AB Hogan, \*A Hamlet\*, OJ Watson, C Whittaker, P Winskill, F Ali, AB Mohammad, P Uhomoibhi, I Maikore, N Ogbulafor, J Nikau, MD Kont, JD Challenger, R Verity, B Lambert, M Cairns, B Rao, M Baguelin, LK Whittles, JA Lees, S Bhatia, ES Knock, L Okell, HC Slater, AC Ghani, PGT Walker, OO Okoko, TS Churcher**

THE POTENTIAL PUBLIC HEALTH CONSEQUENCES OF COVID-19 ON MALARIA IN AFRICA

2020

*Nature medicine*

**KEC Ainslie, CE Walters, H Fu, S Bhatia, H Wang, X Xi, M Baguelin, S Bhatt, A Boonyasiri, O Boyd, L Cattarino, C Ciavarella, Z Cucunuba, G Cuomo-Dannenburg, A Dighe, I Dorigatti, SLv Elsland, R FitzJohn, K Gaythorpe, AC Ghani, W Green, \*A Hamlet\*, W Hinsley, N Imai, D Jorgensen, E Knock, D Laydon, G Nedjati-Gilani, LC Okell, I Siveroni, HA Thompson, HJT Unwin, R Verity, M Vollmer, PGT Walker, Y Wang, OJ Watson, C Whittaker, P Winskill, CA Donnelly, NM Ferguson, S Riley**

EVIDENCE OF INITIAL SUCCESS FOR CHINA EXITING COVID-19 SOCIAL DISTANCING POLICY AFTER ACHIEVING CONTAINMENT

2020

*Wellcome Open Research*

**I Dorigatti, L Okell, A Cori, N Imai, M Baguelin, S Bhatia, A Boonyasiri, Z Cucunubá, G Cuomo-Dannenburg, R FitzJohn, H Fu, K Gaythorpe, \*A Hamlet\*, W Hinsley, N Hong, M Kwun, D Laydon, G Nedjati-Gilani, S Riley, Sv Elsland, E Volz, H Wang, R Wang, C Walters, X Xi, CA Donnelly, A Ghani, N Ferguson**

REPORT 4: SEVERITY OF 2019-NOVEL CORONAVIRUS (nCoV)

2020

*Imperial College London, London*

**R Verity, LC Okell, I Dorigatti, P Winskill, C Whittaker, N Imai, G Cuomo-Dannenburg, H Thompson, PGT Walker, H Fu, A Dighe, JT Griffin, M Baguelin, S Bhatia, A Boonyasiri, A Cori, Z Cucunubá, R FitzJohn, K Gaythorpe, W Green, \*A Hamlet\*, W Hinsley, D Laydon, G Nedjati-Gilani, S Riley, SV Elsland, E Volz, H Wang, Y Wang**

XIAOYUE XI, CHRISTL A. DONNELLY, AZRA C. GHANI, AND NEIL M. FERGUSON. ESTIMATES OF THE SEVERITY OF CORONAVIRUS DISEASE 2019: A MODEL-BASED ANALYSIS

2020

*The Lancet infectious diseases*

**E Volz, M Baguelin, S Bhatia, A Boonyasiri, A Cori, Z Cucunubá, G Cuomo-Dannenburg, CA Donnelly, I Dorigatti, R FitzJohn, H Fu, K Gaythorpe, A Ghani, \*A Hamlet\*, W Hinsley, N Imai, D Laydon, G Nedjati-Gilani, L Okell, S Riley, SV Elsland, H Wang, Y Wang, X Xi, NM Ferguson**

REPORT 5: PHYLOGENETIC ANALYSIS OF SARS-CoV-2

2020

*MRC Cent. Glob. Infect. Dis. Anal*

**KAM Gaythorpe, \*A Hamlet\*, L Cibrelus, T Garske, NM Ferguson**

THE EFFECT OF CLIMATE CHANGE ON YELLOW FEVER DISEASE BURDEN IN AFRICA

2020

*Elife*

**S Bhatia, N Imai, G Cuomo-Dannenburg, M Baguelin, A Boonyasiri, A Cori, Z Cucunubá, I Dorigatti, R FitzJohn, H Fu, K Gaythorpe, A Ghani, \*A Hamlet\*, W Hinsley, D Laydon, G Nedjati-Gilani, L Okell, S Riley, H Thompson, Sv Elsland, E Volz, H Wang, Y Wang, C Whittaker, X Xi, CA Donnelly, NM Ferguson**

REPORT 6: RELATIVE SENSITIVITY OF INTERNATIONAL SURVEILLANCE

*Imperial College London COVID-*

2020

**Kév Jean, \*A Hamlet\*, J Benzler, L Cibrelus, KAM Gaythorpe, A Sall, NM Ferguson, T Garske**

ELIMINATING YELLOW FEVER EPIDEMICS IN AFRICA: VACCINE DEMAND FORECAST AND IMPACT MODELLING

*PLoS neglected tropical diseases*

2020

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