



MRC Centre for
Global Infectious
Disease Analysis

IMPERIAL

The Pathogen Epidemiology Review Group (PERG): round up of 2024

Ruth McCabe

MRC Centre for Global Infectious Disease Analysis

WHO Collaborating Centre for Infectious Disease modelling

*School of Public Health
Imperial College London*

*Scan for
more info on
PERG:*




→ PERG and epireview



MRC Centre for
Global Infectious
Disease Analysis

IMPERIAL

Systematic review of peer-reviewed literature on outbreaks, models & parameters

Marburg virus disease ✓	Ebola virus disease ✓	Lassa fever ✓
SARS ✓	Zika 	Nipah and henipaviral diseases
Rift Valley Fever	Crimean-Congo haemorrhagic fever	Middle East respiratory syndrome coronavirus

Marburg: Cuomo-Dannenburg et al. Lancet ID 2024
Ebola: Nash et al. Lancet ID 2024
Lassa: Doohan et al. Lancet GH 2024
SARS: Morgenstern et al. MedRxiv 2024
Prospero registration number: 393345

R package – epireview

To store the information in a “live” database



<https://github.com/mrc-ide/epireview>

A busy year!



MRC Centre for
Global Infectious
Disease Analysis

IMPERIAL



We extracted more than **1800** parameters; **330** models; and **150** outbreaks from the literature



We published **3** papers (Marburg, Ebola, Lassa) and **1** preprint (SARS)



We developed our R package **epireview** and are working towards a CRAN release



We are piloting a **new extraction tool** to facilitate real-time updating of our databases



Expanding our work to respond to **real-time** emerging threats



A busy year!



MRC Centre for
Global Infectious
Disease Analysis

IMPERIAL



We strengthened our external collaborations, particularly with the WHO; epiverse-TRACE at LSHTM; and with PHAC



*IDM
conference,
Bangkok,
November
2024*



*Workshop,
WHO Berlin
Hub, May
2024*



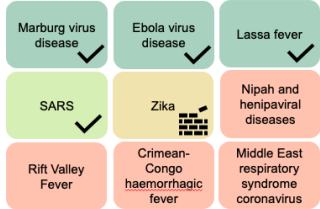
*Hackathon,
London,
July 2024*

Looking forward to 2025



MRC Centre for
Global Infectious
Disease Analysis

IMPERIAL



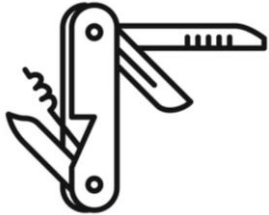
Continuing our reviews...



Expect preprints on Zika and Oropouche in the first quarter of 2025



Beginning Nipah extractions in early January



Enhancing practical usability

- Internal & interfacing with other tools



Parameter reporting guidance with epiverse-TRACE team

- Working hard to have preprint in early 2025



Sustainability issues

- Resources (financial & human)
- Recognition of contributions



Strengthening our collaborations

- Continue to work with our partners



Moving towards a live resource

- Managing new additions & links with GREP

Aaron Morris	David Jorgensen	Kelly McCain	Richard Sheppard
Alpha Forna	Dominic Dee	Kieran Drake	Rob Johnson
Amy Dighe	Ed Knock	Lily Geidelberg	Ruth McCabe
Anna Vicco	Ettie Unwin	Lorenzo Cattarino	Sabine van Elsland
Anna-Maria Hartner	Gina Cuomo-Dannenburg	Mantra Kusumgar	Sangeeta Bhatia
Anne Cori	Hayley Thompson	Mara Kont	Sequoia Leuba
Arran Hamlet	Ilaria Dorigatti	Marc Baguelin	Shazia Ruybal-Pesántez
Ben Lambert	Isobel Routledge	Natsuko Imai-Eaton	Sreejith Radhakrishnan
Bethan Cracknell Daniels	Jack Wardle	Pablo Perez Guzman	Thomas Rawson
Charlie Whittaker	Janetta Skarp	Patrick Doohan	Tristan Naidoo
Christian Morgenstern	Joseph Hicks	Paul Lietar	Zulma Cucunuba Perez
Cosmo Santoni	Kanchan Parchani	Paula Christen	
Cyril Geismar	Keith Fraser	Rebecca Nash	
Dariya Nikitin	Kelly Charniga	Rich Fitzjohn	