Measuring the impact of Ebola Control Measures

Modelling Ebola in West Africa:
London School of Hygiene and Tropical Medicine

Programme Name:
Modelling Ebola in West Africa

Key information
Grant awarded: £258,922
Lead organisation:
London School of Hygiene and Tropical Medicine
Partnering organisation(s):
Médecins Sans Frontières (MSF); Save The Children; World Health Organization (WHO)
Project length: Nov-14 to Nov-15
Health sector: Modelling
Study location: UK

Principal Investigator(s)
Professor John Edmunds

Purpose
This project intended to fit mathematical and statistical models to the epidemiological and clinical data that are collected and collated by partner agencies. It tracks the changes in the epidemiology; analyses the impact of different countermeasures; and estimates the impact of different approaches to treat patients and control the epidemic.

Expected outcomes
The project will help characterise the transmission dynamics of EVD, project the future course of the epidemic, and estimate the impact of alternative control policies. These models will be adapted to emerging data and to address new public health questions as they arise.

Progress and outcomes achieved (last updated April 2015)
Dissemination is taking place on http://cmmid.lshtm.ac.uk/research/ebola/ and is updated weekly according to local sitreps from the 3 countries. This has been taking place since November 2014 and shows the number of cases on interactive maps, graphs reproduction rate, and depicts projected outcomes, impact of number of beds etc. This is broken down by region and reports are sent weekly to MSF, SCUK, WHO, and the Cabinet Office for COBRA meetings. The responses to this data and interpretation are very positive and are clearly having an impact for decision makers.

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