Reviewer’s report

Title: Pandemics, public health emergencies and antimicrobial resistance - putting the threat in an epidemiologic and risk analysis context

Version: 0 Date: 02 Jul 2017

Reviewer: I Noguer

Reviewer's report:

I have very much enjoyed reading this paper. It is clearly exposed and present a feasible and systematic approach regarding AMR in different scenarios.

The manuscript assume the fact that AMR is an endemic condition, which is true since it is a worldwide condition and acts as a risk factor in local and regional epidemics or pandemics when there are drugs to tackle them.

Feasibility of different scenarios described is clear and the formula provided can work worldwide. However Regions have different context in health care availability, access and quality. For that reason I suggest authors to include some comments especially regarding overall quality of care, since AMR impact also strongly depends on quality of health care provided. I would like to mention the context of TB (DOT context and other issues).

Besides, there are other conditions also acting as risk factors and generating even more complicated epidemic scenarios, one example is the legal framework to Access and obtain Antimicrobial drugs (free Access in pharmacies or other facilities). For all these reasons I would suggest authors to attribute a wide range of values for AMR depending on contexts, since there are different factor influencing from regional to local context.

Finally, I would recommend to go over references, since there is some ones partially included (Ex: Ref 3; Severe influenza and S. aureus pneumonia: for whom the bell tolls?, etc...)

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Acceptable
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