Reviewer’s report

Title: Antibiotic resistance detection is essential for gonorrhoea point-of-care testing: A mathematical modelling study

Version: 1 Date: 11 May 2017

Reviewer: Jeffrey Klausner

Reviewer's report:

The authors have done an excellent job addressing reviewers' concerns.

1. Please revise lines 285-288. That sentence is not clear. POCs with no/low sensitivity accelerate spread, compared with NAAT.

But then authors say POC with 80-95% sensitivity, accelerate spread compared with culture. Is 80-95% "moderate" sensitivity.

Please have Dr. Low review and edit that paragraph for clarity.

2. Please more fully address the limitations of the models, reliance on assumptions and need for further validation.

The authors fail to acknowledge the inherent weaknesses in modeling.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
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Yes

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Please indicate the quality of language in the manuscript:

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