Reviewer’s report

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

Version: 0 Date: 31 Mar 2017

Reviewer: David Fisman

Reviewer's report:

This is just an excellent paper. Clearly written, commonsensical, nice figures. I had questions as I went but found answers in the supplementary materials.

2 minor points:

1. It would have been nice to see some graphics showing the best-calibrated model vs. the Australian prevalence data they calibrated against. I may have misunderstood this but seems like model calibration ignored resistance which was then added to the model with the best fit parameters? Sorry if I've missed something here.

2. If I understand correctly it seems like culture is reserved for re-visits but POC are used on first visit? Could a realistic strategy be universal use of culture tests? How would that change the relative attractiveness of test strategies.

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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