Reviewer's report

Title: Analysis on Porin I genotype diversities and correlation of gene mutations and drug resistance in Neisseria gonorrhoeae isolates in Eastern China

Version: 1 Date: 1 March 2010

Reviewer: Jason Folster

Reviewer's report:

The authors of this work characterized porA and porB mutations in N. gonorrhoeae and determined their role in antimicrobial resistance.

Minor essential revisions.
1. the lack of line numbers makes reviewing more difficult.
2. the use of pIA and pIB as gene names is confusing, please change to porA and porB for the genes and PIA and PIB for the protein.
3. Is the duplex PCR necessary? The single PCR produces two different sized amplicons which could be used to differentiate between porA and porB.
4. please change "strains" to "isolates"
5. page 4, line 9, PIA and PIB are
6. page 4, line 10, change "anyone" to "any particular"
7. page 4, line 18, antimicrobials
8. page 5, line 5, "in the clinical setting"
9. page 5, line 20, what is well-grown? overnight culture?
10. page 6, line 4, "reverse" primers
11. page 6, line 13, remove "more accurate"
12. page 6, lines 13-19, please re-word, cloning kit not used for sequencing.
13. page 7, line 1, remove italics on DNA concentration
14. Are the primers for producing porA and porB for sequencing internal? Could the authors be missing mutations that occur within the primed sequence?
15. page 9, line 9, did the authors mean "PIA"
16. page 10, lines 1-3, what is the wild-type MIC value for pen and tet?
17. page 17, lines 10-13, what is considered resistant?
18. page 18, lines 4-6, please reword

Figure legends, I would use "amplicon" in place of "segments"

Figure 3, the alignment is uneven and the numbers on the left are confusing. Could you use group A, B, C, etc or n=# of isolates in each group?

Level of interest: An article whose findings are important to those with closely
related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.