Reviewer's report

Title: Nationwide high prevalence of CTX-M type extended-spectrum beta-lactamases and an increase of CTX-M-55 in Escherichia coli isolated from patients with community-onset infections in Chinese county hospitals

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Reviewer: Mohamed Al-Agamy

Reviewer's report:

I have read the manuscript "Nationwide high prevalence of CTX-M type extended-spectrum beta-lactamases and an increase of CTX-M-55 in Escherichia coli isolated from patients with community-onset infections in Chinese county hospitals". It is based on a clear research study, well designed, and good written. The present study gives the new finding of ESBL and AmpC in China and worldwide too.

However there are few things to be considered:

1. The title is long. Try to short it. Delete extended-spectrum beta-lactamases from title.
3. 550 E. coli isolates were recovered during 13 month from 13 county hospitals, from 11 provinces. I think 550 isolates are few to isolate them in 13 month. About 42 isolates/month and 3.25 isolate/hospital.
4. Are the isolates consecutive or non?
5. Collection of clinical isolates is long (page 5-6). Try to reduce it.
6. The number of isolates is not mentioned in material and method.
7. Double disc diffusion method for detection of ESBL is not written in Material and Methods. Also phenotic detection of AmpC is not done.
8. Why are 550 tested for ESBL and AmpC by PCR?
9. Why did you test CMY-1, CMY-2 and DHA only? There are many ApmC genes must be tested.
10. KPC is mentioned in table 1 but it is not tested by PCR in material and methods.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.
Declaration of competing interests:

None