Reviewer’s report

Title: Empiric antibiotic therapy in urinary tract infection in patients with risk factors for antibiotic resistance in a German emergency department.

Version: 0 Date: 23 Aug 2017

Reviewer: E Castagnola

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Authors adress the problem of urinary tract infections (uti) in adults due to resistant pathogens and their initial empirical therapy. The topic is of interest, but I have some question to rise

1. why aminoglycosides are not included in the antibiotic panel analyzed? they concentrate in urins and therefore could be useful in these patients. is this choice due to patient's age or underlying conditions? if yes please specify but if it is possible put the data at least on a chart

2. "indwelling catheter" is urinary or central venous? please specify

3. lines 122-125 reports quite in detail data from tables. please avoid this repetition. i will put in the text, for example, only the factors common to all antibiotics or a comment for the absence of any of these factors, avoiding a phrase that is quite difficult to read

4. the same for lines 135-136: data are in the table and do not need repetition. please put only a short "summary"

5. the logistic regression model described in lines 143-145 is based on very few patients (at least in my opinion) and therefore these results could be not correct

6. I will prefer that the therapeutic algorithm would be presented as a figure and not a text, while I do not think that the figures are useful, at least in the present for that is very difficult to be read

7. I do not see major reasons to prefer pip-tazo to ceftazidime considering the proportions of resistant strains... this could be changed also in the title "choice of the better empirical therapy for..." without mentioning the type of drug

8. it is a pity that during a 2y and 6 m study only 130 uti (28% of observed cases) were available for analysis...this reduces the power of the study

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

No
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?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

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Please indicate the quality of language in the manuscript:

Acceptable

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