Reviewer's report

Title: Risk factors for multidrug resistance not included in the definition of healthcare-associated infection and their impact on antibiotic therapy and hospital outcome

Version: 1 Date: 7 September 2012

Reviewer: Peter Wilson

Reviewer's report:

Major
This study is descriptive and it should be clear where data could not be found. This was prospective recruitment. Do the authors really mean there was no missing data at all as stated in the discussion?
On p7 the definition of multiresistance in acinetobacter is not clear - do the authors mean one of the listed antibiotics?
p10 How many were assessed and did not fit the inclusion criteria?
p11 There was no difference in mortality - yet the rate of inadequate antibiotic therapy was affected. Please explain why..
Having derived a risk model this needs to be tested on a new cohort of patients - is it predictive?

Minor essential revisions
There are several spelling and grammatical errors
p3L1 restrictive to restricted, focus should be types, L10 pneumoniae
p5L6 performed
p5L9 greater prevalence
p7L6 Acinetobacter
p8L18 immunosuppression
p10L7 immunosuppressed
p13L1 arbores??

Discretionary revisions
The authors should explain why they have made a new group ESKAPE - what is the rationale? Why have these been selected out?

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:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests