Reviewer’s report

Title: Predictors of 1-year mortality in patients on prolonged mechanical ventilation after surgery in intensive care unit: a multicenter, retrospective cohort study

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Reviewer: Osama Abou-Arab

Reviewer's report:

I read with interest the manuscript entitled "Predictors of 1-year mortality in patients on prolonged mechanical ventilation after surgery in intensive care unit: a multicenter, retrospective cohort study".

The authors aimed to assess the one year morality prediction of patients with PMV after surgery.

They conducted a retrospective study in 5 hospitals in Beijing. They included 124 patients. The mortality rate was 74.2%.

They used a Cox model as an explicative model to identify factors PMV and only counts the factors with events >10.

They identified 6 independent factors: cancer surgery, vasopressor support, thrombocytopenia, requirement for renal therapy, no tracheostomy.

The manuscript is well written and easy to read.

I have no major comments.

Table 1 is not easy to read. Some comorbidities could have gathered and entitled "others" for these with low rate.

English corrections would be suitable

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?
If not, please explain in your comments to the authors.

Yes

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.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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