**Reviewer’s report**

**Title:** Association of pelvic fracture patterns, pelvic binder use and arterial angio-embolization with transfusion requirements and mortality rates. A 7-year retrospective cohort study.

**Version:** 0  **Date:** 10 Sep 2017

**Reviewer:** Rahul Vaidya

**Reviewer's report:**

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This is a well written article with good introduction, methods, results and statistics. The abstract falls well short of the article and needs to be redone. There are several statements which are somewhat ambiguous in the abstract and some not correct.

The value of the pelvic fracture pattern for predicting transfusion requirements and mortality is unclear.

This is not true there are several articles written about this. Here is a good one;

Young-Burgess Classification of Pelvic Ring Fractures: Does It Predict Mortality, Transfusion Requirements, and Non-orthopaedic Injuries?

Theodore Manson, MD, Robert V. O'Toole, MD, Augusta Whitney, MD, Brian Duggan, MD, Marcus Sciadini, MD, Jason Nascone, MD

*J Orthop Trauma* Volume 24, Number 10, October 2010

and arterial angio-embolization has been advocated as the method of choice for controlling arterial bleeding, although the efficacy of either intervention is still debated.

There is good literature to support the efficacy of binders and angiography with embolization and there is significant debate about the arterial embolization vs pelvic packing or which is the choice. Likely not necessary to say it is the treatment of choice.
Several articles about mortality after pelvic injuries I will suggest one other which argues your conclusions about pelvic hemorrhage being a significant cause.

Patients with pelvic fractures from blunt trauma. What is the cause of mortality and when?

Vaidya R, Scott AN, Tonnos F, Hudson I, Martin AJ, Sethi A.


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 am able to assess the statistics

Quality of written English
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Acceptable

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