Reviewer's report

Title: Improved treatment and prognosis after acute myocardial infarction in Estonia: cross-sectional study from a high risk country

Version: 1  Date: 25 April 2015

Reviewer: Gianluca Campo

Reviewer's report:

Major comments:
- It is necessary to better describe the criteria applied for the patient selection (e.g. the codes reported of ICD classification are too general)
- Please clarify why only patients from few hospitals are selected. Please clarify the characteristics of these hospital and why they are selected.
- Second exclusion criteria. It is not clear, you excluded patients with two hospital admission in one month or you excluded at the time of the second event? In the first option, I did not understand the reason. In my opinion, this is not an adequate exclusion criteria
- Similarly, explain exclusion criteria 3. If you included NSTEMI patients, a hospital stay length of three days is plausible.
- You cited "experts" for the data extraction. This is present in the text and in the acknowledgements. This is not usual. Please clarify who are these experts, their role, their experience and methodology.
- You reported data of mortality. It is not possible to have also data about MI, heart failure, bleedings?
- If you have only mortality data, probably could be interesting to show a longer follow-up (e.g. 3-years)
- A Figure comparing mortality curves between years could be interesting. We may better appreciate the improvement.
- You presented data of STEMI and NSTEMI patients. Generally, the data is presented as all population but also as STEMI vs. NSTEMI. Please report also data stratified according the type of AMI.
- Finally, to improve the discussion use data from other registries (e.g. Arch Intern Med. 2011 Nov 28;171(21):1948-9). Please discuss your results and mortality rate as compared to other registries.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published
Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests