Reviewer's report

Title: Analysis of risk factors of acute myocardial infarction in young patients

Version: 2
Date: 19 June 2014

Reviewer: Claudio Picariello

Reviewer's report:

MAJOR COMPULSORY REVISIONS
a) The study enrolment of patients is incorrect: the authors included a too generic "AMI" category of patients, without differentiating "ST elevation acute myocardial infarction or STEMI" and "non ST elevation acute myocardial infarction or NSTEMI and unstable angina or UA", like in the latest ACC and ESC guidelines on acute coronary syndromes. The groups mentioned have different diagnostic, therapeutic and prognostic pathways. If not correctable, it should be mentioned in limitations of the work

b) In table 1 the authors compared young AMI patients and control in means of "TnI (troponin I) positivity". This could be good for clinical data collecting and baseline characteristics, but there is no mention of quantitative values of TnI of AMI patients and of its reference values in authors’ hospital. This is of overwhelming importance, in my opinion, to differentiate young AMI patients in the same group. Please add this data if possible.

c) Bibliographic references are quite all incorrect and need a wide revision, in particular in the paper reference number 22-27 don’t find location in the reference chapter (there are only 1-21, furthermore with errors in coupling text and references), and in some point of the text references are missing (See page 7, definition of smoking index)

MINOR ESSENTIAL REVISIONS

e) An English mother tongue revision is needed, especially in discussion section.

Level of interest: An article of importance in its field

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