Reviewer's report

Title: Expression of circulating miR-486 and miR-150 in patients with acute myocardial infarction

Version: 4

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Reviewer: Nina Zidar

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The authors analysed circulating miR-486 and miR-150 in plasma of 110 patients with myocardial infarction (MI) and found that they were significantly increased in comparison to healthy adults. The authors conclude that levels of circulating miR-486 and miR-150 are associated with MI and that they might be used as markers for early diagnosis of MI, particularly NSTEMI.

The manuscript is brief and well written.

I would suggest only a few minor corrections:

1. The abbreviation “PCI” must be explained when first mentioned in the text, despite being commonly used.

2. Line 159-161: the sentence about microRNAs which “might be suitable for use as biomarkers in the diagnosis of AMI” does not fit in the “Results”. This is mentioned in the Discussion.

3. The conclusion that the analysed microRNAs could be suitable therapeutic targets is too strong. There is long way before a microRNA that has been found to be elevated in a certain disease, can become a therapeutic target.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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.