Reviewer's report

Title: The Relationship between Fasting Plasma Glucose and MPO in Patients with Acute Coronary Syndrome

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Reviewer: Mario Iannaccone

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Major Compulsory revision
In this report Zhang et al. evaluate the relationship between fasting plasma glucose (FPG) levels and inflammatory factor Myeloperoxidase (MPO) levels in patients with acute coronary syndrome (ACS). A population of 85 pts was divided into three subgroups respectively Group A: FPG(<5.6mmol/l); Group B: FPG>5.6mmol/l; Group C: FPG>6.1 mmol/l. Their results show that FPG values are positively correlated with plasma MPO levels (r=0.492, p=0.000) and different among the three groups. Moreover, FPG is positively correlated with Gensini scores (r=0.491, p=0.000) but not with plasma MPO (r=0.172, p=0.125). Anyway they conclude that atherosclerosis role of high FPG probably is related to the releasing of MPO.

1) In the abstract the PBMCs abbreviation is unclear
2) Introduction should be short
3) In the result section the number of patients enrolled in the three groups should be reported and the statistical significance among the three groups should not be evaluated by a "one vs one" group, but among the three groups with one way ANOVA too. Moreover, significant clinical characteristics should be tested by a multivariate analysis.
4) Unfortunately, relation power showed between FPG and Gensini scores (r=0.491, p=0.000) or plasma MPO levels (r=0.492, p=0.000) is low (r value <0.7), despite a good p value r value is near to fortuity. This is probably due to the little cohort of patients.
5) Generally, results are shown in a confused way.

generally is an interesting article, the english form should be revised and the conclusion should be mitigate due to the small cohort and the low power of the relation found.

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