Reviewer’s report

Title: Omega-3 intake is associated with attenuated inflammatory response and cardiac remodeling after myocardial infarction

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Reviewer: Kulapong Jayanama

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This manuscript of a cohort study is interesting because the authors proposed to explore the association of omega-3 intake with the inflammatory response and cardiac remodeling after myocardial infarction. However, there are some comments to discussion as the following:

1. Introduction:

   - The objectives of this study should be clarified.

2. Method:

   - Nutritional intervention method is appropriate but should also mention the recorders.

   - For cardiac MRI protocol, the details of technique used (e.g. axis, slide thickness, field of view, etc.) should be presented.

   - Coronary reperfusion therapy should be defined as PCI and/or fibrinolytic therapy. If both, the number of patients in each procedure should be presented. Time between MI onset and therapy and the result of the coronary reperfusion can be potential factors related to the study outcomes.

   - Please provide more details about GRACE score (for example, adding a reference).

3. Results:

   - Even if history of smoking is not statistically significant in Table 1, it should be considered as a covariate concerning the previous evidence.

   - Why not include triglyceride or non-HDL cholesterol as covariate?

4. Table1:
- Previous myocardial infarction, previous stroke and coronary reperfusion therapy are presented in n (%), not % (n).

- The number following ± or in ( ) should also be clarified.

5. Table 2:

- Why were analyses not adjusted for age and sex?

6. Table 3:

- Why were the associations of omega-3 with Δhs-CRP, ΔIL-2 and ΔBNP not analysed using Model 3?

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