



**BAISHIDENG PUBLISHING GROUP INC**

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242 Fax: +1-925-223-8243

E-mail: [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com) <http://www.wjgnet.com>

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**Name of Journal:** *World Journal of Cardiology*

**ESPS Manuscript NO:** 20255

**Manuscript Type:** Editorial

### **Response to reviewers comments**

#### **Reviewer 1 (2445850)**

The Reviewer said: "*The authors well summarized the evidence available in literature on omega-3 in primary and secondary prevention of AF*". We thank the reviewer for this comment

#### **Reviewer 2 (214305)**

The Reviewer said: "*This is a well-written and comprehensive review article regarding the effects of Omega 3 on atrial fibrillation*". We thank the reviewer for this comment

#### **Reviewer 3 (2451451)**

The Reviewer said: "*Dr.Martino and colleagues presented an editorial paper focusing on the effect of n-3 poly-unsaturated fatty acids on on atrial fibrillation. The relevant literature of the topic is systematically reviewed and the paper is well organized*". We thank the reviewer for this comment

#### **Reviewer 4 (236910)**

The Reviewer said: *"This is an excellent editorial touches on the controversies of fish oil on risk of atrial fibrillation, both as a primary and secondary prevention agent. My only suggestions are 1) to report or discuss whether previous meta-analysis has assessed the treatment duration to surgery as a covariate in a meta-regression in the previous meta-analysis".*

Accordingly, the text has been modified as follows (Page 4, line 24): *"Of note, none of these meta-analyses has assessed n-3 PUFA treatment duration to surgery as a covariate in a meta-regression analysis".*

The Reviewer said: *" 2) does fish oil also affect other CVS and hematological events for cardiac surgical patients? These may include myocardial infarction and bleeding requiring transfusion. These events may also be affected by fish oil and if these studies have demonstrated effects on these outcomes, then perhaps incorporation of fish oil into the cell membranes may not be the reasons for its failure in preventing AF. Obviously any increase in bleeding from fish oil may potentially counteract some of the benefits of fish oil".*

Accordingly, the text has been modified as follows (Page 4, line 30): *"Conversely, no effects of n-3 PUFA administration on myocardial infarction and bleeding after cardiac surgery, eventually influencing POAF occurrence, have been demonstrated [27]."*

Best regards.

Dr. Leonardo Calò, MD, FESC. ID (00256194)

Via Buonarroti 16, 00047 Marino, Rome, Italy

Phone: +390623188406; Fax: +390623188410 [leonardo.calo@tin.it](mailto:leonardo.calo@tin.it)