Reviewer's report

Title: Effects of L-carnitine supplementation on oxidative stress and antioxidant enzymes activities in patients with coronary artery disease: a randomized, placebo-controlled trial

Version: 2 Date: 13 June 2014

Reviewer: Mark F McCarty

Reviewer's report:

Minor Essential Revisions needed.

Your study is presented in a straightforward, understandable style; the English is good. I can find nothing wrong with your procedures or conclusions. In your abstract, you should note that plasma levels of LC and MDA, and erythrocyte antioxidant activities have been measured.

With respect to your discussion, I am not so sure that L-carnitine’s direct oxidant scavenging activity is of much significance. You might revise this to note that carnitine, by acting as a buffer for excessive acetyl groups in mitochondria, may be able to decrease mitochondrial superoxide production during hypoxia or substrate excess. The antioxidant effect you have detected may be of greater importance in ischemic tissues.

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I have no conflicts of interest to report.