Reviewer's report

Title: May toxicity of amiodarone be prevented by antioxidants? A cell-culture study.

Version: 1 Date: 23 April 2012

Reviewer: SERDAR GUNAYDIN

Reviewer's report:

I have reviewed the manuscript entitled “May toxicity of amiodarone be prevented by antioxidants?
A cell-culture study”.

Amiodarone is one of the most frequently used drug in cardiac surgery for the treatment of atrila fibrillation. There are known side and adverse effects of amiodarone especially targeted on myocardial contractility and thyroid gland. Testing amiodarone on cell culture to search for toxicity and suggestion of prevention is an up-to-date background for a study.

1. The question of “amiodarone toxicity” is well defined by the authors.
2. The methodology is appropriate. Studying these effects on an active cell culture is worth for examination. The media and cells used can be used in any study for evaluation.
3. The data is well expressed and well controlled.
4. This is a novel information searching for different concentrations of the drug with respect to antidotes.
5. Discussion and conclusion are well described and satisfactory.
6. Abstract is well designed.
7. I believe this paper is acceptable and attracts the interest of readers.

Minor Essential Revisions:
1. English should be reviewed. There are mistypings and spelling errors.
2. Authors should discuss the experiment to be repeated on human cells.
3. Authors should support their data by literature on additive of anti-oxidants and amiodarone.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

No financial or regulatory interests.