Reviewer's report

Title: Increased vascular endothelin type B and angiotensin type 1 receptors in patients with ischemic heart disease

Version: 2 Date: 7 December 2008

Reviewer: Majid Sheykhzade

Reviewer's report:

Major comments:

1- The authors are encouraged to conduct functional experiments with S6c (sarafotoxin- ETB receptor antagonist) and human angiotensin II and include the data in the paper. This will improve the quality of paper significantly.

Minor revisions:

Background

1- page 4, line 6: the continuous interaction between endothelin-1 and angiotensin II is important for the control of vessel tone, and changes......

2-page 4, line 20: Endothelin A and B receptors located on vascular smooth muscle cells are both mitogenic,......

3- page 4, line 22 (last sentence at the bottom of the page 3): .......which contribute to the development of ischemic cardiovascular disease.

4- page 5, line 9: ......that regulates cell growth, differentiation and fibrosis, and........

5- page 5, line 13: To the best of our knowledge, this is the first in vitro study using the peripheral vascular tissue samples isolated from patients.

6- page 5, line 14: The peripheral vasculature is contributing significantly to total peripheral resistance.

Methods

Tissue collection

7- page 6, line 21: get rid of the extra "dot" (.) after "surgery.

Results

8- Why the plasma concentrations of ET-1, angiotensin-II, Adrenalin (or noradrenalin) were not measured ?

Demographics
According to the data presented in Table 1, the BNP is not significantly increased in "Angina" group.

Discussion:

10- In general, the authors should also discuss the increase in BP and BNP in connection to the increased levels of receptor proteins (ETB and AT1). How do these values correlate with the clinical condition and the extent of receptor opregulation?

Clinical perspective

11- Page 13, line 17: Why do authors mean by "distending the vessel with NaCl"? The authors should mention other contractile agents instead.

12- Page 13, line 21: It should read "Angiotensin converting enzyme inhibitors (ACEIs)". The wrong abbreviation (ACE) should also be corrected to ACEI throughout the manuscript (page 14, Table 1 and also in the Table 1 text).

Please correct the figure numbering.

Level of interest: An article of importance in its field

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:

I declare that I have no competing interests