Reviewer's report

Title: Therapeutic Angiogenesis in Cardiovascular Disease

Version: 1 Date: 2 May 2007

Reviewer: Christian Detter

Reviewer's report:

General
The article by Al Sabti is reviewing therapeutic angiogenesis in cardiovascular disease such as gene therapy, protein therapy, and cellular therapy. Angiogenesis in cardiovascular disease is a very interesting and fascinating field and might open new therapeutic avenues in the future thus being a promising hope for patients with advanced vascular disease not responding to conventional treatment.

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

One of the most important guidelines of a review article is its actuality. In this review article, the reference list consists of 78 papers, whereas only nine papers are published after 2000. Only one paper is from 2002, which is the most recent publication in this article. Thus, the manuscript needs to be updated.

The authors should focus on the different therapeutic techniques and carefully review the literature rather than explain the technology itself. This should include e.g. not only the biology and effects of VEGFs, but also the current status of clinical applications and future perspectives of the therapeutic use of VEGFs, the clinical role of endothelial progenitor cells and perspectives for treatment of cardiovascular disorders, as well as recent results of cellular transplantation, an innovative technology that involves the implantation of a variety of myogenic and angiogenic cell types.

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

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Discretionary Revisions (which the author can choose to ignore)

What next?: Unable to decide on acceptance or rejection until the authors have responded to the major compulsory revisions

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

Quality of written English: Acceptable

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