Reviewer’s report

Title: Fractional flow reserve of non-culprit vessel post-myocardial infarction: is it reliable?

Version: 0 Date: 03 Sep 2015

Reviewer: Massimo Fineschi

Reviewer’s report:

Data regarding the safety and utility of FFR in the non-culprit vessels of patients with STEMI are not well established though there are indications in small clinical studies that it may be a safe and sufficiently accurate modality of assessment.

In this setting, there is a gap between ischaemia and plaque vulnerability and we don't know the impact of STEMI pathophysiology on non culprit vessel plaque Moreover the time dependent changes in microcirculatory function necessitating caution in acute physiological assessment post primary PCI.

The IMR (index of myocardial resistance) can be measured during pressure wire study and could be helpful in evaluating the integrity of the microcirculation and to validate the FFR.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
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Yes

Are the conclusions drawn adequately supported by the data shown?
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Yes

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