Reviewer's report

Title: Significance of Fragmented QRS Complexes for Identifying Culprit Lesion in Patients with Non ST-Elevation Myocardial Infarction: A Single-Center, Retrospective Analysis of 183 Cases.

Version: 3 Date: 19 December 2011

Reviewer: Heikki Huikuri

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This study has assessed the diagnostic accuracy of fragmented QRS complex in detecting the culprit coronary artery lesion in patients with non-STEMI. The results are of potential interest. However, the clinical significance of these findings remains unclear. ST-segment depression is the most important ECG criteria for non-STEMI as well as for predicting the culprit lesion. It remains uncertain, whether the assessment of fQRS provides any additional information. My proposal is that the authors compare the diagnostic accuracy of fQRS and ST-segment depression in troponin positive patients. By doing this, some clinical relevance could be obtained. Even if fQRS could diagnose the correct culprit lesion in some patients without ST-segment depression would be informative.

No minor comments.

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.