Reviewer's report

Title: Value of segmental myocardial strain by 2-Dimensional Strain Echocardiography for assessment of scar area induced in a rat model of myocardial infarction

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Reviewer: Erwan Donal

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17 rats were explored after ligation of the LAD. Echocardiography was performed at baseline and after 4 weeks. Everything went fine for every animal after the LAD ligation and all were perfectly alive at 4 weeks?

The authors are not the first to explore that field in human and in rats too. Look at Am J Physiol 2010; 298: H 1679 for instance.

We, now, know quite well that radial strain is not robust enough for clinical practice; can the authors discuss the feasibility and the clinical impact of their results?

Of course, we also need a inter and intra observer variability analysis.

Radial strain = thickening = M-mode so can the authors compare their SR results with the one they got with the M-mode analysis?

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

'I declare that I have no competing interests'