Reviewer’s report

Title: Spatial orientation of cross-sectional images of coronary arteries: point of view in intracoronary imaging

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Reviewer: Lorenza Pratali

Reviewer’s report:

In this paper written by Troels and coauthor was sperimentally investigated the added value of the determination of the spatial orientation of the cross-sectional images of coronary artery.

The authors showed the importance of the spatial orientation in the identification and quantification of the plaque components otherwise are not possible comparisons between intravascular imaging and microscopy. They concluded that the spatial orientation might be discusses in consensus paper on intravascular imaging.

Major revisions
The study is well presented with good images but the possible future clinical applications had to be validated in a larger study before to be applied or considered in any guidelines.

Moreover the authors do not clarify if this algorithm for spatial orientations has some limitations.

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.

Declaration of competing interests:

I declare that I have no competing interest