Reviewer’s report

Title: A Post-market, Multi-vessel Evaluation of the Imaging of Peripheral Arteries for Diagnostic Purposes Comparing Optical Coherence Tomography and Intravascular Ultrasound Imaging (SCAN)

Version: 0 Date: 27 Oct 2019

Reviewer: Zhao Wang

Reviewer's report:

This paper compared OCT and IVUS in image quality, tissue characterization, and lumen dimension measurements in a prospective study. This is the first study comparing the quality of IVUS and OCT images in peripheral vessels in patients in the US. The authors concluded that the OCT has better performance than IVUS, and both of them are safe and effective methods for examining peripheral vessels. The study is well designed and conducted. The analysis is thorough and the conclusion is important for future clinical guidance.

Perhaps it is beneficial to add comments on OCT vs. HD-IVUS, limitations of OCT on assessing larger vessels, and plaque burden.

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?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
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I am able to assess the statistics
Quality of written English
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Acceptable

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