Reviewer’s report

Title: Prevalence and characteristics of coronary artery anomalies in an adult population undergoing multidetector-row computed tomography for the evaluation of coronary artery disease.

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Reviewer: Mario Iannaccone

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In these article Graidis et al. report data from 60 pt with coronary anomalies in a cohort of 2562 MDCT coronary angiography. He conclude that “The results of this study support the use MDCT coronary angiography as a safe and effective noninvasive imaging modality for defining CAAs in an appropriate clinical setting, providing detailed three-dimensional anatomic information that may be difficult to obtain with invasive angiography. “

Major report

1) Generally is hard to speak about prevalence of coronary anomalies because MDCT was assessed in a selected subpopulation with suspected coronary artery disease. It could be more interesting to better describe clinical characteristics of these patients. Younger? Less CV risk factors? History of atypical chest pain? Troponine rise?

2) Moreover how did you treat these lesions?

2) Conclusion in the abstract and are not coherent with the results. You don’t report safety profile in results.

Generally speaking these data are not different from other reports in literature. I think that could be more interesting to report more clinical features. In particular which were predictors for coronary anomalies rather than obstructive coronary disease. Moreover if and how the lesions were treated.

Minor report

1) Abstract has to be shortened

2) It could be interesting a table with main indication to MDCT in general population and in the 60 pt with coronary anomalies

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 interests