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.

Version: 2 Date: 6 September 2014

Reviewer: Giorgio Quadri

Reviewer’s report:

Christos Graidis and Colleagues reported prevalence and characteristics of coronary artery anomalies in 2572 patients undergoing multidetector-row computed tomography.

Detailed description and interesting iconography is provided, but the study could be more exhaustive with regard to the following issues.

Major Compulsory Revisions

1) “Patients were being tested for stent occlusion, for screening due to the presence of multiple risk factors, or due to chest pain, equivalent symptoms or inconclusive stress test. “

Could you provide some details regarding the indication of MDCT coronary angiography (e.g. prevalence of symptomatic patients) in all the patients?

2) “Sixty “patients” (2.33%) were diagnosed with coronary artery anomalies, with a mean age of 53.6±11.8 years (range 29-80 years), of which fifty (83.3%) were males.”

A table with baseline demographic and clinical characteristics of “CAAs patients” is required.

Minor Compulsory Revisions

1) If possible, provide a comparison between patients with coronary anomalies and those without. Is there any statistically significant difference between the two study groups in terms of indication for MDCT coronary angiography, demographic characteristics, cardiovascular risk factors and comorbidities?

2) The study is a simple descriptive analysis. Could improve your work by providing data on follow-up of the 60 CAAs Patients.

3) When it appears for the first time, the acronym should be shown in all the individual parts. (e.g. CHD, page 3, line 86).

Level of interest: An article of limited interest

Quality of written English: Needs some language corrections before being
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 below.