Reviewer’s report

Title: Case Report: Extreme coronary calcifications and hypomagnesemia in a patient with a 17q12 deletion involving HNF1B

Version: 0 Date: 06 Apr 2019

Reviewer: Pasquale Fatuzzo

Reviewer's report:

This is an interesting and well written case report on new vascular effects of 17q12 deletion. The detection of important coronary artery calcifications and the possible mechanisms at the basis of this process have been well reported for the first time. Few questions, at discretion of the authors, could be answered.

Authors linked the vascular effect of 17q12 deletion to CKD-MBD. Were calcifications limited to coronary arteries or involved other districts (i.e., aorta)?

Is it possible to check whether arterial calcifications involved intima or media layer?

Have any data on elastic and muscular artery stiffness (i.e., carotid-femoral and carotid-radial pulse wave velocity)?

Is it possible for the authors to perform a non-invasive study of functional and structural arterial wall properties (i.e., at the level of the carotid artery, using an echotracking device)?

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As a minimum standard, please include a few sentences that outline what you think are the authors’ hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfill our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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- Are the statistical test(s) used in this study appropriate and well described?
- Is the exact sample size (n) reported for each experimental group/condition (as a number, not a range)?
- Are the description of any error bars and probability values appropriate?
- Are all error bars defined in the corresponding figure legends?
- Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?

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