Reviewer's report

Title: Juvenile elastic arteries after 28 years of renal replacement therapy in a patient with complete Complement C4 deficiency

Version: 2 Date: 22 August 2012

Reviewer: Ari Mennander

Reviewer's report:

I thank the Editor for the privilege to review this interesting case report. I hereby suggest for minor essential revision prior to publication:

1. Please consider to reduce your number of figures included. I would delete figures 2, 3, 5 and 6, since the data is provided on the text.

2. On Discussion, last but 2nd sentence, 1rst paragraph: "That these mechanisms..." Please explain or rephrase for clarity.

3. Lack of complement C4 was detected in serum in this patient. Are we to be certain that there is also a lack of complement in tissue as well? Would the authors have tissue biopsy available? Please comment.

4. Though the lack of C4D may suggest protection against atherosclerosis, it may also signify additional risk for other pathologies, such as dissection. I would add text in Discussion to speculate on this possibility (Lack of C4d deposition may reveal susceptibility for ascending aortic dissection. Niinimaki E et al. Scand Cardiovasc J. 2012 Jun;46(3):177-82).

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Needs some language corrections before being published

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