Reviewer’s report

Title: May Thurner Syndrome revealed by left calf venous claudication during running, a case report.

Version: 0 Date: 30 Mar 2017

Reviewer: Goof N. Schep

Reviewer’s report:

A well written case report.

Important (probably) rare (sports) injury that has not got much attention in the sportsmedicine literature.

Given the difficulty for recognising it and the well written case report with detailed practical guidelines for a clinician this article is apt for publication.

I only have some detailed remarks that may improve the article.

Since the readers of BMC sports science have in general no background on vascular medicine you may improve the article by some more explanation.

eg figure 1 Can you also add a figure with the normal situation and explain the difference
also figure 2 Can you also add a figure with the normal situation and explain the difference
page 2 line 45 can you describe the venous drainage position in more detail
page 7 and figure 3 I think you can explain it a bit better and leave room for overlap. This will add the clinical usefulness of the article.

maybe first step does it appear at exercise and disappear at rest.

second step relief after venous drainage (no = suspect for arterial disease yes suspect for compartment and posttrombolic)

second step differentiation compartment syndrome -post trombotic syndrome end potentially also overlap (posttrombolic also swelling and location of pain) potentially there is overlap since venous obstruction may increase compartment pressures.

The treatment was done with venous stenting.
page 7 line 45-46. Please explain a bit more the benefits and risks at the long term. How long are the patency rates ..., how long is anticoagulation necessary. In the current wording potentially you are over optimistic concerning benefits and risks.

**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.

Unable to assess

**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?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?
5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

no to all of the above

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal