**Reviewer’s report**

**Title:** First trimester ultrasound measurements and maternal serum biomarkers as prognostic factors in monochorionic twins: a cohort study

**Version:** 0  **Date:** 29 Jan 2019

**Reviewer:** Martin Müller

**Reviewer’s report:**

This is an important study trying to identify markers of MCDA twin complications.

Although the study is robust, I do have some comments.

Line 80: "Such obstetric surveillance requires ultrasonographic expertise, health economic resources, is time consuming, and targets all MC twins as a 'high risk population'. ". Currently, all MC twins are considered high risk and a proposed screening approach may be beneficial but currently not available.

Line 122: Pragnancies…guidelines: Please define guidelines or reference as a minor flaw of the study later on

Line 150: This is the major problem of the study as you did not convert the values into Multiple of Median (MoM). As the values change throughout pregnancy you need to convert all biomarkers into MoM. The NT values need to be expressed as percentiles as well.

176: define Iatrogenic PTB

Line 215 - same as above: use percentiles

Please provide a chart showing number of complications (for example TTTS) and consequences: for example Laser or Amniotic Fluid reduction etc... Also provide the GA of the performed procedure. The same goes for TAPS: most of TAPS are a complication of laser therapy and not a problem per se.

Line 256 Please define dysfunction

343 - Please specify continues measurements as I do not see them. Also when and why where those measured. They are not performed routinely.

Together, the understanding of the presented numbers strongly depend on the GA and performed procedures. Therefore, I do recommend to present MoMs and to specify the collective more closely.

**Level of interest**
Please indicate how interesting you found the manuscript:

An article of importance in its field

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

Acceptable

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