**Reviewer’s report**

**Title:** Global longitudinal strain correlates to systemic right ventricular function

**Version:** 0  **Date:** 25 Jul 2019

**Reviewer:** Lamia Ait Ali

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In this study the authors sought to evaluate the RV function in patients with systemic RV (CC TGA and TGA post atrial switch). They correlate the RVEF evaluated by CMR with TTE, Nt-ProBnp and exercise test parameters. They found, as already published, a correlation between RVEF and RV GLS.

The topic is of interest however many limitations and criticisms have to be addressed:

- Sample size very small also in consideration with the heterogeneous group of patients, this point has been reported in the limitation paragraph but the authors
- In the result section of the abstract: the authors didn't report the significant results
- The methodology is poorly described mainly echocardiography study
- Nt proBnp usually didn't have a normal distribution and usually NT-proBNP values are log transformed?, it's not mentioned in the statistical analysis section.
- A more detailed characterization of the population should be reported for instance did any of patients with atrial switch have a baffle stenosis or leak?, how was the tricuspid regurgitation in the CCTGA group. It could be interesting also to have more information about adverse outcome as arrhythmia or heart failure in this population.
- How did the authors explain higher nt proBnp in ccTGA
- How did the authors correlate RVEF with NYHA class (fisher, T test?)

**Level of interest**

Please indicate how interesting you found the manuscript:

An article of limited interest
Quality of written English
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Acceptable

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