Reviewer’s report

Title: Association between altered placental human chorionic gonadotrophin (hCG) production and the occurrence of cryptorchidism: a retrospective study

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Reviewer: Luciano A Alves Favorito

Reviewer’s report:

This is a very interesting paper about hCG and cryptorchidism.

The use of hormones (hCG and GNRH) is the only known clinical treatment for cryptorchidism, with a success rate ranging from 15% to 50%. A hypothesis that could explain the migration process of the testicle after using hCG, would be the increase in the amount of testosterone, inducing the appearance of androgenic receptors on the fibroblasts of the gubernaculum which would degrade the extracellular matrix and would stimulate the contraction of the muscle fibers in the gubernaculum, thus determining its shortening (1).

The present paper is very important and had good methodology. I have some questions to the authors:
1) The patients with bilateral cryptorchidism had micropenis?
2) The authors observed some differences in levels of hCG in bilateral and unilateral cases?
3) I suggest the exclusion the patients with micropenis is this study
4) The introduction is very long.

Congratulations to the authors, the paper is very original


Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I do not have financial interests competing to this paper
I declare that I have no competing interests