Reviewer’s report

Title: Neurocognitive outcome of school-aged children with congenital heart disease who underwent cardiopulmonary bypass surgery: a systematic review protocol

Version: 0 Date: 10 Jun 2019

Reviewer: Marie Brossard-Racine

Reviewer's report:

This will be a very needed synthesis of the literature for an important topic. The protocol is well written and scientifically well planned. I only have minor comments as described below:

Year a publication: even if not restrictive, a range of years should be provided. This will be determined by the database you choose to use.

The inclusion of any language sounds a bit ambitious. What does "translated when possible" means? What language translator does the team have or not access to?

I would recommend limiting the inclusion criteria to children who underwent surgical repair during infancy or at least during the first few years of life. Outcomes are likely to be significantly different between infants who underwent repair during infancy vs. first surgery during late childhood.

Will you also be considering intra-operative factors, e.g. use of deep hypothermia, time of the circulatory arrest?

Search strategy:

What is an information specialist? Do you mean a librarian? Or the primary researcher?

Selection of studies and Data management:

First sentence-> change verb tense to consistently use future.

Line 188, "a third author will be carried out to find consent." I think you mean "consensus."

In case of when there is more than one publication reporting the same data, I would recommend only to include the most extensive report.
Data Synthesis

Please clarify how intellectual outcomes, executive function and risk factors will be synthesized together or in separate analyses.

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

An article of importance in its field that should be highlighted to relevant networks

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

Needs some language corrections before being published

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

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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?

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Were you mentored through this peer review?

No