Reviewer's report

Title: Prevention of vitamin D deficiency in children following cardiac surgery: a study protocol for a randomized dose evaluation trial

Version: 2
Date: 3 August 2015

Reviewer: Karin Amrein

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McNally and colleagues describe in detail the protocol for a meaningful double blind randomized controlled trial (RCT) in cardiac surgical children in a single center Canadian trial. The intervention is pre-operative daily high dose vitamin vs. those those who receive usual intake (according to current IOM recommendations), the primary endpoint immediate post-operative vitamin D status.

1. Are sufficient details provided to allow replication of the work or comparison with related analyses: if not, what is missing?
   Yes, sufficient details are given

2. Is the writing acceptable?
   Yes

Minor Essential Revisions

The duration of preoperative therapy (actual or anticipated is unclear in the abstract but also the manuscript
Redcap could be explained a little
Update enrollment status and anticipated completion date
The Williams Syndrome could be explained or the descriptive name added in the exclusion criteria list

Minor typesetting errors: upper normal physiological range. 4,5.
for nephrocalcinosis [53, 54]. 7.
As there IS no intravenous form of cholecalciferol
Fig 1 appears in duplicate