Reviewer's report

Title: Colon Capsule Endoscopy compared to Conventional Colonoscopy under routine screening conditions

Version: 2 Date: 27 January 2010

Reviewer: James M Church

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Major Compulsory Revisions

The results section is a problem. It is unclear. I would like to see, plainly put in a table, the number, size, location and histology of polyps detected by both techniques. I would like to see the adenoma detection rates.

How did the authors handle lesions seen on capsule endoscopy but not on colonoscopy? Did patients undergo repeat colonoscopy, by another endoscopist, and did the lesions remain undetected?

Issues of comparative cost in terms of money and resources are not addressed. I appreciate that this was not the point of the study but some useful comments could be made.

You mention serrated adenomas but not sessile serrated polyps, notoriously difficult to see on colonoscopy. Were there any and were any detected by the capsule?

The prep results are unacceptable, for the camera and the colonoscopy. The high rate of poor preps tends to invalidate the whole study.

The Bayesian analysis is of questionable significance in the absence of a true gold standard.

The exclusion of polyps <5 mm diameter is unrealistic, as the authors have pointed out. Taking a size for significance from irrelevant studies of virtual colonoscopy tends to invalidate data and conclusions. Fortunately the authors have also included all lesions.

The overall adenoma detection results are inferior to fecal DNA testing and show that there is a lot of work to do. Can the authors analyse missed polyps and see if there is a pattern of reasons why they were missed?

Minor Essential Revisions

The English language used in the manuscript is clumsy. It needs to be rewritten by a native English speaker.

Discretionary Revisions
Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

I declare that I have no competing interests