Reviewer’s report

Title: Interpretation of evidence in data by untrained medical students: a scenario-based study

Version: 2 Date: 4 August 2010

Reviewer: Antonius Schneider

Reviewer’s report:

The manuscript was carefully revised and the important points (also of the other reviewers) were addressed.

My suggestion was not to compare pre-test probability with post-test probability. I think there was a misunderstanding. My concern was that also the likelihood ratio paradigm uses implicitly some kind of statistical testing (by applying confidence intervals). My argumentation might have been cumbersome. However, another reviewer (L.Š.) has come to the point with similar concerns (first two paragraphs). Therefore, these problems are solved as the critical arguments are addressed in the revision.

The other main concern was related to the ‘frequency format paradigm’, which was also addressed by the other reviewers. To my opinion, this problem is also solved by a more balanced discussion.

I agree that ‘approach’ is a better term than ‘paradigm’.

Minor essential revisions:
Page 5, paragraph 3: approach instead of paradigm (line 5 and 6)
Page 5, paragraph 4: approach instead of paradigm (line 6)
Page 6, line 1: approach instead of paradigm
Page 7, last line: approach instead of paradigm

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 declare that I have no competing interests.