Reviewer's report

Title: The Potential Interaction Between Clopidogrel and Proton Pump Inhibitors: A Systematic Review

Version: 1 Date: 17 October 2010

Reviewer: Christoph W. W. Kopp

Reviewer's report:

1. Is the question posed by the authors new and well defined?

Until today 21 reviews were published on the issue of "proton pump inhibitors interfering with clopidogrel activity." However, none of them was a systematic review assessing the robustness of yet published clinical data providing evidence for the "high on treatment residual activity of clopidogrel" phenomenon observed in the presence of different proton pump inhibitors. Thus, the "way, how the question is posed" is new and defined.

Help in the judgment for "the level of evidence" is the strength of the presented manuscript - nothing more, nothing less – by critically reviewing and quantifying data of RCT and non-randomized trials on the clinical impact of the phenomenon. As "evidence" leads to recommendations by regulatory agencies and thus consequently to daily medical practice, the presented manuscript is of significant importance.

2. Are the methods appropriate and well described, and are sufficient details provided to replicate the work?

The authors stratify published data according their "meet or fail" of biostatistical standards "a priori" in a transparent and logical fashion.

3. Are the data sound and well controlled?

The data are sound, "controlled" is not applicable in this context.

4. Does the manuscript adhere to the relevant standards for reporting and data deposition?

Yes.

5. Are the discussion and conclusions well balanced and adequately supported by the data?

Definitely.

6. Do the title and abstract accurately convey what has been found?

Yes.
7. Is the writing acceptable?
Yes.

**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’