Reviewer's report

Title: Breakthrough Reactions of Iodinated and Gadolinium Contrast Media after Oral Steroid Premedication Protocol

Version: 1 Date: 10 March 2014

Reviewer: Carmelo Aguirre

Reviewer's report:

This study aimed to assess the frequency, type and severity of breakthrough reaction (BTR) in spite of premedication with steroids in patients who had suffered a previous adverse reaction to contrast medium or had a history of bronchial asthma or of other allergic reactions.

The state of art is adequately reviewed in the introduction and the study objectives are clearly defined.

Breakthrough reaction (BTR) after previous IR is not a commonly studied problem. In this regard, this study is original and therefore publishable.

2. The methods are appropriate and well described.

3. The data are sound but there is an only Minor Essential Revision. The number of examinations performed with contrast media was high (64,540), but the authors do not say which was the number of adverse reactions (IR) that occurred. Although this was not an objective of the study, did the authors recorded?. Without knowing this information it is not possible to assess whether the number of examinations with premedication is representative of all previous examinations that produced adverse reactions.

4. The manuscript adhere it to the relevant standards for reporting and data deposition.

5. The discussion and conclusions are well balanced and adequately supported by the data.

6. Limitations of the work are clearly stated.

7. The references cited by the authors suggest an adequate knowledge of the state of art.

8. The title and abstract are accurately convey what has been found.

9. The writing is acceptable. There is only a minimal misspelling, missing “e” in "severe" in the middle of Discussion at the bottom of page 13.

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:

- Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this paper, either now or in the future?
  NO

- Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this paper, either now or in the future?
  NO

- Do you hold or are you currently applying for any patents relating to the content of the manuscript? Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?
  NO

- Do you have any other financial competing interests?
  NO

- Do you have any non-financial competing interests in relation to this paper?
  NO

'I declare that I have no competing interests'.