Reviewer’s report

**Title:** Trends of hospitalizations, fatality rate and costs for acute myocardial infarction among Spanish diabetic adults, 2001-2006.

**Version:** 1  **Date:** 30 October 2009

**Reviewer:** David Martinez

**Reviewer’s report:**

Lopez de Andres and coworkers have examined trends in myocardial infarction among Spanish diabetic subjects. The material comes from the Spanish national hospital discharge database.

The topic is clinically relevant the sample is representative and the paper is reasonably well-written. Only minor changes are needed. Lopez de Andres and coworkers have examined trends in myocardial infarction among Spanish diabetic subjects. The material comes from the Spanish national hospital discharge database.

The topic is clinically relevant the sample is representative, methods are appropriate, the discussion, limitations and conclusions are well balanced and adequately supported by the data and the paper is reasonably well-written.

I only have some Minor Essential Revisions

Some specific comments:

1) **Methods:**

I don’t understand how logistic regression is used to analyze mortality, please clarify this point.

Authors state that qualitative variables were expressed as frequencies and percentages with 95% confidence intervals. But after no CI are shown please delete this sentence or add CI 95%.

2) **RESULTS**

There is a typing mistake as the results read (p#0.05), this must be corrected.

3) **DISCUSSION:**

Some more discussion on the different mortality between men and women is necessary.

The great increase in the hospitalizations cost among diabetics suffering myocardial infarction over the study period is very interesting. Could this be in part explained by a higher age they suffer the attack?

Page 8 typing mistake in references [4,5;16]

Could you differ types of diabetes? This would be very interesting.
4) TABLES
Table 2 includes a poison and logistic models this provide different statistics (OR, IRR) this should be added to the table.
Table 2. Please describe the models used in the footnote.

5) REFERENCES
Add access date to WEB references according to the journal authors guides

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'