Reviewer's report

**Title:** Cross-sectional evaluation of the periapical status as related to quality of root canal fillings and coronal restorations in a rural adult male population of Turkey

**Version:** 1  **Date:** 17 February 2011

**Reviewer:** Carlos estrela

**Reviewer's report:**

The objective of manuscript is to determine the prevalence of periapical lesions in root canal-treated teeth in a rural, male adult, Turkish population and to investigate the influence of the quality of root canal fillings on prevalence of periapical lesions. The study needs more justification in the introduction section. In the discussion section, it was poor the exploration of the methodology, results and its correlations. A good study starts with a clinical problem. It is important to show the limitations of methodology that used 2D images, considering the recent advances by using computed tomography cone beam (3D images). Despite of all care taken during the development of this manuscript, it did not bring any new contribution to the actual knowledge of endodontics.

1. Is the question posed by the authors well defined? No.
2. Are the methods appropriate and well described? Unclear.
3. Are the data sound? Unclear.
4. Does the manuscript adhere to the relevant standards for reporting and data deposition? No.
5. Are the discussion and conclusions well balanced and adequately supported by the data? Yes
6. Are limitations of the work clearly stated? Yes.
7. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished? -
8. Do the title and abstract accurately convey what has been found? Unclear

**Level of interest:** An article of limited interest

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

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**
I declare that I have no competing interests