Reviewer's report

Title: Risk factors of osteoporosis in healthy Moroccan men.

Version: 2 Date: 17 December 2009

Reviewer: Lidia Sanchez Riera

Reviewer's report:

Major Compulsory revisions:

1) In the methods the authors mention that they select the segment L2-L4 for spine BMD values, as "all" prevalence OP data available in the literature is based on that concrete location. That is not correct. There are many prevalence studies that show values L1-L4. See, for example:


2) Authors don't specify anywhere in the article how they define and collect fractures. The term "traumatic fractures" should be better defined. Does it mean ANY kind of fracture due to a trauma (high impact too)? If ANY traumatic fracture is included, regardless of its osteoporotic nature, that might partly explain why there is no statistically significant relationship between fractures and OP status, as we would be including fractures not due to low BMD. It is true that, individuals with low BMD are more likely to have suffered any kind of fractures at young age. However, the sample size of this study is possibly not big enough to demonstrate such effect.

Minor Essential Revisions:

1) Last paragraph in page 9 should be reworded.

2) In Discussion the sentence that says "At the lumbar spine, on the other hand, several studies..". I think it should be reworded.

3) Maybe change one or two "moreover" for other expressions (e.g: "furthermore")

Discretionary Revisions:

1) I think it would be interesting that authors discuss why they think that coffee consumption is an independent risk factor in their study. In particular because they explain that coffee has not shown previously clear evidence as an
independent risk factor for low BMD, and there is no clear metabolic reason to think that coffee interferes with bone health.

**Level of interest:** An article of importance in its field

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

**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