

Guarulhos, September 22nd, 2014.

Name of journal: *World Journal of Orthopedics*

ESPS Manuscript NO: 11670

Dear Editor

We are pleased to modify the manuscript according to the suggestions made. In order to facilitate the manuscript review process, changes in the text were marked as track changes and are presented in a different color in the text. The reviewers were elegant and accurate, and after the modifications we believe that the manuscript reads better and is more intelligible. All comments were about the limitations and weakness of the included studies, however, the nature of the present manuscript (systematic review) does not allow improve some data, as requested, due to limitations of the papers and/or studies. In addition, our conclusion suggest more randomized clinical studies about the impact of osteoporosis on long-term success of dental implants. Specific concerns are addressed below.

We look forward for our next iteration.

Thank you,

Jamil Shibli.

Reviewer # **01408945**

Manuscript Number: 11670 Manuscript Title: Impact Of Osteoporosis In Dental Implants: A Systemic Review. Corresponding Author: Dr. Gabriela Giro et al. Gabriela Giro et al. reported the manuscript titled "Impact Of Osteoporosis In Dental Implants: A Systemic Review." The reviewer's critiques are as follows.

**Major criticism:**

**1. First of all, the quality of articles in the present study is low.**

The authors understand the reviewer point of view, however, one of the conclusions of the present manuscript state that "In addition, there are no RCT available for analysis. Therefore, the retrospective nature of the majority of included studies should be considered when interpreting the results of this review."

**2. Authors should explain the relativity between bone loss of jawbone and general osteoporosis.**

A sentence in the discussion section state this topic: Thus, the prerogative that dental implant placement might be contraindicated in subjects with osteoporosis/osteopenia is based on the assumption that these pathologies may affect the human jaws in the same fashion which it does affect other parts of the skeleton. In addition, differences in healing kinetics and pathway of bone healing and remodeling may exist between long <sup>[10,14]</sup>. However, to date, there are no conclusive studies presenting that osteoporosis and/or osteopenia increase the failure rates of dental implants neither peri-implantitis prevalence.

**3. The failure rate of dental implant in the present study included data of case studies. These data are not collect. Authors should use relative risk for explain the failure rate using cohort studies.**

Thank you for the comment. However, due to the low quality of the papers (retrospective at all), the relative risk was not possible to obtain.

**Minor criticism: 1. Abbreviation must be cited when they appeared at the first time. For example, RCT etc.**

Thank you for the comment. We spell RCT in the M&M.

***Reviewed by 00506304***

Giro et al. have performed a systemic review to show the effect of osteoporosis on dental implants as well as the failure rates of dental implants in patients with and without osteopenia/osteoporosis. They conclude that osteoporosis does not contraindicate titanium dental implant therapy. In general, the topic of review is very interesting, but it lacks certain data as follows. Major comments 1. The authors should extensively review how osteoporosis was diagnosed in 12 studies. In those studies, is there any correlation between microstructural defects of the jaw bone and DXA results from other bone sites (lumbar, hip, etc.).

**Unfortunately, none of the included papers evaluated the bone tissue characteristics.**

All included papers did not revealed specific characteristics of the bone tissue.

**2. The osteoporotic patients might have received anti-resorptive drugs and calcium/vitamin D supplements, which should be included in this systemic review. Did the patients have other jaw bone lesions related to osteoporosis and/or osteoporosis treatment (such as osteonecrosis of the jaw)?**

There is no mention for any kind of anti-resorptive drug for the patients included in the studies.

**Minor comment 1. Demographic data (age, gender, etc.) and the presence of sex hormone deficiency should be included.**

Some of the papers have not included these data; therefore we did not add these data on the table 1.