Reviewer’s report

**Title:** The influence of bisphosphonates on human osteoblast migration and integrin aVb3 / tenascin C gene expression in vitro

**Version:** 1 **Date:** 3 October 2010

**Reviewer:** Andreas Kolk

**Reviewer’s report:**

By the manuscript “The influence of bisphosphonates on human osteoblast migration and integrin aVb3 / tenascin C gene expression in vitro” the authors would like to prove that bisphosphonates inhibit human osteoblast adhesion and migration. The bisphosphonate-related osteonecrosis of the jaws still is not clearly understood. The disturbed wound healing could be due to a deviated osteoblast adhesion and migration. The present article gives insight into the influence of bisphosphonates on osteoblasts’ adhesion and migration. The different effects of nitrogen containing and non-nitrogen containing bisphosphonates on osteoblasts´ integrin aVb3 and Tenascin C gene expression explains compromised wound healing in bisphosphonate patients.

Recently a very interesting paper about the influence of the pH-value on the bisphosphonate-related osteonecrosis has been published (Bisphosphonate-related osteonecrosis of the jaw: is pH the missing part in the pathogenesis puzzle? by Otto and Coworkers in J Oral Maxillofac Surg. In 2010 I would suggest to cite and discuss it.

The present manuscript contains very promising and interesting results which would be beneficial to publish for the Journal.

Minor revision could focus on the additional reference and the language.

**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.