Reviewer's report

Title: Short time administration of antirheumatic drugs - Methotrexate as a strong inhibitor of osteoblast's proliferation in vitro.

Version: 2 Date: 13 August 2012

Reviewer: Dieter Weingart

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The issue of the manuscript submitted by Annussek et al. is the influence of low dose methotrexate on osteogenic proliferation and differentiation. The context of antirheumatic drugs and cranio-maxillofacial surgery is an interesting, relevant and original approach that is rarely discussed in literature before. Pathological aspects and treatment of rheumatoid arthritis are reviewed in detail, supported by confidential references. The experimental procedures are well established, documented and refer to reliable data. Findings are well discussed and conclusion is made clearly.

The manuscript should be accepted after minor revision. The following recommendations would help the authors to improve their paper.

1. Since only Methotrexate was used in the study, change the title in: Short time administration of Methotrexate reveals a strong inhibition of osteoblast’s proliferation in vitro.
2. Page 2 line 3 and 6: don't use the term DMARD when describing the results of your study, for you only used Methotrexate and no other DMARD
3. Page 4 line 5: provide a list of different members of the DMARDs and their basic therapeutic approach
4. Page 3 line 17: A comma is missing after “…regulatory T –cells…”
5. Page 4 line 4: The following term “…increases by leaps and bounds…” is too figurative and should be replaced by “…increases remarkably”.

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'