



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Advances in Research
Manuscript Number:	2014_AIR_14189
Title of the Manuscript:	Contact Analysis for Coupling of Plates and Screws in Fracture Fixation of Cortical Bone
Type of Article	Short Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>At first, I was asking where the data that represent reference [2], the author mentioned reference 2 in the references part however there is no hyperlink for the data belongs to it. I cannot find reference 2 in the context. I think the author has to revise his references well.</p> <p>Moreover, on the results part to clearly understand the graph a scale on plate length must be drawn so the reader can find the peaks stress points and its corresponding length, the same for the bone length and for the circumference of the screw.</p>	<p>First of all we appreciate the effort of the reviewers to help us improve this article. Our response is as follows.</p> <ol style="list-style-type: none">1- Reference no. (2) is mentioned in the first line of the introduction section it is mentioned implicitly as [1 – 3] which means references 1, 2, and 3. If the journal prefers writing them as [1,2, and 3] we do not mind. We were just following the norm of citing more than 2 references.2- As we have explained in the text we focusing on the middle area around the fracture site. Though it is not difficult to add the plate length but we did not show the plate length for the following reasons:<ol style="list-style-type: none">a. Our main aim of this paper is to compare the stresses in two different types of plates around the fracture site. Exact Locations of stresses are not what we trying to show in a <i>short research</i> article.b. Since the problem doesn't involve fracture or failure of plates, the location may not be something interesting to show. In fact the biomechanics community is focusing on the stresses magnitudes around the screws which are close to fracture site, regardless of the fact if they happen on the right side of the screw head or left side (circular symmetry). For Biomechanics community the interest is in the amount of micromtion resuting from these stresses. We have addressed briefly the micromotion issue in a previous publicationc. We do not want to distract readers with so many details that are not necessary.d. This paper is a short communication and will serve as part 1 for a long paper that we are anticipating to finish by june of 2015. In the long paper we will be very much concern about deep details of contact analysis and comparison with experimental testing that has been performed.e. Brief simulation for stresses along the plate was shown in the ADINA company website for our model as illustrated in the paper (We have used ADINA software to perform FEA for this problem)