

**World Journal of Orthopedics Manuscript NO 32678  
Radiation Exposure and Reduction in the Operating Room: Perspectives and Future  
Directions in Spine Surgery**

**Reviewer #1**

**This is a review regarding radiation exposure in the form of ionizing radiation that is using in contemporary spine surgery and the associated risks for malignancy. To reduce radiation-associated health risks, radiation safety has become an important topic in the medical field. And the authors concluded that while new technology has advanced radiation safety within the field of spine surgery, more work is still required to overcome specific limitations involving increased costs and inadequate training. This is an excellent paper with many references related to this issue. Well presented data including new technologies and methods of protection**

Thank you for your kind words, and for taking the time to review our manuscript. Reviewer #1 did not have any comments that required revisions to the manuscript. We have included all necessary manuscript components in our current submission, as requested by the editor.