

Review of: "Dose Reduction in Medical Radiography: Advancing Veterinary Diagnostic Solutions"

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Potential competing interests: No potential competing interests to declare.

Dear Authors,

Thank you for your promising work as dose reduction based
Here, please see the categorized suggestions based on any section:

Introduction:

1- The following paragraph is directly related to **radiobiology**; I think it would not be necessary to mention it here. It could be eliminated. Since the topic is not aimed to investigate radiobiological effects. Instead of this, it might be better to mention ICRP **principles of radiation protection** including **ALARA** in order to explain your aim.

The effects of radiation on living cells could be summarized through two primary mechanisms: direct and indirect adverse effects [9][10][11][12]. Direct effects occur when radiation ionizes DNA atoms, potentially causing considerable damage. If extensive, this damage can prevent proper chromosome replication or alter DNA information, leading to cell death due to direct ionization [13]. Since living cells are primarily composed of water, radiation interacts with it, leading to indirect effects by producing radicals such as H, OH, and in final toxic H2O2 [14][15][16]. Given these risks, current research is focused on designing novel devices that reduce radiation dose while maintaining sufficient image quality for diagnostic purposes.

2. Include relevant literature focusing on dose reduction in different detectors for human or animal radiography to emphasize the study's objective. You may find similar articles
3. Clearly outline the novelty or optimization of this research in comparison to similar studies.
4. Define the aim of this study at the conclusion of the introduction.

Material and Methods:

Ensure well-written and statistically accurate content, and provide statistical details within the tables.

Results and Discussion:

Compare the findings of this study with those of comparable studies to highlight the uniqueness or differences in your work.



Thank you,

Regards,