

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

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Potential competing interests: No potential competing interests to declare.

The manuscript is about the findings regarding the increase in photon loss caused by the anti-scatter Pb grid in flat panel detectors. Researchers used a linear array detector to eliminate the need for a grid and have implications for improving imaging techniques not only in medical but also in veterinary radiography. This research highlights the importance of multidisciplinary collaboration in advancing technology and improving healthier diagnostic capabilities.

Authors investigated the photon loss on the anti-scatter lead grid and used a linear array X-ray detector to get rid of it. They observed an increase in photon loss at the reference flat panel detector system caused by the grid while thickness was increased in phantom tests. They realized this phenomenon would be an advantage for veterinary radiography. They also observed the magnification capability of the linear array detector. This is a successful multidisciplinary research from physics to medical, then veterinary X-ray diagnostics.

This manuscript will be published in the journal.