Traceability in Medical X-ray Imaging Dosimetry

TraMeXI project aims to harmonize and standardize calibration and measurement procedures to ensure traceability and accurate dosimetry in medical X-ray imaging.

X-ray imaging, covering diagnostic and interventional examinations, saves countless lives but form the largest component of exposure to artificial ionizing radiation in Europe.



Accurate and consistent quantification of patient radiation exposure with calibrated dosimetry equipment is essential to ensure safety to patients.

TRACEABILITY CHAIN

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- The assessment of patient exposure is incomplete:
 The reference radiation qualities used for calibrations do not represent the conditions at clinical X-ray facilities.
- The change of dosimeter response between calibration and clinical conditions is not well known.
- X-ray multimeters are commonly used, but validated procedures for their calibration and use are missing.

NEEDS



