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Assessment of Internal Radiation Dose: Understanding the Influence of Respiratory Motion

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Assessing radiation doses to internal organs is crucial in evaluating the risks and benefits of diagnostic and therapeutic nuclear medicine procedures, such as PET, for patients. Respiratory motion causes significant displacement of internal organs, affecting the absorbed dose in cases of external r adiation exposure. In this study, our focus was on determining the role of respiratory motion in assessing the absorbed dose of S values for Lu177, Dy 165, I 131, and Tc99m. Despite this, there has been no previous report on the impact of respiratory motion on internal radiation dosimetry

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