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Biography

Mr Mohamad Aminudin Bin Said is a medical physicist at Nuclear Medicine Department Institut Kanser Negara since 2006. He obtained his MSc from the University Sains Malaysia in 2014. Mr Mohamad Aminudin Bin Said has published several academic journals and proceedings in his related expertise. His expertise areas focus on targeted radionuclide therapy dosimetry and nuclear medicine radiation safety including cyclotron operations. Mr Mohamad Aminudin also involved in a development of Institut Kanser Negara Committee in nuclear medicine specialty.

Title: Radionuclide Therapy Dosimetry: From Theory into Clinical Practice.

Abstract

Fundamentals of Nuclear Medicine Dosimetry will discuss in this presentation. The absorbed doses to the specific organ were based on patient's cellular functions and physiology. For assessing radiation-related risks, the absorbed dose in the individual organs needs to be calculated according to absorbed dose, formalism called MIRD Scheme. Most common radionuclide therapy such as high dose NaI I-131 therapy (more than 7.4 GBq) and Peptide Receptor Radionuclide Therapy (PRRT) Lu177 DOTATE used dosimetry technique. This technique has good advantage to maximise activity administered to the patient and also able to determined Lesion Dose Per Activity (LDPA) to the selected lesion. An author also will discussed the challenge while setup this technique in Institut Kanser Negara