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