



Contribution ID: 27

Type: **not specified**

## Dose calibrator quality control (in nuclear medicine)

*Friday 5 July 2024 09:00 (45 minutes)*

Dose calibrator quality control

H. Saikouk<sup>1,2</sup>

1: Faculty of Science, Mohammed V University in Rabat, P.O. Box 1014, Rabat, Morocco

2: Nuclear Medicine Department, Oncology and Hematology Hospital, Mohammed VI University Hospital, Marrakesh, Morocco

In nuclear medicine, radiopharmaceuticals are administered to patients, by intravenous injection for example, for diagnosis or therapeutical purposes. Beforehand, the activity to be administered is assessed using the dose calibrator, depending on parameters such as the age and the weight of the patient. The main intent, taking into account the patient's radiation protection, is to administer the suitable activity to the patient to acquire an image of good quality for diagnosis or enough radiation for targeted radiation therapy. Hence, the precision and the accuracy of this device are primordial.

Consequently, quality controls should be performed periodically to ensure the correct response of the dose calibrator. In this presentation, the functioning principle of the dose calibrator will be explained and different quality controls will be detailed. The participants will then have the opportunity to participate in the analysis of a quality control results.

**Presenter:** SAIKOUK, Hind