Second Symposium on
RadioBiology, 
RadioPathology & 
RadioProtection
Saturday 19th of November, 2016
Faculty of Public Health, Saida - Lebanon
Radioisotopes and ionizing radiations have become an integral part of modern human life. Many advances in medicine are based on radioactivity and can remain so for a long time. Lebanese medical institutions, tries to follow modernity in all diagnostic and therapeutic procedures using radioactive tools.

The effects of radioactivity are harmful on humans and on the environment when it is misused or when the necessary safety measures are not taken. Therefore, it is very important to provide basic scientific evidence related to the optimal clinical indications of the different modalities of ionizing radiations, their effects on human beings, and the means of radiation protection in hospitals.

The Lebanese Societies of Nuclear Medicine, Medical Oncology, Radiation Oncology and Radiology, as well as the Lebanese University are cooperating to organize the Second Symposium of Radio-Biology, Radio-Pathology and Radio-Protection at the Faculty Of Health Of Saida, on the 19th of November, 2016.

The main objective of this symposium is to create awareness in various environments, especially the hospitals or any medical institutions, and the universities on the benefits and the effects of ionizing radiations and on the corresponding radiation protection. Thus the thematic of the second symposium includes several topics dealing with the new trends of utilization of ionizing radiation in radiology, nuclear medicine and radiotherapy.

The scientific community involved in the use of ionizing radiation has invited national and international speakers to highlight the latest scientific advances concerning the applications of ionizing radiation in medicine.

We welcome the participation of any person interested in these topics, and hope that this symposium improves our knowledge about the benefits and the effects of ionizing radiations and their safe use.

Feras CHEHADE M.D.Ph, D.
President of Lebanese Society of Nuclear Medicine

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Conferences, lasting 25 minutes each, followed by 5 minutes of assistance questions, will be given by a harmonious group of speakers that are experts in the field.

The schedule including the names of speakers and the titles of corresponding conferences is as follows:

**THEMATIC :  New Trends Of Utilization Of Ionizing Radiations In Medicine**

- **8:45** Welcome Note From The Director Of Public Health Faculty And Head Of Radiology Department - Saida. Dr. Mohamad Nasreddine
- **9:00** Advanced Computed Tomography And Companies Competition In Decrease Radiation Dose. Mr Abed Elkarim Mubarak
- **9:30** Different MRI Signals And Their Magnitudes In The Reduction Of Indication Of Irradiating Techniques. Dr Ali Kanj
- **10:00** Evolution Of Radiological Techniques In Breast Imaging. Dr Reine Fahed

- **10:30** Coffee Break

- **10:45** Nuclear Medicine Modalities: History And New Methodologies. Dr Mohamad Cham
- **11:15** New Radiopharmaceuticals In Nuclear Medicine With Better Target Specificity And Higher Therapeutic Effects. Dr Maroun Karam
- **11:45** Double-Edged Weapon Of Ionizing Radiation Against Tumors: High Dose Rate Of Protons And Molecular Concepts Of Dbait. Dr Marie Dutreix

- **12:30** Lunch Break

- **14:00** Selective Internal Radiation Therapy By Means Of Radioisotopes. Dr Kabalan Yammin
- **14:30** Radiotherapy And Chemotherapy: Synergies And Frontiers. Dr Fares Azoury
- **15:00** New In Radiation Therapy: Lower Radiation Exposure And Superior Therapeutic Responses. Dr. Nicolas Zouain

- **15:30** Coffee Break

- **15:45** New In Brachytherapy. Dr Bilal Chahine
- **16:15** Protection Of Normal Tissues Against Ionizing Radiations. Dr Youssef Zaidan
- **16:45** Radiation Protection In Hospitals: Exposure Sources, Laws And Equipment. Dr Feras Chehade
- **17:15** View On Radiation Doses For Both Patients And Workers In Interventional Radiology. Dr Georges Fares & Ms Chadia Rizk
Selective Internal Radiation Therapy (SIRT)

Resine-based-90Yttrium radioembolization is a complex procedure that requires multidisciplinary management for safety and success. The published literature suggests that there is sufficient evidence to support the safety and effectiveness of SIRT in selected patients with non-resectable primary or secondary liver tumors.

- In a patient presenting primary of pancreas with secondary liver tumors (Figure A) 90Y-SIRT was efficient since two months later, radioembolized liver tumors showed decrease in number, size and activity (Figure B).
- Liver tumors that are still active or newly appeared, are programmed for a second session of 90Y-SIRT at 4 months interval.

Feras Chehade, Francois Kamar, Kabalan Yammine, EANM Meeting, Hamburg, Oct 2015