



**BASIC SCIENCE and  
REGULATORY ISSUES  
in NUCLEAR MEDICINE**

**October 4 - 5 , 2013  
DAPA Hall  
Philippine Heart Center  
East Avenue, Quezon City**

# BASIC SCIENCE AND REGULATORY ISSUES IN NUCLEAR MEDICINE

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## WHAT MAKES THIS COURSE UNIQUE?

The course will highlight the basic sciences and selected regulatory issues necessary in nuclear medicine practice. Emphasis will be placed on presenting the scientific bases of common nuclear medicine procedures, including radioactive iodine therapy, that are often glossed over in other courses.

At the end of the course, participants will have gained a better understanding of common nuclear medicine scanning and treatment protocols and will also be better equipped to comply with some technical regulatory requirements through a review of the relevant basic sciences.

### Some of the things we will be talking about

- ✓ How do you survive an annual PNRI inspection?
- ✓ Do you have difficulty relating what you learned from the RTTC and RHSO refresher courses with everyday practice?
- ✓ Are you compliant with the contamination survey requirements in terms of Bq/300cm<sup>2</sup>?
- ✓ Why do some survey meters measure exposure rate in  $\mu\text{Sv/hr}$  instead of mR/hr, when  $\mu\text{Sv}$  is a unit for absorbed dose?
- ✓ Should in-patients be isolated after their scans, or can they return to the wards?
- ✓ Should RAI uptake patients be isolated, and for how long, if at all?
- ✓ Can you calculate TEDEs for high activity RAI therapy, so patients don't need confinement?
- ✓ When is the proper time to request follow-up tests for post-RAI therapy patients, based on biological response to I-131?
- ✓ Do you know that the partial volume effect is the basis for interpreting gated myocardial perfusion SPECT?

## WHO SHOULD ATTEND?

Nuclear medicine medical and paramedical personnel, especially those (like RHSOs) responsible for preparing regulatory requirements, will benefit from the course. The course will also be useful as a review of basic sciences for nuclear medicine residents to help them develop the expected insights and prepare for examinations.

## WHAT WILL BE LEARNED?

The course will comprise lectures and interactive sessions. Topics to be covered include the following:

### DAY 1 (October 4, 2013; Friday)

#### Morning

- Review of radiation concepts
- Basic gamma camera principles and image artifacts
- The whys of imaging protocols

#### Afternoon

- RAI therapy must-knows
  - Biological effects of radioactive iodine
  - RAI therapy for hyperthyroidism
  - Thyroid cancer treatment protocol
  - Nuclear medicine imaging modalities for follow up after RAI therapy of thyroid CA
  - Radiation safety after RAI therapy

### DAY 2 (October 5, 2013; Saturday)

#### Morning

- PET and SPECT technology
- Radiation detection and measurement
- Patient and nursing instructions before and after scanning
- The ideal radiation safety program

#### Afternoon

- Open forum and workshop on radiation safety program (participants to bring their Radiation Safety Programs)

Inquire and Register at:

Nuclear Medicine Division  
Philippine Heart Center

**Ms. Nica Villanueva**  
(02) 925-24-01 local 2165  
(0935) 490-16-63

**Dr. Arnel Pauco**  
(0917) 891-43-02

Registration Fee

inclusive of lunches and snacks

**Php 2,000**  
on or before Sept. 19, 2013

**Php 3,000**  
after Sept. 19, 2013