



# Certificate

OF ATTENDANCE

THIS IS TO CERTIFY THAT

**AISYAH ELLYANTI, MD**

HAS ATTENDED AS

**SPEAKER**

**43<sup>rd</sup> ANNUAL  
SCIENTIFIC  
MEETING**

*Innovation In  
Ophthalmology  
Practices*

**Padang, August 30<sup>th</sup> - September 1<sup>st</sup> 2018**

Accredited by Indonesian Medical Association (IDI) :

No. 02451/PB/A.4/09/2018

Participant : 15 SKP, Speaker : 12 SKP, Moderator : 4 SKP, Committee : 2 SKP



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**Heksan, MD**

Chairman of Organizing Committee

**M. Sidik, MD**

President of Indonesian Ophthalmologist Association

This certificate does not require a signature

For authenticity check please scan the QR code or access <http://www.perdami.id/e-certificate/> and enter the code number below the QR code.

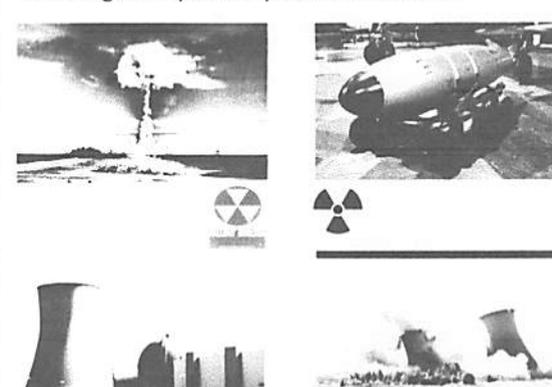
## The Role of Nuclear Medicine in Ophthalmology

Dr. Aisyah Elliyanti dr., SpKN., Mkes  
 Bagian Fisika Fakultas Kedokteran Universitas Andalas  
 Bagian Radiologi RS. Dr. M. Djamil Padang



Padang, 1 September 2018

### What is general public impression on nuclear ?




## NUCLEAR MEDICINE

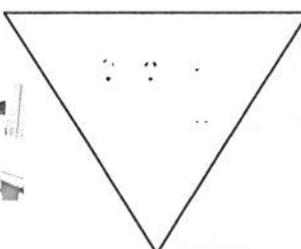
WHO/IAEA 1988

*Medical specialty,  
 Nuclear properties of matter,  
 Investigate physiology and anatomy,  
 Diagnosis and treat,  
 Unsealed sources of radionuclide.*

### Nuclear medicine has three aspects

Devices :  
 Camera  
 • SPECT-CT  
 • PET-CT



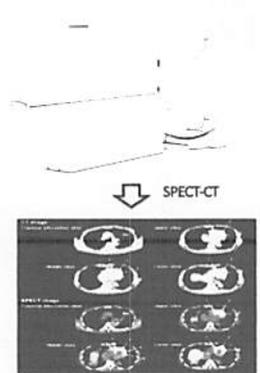


Clinical Problems

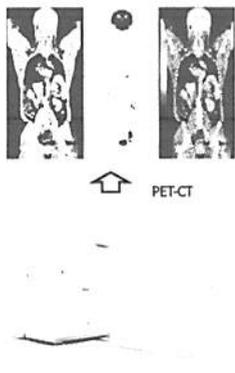
Radiotracer :  
 Radioisotop



### Nuclear Medicine Camera

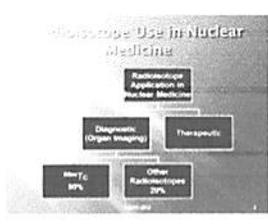


SPECT-CT



PET-CT

### Radiotracer and Clinical Problems



- Oncology,
- Neurology,
- Cardiology,
- Endocrinology,
- Nephrology,
- Ophthalmology,
- Etc.

**Diagnosis**                      **Treat**

## DIAGNOSIS

**1. Dacryoscintigraphy**

1. Radiotracer : Tc-99m : 100uCi
2. Non Invasive
3. To asses :
  - the obstruction of nasolacrimal duct
  - the postoperative success of dacryocystorhinostomy

### Case 1

**Dacryoscintigraphy for detection of Ocular Drainage System Stenosis Induced by Docetaxel and Fluorouracil**

Toucales, GJ, et al. *Head & Neck* 2012; 34(2):159-161

### 2. Thyroid Scintigraphy

### Case 2

A 19 year-old man with esophageal cancer history, PET-CT shows widespread metastases and FDG avid at posterior right eyes is adenocarcinoma consistent with esophagus cancer

Mazhar, A, et al. *Ophthalmologic abnormalities on FDG-PET/CT: a pictorial Case. Cancer Imaging* 2013; 13(3):300-313

### Case 3

- A 52 yo man with abdominal adenopathy and bone lesion.
- on previous CT scan result : unknown primary disease.
- PET-CT shows widespread malignancy, also FDG avid in left medial orbit (SUV 4.8).
- Biopsy chest wall node revealed poorly differentiated non small cell carcinoma with neuroendocrine features suggestive gastrointestinal primary.

Mazhar, A, et al. *Ophthalmologic abnormalities on FDG-PET/CT: a Pictorial Case. Cancer Imaging* 2013; 13(3):300-313

