

SSRMP Workshop on PET/CT

Bern, Inselspital

**26th
September 2008**

What is a PET ?

Haustier in Englisch?



Bottle?



What is a PET ?

Positron

Emission (Computer)

Tomography

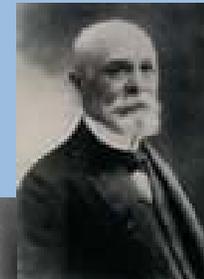
- > A nuclear medical modality using positron emitters.
- > Non-invasive, physiologic, biochemical, basing on time, quantitative functional images.
- > Radiopharmaceuticals [F18]FDG, [68Ga]Peptides etc.

History of imaging.

> 1895 Roentgen discovered x-rays



> 1896 Becquerel discovered radioactivity



> 1898 Curie discovered radium



> 1911 George de Hevesy credited with first use of radioactive tracers

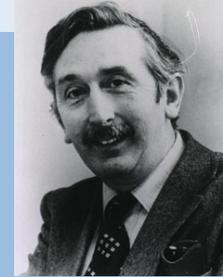


> 1958 Hal Anger invented gamma camera



History of imaging.

> 1973 Hounsfield invented CT scanner.



> 1973 Phelps invented PET scanner.



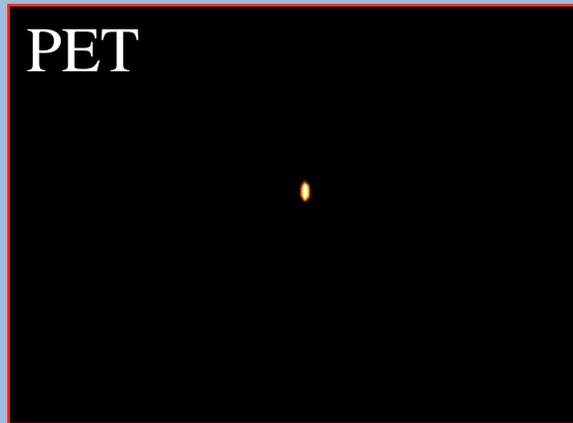
> 1998 Nutt & Townsend invented PET/CT scanner.



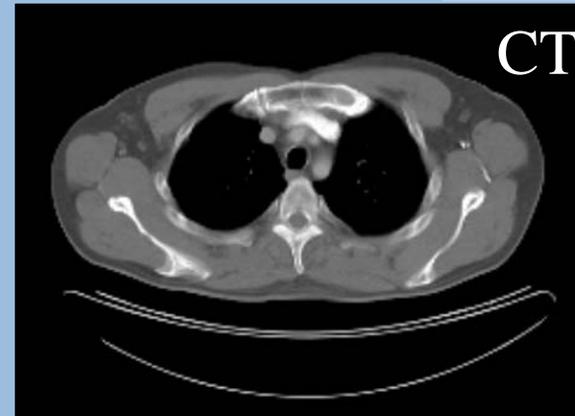
> 2000 – Time – PET/CT Invention of the year.



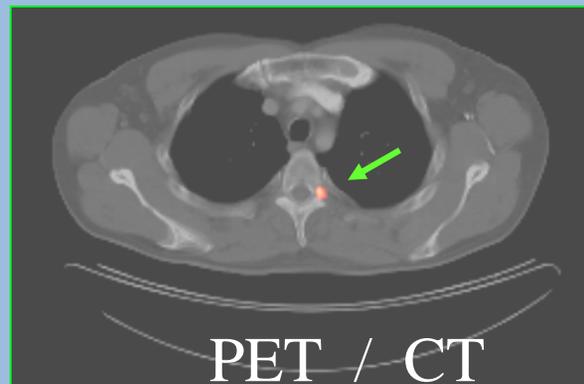
Why a PET/CT?



Lesion?
Lack of anatomical
informations.



No lesion.
Lack of physiological
informations.



Tumor on Th1