

Practical Sessions

The equipments

Nuclear Medicine Department (Mario de Denaro)

- Manipulation cell *Comecer "Monique"* (Shielded Isolator)
- Dual Head: *Siemens e-Cam* Gamma Camera
- Dual Head : *General Electric Infinia* Spect-CT Gamma Camera
- Test Objects and Phantoms
- Image Processing Software

Medical Physics Department (Maria Rosa Fornasier)

- High Purity Germanium (HPGe) Detector
- Software tools
- Cyclone Imager

Practical Sessions I

The Nuclear Medicine Department

- **Layout of a nuclear medicine department**
 - **Radiation Protection**
 - **Instrumentation**
 - **Quality Controls**
 - **Image processing for Diagnosis**

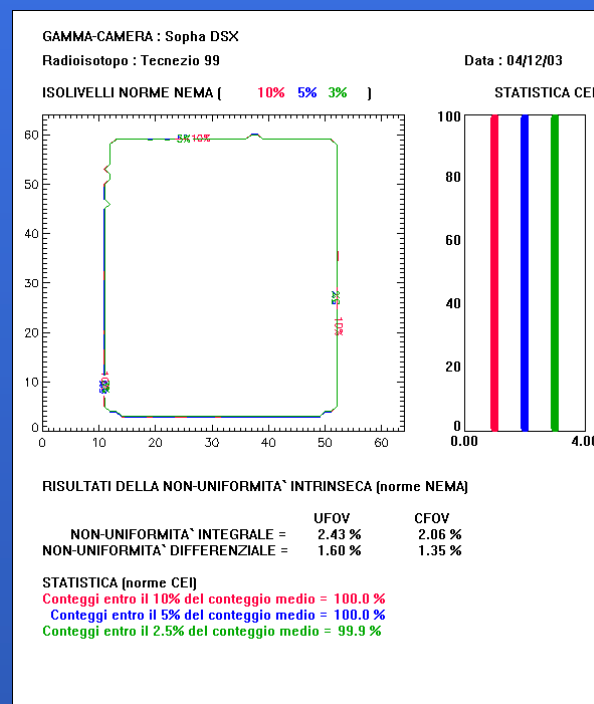
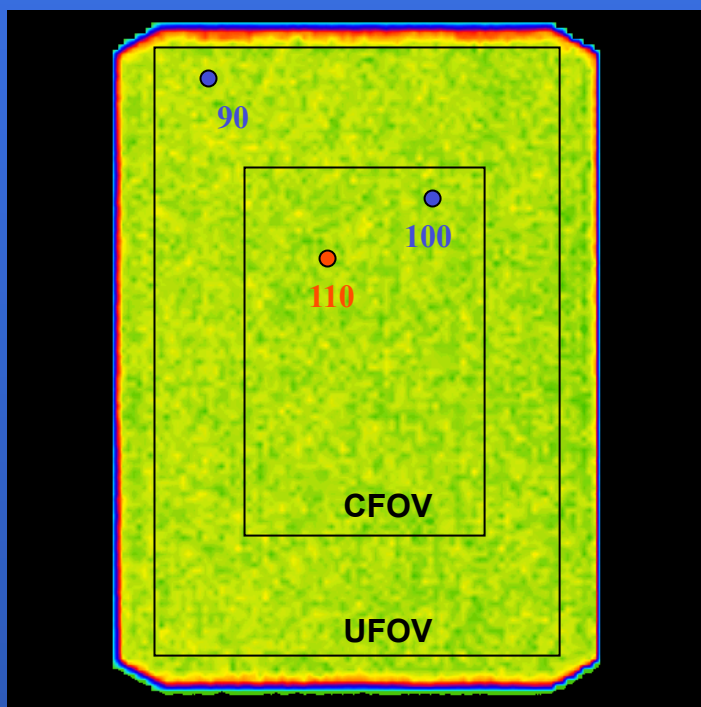
Session I documentation

➤ Quality Control on Dose Calibrator

✓ *File : Cdq_activity-calibrator.pdf*

➤ Quality Controls on Gamma Camera

✓ *File: Cdq_gamma-camera.ppt – IDL Source Code: cdqmn230.pro*



Practical Sessions II

The Medical Physics Department

- **Gamma Ray spectrometry
by HPGe detector**
- **^{131}I Patient-specific Dosimetry
by custom software**
- **Radiochemical purity
by Cyclone Imager**

Session II documentation

- Gamma Ray spectrometry by HPGe detector
 - ✓ *File : Workers Radioprotection in Nuclear Medicine: Smear Test.ppt*
 - ✓ *File : QC of Radiopharmaceuticals-1.ppt*
- ^{131}I Patient-specific Dosimetry by custom software
 - ✓ *File: Patient-Specific Dosimetry.ppt*
- Radiochemical purity by Cyclone Imager
 - ✓ *File: QC of Radiopharmaceuticals-2.ppt*
 - ✓ *File: QC Cyclone.ppt*