

## PRACTICAL SESSION AT THE “OSPEDALI RIUNITI” OF TRIESTE

- ✓ Welcome to the Medical Physics Department - registration form
- ✓ The participants will be divided into **two groups of 5 people**. At the end of the practical session the group will be exchanged.

### SESSION I

#### Medical Physics Department - 2<sup>nd</sup> floor

- **Gamma Spectrometry Laboratory**
  - Use of a HPGe detector with a spectrometric chain
    - *GammaVision, software for gamma-ray spectrum analysis*
    - *radionuclidic quality controls, radiation protection, smear test*
  - Calibration and periodical quality assurance of the instrumentation
- **Internal Dosimetry**
  - practice on dosimetry for <sup>131</sup>I treatment of hyperthyroidism
    - *use of a custom software to evaluate thyroid's uptake and volume*
    - *evaluation of the personalized activity to be administrated*

#### “Quality Controls Laboratory” Nuclear Medicine Department - 1<sup>st</sup> floor

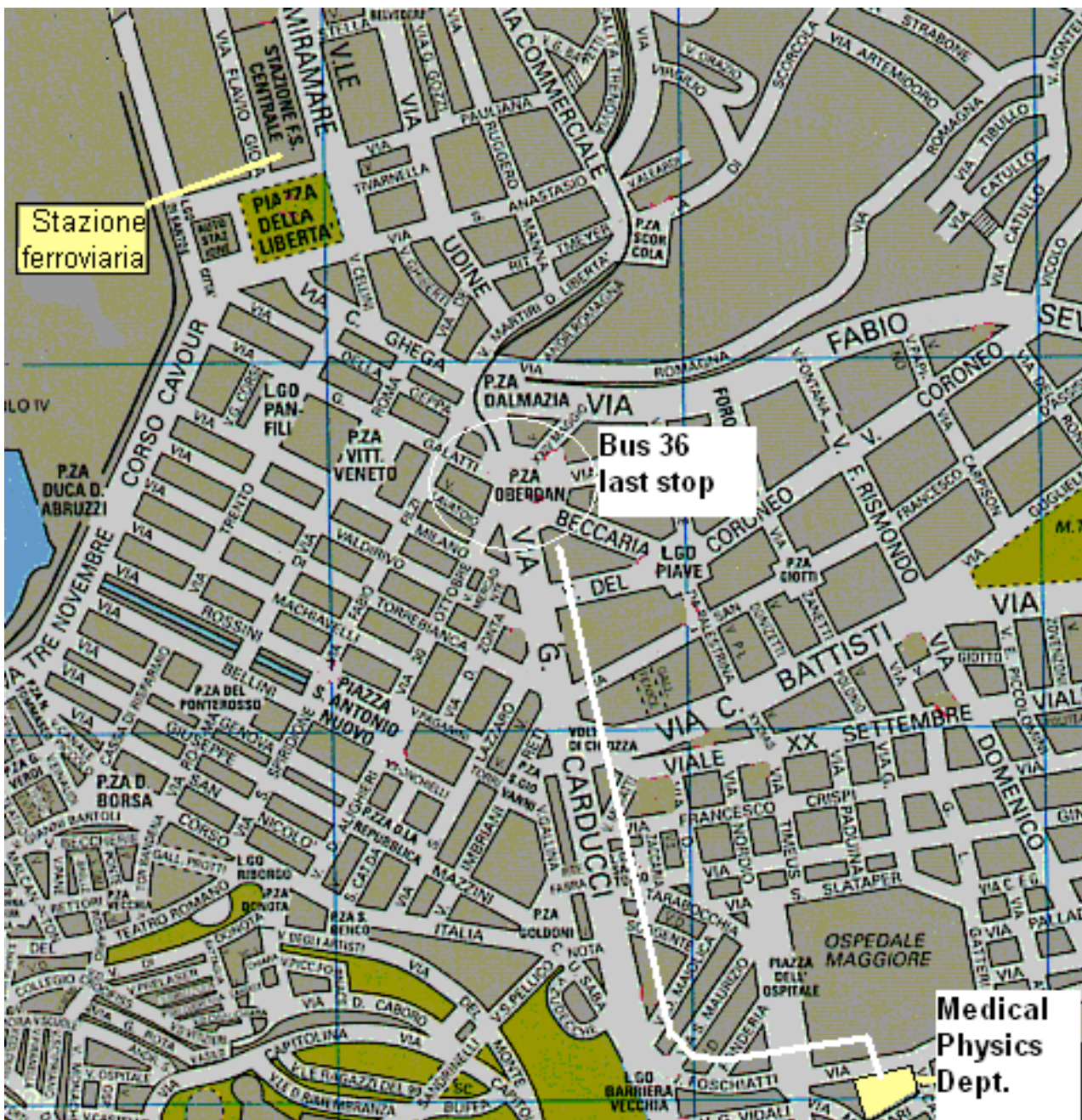
- **use of Cyclone Imager**
  - radiochemical quality controls
    - *<sup>99m</sup>Tc radiopharmaceuticals*
  - quality control program of the Cyclone Imager

### SESSION II

#### “In Vivo examinations” Nuclear Medicine Department - underground floor

- **Patient management**
  - The layout of the Department
    - *different rooms, patient path, staff path, radiation protection criteria*
  - Radiopharmaceuticals Preparation Room
    - *the manipulation cell, the activity calibrator*
    - *calibrator quality controls*
- **Quality assurance of gamma cameras**
  - Scintigraphic Examination Room
    - *acquisition consolle, gamma cameras, collimators*
    - *test objects and phantoms*
  - Practice on gamma camera quality controls
    - *intrinsic and system test*
    - *intrinsic uniformity and sensitivity according to NEMA Protocol*
- **Software image processing**
  - Medical Examination Report Room
    - *examples of images visualization and diagnostic programs.*

## How to arrive at the Hospital from Adriatico by BUS number 36



*“Ospedale Maggiore” is situated in a central area of Trieste and it can be reached walking from the Bus 36 last stop, in about 10/15 min.*

From Oberdan Square (last stop of bus 36) follow Via Carducci straightaway in the longer direction and then (after about ten minutes walking) turn left at Via Foschiatti. Via Foschiatti continues in Via Pietà and at number 19 (just after a big parking in-building) there is the entrance of “Centro Tumori – Ospedale Maggiore”.