



**NATIONAL
KIDNEY AND
TRANSPLANT
INSTITUTE**

Nuclear Medicine Section

👉 We deliver the most rapid and accurate diagnosis in the specialty using high-quality radiopharmaceuticals.

NUCLEAR MEDICINE SECTION

👉 We aim to provide the highest quality health care to all patients.



**Angel M. de Guzman, MD
Chief of Section**

**Angelo O. Martinez, MD
Consultant**

We are open:

👉 **Mondays to Fridays
8 AM - 5 PM**

👉 **Saturdays:
8 AM - 12 NN**

👉 **Emergency Procedures
Available 24 Hours**



**ISO 9001:2000
CERTIFIED**

**Ground Floor, Hospital Building
East Avenue, Quezon City 1101
Tel. No.: 924-3601 local 2120, 2121**

**A
New Clarity
in Nuclear
Medicine**

LIST OF SERVICES OFFERED

Nuclear

Medicine is a clinical specialty that relies on technology to provide its practitioners with the tools needed to carry out their role in diagnosing and treating various diseases. The **gamma camera**



and the **computer** interfaced to it are the primary instruments used. Together, they have served as the catalyst-responsible for enhancing the unique ability of Nuclear Medicine to provide **functional information** that is not possible with other anatomic imaging modalities.

Throughout the years, Nuclear Medicine has proven its worth and has gained acceptance in different clinical fields such as Endocrinology, Cardio-pulmonary, Nephro-urology, and Gastroenterology.

Presently, the NKTI has taken steps to be in the forefront of Nuclear Medicine in the country. It is expanding its horizons to be in the cutting edge of the specialty and provide a broader range of diagnostic and therapeutic services. It has acquired a State-of-the-Art Nuclear Imaging System-the Millennium

VG gamma camera with the eNTEGRA workstation from GE Medical Systems.



Millennium VG breakthrough technologies provide superb image quality in all aspects of nuclear imaging - from wholebody bone scans to detailed brain images.

I. Nephro-Urology

- ✦ **Renal Scintigraphy**-for perfusion and function of native or transplant kidneys, with diuretic challenge (Furosemide), Captopril-augmented (ACE-Inhibitor) - Tc99m-DTPA or MAG3
- ✦ **Glomerular Filtration Rate Scintigraphy (GFR)** -Tc99m-DTPA
- ✦ **Renal Cortex Scintigraphy**-Tc99m-DMSA
- ✦ **Radionuclide Cystography**-Direct or Indirect
- ✦ **Testicular Scintigraphy**-Tc99m-pertechnetate

II. Cardiology

- ✦ **Myocardial Perfusion Scintigraphy**-Resting, Exercise Stress, Pharmacologic Stress (Dipyridamole /Dobutamine)-TL-201 or Tc99m-Sestamibi
- ✦ **Multiple Gated Acquisition Scintigraphy (MUGA or GCBP)**-Rest or Stress, Planar or SPECT -Tc99m-labeled RBC's (for cardiac wall motion and ejection fraction)
- ✦ **First-Pass Study (ejection fraction or L-R cardiac shunt analysis)**-Tc99m DTPA.

III. Neurology

- ✦ **Cerebral Perfusion Scintigraphy**-Tc99m-HMPAO

IV. Bone

- ✦ **Whole Body, SPECT, 3-phase**-Tc99m-HDP

V. Thyroid

- ✦ **Scan/Uptake**-Tc99m-pertechnetate, 1-131 scan
- ✦ **Radioactive Iodine Therapy**

VI. Oncology

- ✦ **Whole Body Scan**
1-131 or TL-201-for differentiated thyroid CA TL-201 or Tc99m-sestamibi-for tumor viability Ga67-for lymphoma, hepatoma, lung CA I-131-MIBG-for neuroendocrine tumors. In-111 m-octreotide-for somatostatin-receptor positive tumors
- ✦ **Scintimammography**-Tc99m-Sestamibi
- ✦ **Parathyroid Imaging**-Tc99m-Sestamibi
- ✦ **Therapy of Metastatic Bone Pain**-Sr89m

VII. Pulmonary

- ✦ **Lung Perfusion**-Tc99m-MAA
- ✦ **Lung Ventilation**-Tc99m-DTPA aerosol
- ✦ **Venography**-Tc99m-MAA or DTPA (for deep venous thrombosis)

VIII. Gastrointestinal

- ✦ **Tagged RBC Scan**-for GI bleeding localization
- ✦ **Meckels' Diverticulum Scan**-for ectopic gastric mucosa localization
- ✦ **Gastric Emptying, Esophageal Motility, GE Reflux**
- ✦ **LeVein Shunt Patency**

IX. Hepatobiliary

- ✦ **Liver/Spleen Scan**-Tc99m-Sulfur Colloid planar or SPECT
- ✦ **HIDA Scan**-Tc99m-Mebrofenin-biliary atresia, cholecystitis, bile leak
- ✦ **Hemangioma**-Tc99m-labeled RBC, SPECT
- ✦ **Spleen Imaging**-Heat-damaged RBC

