



CLINICAL INDICATIONS

CLINICAL INDICATIONS FOR GENERAL NUCLEAR MEDICINE PROCEDURES

CENTRAL NERVOUS SYSTEM

Cerebral Perfusion Scan

- Dementia
- Cerebrovascular disease
- Epilepsy
- Vascular headaches

Brain Scan

- Metastatic disease
- Cerebral infection/inflammation
- Cerebrovascular disease
- Subdural haematoma

GASTROINTESTINAL SYSTEM

Liver / Spleen Scan

- Hepatic metastasis
- Diffuse liver disease
- Trauma
- Budd-Chiari Syndrome

Red Blood Cell Liver Scan

- Hemangioma

Gastric Emptying Study

- Abnormal gastric motility
- Diabetic gastroparesis

Esophageal Transit Study

- Abnormal esophageal motility
- Scleroderma
- Diffuse esophageal spasm

Salivary Scan

- Salivary gland obstruction
- Sjogren's Syndrome
- Salivary gland tumors

Biliary Scan

- Acute cholecystitis
- Biliary obstruction
- Biliary leak

RESPIRATORY SYSTEM

Ventilation / Perfusion Lung Scan

- Pulmonary embolus

GENITOURINARY SYSTEM

Renal Scan

- Renal function of each kidney
- Renal insufficiency

Renal Scan With Lasix

- Renal obstruction

Renal Cortex Scan

- Renal infarction

Renal Scan With Captopril

- Renovascular hypertension

SKELETAL SYSTEM

Bone Scan

- Detection of fractures
- Osteoarthritis
- Skeletal metastasis
- Bone pain
- Reflex Sympathetic Dystrophy
- Osteomyelitis
- Rheumatoid arthritis or other arthritis
- Prosthesis complication
- Avascular necrosis
- Paget's disease
- Metabolic bone disease
- Elevated alkaline phosphatase
- Primary bone tumor
- Vascularity and viability of bone graft

MISCELLANEOUS

Thyroid Scan

- Hypofunctioning nodule vs Hyperfunctioning nodule
- Hypothyroidism
- Thyroid metastasis (total body scan)
- Goitre
- Hyperthyroidism
- Ectopic thyroid tissue

Parathyroid Scan

- Localization of parathyroid adenoma prior to surgical resection

White Blood Cell Scan

- Osteomyelitis
- Infections

Breast Scan (Complementary to mammography)

- Diagnosis of breast cancer
- Palpable mass but normal or equivocal mammogram
- Palpable mass but uninterpretable mammogram due to dense breast tissue, distortion of breast tissue or lumpectomy
- Assessment of multi-focal disease prior to lumpectomy
- Potential assessment for chemotherapy resistance
- Potential evaluation of axillary disease status