

**NMAA Exam Content Outline**  
**APPENDIX A - PROCEDURES LIST**

**Pulmonary**

- Radioaerosol ventilation
- Xenon ventilation
- Perfusion
- Perfusion/Ventilation quantitation

**Bone/Musculoskeletal**

- Tc99m Bone imaging
- F18 Sodium fluoride bone imaging

**Oncology**

- Ga67 tumor imaging
- Monoclonal antibody imaging
- Octreotide imaging
- Breast imaging
- Lymphoscintigraphy/sentinel lymph node localization
- Tumor imaging, F18 FDG Infection
- Ga67 infection imaging
- WBC imaging

**Renal/Genitourinary**

- Cystogram, direct
- Effective renal plasma flow (ERPF)
- Glomerular filtration rate (GFR)
- Renal cortical imaging
- Dynamic renal imaging
  - Captopril challenge
  - Furosemide challenge

**Endocrine**

- Adrenal imaging
  - I123 or I131 MIBG
- Parathyroid imaging
- Thyroid imaging

- Thyroid uptake
- Whole body imaging for thyroid cancer metastases

**Hematopoietic**

- Bone marrow imaging
- Plasma volume
- Red cell mass
- Red cell sequestration
- Red cell survival
- Spleen imaging with labeled, denatured RBCs

**Cardiovascular**

- Myocardial perfusion imaging
- Myocardial sarcoidosis
- Cardiac Amyloid Imaging
- First pass for EF and wall motion
- Gated cardiac blood pool, rest and stress
- Cardiac shunt
- Cardiac PET
- Myocardial viability
- Calcium Scoring
- Cardiac MIBG for HF

**Gastrointestinal**

- Esophageal motility/transit
- Lower Gastrointestinal motility/transit
- Gastric emptying (liquid/solid)
- Gastroesophageal reflux
- Gastrointestinal bleeding
- Hemangioma
- Hepatobiliary with or without Gall bladder ejection fraction
- Peritoneal shunt patency
- Liver-spleen imaging

- Meckel's diverticulum
- Salivary (parotid) imaging
- H. Pylori breath test

**Central Nervous System**

- Brain perfusion SPECT
- Brain death imaging
- Cisternography
  - CSF leak
  - CSF shunt patency
- Brain PET

**Radionuclide Therapy**

- Polycythemia vera/leukemia
- Thyroid carcinoma
- Hyperthyroidism
- Metastatic bone pain
- Monoclonal antibody therapy
- Embolic radiotherapy (microspheres)