

## ***SUGGESTED PRESCRIBED DOSAGE LIST***

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<b><u>PROCEDURE</u></b>	<b><u>DRUG</u></b>	<b><u>SUGGESTED DOSAGE</u></b>	
<b><i>CENTRAL NERVOUS SYSTEM</i></b>			
Brain Metabolism	<sup>18</sup> F-FDG	10-20 mCi	(370 – 740 MBq)
Brain Perfusion	<sup>99m</sup> Tc – ECD	20 mCi	(740 MBq)
	<sup>99m</sup> Tc – HMPAO	20 mCi	(740 MBq)
Cisternography	<sup>111</sup> In – DTPA	1.5 mCi	(55.5 MBq)
Ventricular Shunt	<sup>99m</sup> Tc – DTPA	1 mCi	(30 MBq)
<b><i>CARDIOVASCULAR SYSTEM</i></b>			
Angiography Brain & Peripheral	<sup>99m</sup> Tc – DTPA	25 mCi	(925 MBq)
Cardiac Blood Pool Rest	<sup>99m</sup> Tc – RBC	25 mCi	(925 MBq)
Lymphoscintigraphy	<sup>99m</sup> Tc – SC Filtered (0.1-0.2μ)	0.5-1 mCi	(18.5 – 37 MBq)
Myocardial Perfusion	<sup>13</sup> N – Ammonia	20 mCi	(740 MBq)
Myocardial Perfusion	<sup>82</sup> Rb Chloride	50 – 60 mCi	(1.85 – 2.22 GBq)
Myocardial Perfusion	<sup>99m</sup> Tc – Tetrofosmin	15 / 30 mCi	(0.555 – 1.11 GBq)
	<sup>99m</sup> Tc – Sestamibi	15 / 30 mCi	(0.555 – 1.11 GBq)
Myocardial Viability	<sup>18</sup> F – FDG	10 – 20 mCi	(370 – 740 MBq)
Perfusion & Viability	<sup>201</sup> Tl Chloride	1.5 / 3.0 mCi	(55.5 – 111 MBq)
<b><i>ENDOCRINE</i></b>			
Neuroectodermal / Norepinephrine	<sup>123</sup> I – MIBG	10 mCi	(370 MBq)
	<sup>131</sup> I – MIBG	1 mCi	(37 MBq)
Parathyroid	<sup>99m</sup> Tc – Sestamibi	25 mCi	(925 MBq)

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<b><i>ENDOCRINE Cont'd.</i></b>			
Thyroid Imaging	<sup>123</sup> I	0.5 mCi	(18.5 MBq)
Thyroid Imaging	<sup>99m</sup> Tc	5 mCi	(185 MBq)
Thyroid Metastases	<sup>123</sup> I	2 mCi	(74 MBq)
	<sup>131</sup> I	2 – 10 mCi	(74 – 370 MBq)
Thyroid Uptake	<sup>123</sup> I	0.1 mCi	(3.7 MBq)
	<sup>131</sup> I	0.01 mCi	(0.37 MBq)

### ***GASTROINTESTINAL***

Esophageal Transit	<sup>99m</sup> Tc – SC in H <sub>2</sub> O	0.3 mCi/15 ml	(11.1 MBq)
Gastric Emptying	<sup>99m</sup> Tc – SC in Oatmeal	1 mCi/Pkg	(37 MBq)
Gastro-Esophageal Reflux	<sup>99m</sup> Tc – SC in Orange Juice	0.3 mCi/300 ml	(11.1 MBq)
Gastrointestinal Bleeding	<sup>99m</sup> Tc – RBC	25 mCi	(925 MBq)
H.Pylori Breath Test	<sup>14</sup> C – Urea	0.001 mCi	(0.037 MBq)
Hepatic Artery Perfusion	<sup>99m</sup> Tc – MAA	3 mCi	(111 MBq)
Hepatic Hemangioma	<sup>99m</sup> Tc – RBC	25 mCi	(925 MBq)
Hepato – Biliary	<sup>99m</sup> Tc – IDA	6 mCi	(222 MBq)
LeVeen Shunt	<sup>99m</sup> Tc – MAA	5 mCi	(185 MBq)
	<sup>99m</sup> Tc – SC	3 mCi	(111 MBq)
Liver – Spleen	<sup>99m</sup> Tc – SC	6 mCi	(222 MBq)
Meckels Diverticulum	<sup>99m</sup> Tc	5 mCi	(185 MBq)

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<b><i>GENTOURINARY</i></b>			
Cystogram	<sup>99m</sup> Tc	1 mCi	(37 MBq)
	<sup>99m</sup> Tc – SC	1 mCi	(37 MBq)
	<sup>99m</sup> Tc – DTPA	1 mCi	(37 MBq)
Renal – DMSA	<sup>99m</sup> Tc – DMSA	5 mCi	(185 MBq)
Renal – DTPA	<sup>99m</sup> Tc – DTPA	15 mCi	(555 MBq)
Renal – MAG3	<sup>99m</sup> Tc – MAG3	10 mCi	(370 MBq)
<b><i>HEMATOLOGY</i></b>			
Bone Marrow	<sup>99m</sup> Tc – SC	15 mCi	(555 MBq)
Schilling’s Test	<sup>57</sup> Co – Vitamin B-12	0.5 – 1 mCi	(18.5 – 37 MBq)
<b><i>INFECTION</i></b>			
Gallium	<sup>67</sup> Ga – Citrate	6 – 10 mCi	(222 – 370 MBq)
WBC Activation	<sup>18</sup> F – FDG	10 – 20 mCi	(370 -740 MBq)
WBC Migration Study	<sup>99m</sup> Tc – WBC – HMPAO	10 – 25 mCi	(370 – 925 MBq)
	<sup>111</sup> In – WBC	0.5 mCi	(18.5 MBq)
<b><i>PULMONARY</i></b>			
Lung Aerosol	<sup>99m</sup> Tc – DTPA Aerosol	6 mCi to Pt.	(222 MBq)
		50-75 mCi to Nebulizer	(1.85 – 2.77 GBq)
Lung Perfusion	<sup>99m</sup> Tc – MAA	6 mCi / Xe-133	(222 MBq)
		2 mCi / before aerosol	(74 MBq)
Lung Ventilation	<sup>133</sup> Xe Gas	20 mCi	(740 MBq)

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<b><i>PULMONARY cont'd.</i></b>			
Pulmonary Aspiration	$^{99m}\text{Tc}$ – SC	0.5 mCi / 300 ml Formula	
		2 mCi / 300 ml H <sub>2</sub> O	
<b><i>SKELETAL</i></b>			
Skeletal – F-18	$^{18}\text{F}$ Chloride	10 -20 mCi	(370 – 740 MBq)
Bone Mineral Study	$^{99m}\text{Tc}$ – MDP	25 mCi	(925 MBq)
	$^{99m}\text{Tc}$ – HMDP	25 mCi	(925 MBq)
<b><i>TUMOR</i></b>			
B-Cell Lymphoma–Bexxar	$^{131}\text{I}$ – Tositumomab	5 mCi	(185 MBq)
B-Cell Lymphoma-Zevalin	$^{111}\text{In}$ – Ibritumomab Tiuxetan	5 mCi	(185 MBq)
Prostate Ca Study	$^{111}\text{In}$ – Capromab Pendetide	5 mCi	(185 MBq)
Neuroendocrine Tumor	$^{111}\text{In}$ – Pentetretotide	6 mCi	(222 MBq)
Tumor Glucose Metabolism	$^{18}\text{F}$ – FDG	10 -20 mCi	(370 – 740 MBq)
Tumor Viability	$^{201}\text{Tl}$ Chloride	5 mCi	(185 MBq)
	$^{99m}\text{Tc}$ – Sestamibi	25 mCi	(925 MBq)
	$^{99m}\text{Tc}$ – Tetrofosmin	25 mCi	(925 MBq)

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<b><u>PROCEDURE</u></b>	<b><u>DRUG</u></b>	<b><u>SUGGESTED DOSAGE</u></b>
<b><u>THERAPEUTIC Nuclear Medicine</u></b>		
<b>ENDOCRINE</b>		
Thyroid Cancer Papillo-follicular	<sup>131</sup> I	Residual Functioning Tissue Post Thyroidectomy 70–150 mCi (2.59 – 5.55 GBq)
	<sup>131</sup> I	Persistent or Recurrent Functioning Thyroid Ca 100–200 mCi(3.7 – 7.4 GBq)
Thyroid Cancer Compressive Goiter	<sup>131</sup> I	100 mCi (3.7 GBq)
Diffuse Hyperthyroidism	<sup>131</sup> I	10 – 20 mCi (370 – 740 MBq)
Nodular Hyperthyroidism	<sup>131</sup> I	15 – 35 mCi (0.555 – 1.3 GBq)

### **THERAPEUTIC Nuclear Medicine**

#### **HEMATOLOGIC**

Polycythemia Vera	<sup>32</sup> P – Sodium Solution	2.3 mCi/m <sup>2</sup> (85.1 MBq / m <sup>2</sup> )
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### **THERAPEUTIC Nuclear Medicine**

#### **INTRACAVITARY**

Fluid or Neoplasm	<sup>32</sup> P – Chromic Colloid	Pleura 10 – 15 mCi
		Peritoneum 15 - 20 mCi
		Pericardium 5 -10 mCi

### **THERAPEUTIC Nuclear Medicine**

#### **SKELETAL**

Osseous Metastases Pain	<sup>89</sup> Sr Chloride	0.04 – 0.06 mCi / kg
	<sup>153</sup> Sm – EDTMP	1.0 mCi / kg
Synoviorthesis	<sup>32</sup> P –Chromic Colloid	Knee – 1 mCi (37 MBq)
		Elbow – 0.5 mCi (18.5 MBq)

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<b><u>THERAPEUTIC Nuclear Medicine</u></b>		
<b>TUMOR</b>		
B-Cell Lymphoma	<sup>90</sup> Y – Zevalin	0.4 mCi / kg ** (>150,000 platelets/ml)
		0.3 mCi / kg ** (100K – 150K platelets/ml)
		** Not to Exceed 32 mCi
B-Cell Lymphoma	<sup>131</sup> I – Bexxar	