

Table of Adult Effective Doses for CT, Fluoroscopy, Nuclear Medicine, and Interventional Procedures

Modality or Type of Procedure	Typical Effective Radiation Dose mSv
Conventional Radiology and Fluoroscopy	
Skull	0.1
Cervical spine	0.2
Thoracic spine	1.0
Lumbar spine	1.5
Chest (2 views)	0.1
Mammography	0.4
Abdomen	0.7
Pelvis	0.6
Hip	0.7
Shoulder	0.01
Knee	0.005
Other extremities	0.001
DEXA (without CT)	0.001
DEXA (with CT)	0.04
Intravenous urography	3.0
Upper gastrointestinal series	6.0
Small bowel series	5.0
IV Pyelogram	3.0
Barium enema	8.0
Endoscopic retrograde cholangiopancreatography	4.0
CT Scans	
Head	2.0
Neck	3.0
Chest (Standard)	7.0
Chest (R/O pulmonary embolism)	15.0
Abdomen	8.0
Pelvis	6.0
Three-phase liver study	15.0

(Reference: Mettler FA, et al: *Effective Doses in Radiology and Diagnostic Nuclear Medicine: A Catalog*, Radiology 2008 248:254-263). June 2016

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Modality or Type of Procedure	Typical Effective Radiation Dose mSv
Spine	5.0
Coronary angiography	16.0
Calcium scoring	3.0
Virtual Colonoscopy	10.0
Interventional Procedures	
Head and neck angiogram	5.0
Coronary angiography (diagnostic)	7.0
Coronary angiography (angioplasty, stent, ablation)	15.0
Thoracic or pulmonary angiography	5.0
Abdominal or aortal angiography	12.0
TIPS	70.0
Pelvic vein embolization	60.0
Nuclear Medicine	
Brain (^{99m} Tc-ECD-Neurolite)	5.7
Brain (¹⁸ F-FDG)	14.1
Thyroid scan (^{99m} Tc-pertechnetate)	4.8
Parathyroid scan (^{99m} Tc-sestamibi)	6.7
Cardiac stress-rest (²⁰¹ Tl-chloride)	40.7
Cardiac rest-stress (^{99m} Tc-tetrofosmin)	11.4
Cardiac rest-stress (^{99m} Tc-sestamibi 2-day protocol)	12.8
Cardiac Ventriculography (^{99m} Tc-labeled rbc's)	7.8
Cardiac (¹⁸ F-FDG)	14.1
Lung Scan (^{99m} Tc Ventilation & Perfusion VQ)	2.2
Liver-spleen (^{99m} Tc-sulfur colloid)	2.1
Biliary Tract (^{99m} Tc-disofenin)	3.1
GI Bleeding (^{99m} Tc-labeled red blood cells)	7.8
Gastric Emptying Study (^{99m} Tc-labeled solids)	0.4
Renal (^{99m} Tc-DTPA)	1.8

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Renal (^{99m} Tc-MAG3)	2.6
Renal (^{99m} Tc-DMSA)	3.3
Bone Scan (^{99m} Tc-MDP)	6.3
Gallium 67 citrate	15
Penetreotide (¹¹¹ In)	12
White Blood Cells (^{99m} Tc)	8.1
White Blood Cells (¹¹¹ In)	6.7
Tumor (¹⁸ F-FDG)	14.1
Adult Dental Radiography Procedures	
Intraoral radiography	0.005
Panoramic radiography	0.01
Dental CT	0.2