Effective radiation dose in adults

Here are some effective radiation doses in adults for several radiology procedures described. These values can vary greatly, depending on the size of the patient and the type of imaging technology being used. Manufacturers of imaging technology continue to make improvements towards reducing radiation exposure while maintaining image quality. 1mSv = 100 mrem

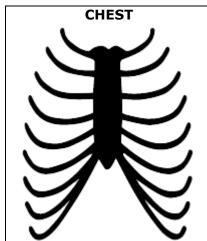
| ABDOMINAL REGION | Procedure | Approximate effective radiation dose |
|------------------|--|--------------------------------------|
| | Computed Tomography (CT)-Abdomen and Pelvis | 7.7 mSv |
| | Computed Tomography (CT)-Abdomen and Pelvis, repeated with and without contrast material | 15.4 mSv |
| | Computed Tomography (CT)-Colonography | 6 mSv |
| | Intravenous Urography (IVU) | 3 mSv |
| | Barium Enema (Lower GI X-ray) | 6 mSv |
| | Upper GI Study with Barium | 6 mSv |

| BONE | Procedure | Approximate effective radiation dose |
|------|---------------------------------------|--------------------------------------|
| | Lumbar Spine | 1.4 mSv |
| | Extremity (hand, foot, etc.) X-ray | Less than 0.001 mSv |
| | | |

| CENTRAL NERVOUS SYSTEM | Procedure | Approximate effective radiation dose |
|---------------------------|--------------------------------|--------------------------------------|
| | Computed Tomography (CT)-Brain | 1.6 mSv |

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| Computed Tomography (CT)-Brain, repeated with and without contrast material | 3.2 mSv |
|---|---------|
| Computed Tomography (CT)-Head and Neck | 1.2 mSv |
| Computed Tomography (CT)-Spine | 8.8 mSv |

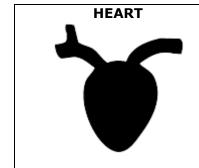


DENTAL

| Procedure | Approximate effective radiation dose |
|--|--------------------------------------|
| Computed Tomography (CT)-Chest | 6.1 mSv |
| Computed Tomography (CT)-Lung Cancer Screening | 1.5 mSv |
| Chest X-ray | 0.1 mSv |

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| Procedure | Approximate effective radiation dose |
|-----------------|--------------------------------------|
| Dental X-ray | 0.005 mSv |
| Panoramic X-ray | 0.025 mSv |
| Cone Beam CT | 0.18 mSv |



| Procedure | Approximate effective radiation dose |
|------------------------|--------------------------------------|
| Coronary Computed | 8.7 mSv |
| Tomography Angiography | |
| (CTA) | |
| Cardiac CT for Calcium | 1.7 mSv |
| Scoring | |
| Non-Cardiac Computed | 5.1 mSv |
| Tomography Angiography | |
| (CTA) | |

| NUCLEAR MEDICINE | Procedure | Approximate effective radiation dose |
|------------------|--|--------------------------------------|
| | Positron Emission Tomography–Computed Tomography (PET/CT) Whole body protocol | 22.7 mSv |

| MEN'S IMAGING | Procedure | Approximate effective radiation dose |
|---------------|--------------------------|--------------------------------------|
| Ť | Bone Densitometry (DEXA) | 0.001 mSv |

| WOMEN'S IMAGING | Procedure | Approximate effective radiation dose |
|-----------------|---|--------------------------------------|
| _ | Bone Densitometry (DEXA) | 0.001 mSv |
| | Screening Digital Mammography | 0.21 mSv |
| | Screening Digital Breast Tomosynthesis (3D Mammogram) | 0.27 mSv |