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## RADIATION PHYSICS AND SOURCES OF RADIATION

Diana Adlien è Kaunas University Of Technology,  
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Stanford ...Jul 14, 2012 · • Chest X-ray 0.02 MSv •

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Radiation ~ 3.6 MSv CT Dose Of 15mSv ~ 750 Chest X-  
rays ~ 4 Years Backgr. ~ 0.15% Cancer (incl. Non-

fatal) C. McCollough, MDCT Course 2003 San Francisco

MDCT Radiation Dose Typical Effective Dose Values •

Head CT 1-2 MSv • Jan 21th, 2024.

Discovery Of Radiation And Radiation Safety-MTThe

Electrons Orbit The Nucleus. The Number Of Protons In  
The Nucleus Determines What Material (element) The

Atom Is. Isotopes - While All Atoms Of The Same

Element Have The Same Number Of Protons, It Is

Possible For Atoms Of One Element To Have Different

Numbers Of Neutrons. Atoms Of The Same Element

With Different Numbers Of Neutrons Are Mar 8th,

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Radiation ...X-ray Tube Collimator X-ray Detector

Sheets Of Lead Or Aluminium, Etc. Radiation Protection

Shielding Attenuation Is Its Reduction Due To The

Absorption And Scattering Of Some Of The Photons Out

Of The Beam  $I =$  Intensity Of Beam  $I_0 =$  Intensity Of

Beam With No Attenuator  $X =$  Thickness Of Attenuator

$\mu$  = Linear Attenuation Coefficient. Feb 2th, 2024  
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10MeV 10 10 0.022 1 10 // // 14 13 14 3 4 2 2 16  
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