

The dose rate at 80 cm from a gamma source is 600 $\mu\text{Sv/h}$. The distance (in meter) at which the dose rate from this source becomes 20 $\mu\text{Sv/h}$ is:

- 1.20
- 2.09
- 4.40
- 19.2

The appropriate test to determine if an x-ray machine has adequate filtration is to measure the:

- Exposure output (mR/mAs).
- HVL.
- KV.
- Patient exposure.

The most likely form of x-ray absorption in a tissue at an energy of 200 keV is:

- Compton scattering
- Photoelectric effect
- Pair production
- Pair annihilation