



# RADIATION PROTECTION

Vizle



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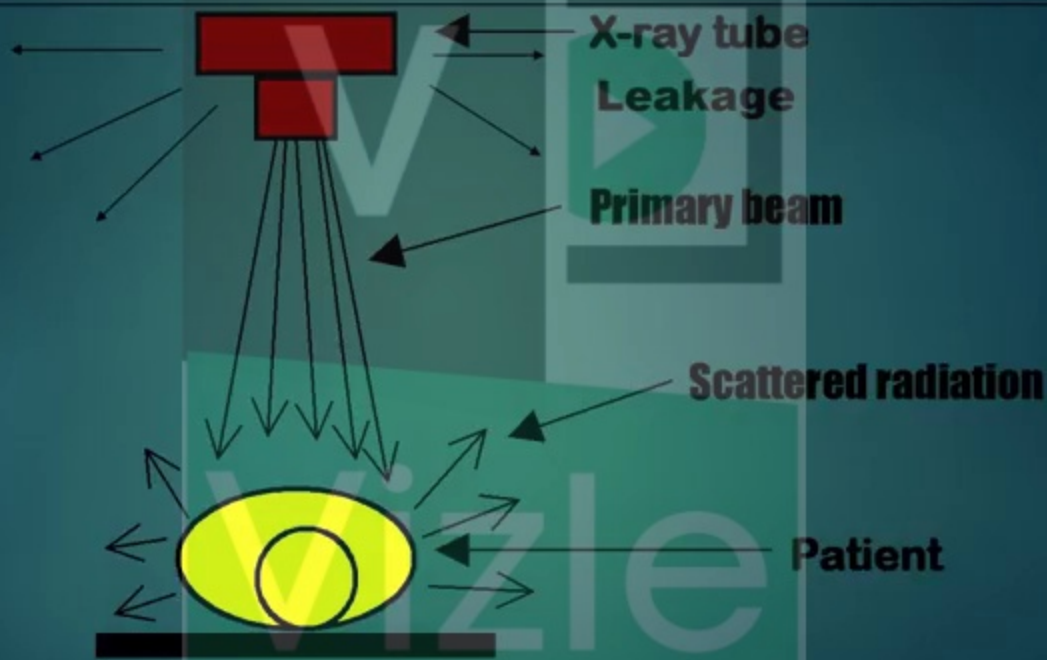
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# Radiation emitted by the X Ray tube



# (1) X-RAY TUBE SHIELDING

- The x-ray tube housing is lined with thin sheets of lead because x-rays produced in the tube are scattered in all directions
- it protects both patients and worker from leakage radiation.



# SHIELDING OF THE CONTROL ROOM

- The control room is a **secondary** protective barrier and has two important aspects:
- The walls and viewing window of the control booth, should have lead equivalents of **1.5mm**.
- The location of control booth, should not be located where the primary beam falls directly, and the radiation should be scattered **twice** before entering the booth

**Dose limits to skin,  
hands, feet (mSv/yr.)**

**Dose limits to lens  
of eye (mSv/yr.)**

ICRP	500	150
NCRP	500	150
AERB	500	150



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