The Textbook was Wrong! The X-ray Tube Does Contribute Substantially to Occupational Radiation Dose during Fluoroscopy

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**Goal:** Minimize radiation dose to levels “As Low As Reasonably Achievable (ALARA)”

**Current knowledge:** Scatter from patient is the primary source of occupational radiation dose
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Radiation protection practices based on current knowledge

The results from our experiment showed that X-ray tube scatter contributed anywhere between 20-60% of total occupational dose
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**Solution:** Line the X-ray tube cover with lead

**Result:** Reduction in X-ray tube scatter by 50%

**Goal:** Minimize radiation to physicians using ALARA levels

**New Knowledge:** We need to modify radiation protection practices to acknowledge scatter from the X-ray tube.