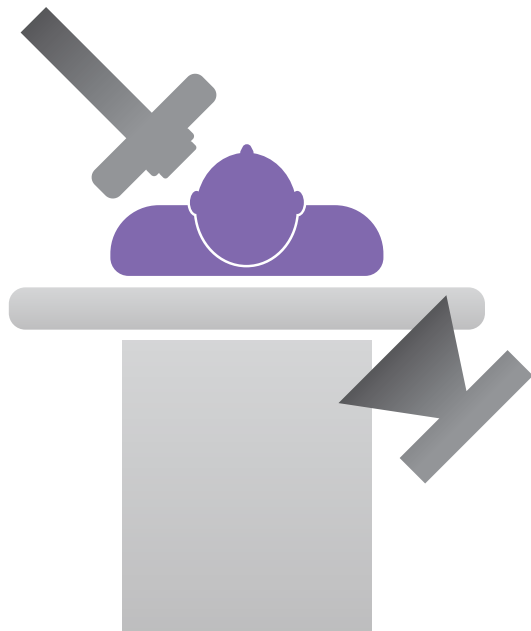


# Adjust. Check. Learn.

Learn how machine settings affect your radiation exposure.

Radiation exposure from X-ray machines can be reduced in several different ways. Test it yourself by watching your exposure in real time.



## 1. Reduce Angulations

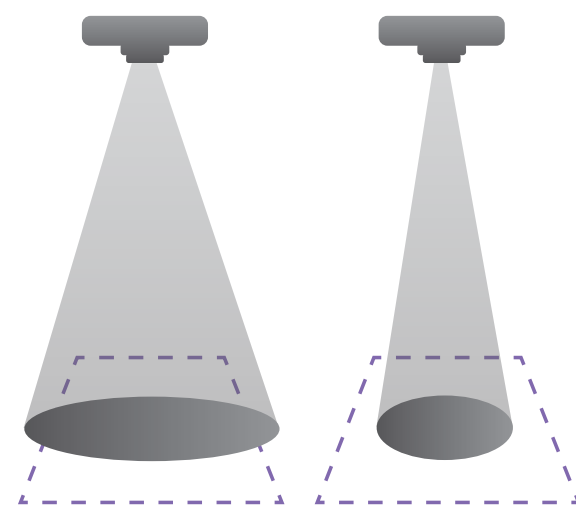
- Minimizing the distance between the image sensor and the patient reduces radiation scatter
- LAO views and steep angulations increase exposure but may improve visualization<sup>1</sup>
- 60° angulations can have 3x the exposure of 30° angulations<sup>1</sup>

1. Beston S, Efstathopoulos EP, Katritsis D, Faulkner K, Panayiotakis G. Patient Radiation doses during cardiac catheterization procedures. Br.J. Radiol. 1998 Jun;71 (846):634-9



## 2. Reduce Frames Per Second

A common setting for interventional procedures is 15 fps. Reduce it to 7.5 fps to decrease radiation exposure. It may affect image quality but there may be times it can be done without compromising your work.



## 3. Use Collimation

Collimation reduces the amount of radiation being emitted, minimizing patient exposure and scatter. Using an open beam results in more scattered radiation impacting the staff in the room.

The i3 Real-time dosimeter allows you to see live dose rate, and changes, immediately. Watch the display to see what happens when you adjust the X-ray machine settings. The RaySafe i3:

- Measures dose exposure with 1 second resolution to give real-time feedback
- Keep track of accumulated dose history for up to 10 years down to the second
- Wireless connection for real time feedback on screen and automatic read out
- Colored paper inlays with space for name to personalize

Visit our website to watch videos, learn more about the risks of radiation exposure and see how the RaySafe i3 can help you now.

[www.RaySafe.com](http://www.RaySafe.com)

