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**American Association of Physicists
in Medicine (AAPM)**

<https://www.aapm.org>

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<https://www.theabr.org>

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<https://www.acr.org>

**American Society of Radiologic Tech-
nologists (ASRT)**

<https://www.asrt.org>

Image Gently

<https://www.imagegently.org>

Society for Pediatric Radiology (SPR)

<https://www.pedrad.org>

Additional Resources

**The American Association of
Physicists in Medicine:
Communicating Advances in Radiation
Education for Shielding (CARES)**

<https://www.aapm.org/CARES>

British Institute of Radiology

<https://www.bir.org.uk>

**{ Safe
Imaging }** *we do that here.*



Northwestern Medical Center

Diagnostic Imaging:

**Why shielding
is no longer
recommended**

If you have any questions or concerns
about your imaging exam,
do not hesitate to contact us.

Diagnostic Imaging

Northwestern Medical Center

802-524-1058

www.NorthwesternMedicalCenter.org

Where's the Lead Apron?

You may notice that NMC no longer shields patients' organs during imaging exams. Based on over 70 years of research, medical experts now know that the one of the best ways to keep patients safe during imaging exams is not to use shields.

This brochure gives you information about why shielding is no longer recommended.



Background

In the 1950s, medical experts had less knowledge about how the X-ray radiation used in medical imaging affected our bodies.

One concern was that the radiation might damage cells that could be passed along to future generations. Because of this concern, lead shields were often placed over patients' bodies during imaging exams.

We now know shields are not necessary for safe imaging.

The amount of radiation used in healthcare imaging has decreased over 95 percent since the 1950s. Better technology means that today's medical imaging equipment can make high-quality images using only very small amounts of radiation.

Scientists found that our organs are much less sensitive to radiation than previously thought. This is true for patients of all ages.

Shields can cover up parts of the body that your doctor needs to see. If this happens, then the exam may need to be repeated.



Shields can interfere with other dose-saving features. X-ray equipment includes technology that makes sure just the right amount of radiation is used for the exam. Sometimes a shield can interfere with this technology, which can actually increase the amount of radiation from the exam.