

# X-Ray Technician Safety Infographic



## Body Imaging Breakdown

Methods radiologists use to see what's happening inside your body.



### X-Rays

- Send electromagnetic radiation through the body, which is absorbed differently based on tissue density.
- Create a 2-D image of the inside of the body.
- Commonly used to look at bones for fractures, or the chest for infections or other problems, like fluid.
- Require patient to wear lead shield to protect the rest of the body from radiation.



### Ultrasound

- Sends high-frequency soundwaves through the body that are reflected differently depending on tissue density.
- Creates a moving 3-D image to show how organs and fluids are moving.
- Commonly used during pregnancy to view fetus, or to look at abdominal organs.
- Can be used on the heart (echocardiogram) to see how blood is moving.
- Involves a wand-like instrument called a transducer, and a water-based gel applied to the skin.



**Source:** <https://www.nm.org>