

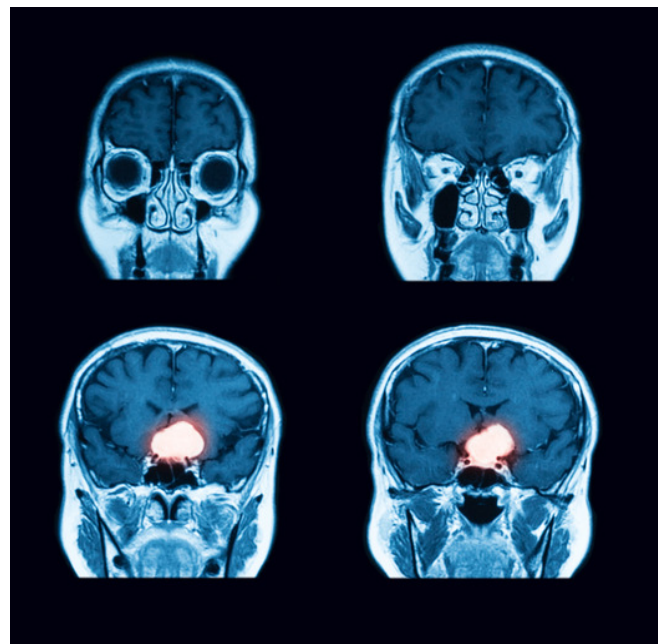
Daniel the Radiologist: Learning About the Body

Meet Daniel!

Hey there! My name is Daniel, and I am a radiologist. I am a doctor that uses imaging machines to look at the body under the skin.



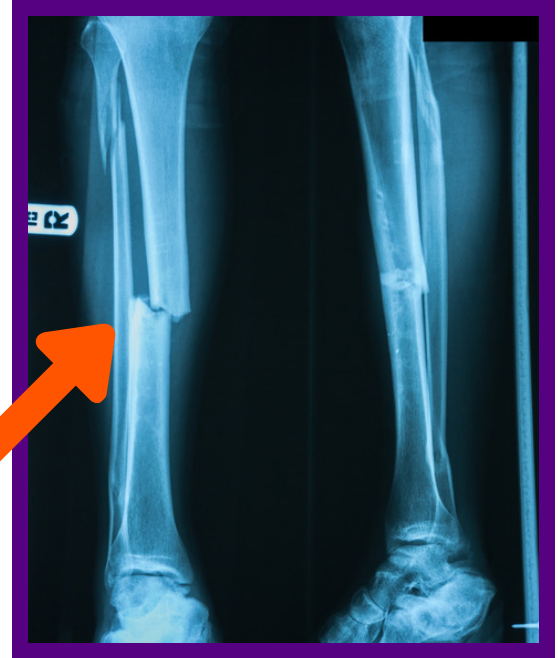
Imaging machines take pictures of body parts inside of the body, such as bones, muscles, and hearts. I use many different kinds of imaging machines. One machine, called an MRI machine, can show what the stomach or brain looks like.



Why I Became a Radiologist

When I was a kid, I broke my leg. I remember going to the hospital and getting an x-ray of my bones. I thought the x-ray of my bones was so cool! I had never seen something inside of my body before. I asked the doctor if I could keep it.

My Broken Bone



I also remember thinking about how nice and smart my doctor was. When I broke my leg, I was so scared, and my doctor made me feel safe. He explained that I would wear a cast until the bone healed.



Technology I am Using Today

Today, I am using a machine called a fluoroscope. A fluoroscope takes a video of inside your body. How cool is that?

The machine works by changing one type of energy into another. The fluoroscope changes electric energy into x-ray energy, which produces the images I can see.

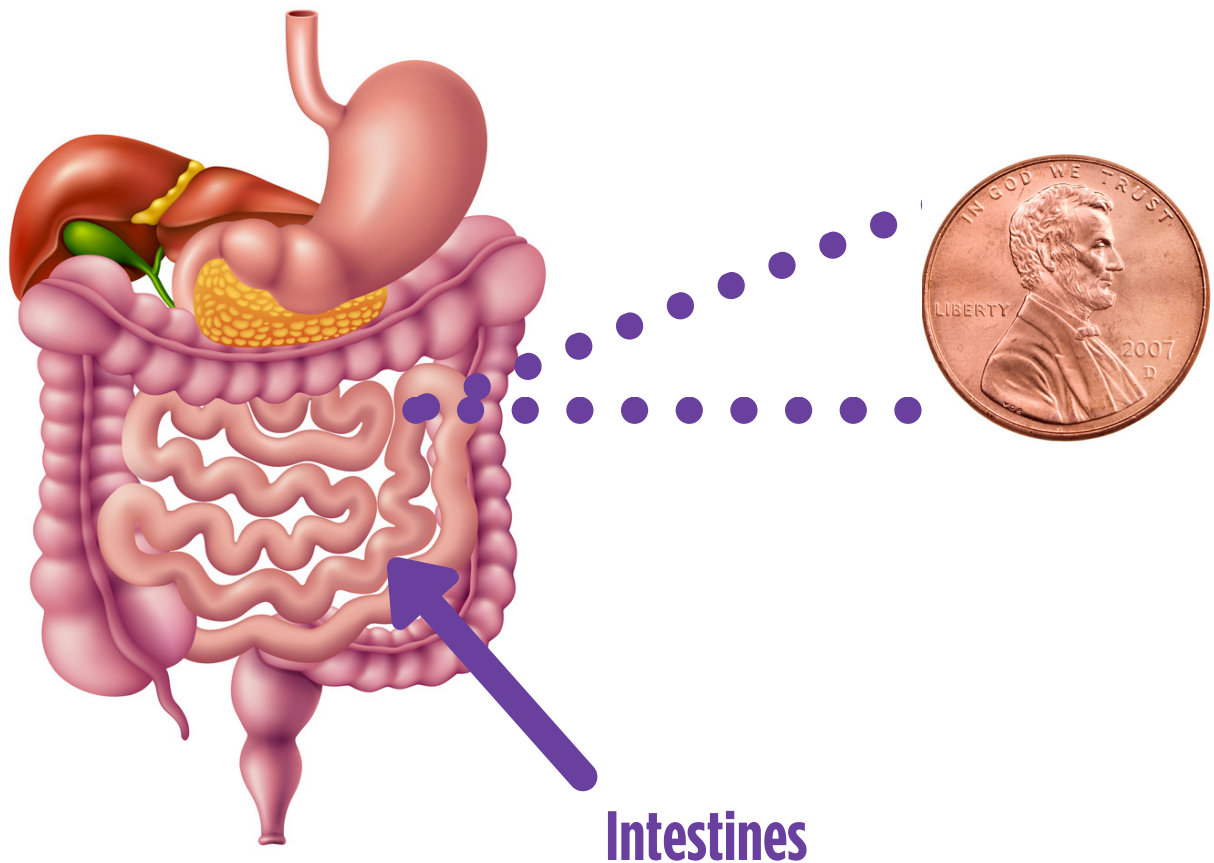


A fluoroscope is made up of three main parts:

- 1 An x-ray tube:** This part turns electric energy into x-ray energy.
- 2 An image magnifier:** This part sends the x-rays from the person to the video screen.
- 3 Video screen:** This shows the images of the person's insides so I can see what is happening.

Working with a Patient

Today, I am helping a child who swallowed a penny. Most of the time, pennies will come out when you go to the bathroom (number 2). But, they can sometimes get stuck in the intestines. The intestines are tubes that move food and waste from your stomach to the outside of your body. If the penny is stuck, I need to perform surgery and take the penny out. Today, I am going to use a fluoroscope to see if the penny is still inside the child. Then, I will look to see if the penny is stuck or not.

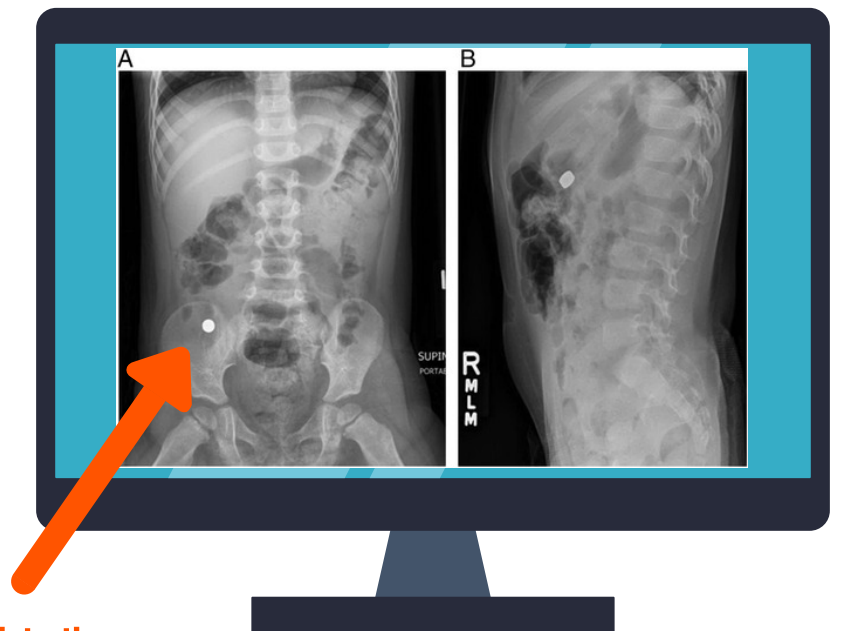


Using the Fluoroscope

It's time to follow that penny! I plug the fluoroscope into the wall outlet. The fluoroscope needs electricity to work! Then, I have the patient lay on a special table next to the fluoroscope. I turn on the machine, and it converts the electric energy into x-ray energy. Then I can start to see the video on the screen.



I find the penny in the intestines. Good news! I can see it moving smoothly through the child's intestines. This means the penny is going to come out just fine. No surgery is needed! My patient and her family are happy to hear the news!

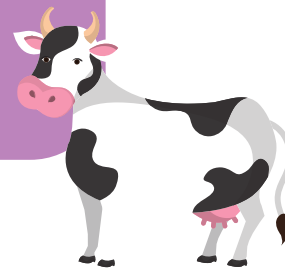


Penny in the child's intestines

Did you Know?



Did you know that there are radiologists that work specifically with animals?



They are called veterinarian radiologists! Some veterinarian radiologists work only with small animals, like birds and cats. Others work only with large animals, like cows, horses, lions, and elephants! All veterinarian radiologists use imaging machines to see the insides of animals!

