



# Introduction to Radiology

## IBD Education Day

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# Radiology and IBD

- Several imaging tests can be done
- Images can: diagnose, plan treatments, or assess treatments
- Some tests include:
  - X-rays
  - MRI
  - Ultrasound



# Child Life Specialists

- Dedicated radiology child life specialists help provide strategies for your child to prepare for and cope with their radiology procedure
- age-appropriate and therapeutic play, preparation, coping skills education, distraction, emotional support and much more
- Before, during and after imaging
  - Child friendly cartoon videos
  - Listen to common MRI sounds ahead of time
  - Xray slide show
  - Coping guides



# Child Life

- Cartoon videos to prepare for imaging

The image shows a YouTube video player interface. The video title is "Getting an MRI: A Cartoon for Kids" and it is from the channel "The Children's Hospital of Philadelphia". The video content is a 3D cartoon showing a boy and a girl in a grassy yard with a wooden fence. The boy is holding a red helmet and a small dog, and the girl is looking at him. The video player includes a progress bar at 0:29 / 4:00, a volume icon, and a "Watch later" button. A small inset video in the bottom left corner shows a girl lying on an MRI table with a nurse standing by.

# MRI Sounds

## What does an MRI sound like?

Scroll through the tracks below to play recordings of **two common MRI sounds**.



The image shows a SoundCloud player interface. At the top left is a blue square with the 'CH' logo. To its right is a red play button icon, followed by the text 'Children's Hosp of Phila' and 'MRI Track 1'. In the top right corner, there is a 'SOUNDCLOUD' logo and a 'Share' button. Below the text is a grey waveform representing the audio track. To the right of the waveform, a black box displays '0:31'. Below the waveform, there is a play button icon and the number '550'. Below the main player area, there is a list of tracks. The first track is 'Children's Hosp of Phila - MRI Track 1' with a play button icon and the number '550'. The second track is 'Children's Hosp of Phila - MRI Track 2' with a play button icon and the number '506'. At the bottom center of the player area, there is a small SoundCloud logo.

# Kid Friendly Slide Show

## Getting an X-Ray



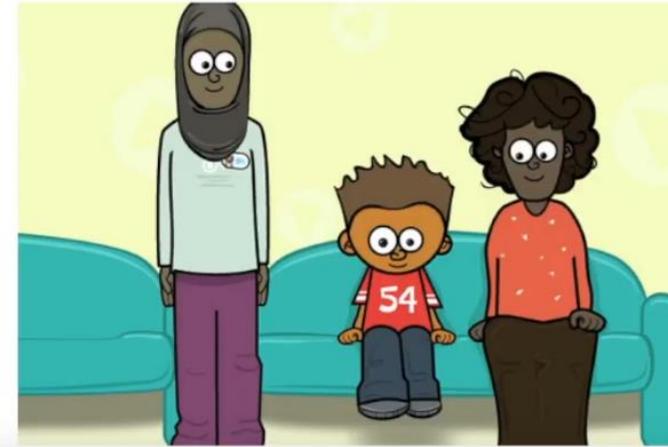
Play (k)

GETTING AN X-RAY

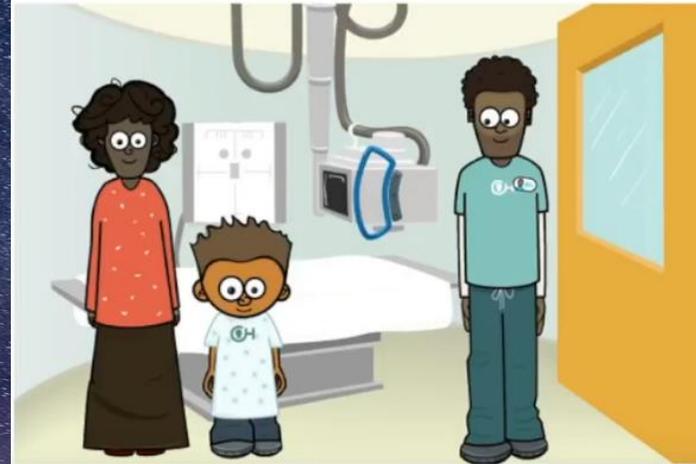


Today I will get an X-ray. An X-ray is a picture of the inside of my body.

## GETTING AN X-RAY



I will have to wait before my X-ray picture. I will try to sit calmly. A hospital helper will take me and my family to the X-ray room. The hospital helper will tell me what will happen. I will not be surprised.



The X-ray room has big machines. These machines take pictures of the inside of my body. It will not hurt. It will be okay.

# Radiology and IBD



- We have a pretend MRI scanner in our outpatient center.
- If you would like to go to the pretend scanner first, call the radiology child life team

267-426-7020

[radiologychildlife@email.chop.edu](mailto:radiologychildlife@email.chop.edu)

# Tips from our Child Life Specialists

## Helping Your Child Cope with Radiology Procedures



Hospitalization and medical procedures can be very stressful for children of all ages. These strategies can help your child prepare for and cope with their radiology procedure and overall hospital experience.

[Radiology child life specialists](#) are also available to help your child prepare for medical procedures. We use age-appropriate language and teaching materials, including dolls, photo books and real medical equipment.

### Help your child prepare

Research indicates that children who are prepared for a procedure or healthcare experience recover faster from the procedure and are less anxious than children who are not prepared.

You can help your child prepare by familiarizing yourself with what will happen before, during and after a test or procedure. Then you can let your child know what to expect.

# Types of Images

# MRI

- Strong magnets produce detailed images inside the body
- Patients lay down inside the tube during the scan
- You can use an MRI to scan any part of the body – for kids with IBD, we scan the abdomen and pelvis



# MRI

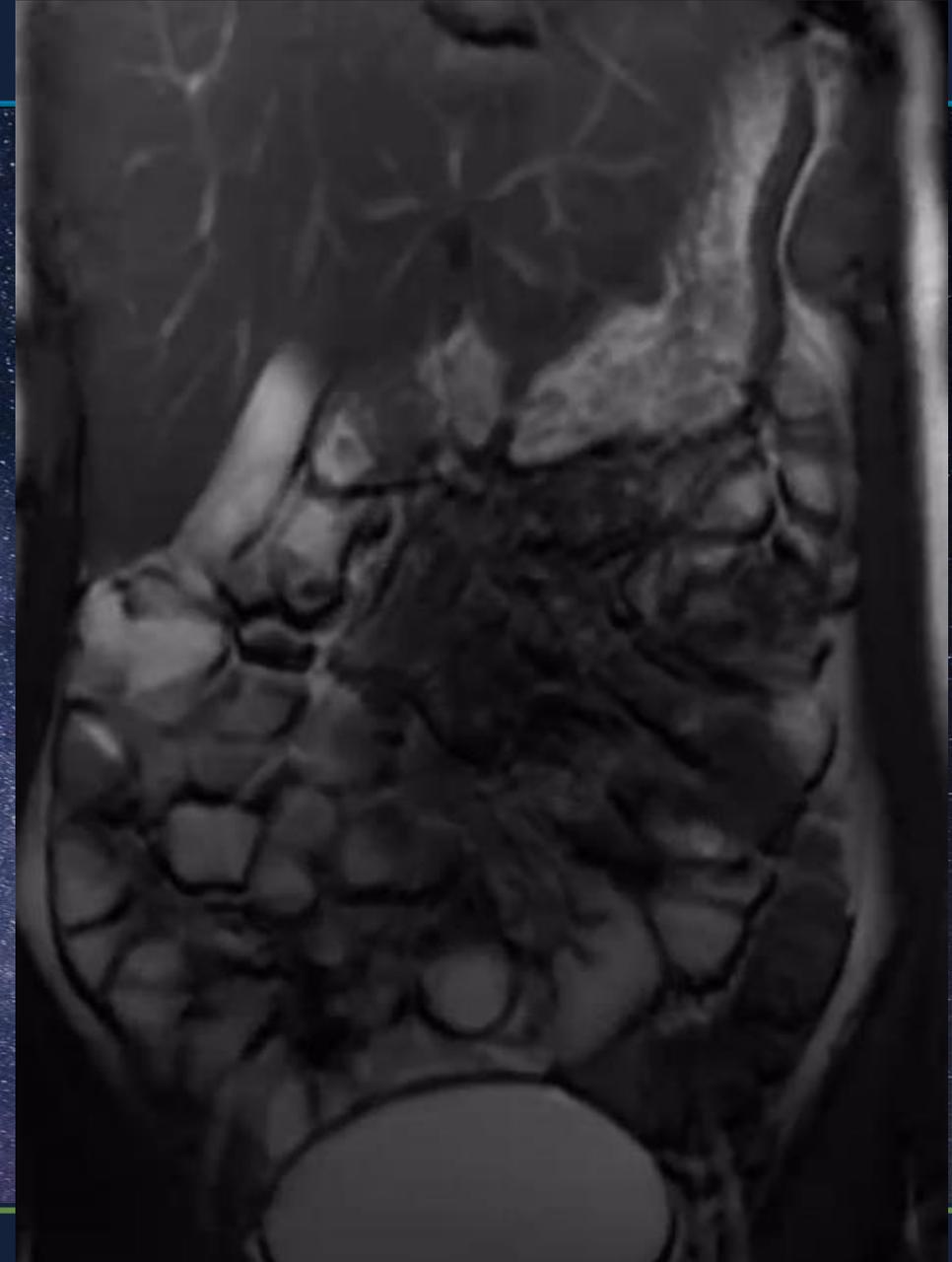
- A technologist will help you lie down head first in the scanner. You will be able to talk to the technologist through an intercom and they will be watching you through a window!
- When the MRI makes loud tapping noises, Those are the magnets in the machine turning on and off. – you can wear earplugs or even watch a movie.





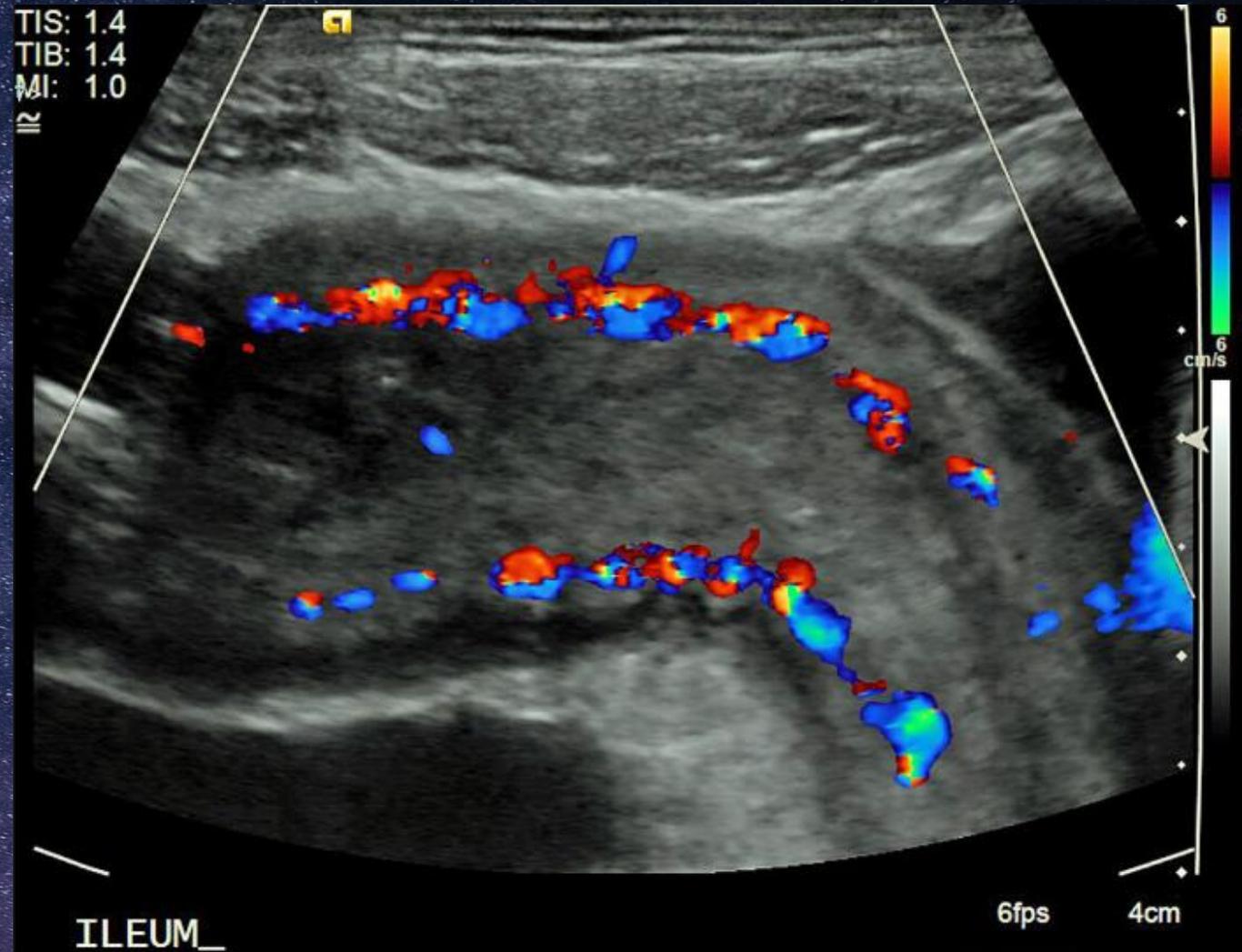
# MRI

- IV contrast will also be given, and a drug may be given to decrease movement of the bowel.
- Tell your doctor about any health problems, recent surgeries or allergies



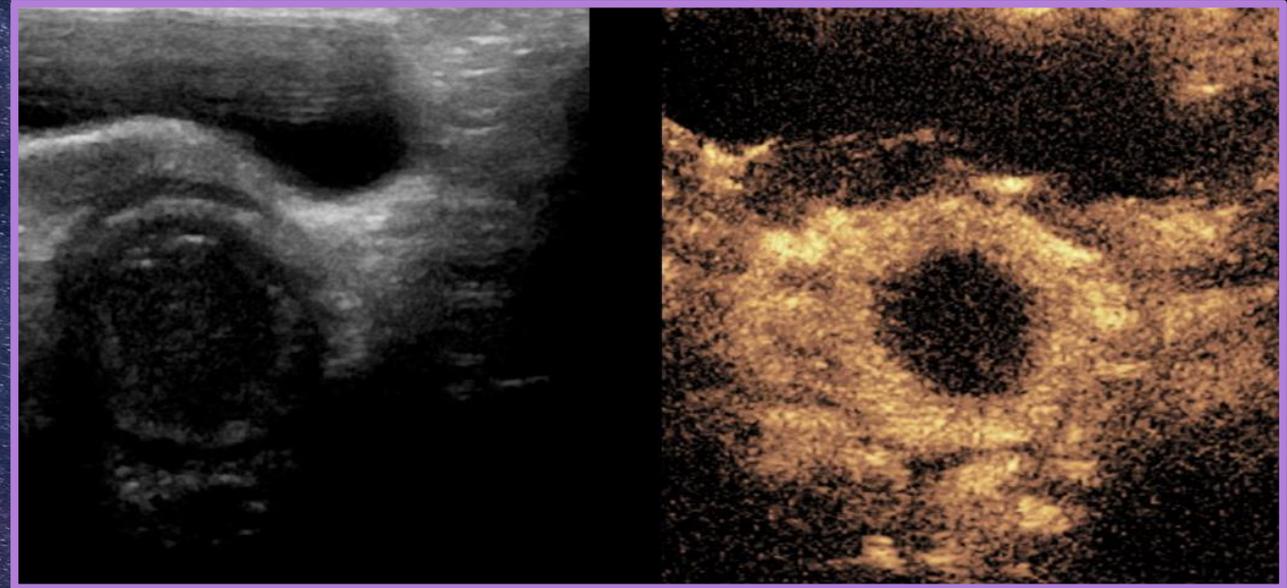
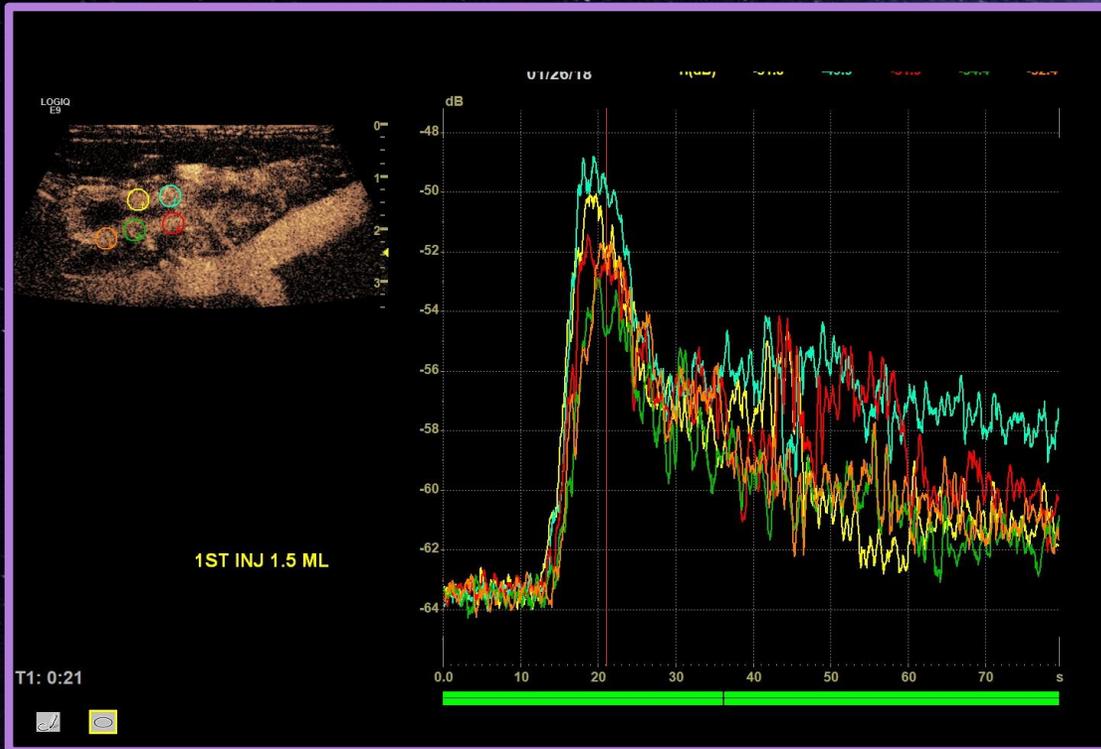
# Ultrasound

- Ultrasound imaging uses sound waves to produce pictures of the inside of the body
- Requires almost no preparation!
- We ask you to drink non-carbonated fluid 30 mins before the ultrasound



# Ultrasound

- Exam time takes about 15-30 mins without IV contrast
- If you get IV contrast, it will be closer to 60 mins total



# TRY IT FOR YOURSELF!

- We have a table with contrast agents and an ultrasound machine, so you can try it out for yourself right here today!



Sudha A. Anupindi,  
MD, FSAR



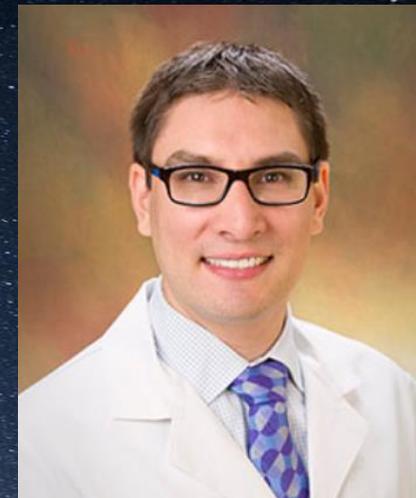
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Come by our booth and chat! We are happy to answer any questions

