



No evidence of acute job loss: Why AI isn't going to replace radiologists

Sharon W Gould, MD

What is a radiologist?



RADIOLOGIST



What my family thinks I do



What society thinks I do



What the ER intern thinks I do



What the surgeons think I do



What I think I do

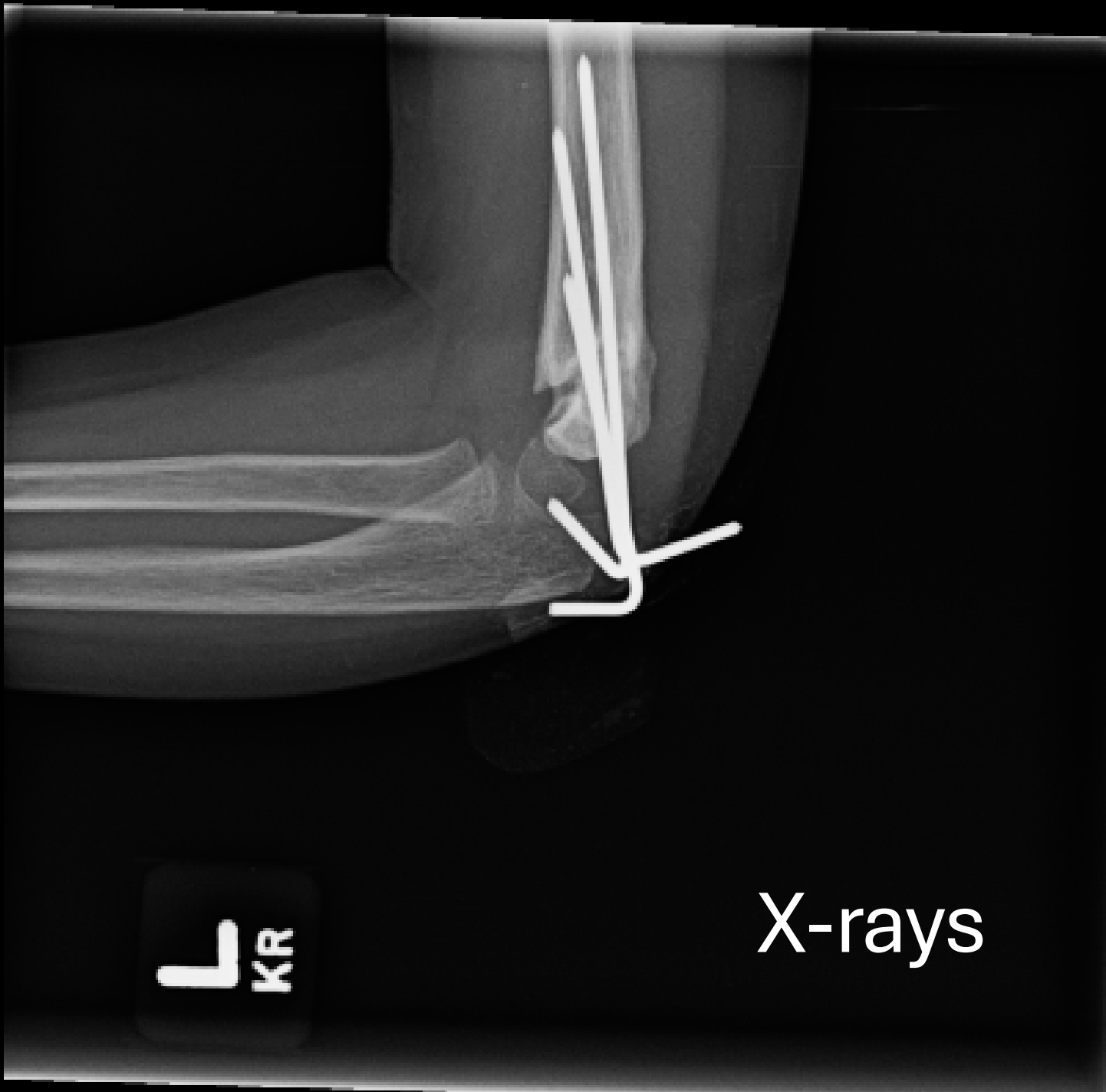


What I actually do

MSF
└



KR
└



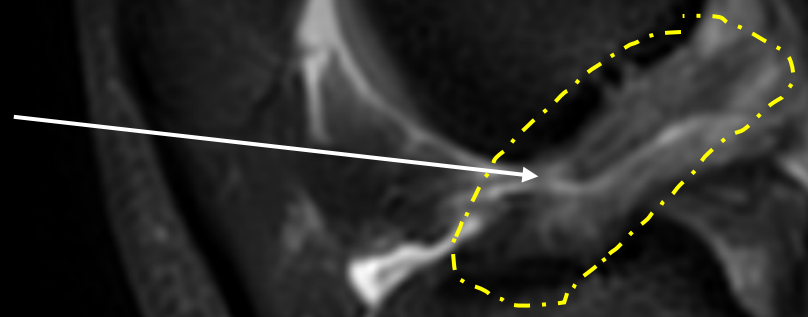
X-rays

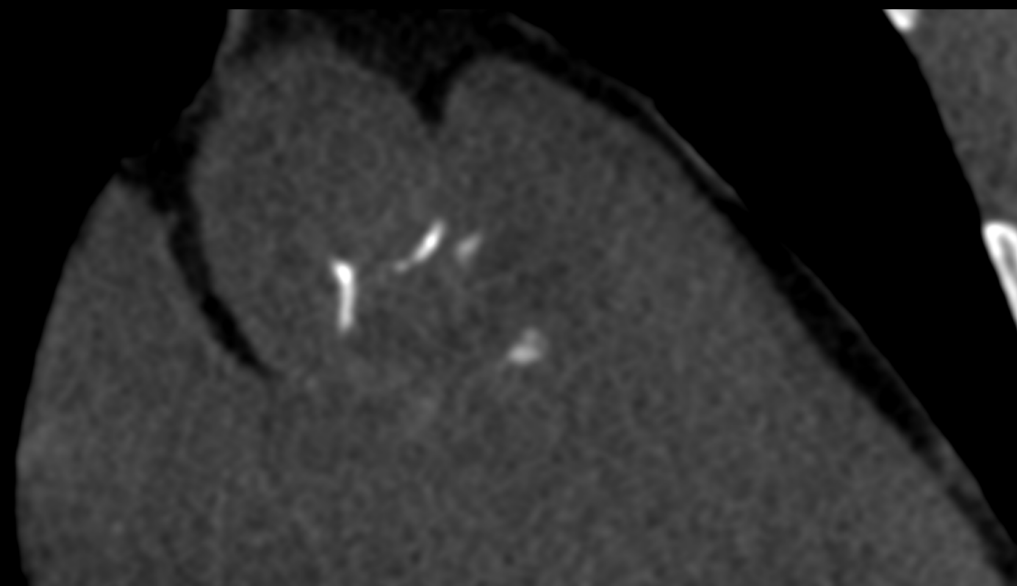
MRI

FEMUR

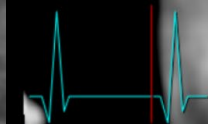
PATELLA

TIBIA



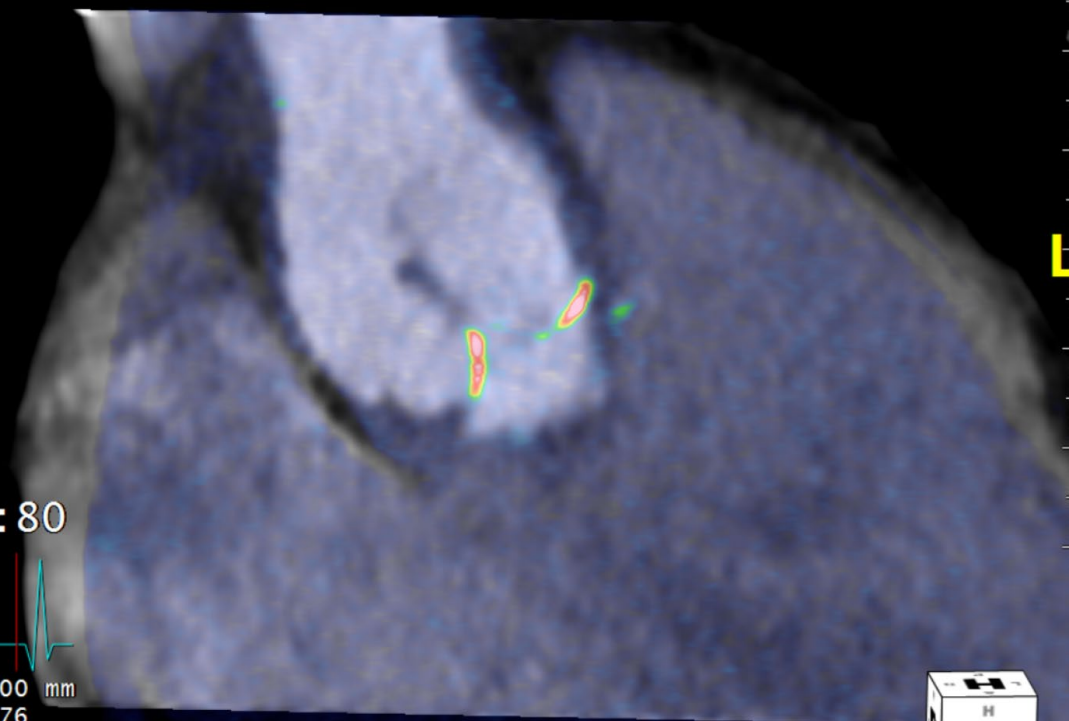


%R-R: 80

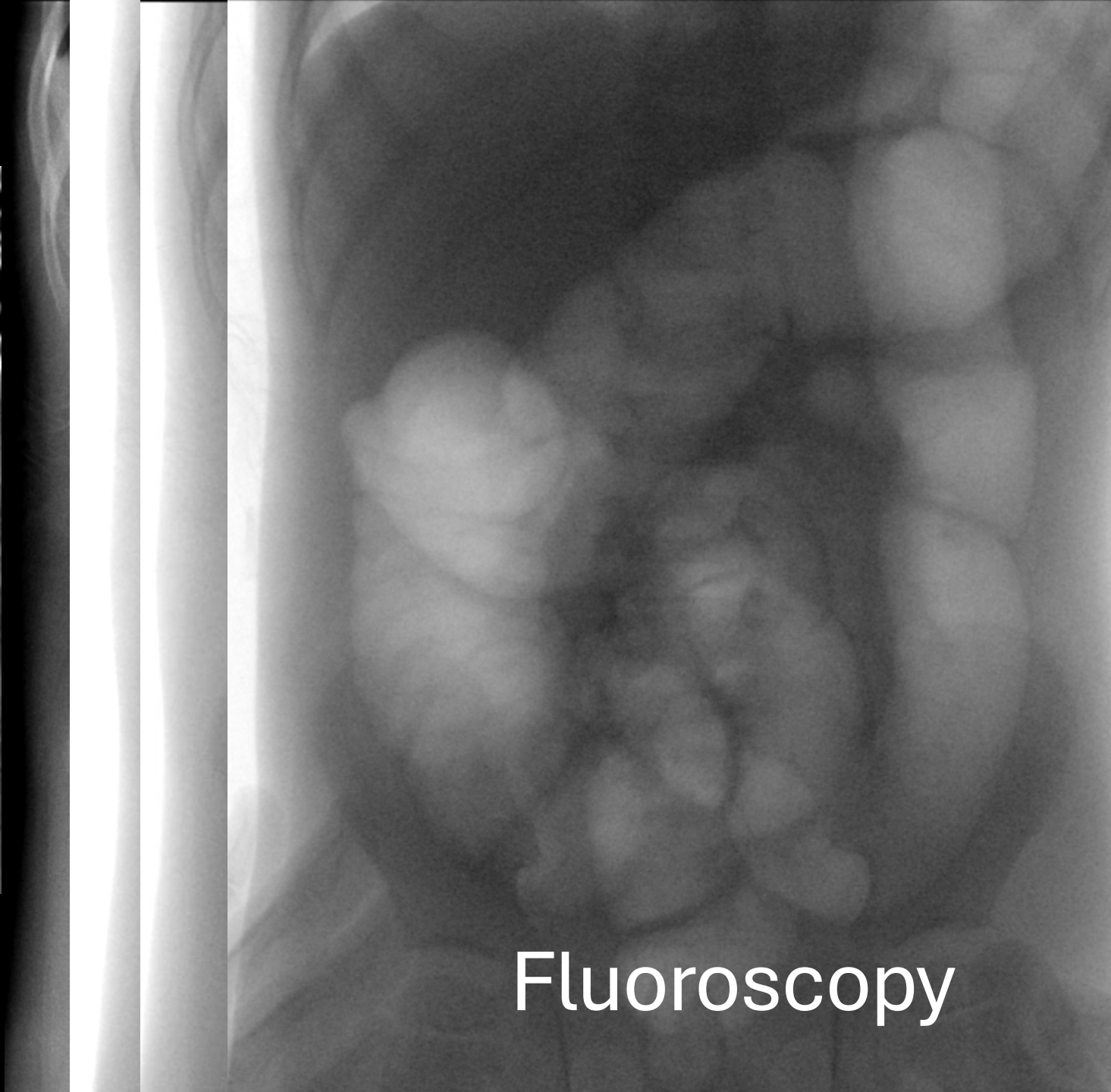
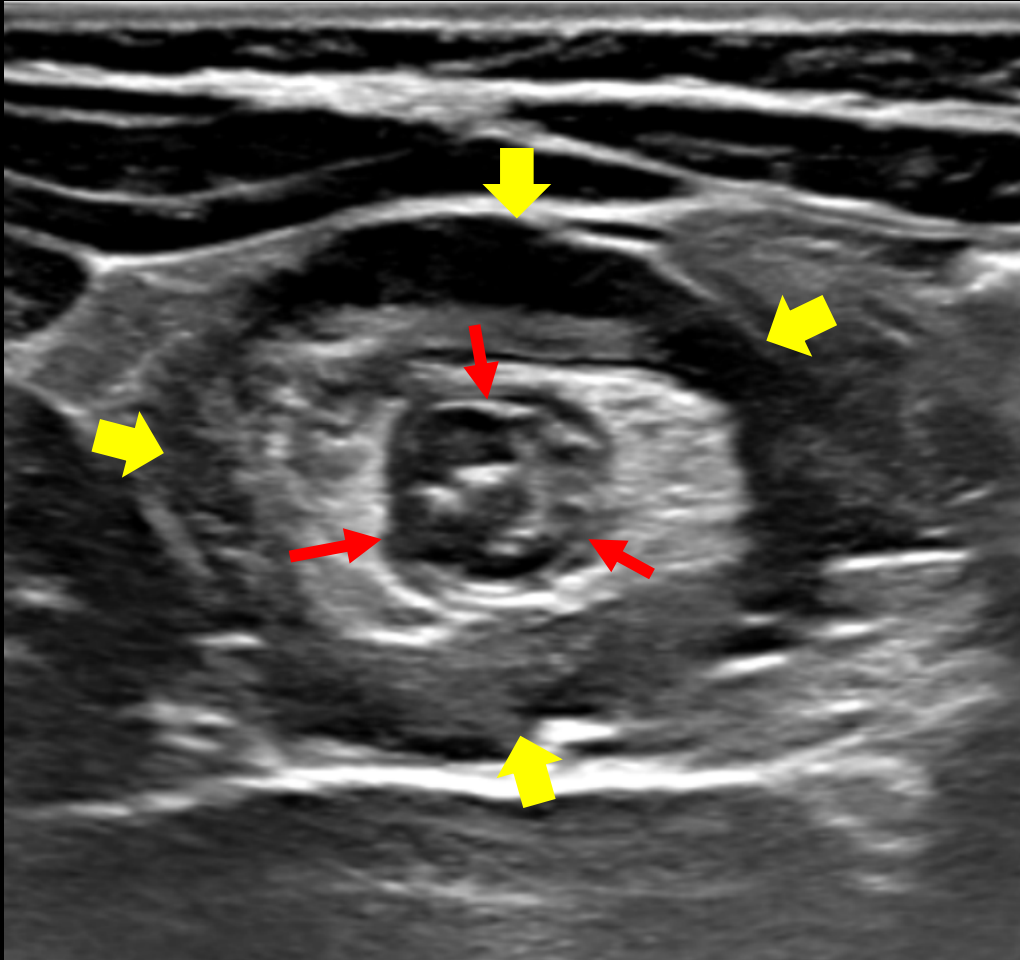


FOV: 146.00 mm

71 hr TP80PC0876

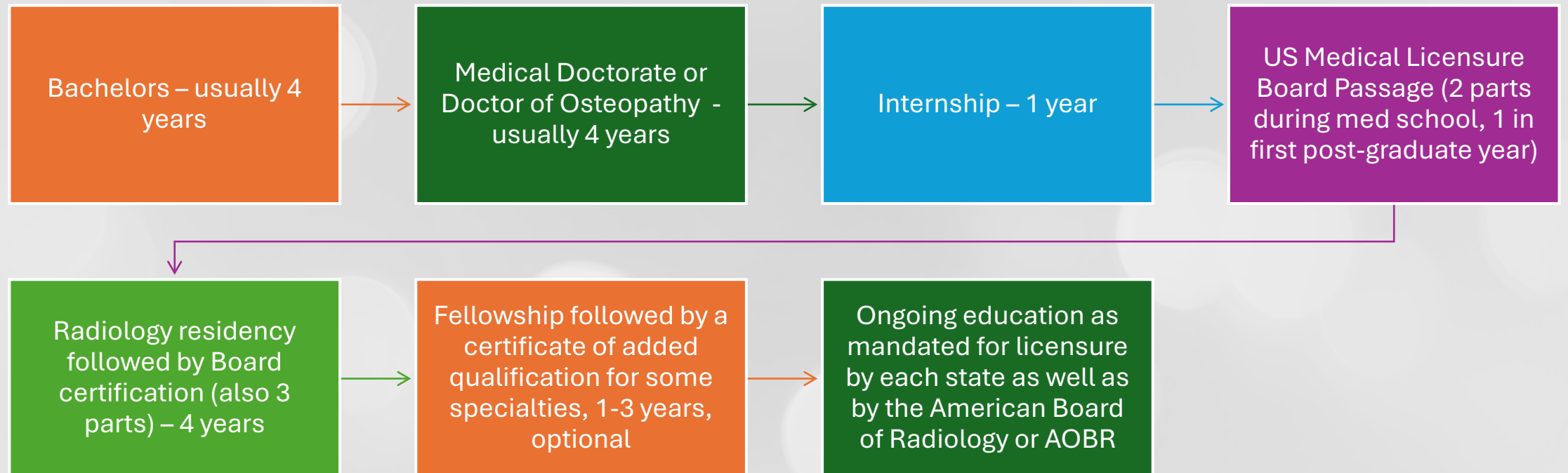


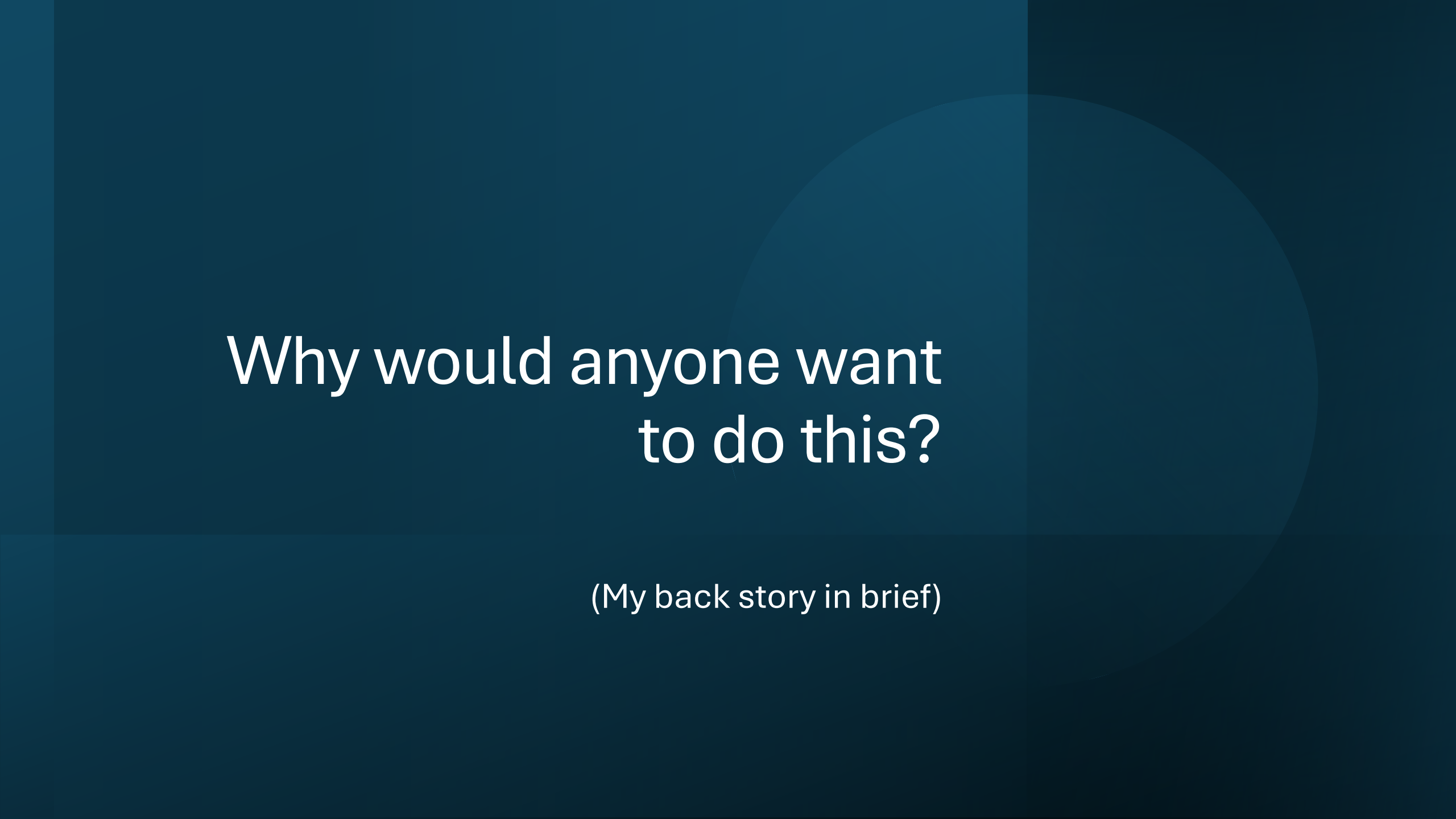
Ultrasound



Fluoroscopy

Pathway (for US medical graduates)





Why would anyone want to do this?

(My back story in brief)

Radiology is the best!

We are in everyone's
business!

(Touches on all fields of
medicine-even
dermatology)

Really cool toys

Yes, we do have patient
contact

We are not only helping
patients, we help other
doctors help their patients
(and we get to see ALL of
the most interesting
cases!!)

You can cover a little of
everything or specialize.

Pediatric Radiology:
Really cute patients
Really interesting cases

Typical Day

Arrive a little before 8 AM (occasional 7 AM conferences)

Log in – workroom has low lighting, stations have 4 large monitors, adjustable desks

Begin reading with frequent collaboration with other rads, teaching residents working in the same room, consulting with docs from other specialties.

May ultrasound some cases or do fluoroscopy cases on assigned days.

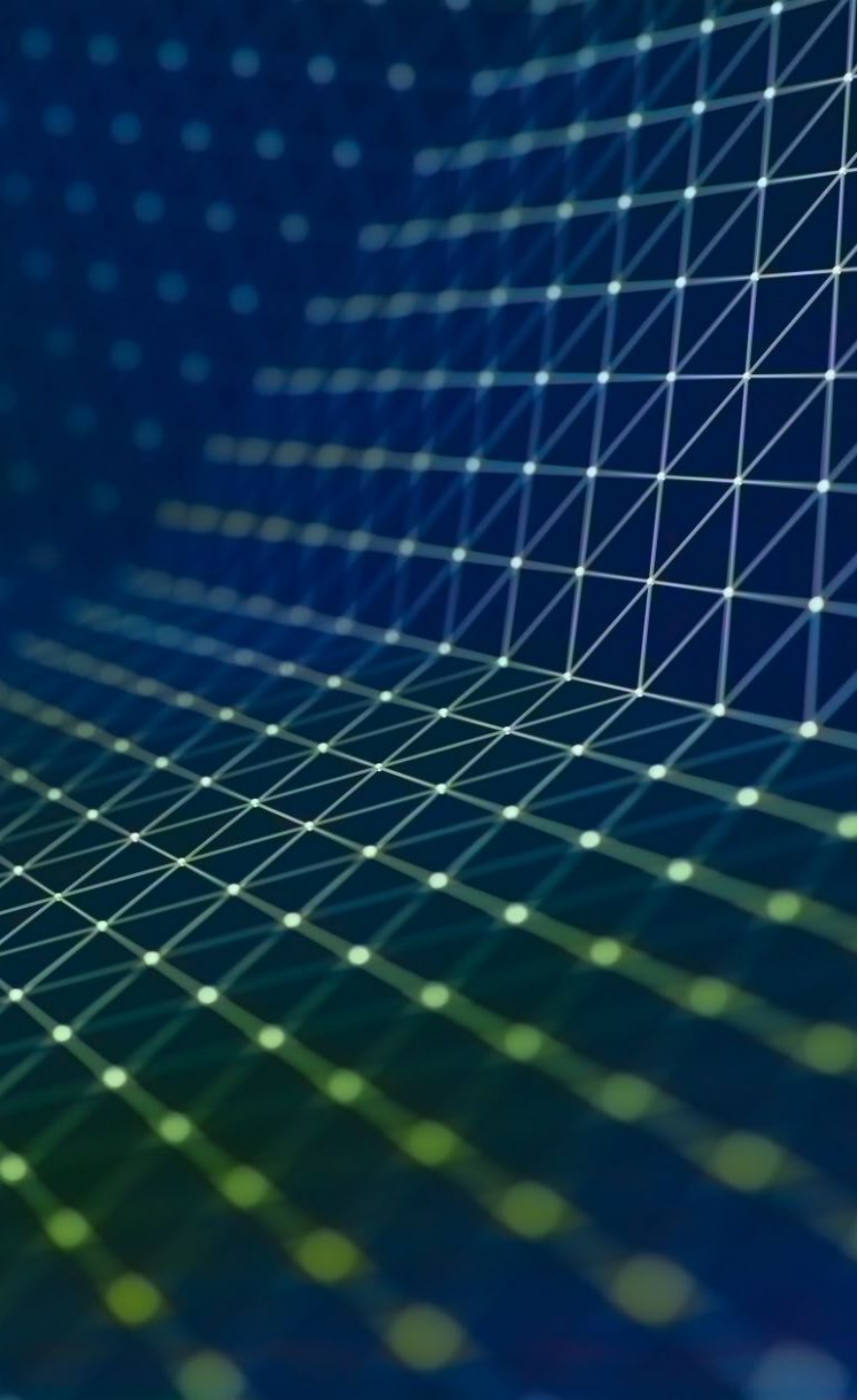
One-2 meetings or conferences a few times per week.

Also may cover evening, overnight, weekend, and holiday shifts.

On call for fluoroscopic cases that may arise overnight or on weekends once every couple of months.



Case Presentation



History

14 y.o. male

Intermittent fever and lower left abdominal pain for 2-3 weeks

Pain is aggravated by pressure and changes in position

Pain improves after urination, after a BM, and with a heating pad.

2 episodes of diarrhea the previous day, no blood in the stool

7 lb weight loss over the past 2 weeks

Fatigue and decreased appetite

Family history

- Nothing related

Medications

- Nothing related

Immunizations

- Complete and up to date

Physical exam

- Tender in the left lower abdomen
- No mass
- No hernia
- No rebound tenderness (a sign of peritonitis)

Vitals

- Normal with no fever

Labs and imaging

- Remarkable for an elevated white blood count
 - No viruses detected
- Abdominal X-ray was normal

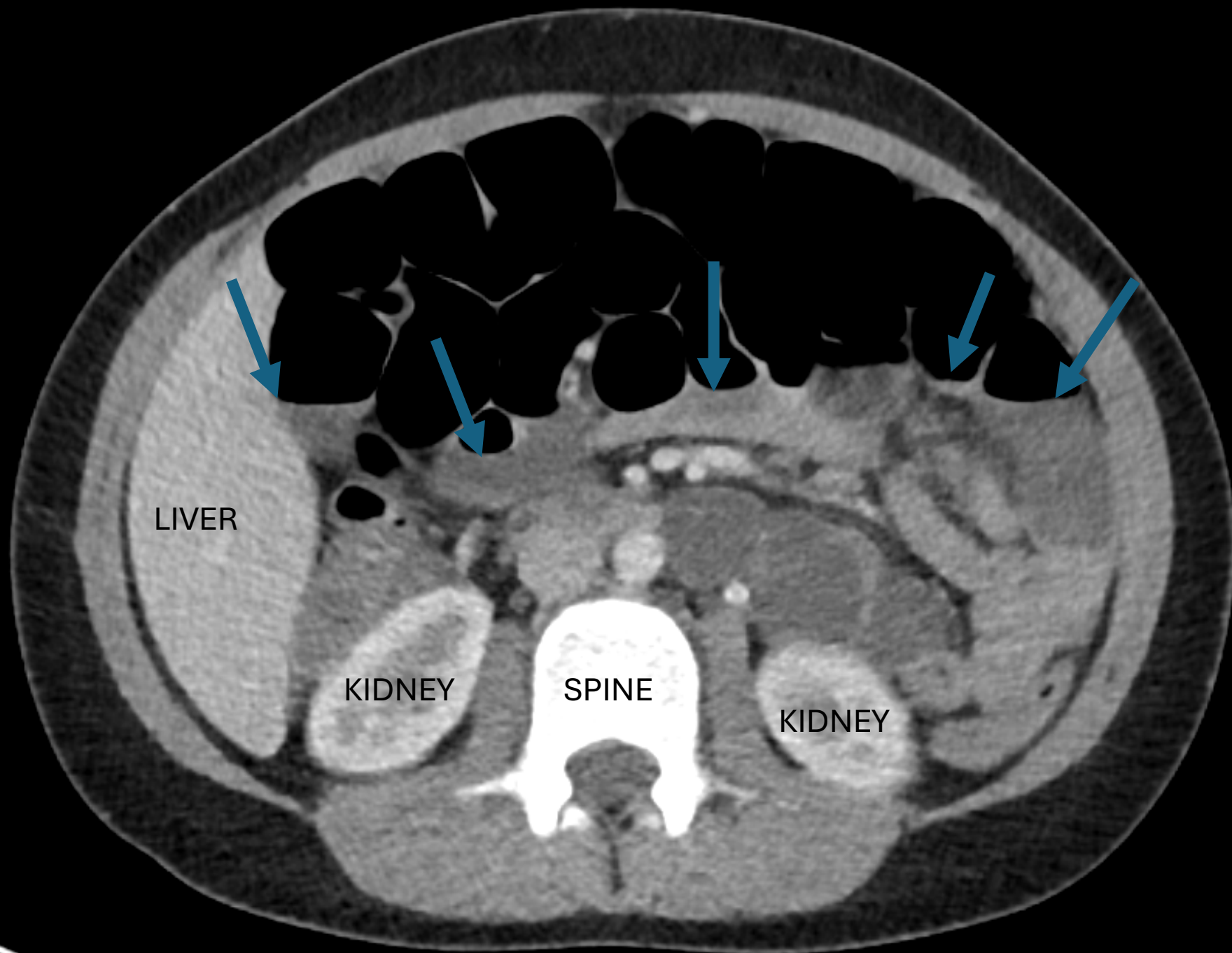
Follow-up

- Patient was referred to Gastroenterology by their Pediatrician
- Again found lower abdominal tenderness. Continued discomfort relieved by urination.
- Inflammatory markers were elevated on bloodwork.
- Possible causes: Inflammatory bowel disease, chronic urinary tract infection, malignancy, Celiac disease
- Insurance denied measurement of calprotectin – a protein that is elevated in inflammatory bowel disease.
- Patient scheduled for ultrasound of the kidneys and bladder as well as for a consult with Urology 3-4 weeks later.

2 weeks later

- He presents to the Emergency Department with worsening pain and weakness and has now lost a total of 17 lbs in one month.
- CT scan was ordered.

R



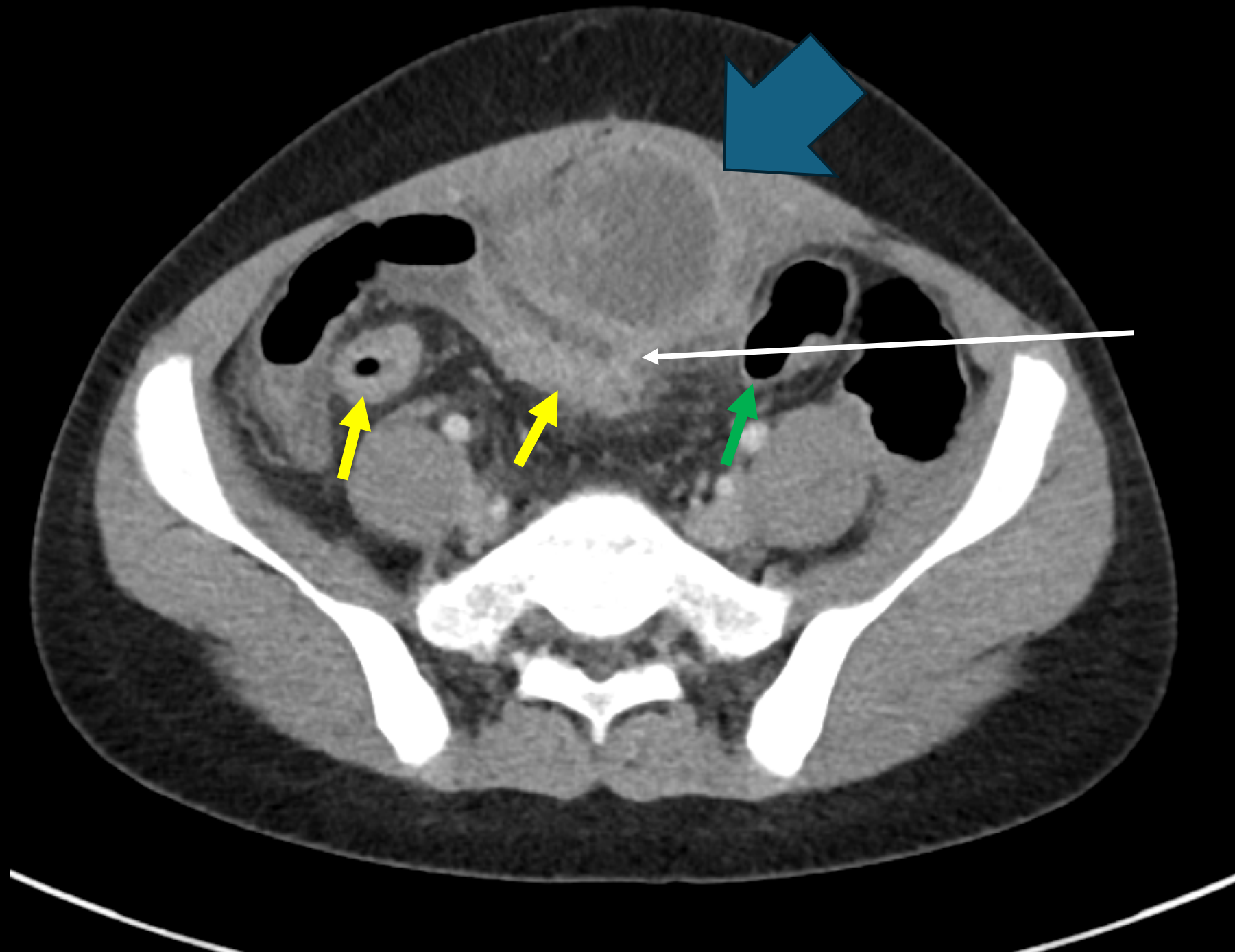
LIVER

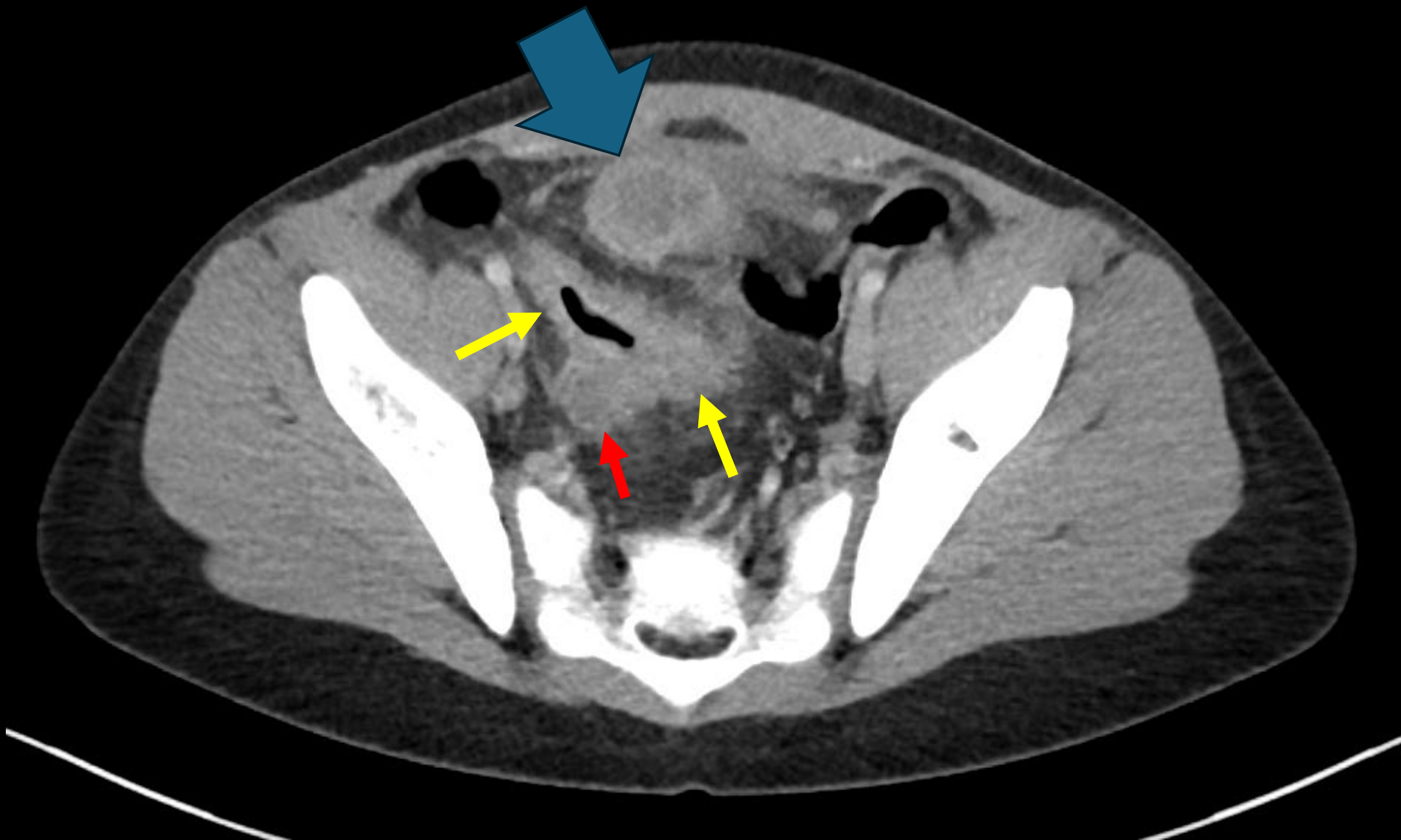
KIDNEY

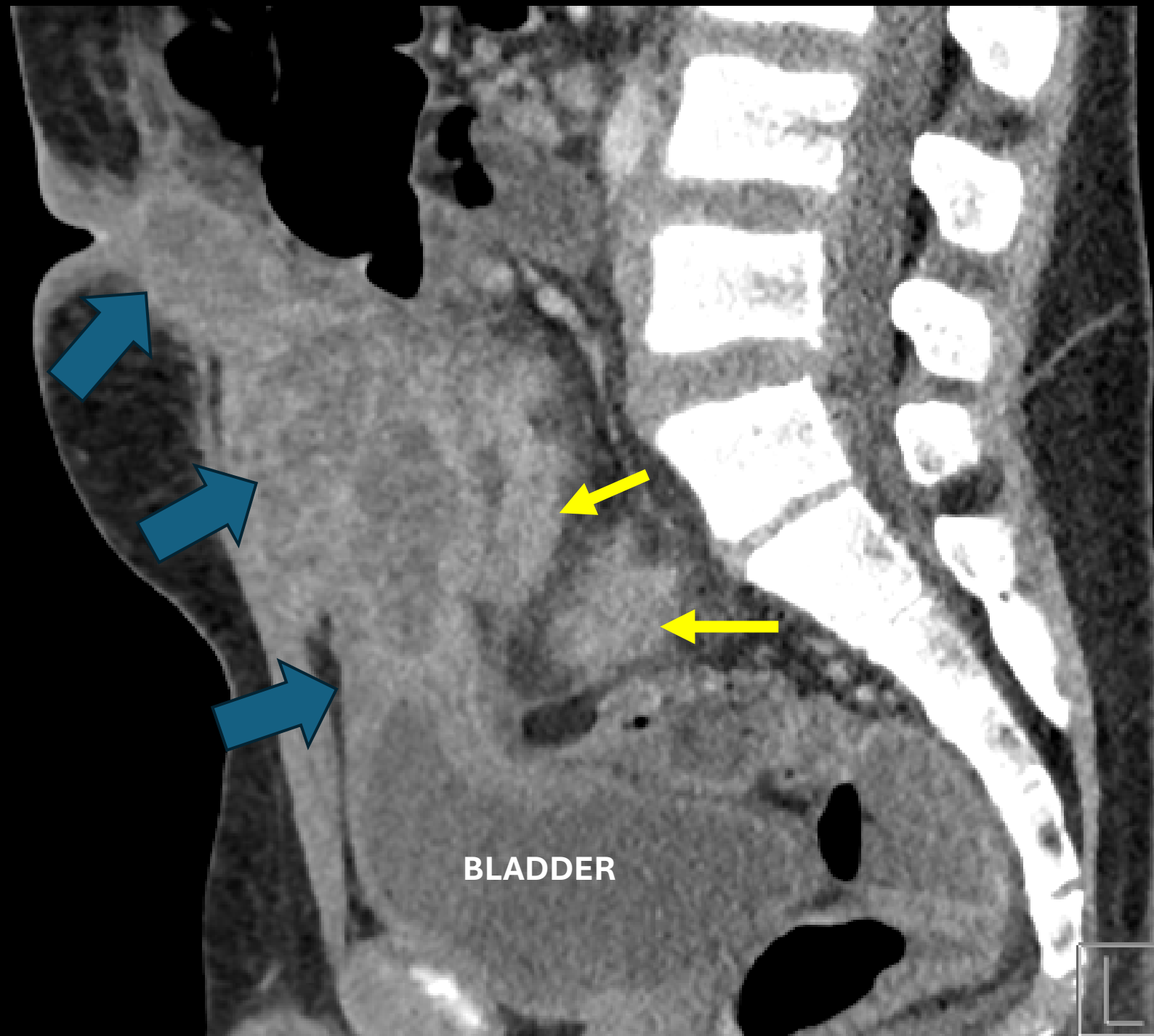
SPINE

KIDNEY

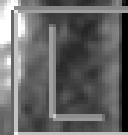
L







BLADDER





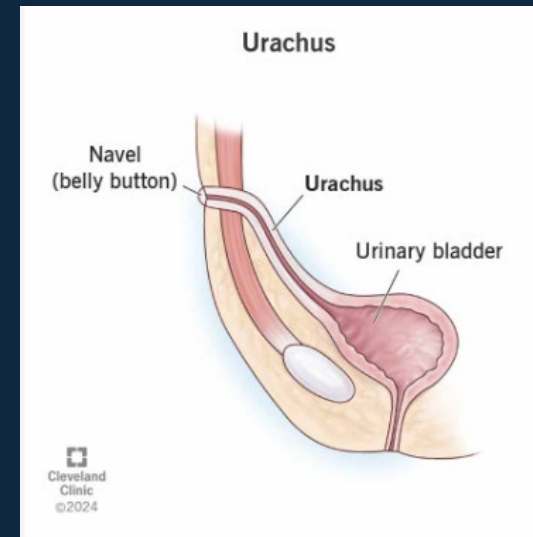
Diagnosis

- Crohn's Disease

- Inflammatory bowel disease
- Usually the end of the small intestine, can be anywhere
- Often affects deep layers of the bowel wall
- May extend through the bowel wall
- Medications suppress the immune system and may achieve remission.

- Urachal Remnant

- Congenital anomaly - Persistence of part of the urachus
- May open at the belly button and/or the bladder or neither.



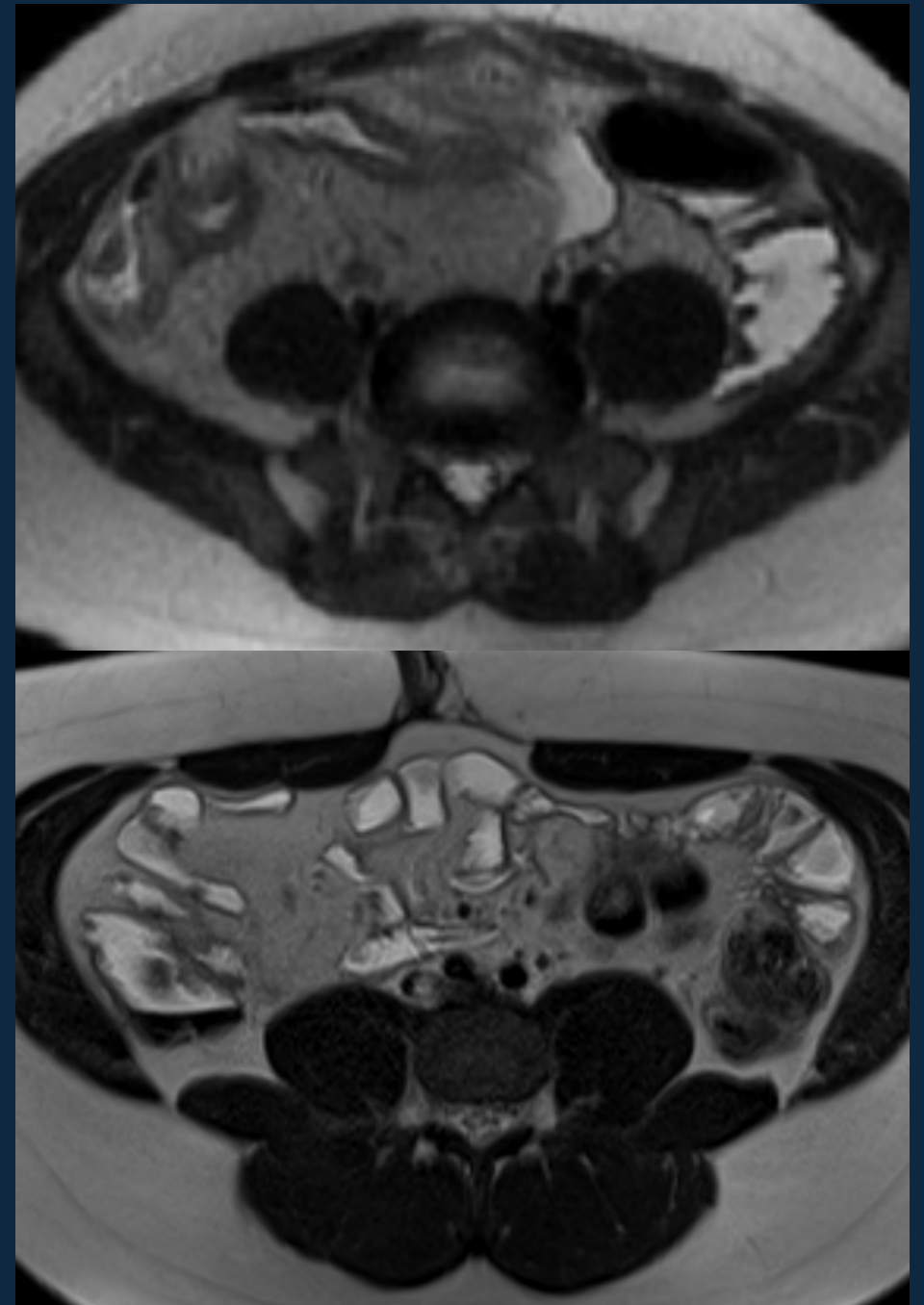
Treatment

- Abscess drainage by Interventional Radiology
- Central intravenous line place by interventional radiology for IV feeding
- IV antibiotics
- With pain improvement after abscess drainage, he could resume eating and was switched to oral antibiotics.
- Was sent home to complete antibiotics to return for colonoscopy and eventual removal of the urachal remnant.



Radiology's role in IBD

- Initial diagnosis
- Extent of disease – helps determine approach to therapy
- Imaging of disease flares and complications
- Monitoring response to therapy.



What about AI?

Does AI Help or Hurt Human Radiologists' Performance? It Depends on the Doctor

New research shows radiologists and AI don't always work well together

Research | 4 min read

By EKATERINA PESHEVA | March 19, 2024

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That's life in flow. **AGFA** HealthCare

CEO of America's largest public hospital system says he's ready to replace radiologists with AI

Marty Stempniak | March 31, 2026 | Radiology Business | Artificial Intelligence

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ANNALS OF MEDICINE & SURGERY

EDITORIAL ▶ Ann Med Surg (Lond). 2025 Sep 30;87(11):6944–6945. doi: [10.1097/MS9.00000000000003877](https://doi.org/10.1097/MS9.00000000000003877)

Artificial intelligence in radiology: promising tool or overhyped trend?

[Sardar Umer Irshad](#)^a, [Sardar Remsha Irshad](#)^b, [Malik Ahsan Jamal](#)^a, [Sweeba Rehman](#)^a, [Zain Ul Abideen](#)^a, [Ahmad Mohammad Saifan](#)^{c,*}, [Irfan Ullah](#)^a

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AI won't replace radiologists, but will dramatically change their jobs

Ten years ago, a pioneering AI scientist predicted that computers would replace human experts as readers of medical images. It hasn't exactly worked out that way.

By Lola Butcher | 07.22.2026

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AI – Threat or boon?

- Pros

- Can take over basic repetitive measurements and analyses
- Can aid detection of abnormalities according to algorithms
- Can shorten interpretation times increasing efficiency

- Cons

- The human body does not adhere to algorithms – we have to “think outside the box” often to arrive at the correct diagnosis.
- We alter how we get the images to meet the patient’s needs frequently – so images are not obtained in a typical way rendering AI algorithms invalid.
- Diagnoses are sometimes arrived at after consultation with physicians caring for the patient relying on direct communication.

My prediction? There will be change, but the future looks bright!

Thank you!

Questions?

