

# Body Imaging - Research Opportunities for Residents

## Why Research?

- Life may lead you to academics even if you didn't plan it...
- MOC PQI projects are needed as an attending
  - Possible overlap between QA projects and research
  - Being familiar with research concepts and having research experience will make your life easier!
- Conferences and meetings are fun! Presenting papers means you'll be able to attend more conferences and meetings and get valuable experience and recognition

## Get a Little Help From Your Attendings...

- Research is a team effort - from idea to publication! You shouldn't want nor need to do this alone...
- Even if you don't have an idea - an attending will!
- Planning the project requires experience
- An attending will help with managing your expectations
- Knowing where and when to submit is very important!
- Having experience in the required and preferred styles for specific journals and conferences will improve your paper's chances

## How to Start?

- Ask your self what you think needs further studying (or let an Attending tell you his/her thoughts...)
  - Within your particular interests - focusing on something you like will keep you interested!
  - A "hot topic" - trendy means more easily published!
  - Just some thoughts - aging, obesity, environmental factors (wide open and just waiting for the right enthusiastic resident...)
- Try to decide on a feasible methodology - small, retrospective studies are best for residency
- Literature search - make sure there is still room for another article if it is a popular subject and get enough background so you'll have something to build on
- Very important - find a medical student ☺
- Get all of the paperwork in order before you start - IRB

## And then -

- familiarize yourself with all the tools and software that will make your life easier before you start (Excel, EndNote, PhotoShop and if you mean to do your own statistics then a good statistics software)
- Do the work - collect data, analyze the results
- Write the article
- Submit for publication or presentation (enjoy it - you've made it to the end!)

## Who can you talk to?

- Body imaging section has many attendings with research interests
- Try to match your interests, but if not - everyone is welcome!

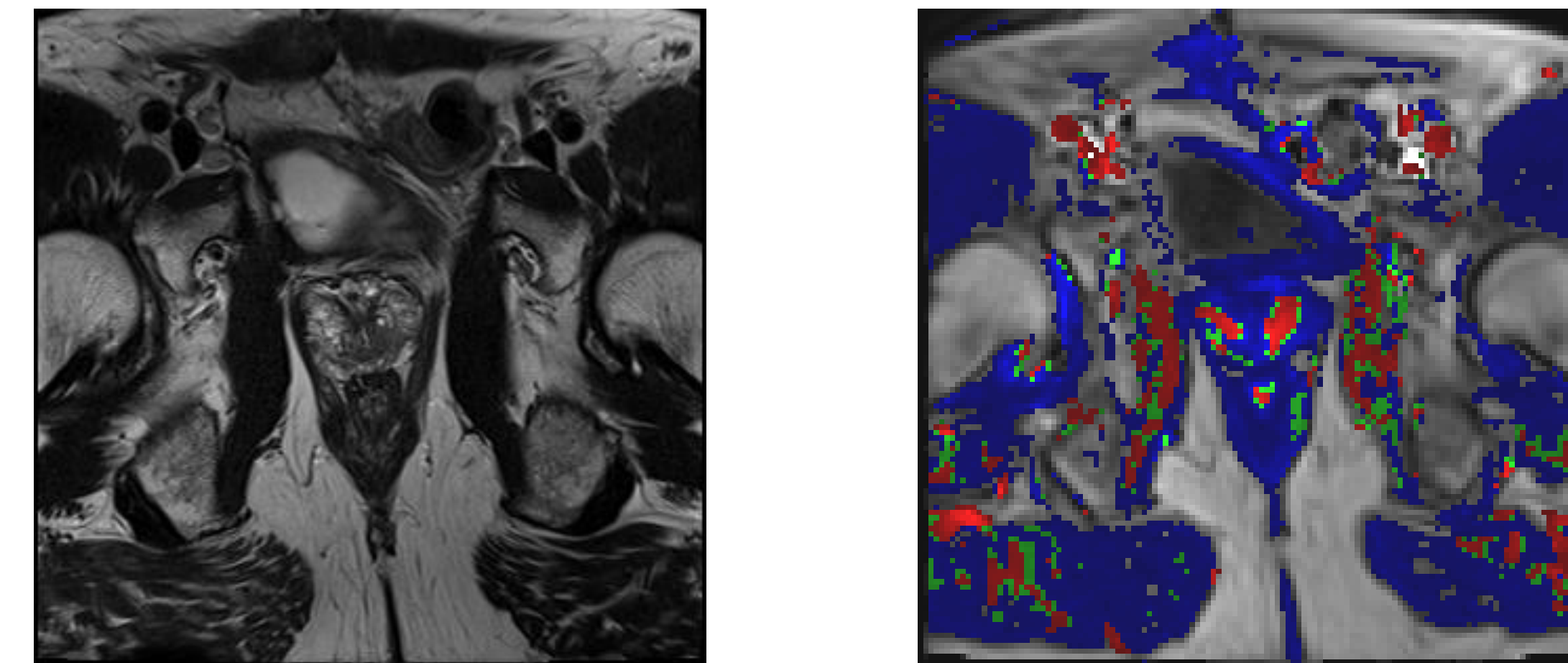


## Senta Berggruen

- Placental MRI
- DWI
- Education

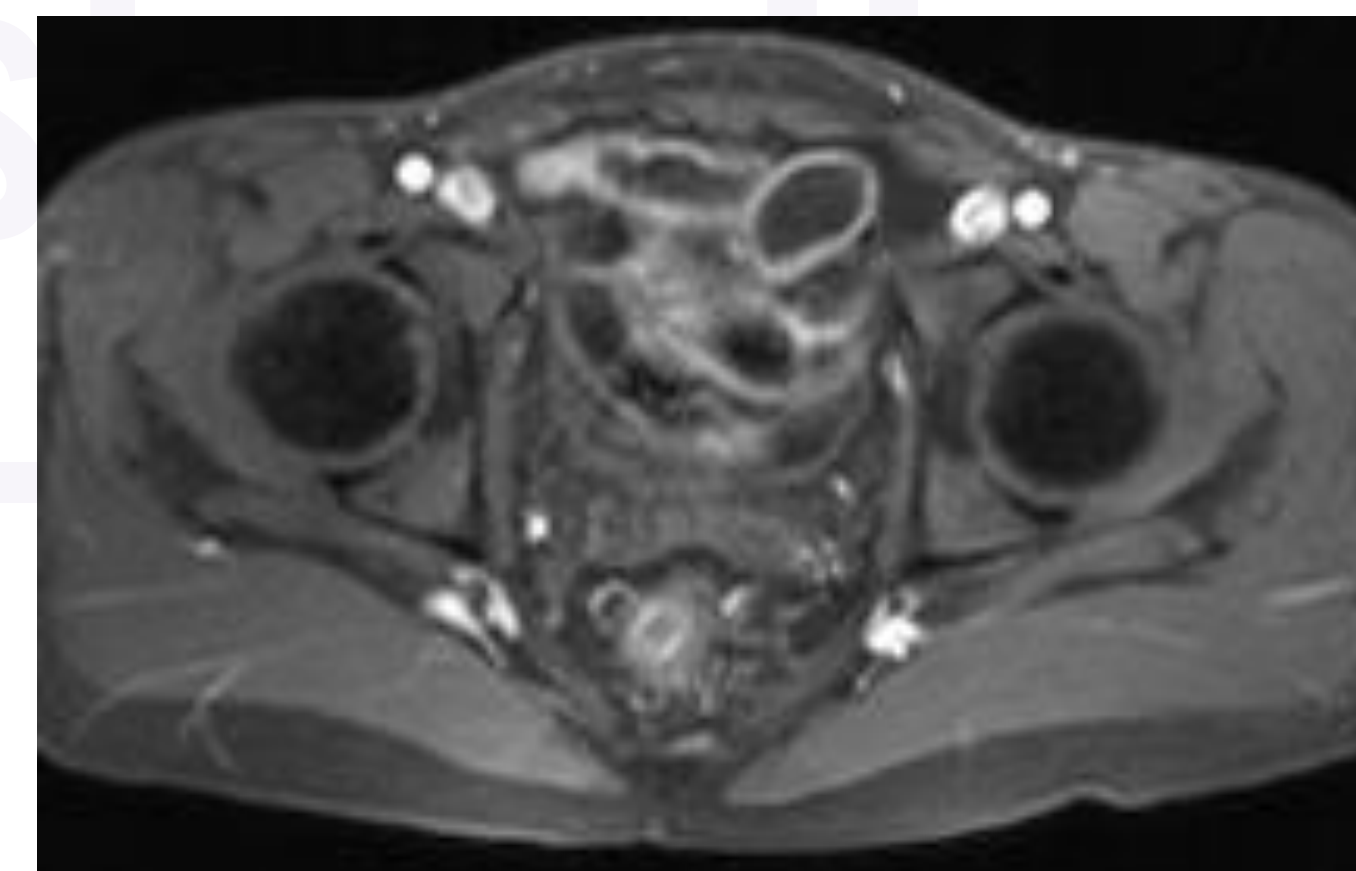
## David Casalino

- Prostate MRI



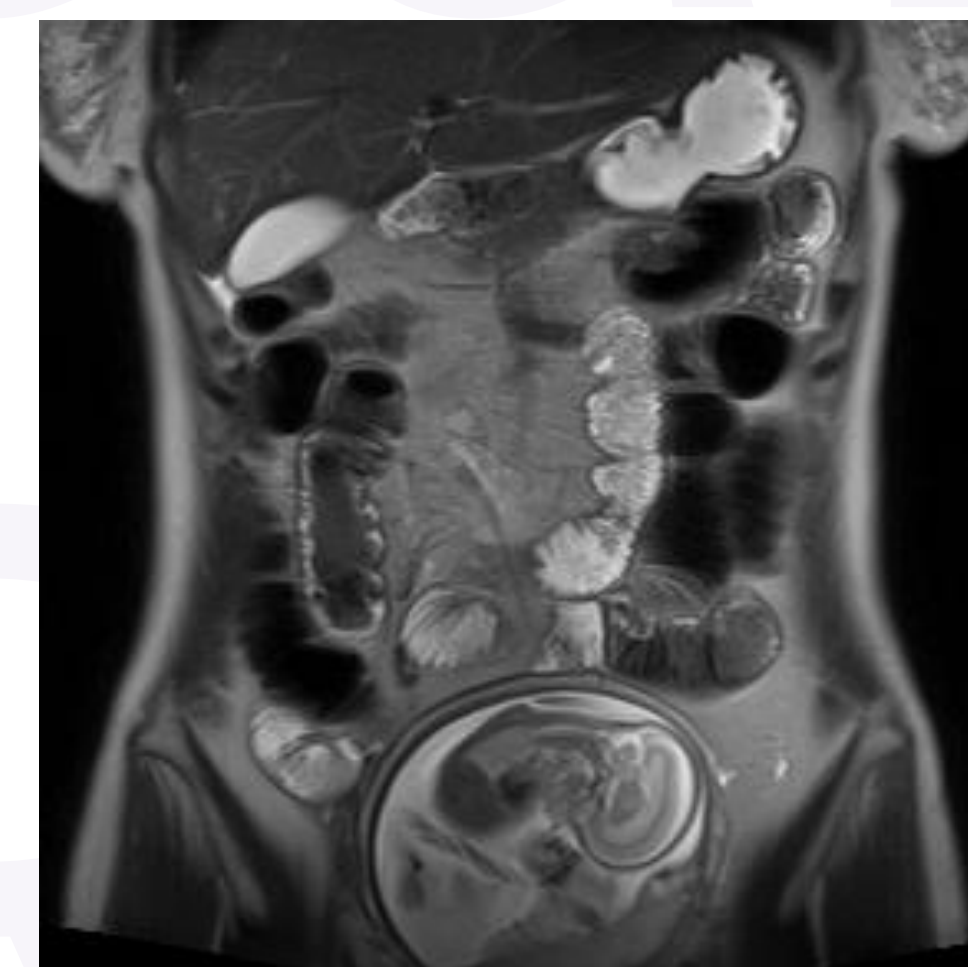
## Helena Gabriel

- US of liver transplants
- US contrast agents
- US for Crohn's disease
- MR enterography
- Gallbladder US and CT



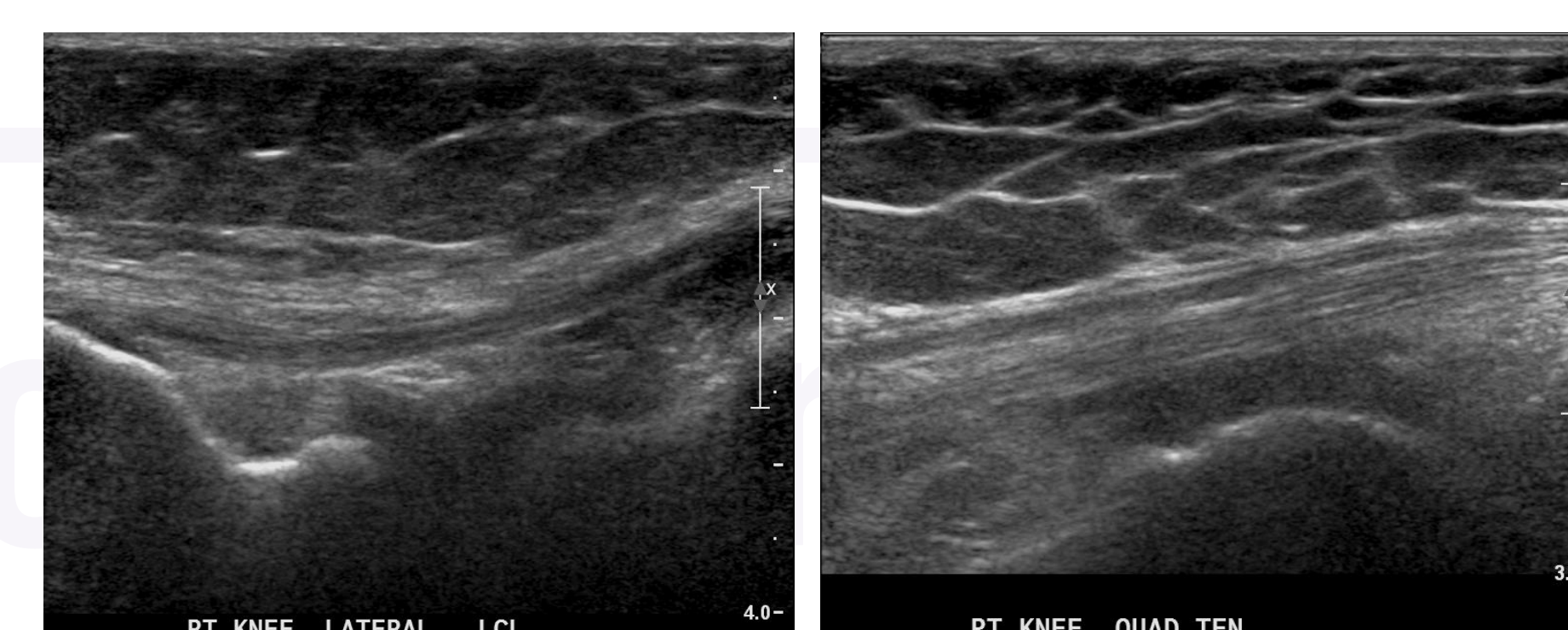
## Lori Goodhartz

- Imaging of the pregnant patient
- Resident and student education
- Curriculum



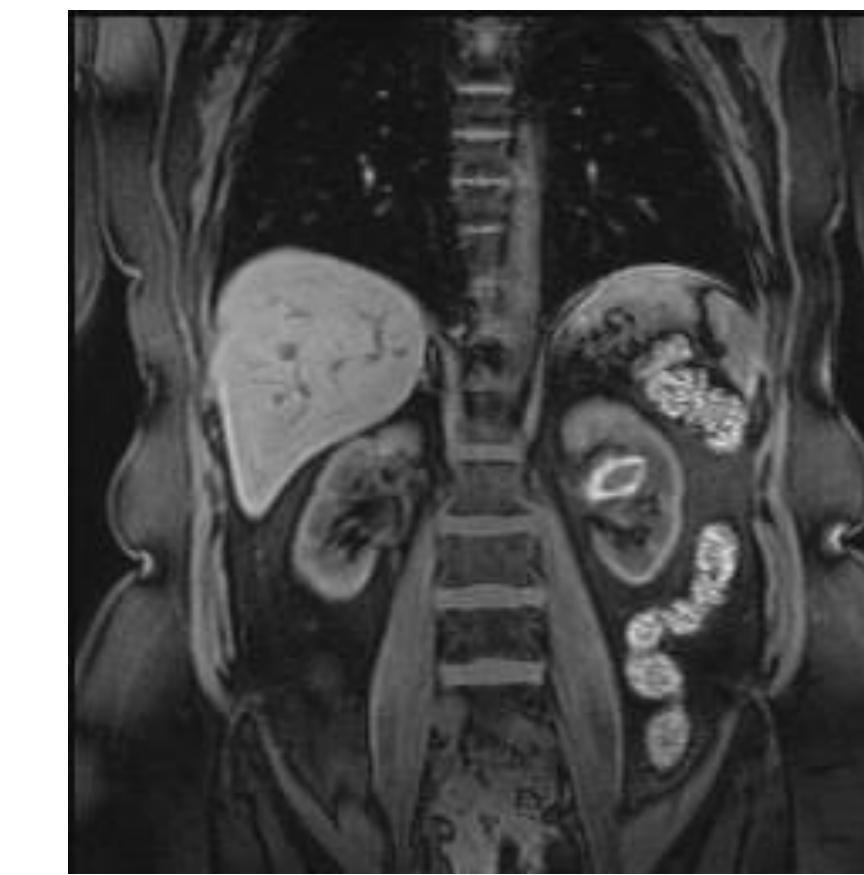
## Thomas Grant

- US liver elastography ARFI
- MSK US



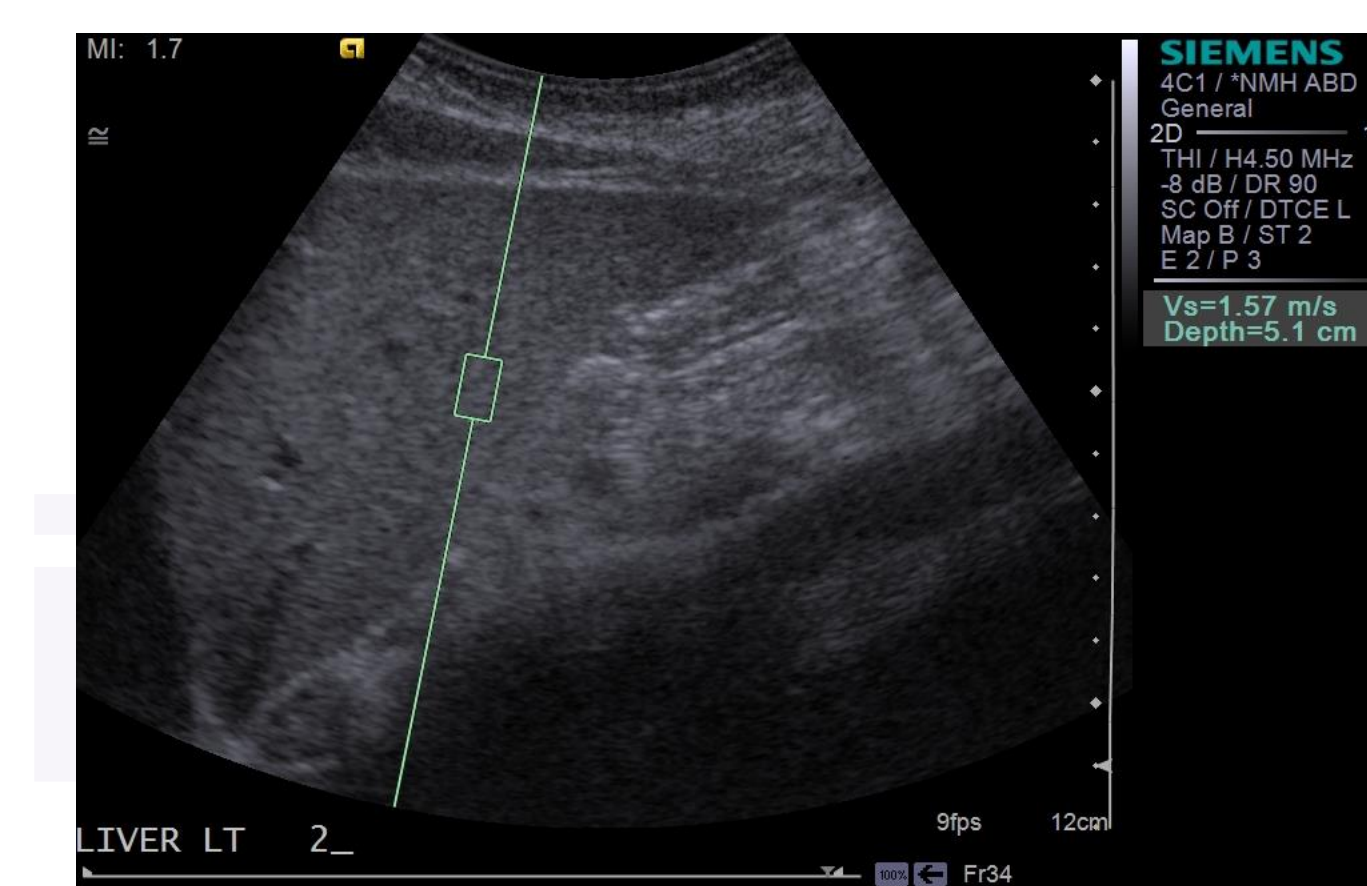
## Nancy Hammond

- Targeted pelvic CT for appendicitis
- Emergency radiology
- Renal infections
- Adrenal and renal hemorrhage



## Carla Harmath

- Integration of radiology and clinical medicine
- Technological radiological education
- Thyroid nodules and ARFI
- ARFI for evaluation of superficial abdominal masses
- Bowel imaging on MRI

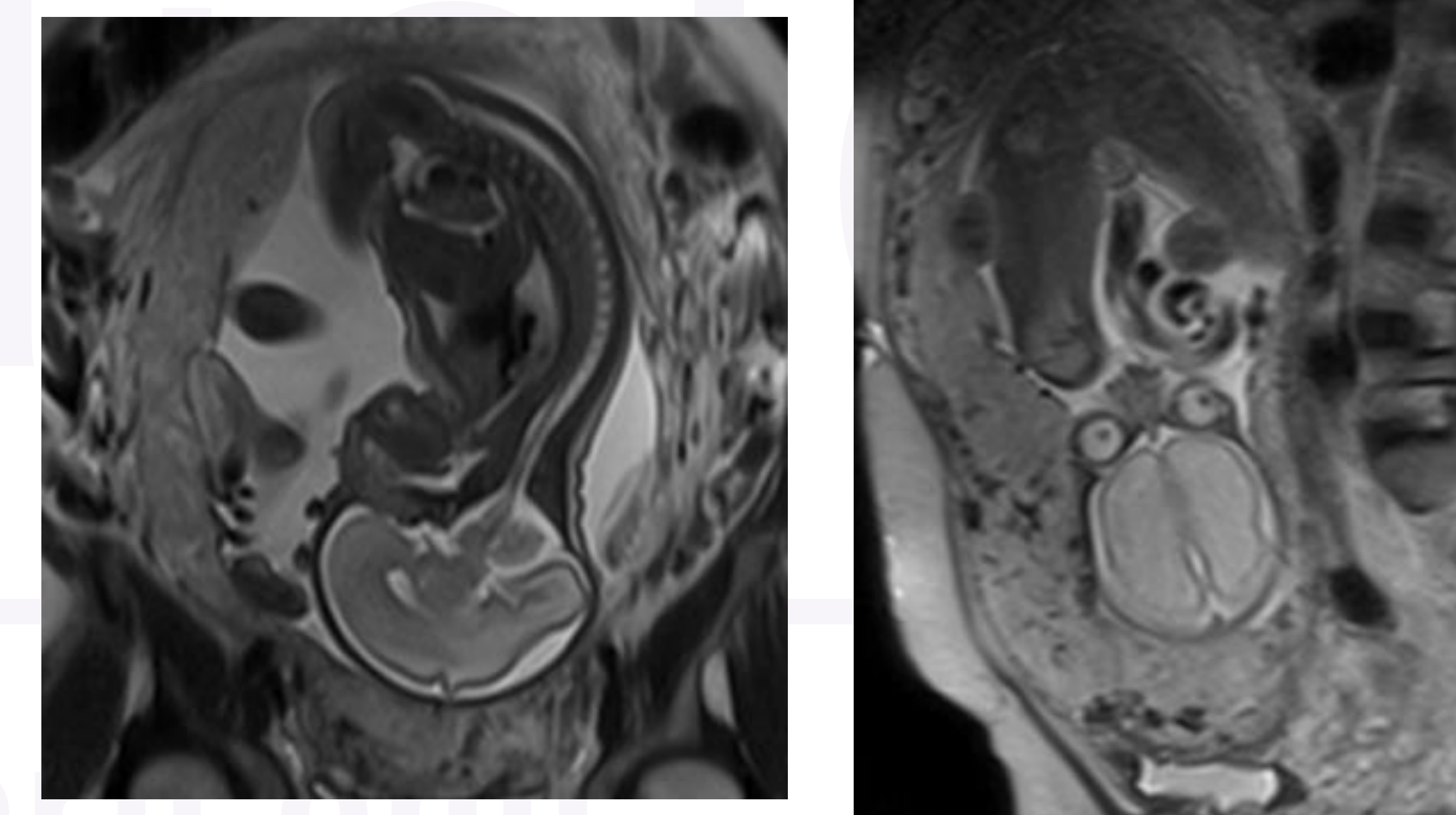


## Frederic Hoff

- Contrast agents and allergic reactions

## Jeanne Horowitz

- Placental MRI
- Pregnant patients and contrast
- Chronic liver disease
- Educating clinicians and PA regarding appropriate use of imaging
- Radiation exposure in CT
- Lexicon, macros, reporting and communication issues



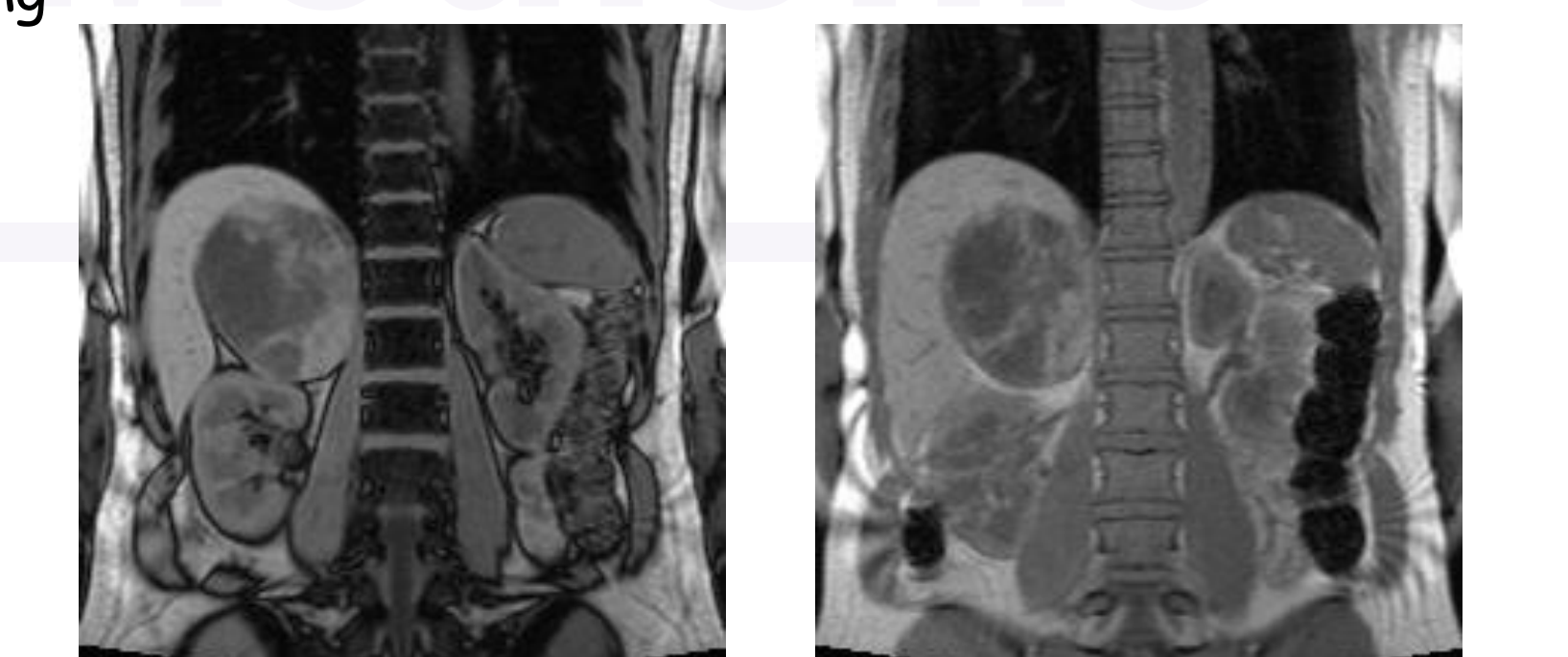
## Frank Miller

- MR elastography
- Magnetization transfer in the abdomen
- MR enterography
- DWI
- Liver fibrosis
- HCC
- Post-treatment imaging of the liver
- Neuroendocrine tumors
- Pancreatic imaging
- Prostate MRI



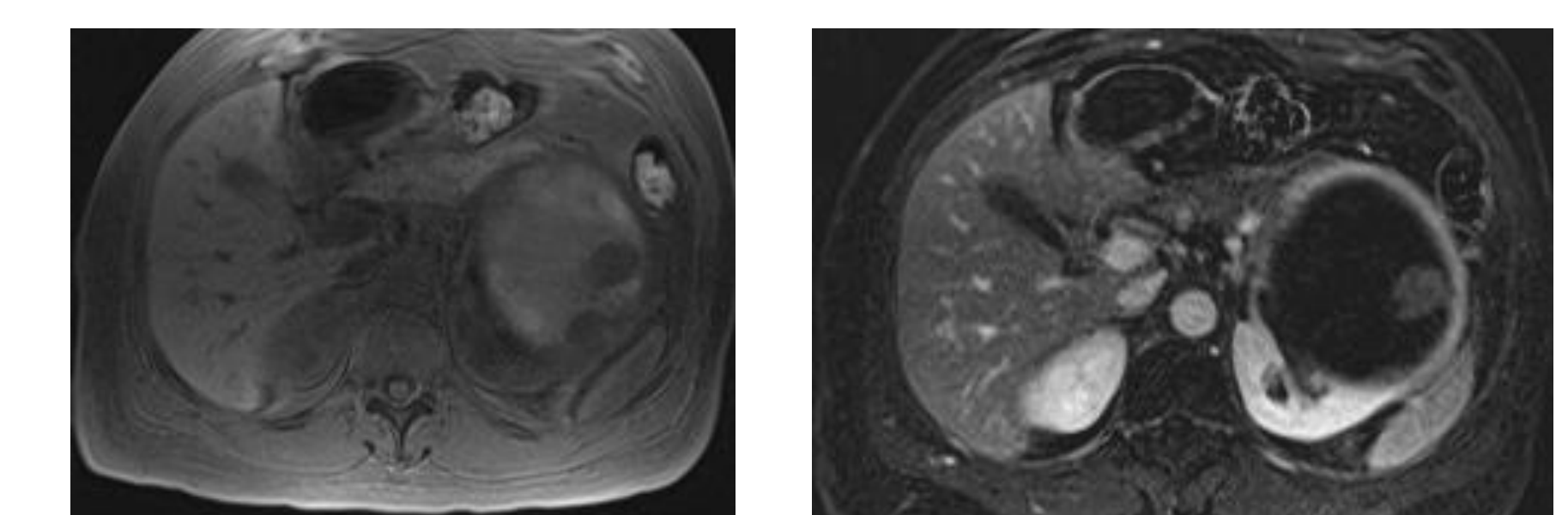
## Paul Nikolaidis

- Ampullary imaging
- Adrenal imaging
- Small bowel GI bleeding
- Diverticulitis



## Cecil Wood

- Cystic renal lesions



## Vahid Yaghmai

- Radiation exposure in CT
- Quantitative CT
- Volumetric imaging
- Biomarkers
- Tumor response criteria

