

CT Scan

Training

CT FACTS

❑ CT/CAT Scan – Computerized Axial Tomography

❑ CT Equipment

- Siemens 16 Slice CT

WEIGHT LIMITS
300 LBS



Contrast

☐ Iodine/ Yodo

- ☐ Fasting 4 hours for all exams with contrast.
- ☐ People allergic to the following can have allergies to iodine:
 - Sea Food (Shrimp)
 - Mango

Sensation: Contrast feels hot. Un calor.

☐ Protocol for Iodine Pre-Med

- See print Out

☐ Barium – PO Contrast

- Gastrografin (Yodo) *****Last Resource. Do not disclose to patients***
- Omnipaque..Ovarian Cancer- last, last resource. Tech Decides. *****Last Resource. Do not disclose to patients***

NOTE: CT SCAN PLAIN FOR KIDS 16 AND OLDER
CT SCAN W/CON FOR KIDS 18 AND OLDER



Scanning Times:

- ☐ Plain: 10 minutes
- ☐ Contrast: 15-20 mins
- ☐ CTA: 30-40 mins



CT Studies	
<u>English</u>	<u>Spanish</u>
• Brain	Cabeza/Cerebro
• Neck	Cuello
• Paranasal Sinus	Seno Paranasal
• Orbits	Orbitas
• Facial Bones	Huesos Faciales
• Thorax (Chest)	Pecho
• Chest High Resolution	Pecho Alta Resolucion
• Abdomen/ Pelvis	Abdomen/ Pelvis
• Extremities	Extremidades
• Mastoid/ Iacs	Mastoides/ Conducto Auditivo Interno
• Denta Scan	Scan Dental
• Pituitary Gland	Pituitaria
• Cervical	Cervical
• Lumbar	Lumbar
• Thoracic	Toracico
• CTA	CT Angiografia
• CTA Abdomen	CT Angiografia Abdominal
• CTA Pelvis	CT Angiografia de la Pelvis
• CTA Lower Ext (Runoff)	CT Angiografia Run OFF
• CTA Head	Angiografia de la Cabeza
• CTA Neck	Angiografia del Cuello
• CT Urogram	CT Urograma
• CT Enterography	CT Enterography

CT Chest

- ❑ Plain- No prep. 5-10 Scan.
- ❑ Contrast- Fasting 5-6 hours, scan 15-20 minutes
- ❑ HR (High Resolution)- No prep- 15-20. HR is NEVER with contrast.

Sometimes Rx will say “CT Chest HR with contrast” This is wrong. We need to fix this! Advice Doctor to choose One!

Denta Scan



- ☐ We do scan only. No interpretation.
- ☐ Exam is not covered by health insurance. Needs to be self-pay and is charge per arch.
- ☐ \$250 per arch.

CT Abd/ Pelvis Plain

❑ PO CONTRAST DIFFERENT NAMES (THEY ALL MEAN THE SAME)

- CT Abd/ pelvis

Plain

Without contrast

With Po Contrast

Oral



All these are
the same

** Always fasting 4 hours before exam **

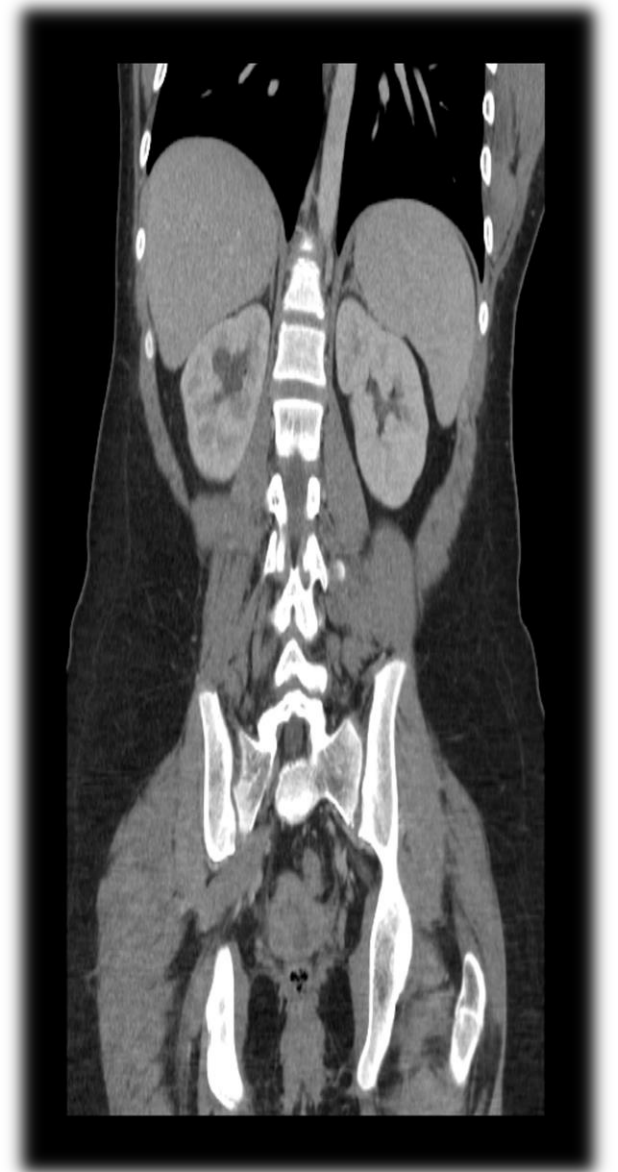
❑ Preparation

- Patient will drink about 75% of bottle. Once the patient is done, they will wait 1 hour and then drink the remaining 25% and 5 cups of water before entering scan.



CT Abd/Pelvis With Contrast

- Exam is done with iodine
- Patient does not drink oral contrast.
- Fasting at least 4 hours before exam.
- May have water and all meds.
- **Process:** Patient registers, goes through phlebotomy to set up IV, And will be asked to drink 8-10 cups of water. After that patient will be scanned.



CT Abdomen VS CT Pelvis

- ☐ (Use drawing demonstration)
- ☐ Typically, RX is for “CT Abdomen and Pelvis” (combo)
- ☐ Sometimes Rx will say “CT Abdomen”
- ☐ Sometimes Rx will say “CT Pelvic”
- ☐ With both scenarios, it is important to investigate if exam can be done as a SINGLE region rather than combo because sometimes, depending on diagnosis, CT Abd by itself will not be sufficient, pelvic area is needed. And vice versa..
- ☐ Contact Miami for clearance.
- ☐ This will help eliminate wait time for the patient when they show up to their appointment.
- ☐ Also, authorization will know with time, if order needs to be changed.
- ☐ If any study is changed from a single study (CT abd) to a combo (CT abd/pelv), please request and scan new Rx.

4 CT WORLDS

- ☐ CT Regular
- ☐ CTA
- ☐ CT Extra (Urogram & Enterography)
- ☐ CT Abd/ Pelvis

****Every world has different laws and regulations****

CT Regular

- ❑ If done plain (no prep)
- ❑ When plain 5-10 minutes
- ❑ When done with contrast-
15-20 minutes
- ❑ If done with contrast 4
hours fasting and labs if
needed.

Studies:

- Brain
- Neck
- Paranasal Sinus
- Orbits
- Facial Bones
- Thorax (chest)
- Pituitary
- Cervical
- Lumbar
- Thoracic

CTA – Angiogram (Artery)

- ❑ ALWAYS done with contrast.
- ❑ Always fasting 5-6 hours and labs if needed.
- ❑ 15-20 Minutes
- ❑ Tech needs extra time to do reconstruction of images.

CTA RUN OFF: CTA ABD/PEL/LOWER EXT: ALL CENTERS



CT Extra

❑ CT Enterography:

- “entero” – all contrast used
- Uses iodine, volumen, enemas.
 - ❖ Always done with and without
 - ❖ Fasting for 6 hours and follows same protocol as MR enterography. (You should know this by now)

❑ Preparation: Labs if needed

- Contrast- ALWAYS DONE with or with and without
 - ❖ Light diet day before
 - ❖ Fasting on day of the exam
 - ❖ Requires 2 enemas
 - ✓ One at 10 PM night before exam
 - ✓ One at 6 AM morning of exam
 - ❖ 3 Bottles of Volumen Oral Contrast
 - 1 bottle every 20 minutes before scan
 - Advise patient to come 1 hour before appointment.

❑ CT Urogram:

- Always fasting for at least 6 hours.
- Always done with and without
 - ❖ Labs if needed.
 - ❖ Patient drinks 8-10 cups of water right before scan (Here)

CT Abd/ Pelvis

- Refer to CT AB/PEL Slides on this presentation.
- Already Discussed.

