

**The David & Donna Long Cancer Center is a  
free-standing Cancer Center affiliated with SHARP  
Healthcare in La Mesa, California**



# Accuray Disclaimers and Disclosure

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Most side effects of radiotherapy, including radiotherapy delivered with Accuray systems, are mild and temporary, often involving fatigue, nausea, and skin irritation. Side effects can be severe, however, leading to pain, alterations in normal body functions (for example, urinary or salivary function), deterioration of quality of life, permanent injury and even death. Side effects can occur during or shortly after radiation treatment or in the months and years following radiation. The nature and severity of side effects depend on many factors, including the size and location of the treated tumor, the treatment technique (for example, the radiation dose), the patient's general medical condition, to name a few. For more details about the side effects of your radiation therapy, and if treatment with an Accuray product is right for you, ask your doctor.

# SHARP Grossmont Hospital

**We have radiation and medical oncology in one building. Radiation oncologists, medical oncologists, nurses, clinical navigators, therapists, a physics department, and a pharmacy are all in one building to make cancer patients' experiences as simple as possible**

David & Donna Long  
Cancer Center

Outpatient  
Cardiovascular  
Services







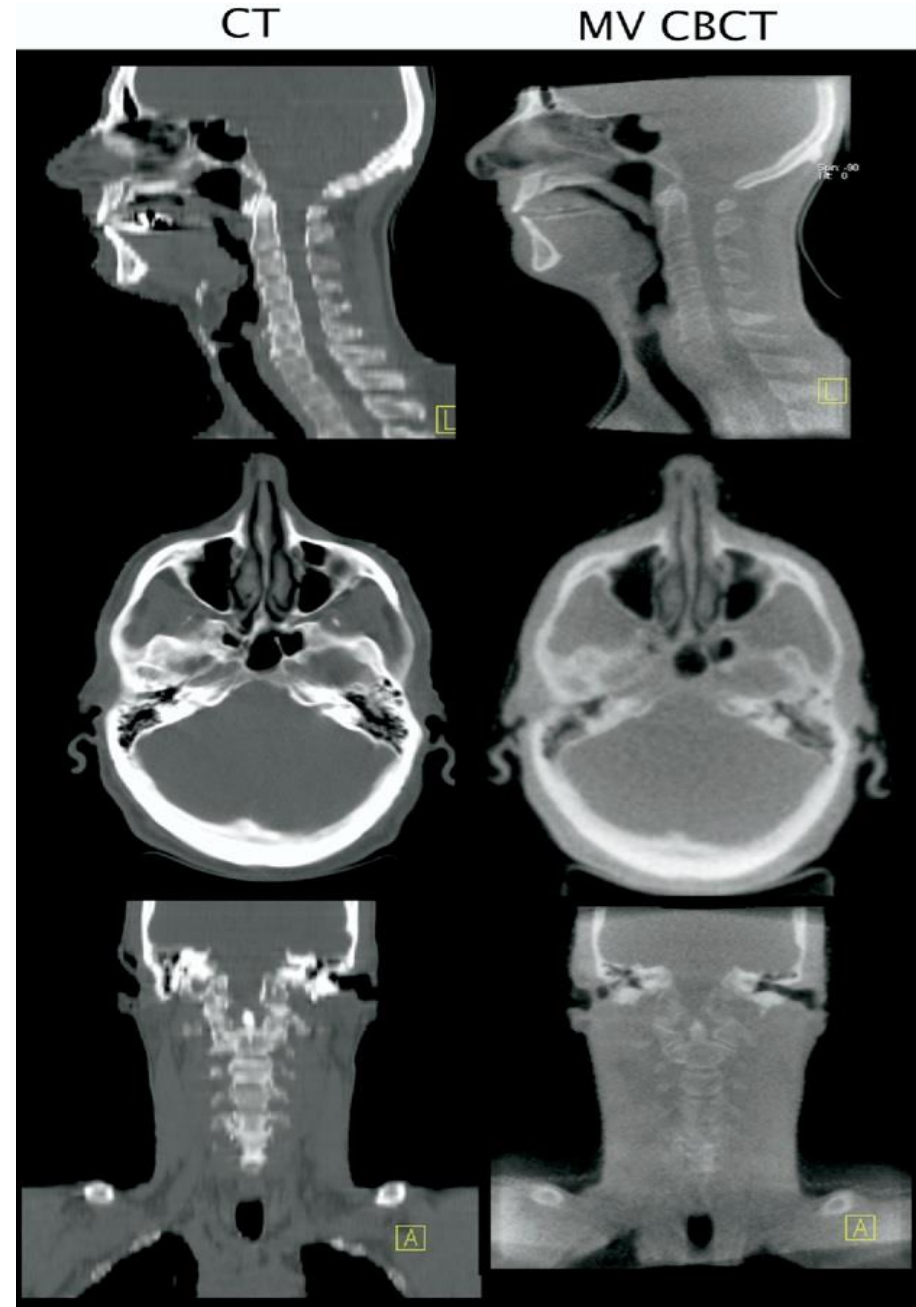
**In our first vault, we have a Radixact System with ClearRT and CTrue imaging. We treat approximately 35 patients daily, primarily IMRT treatments and some 3D boosts. We love the kV and MV options. We treat all head and neck, prostate, lung and partial breast on this machine.**



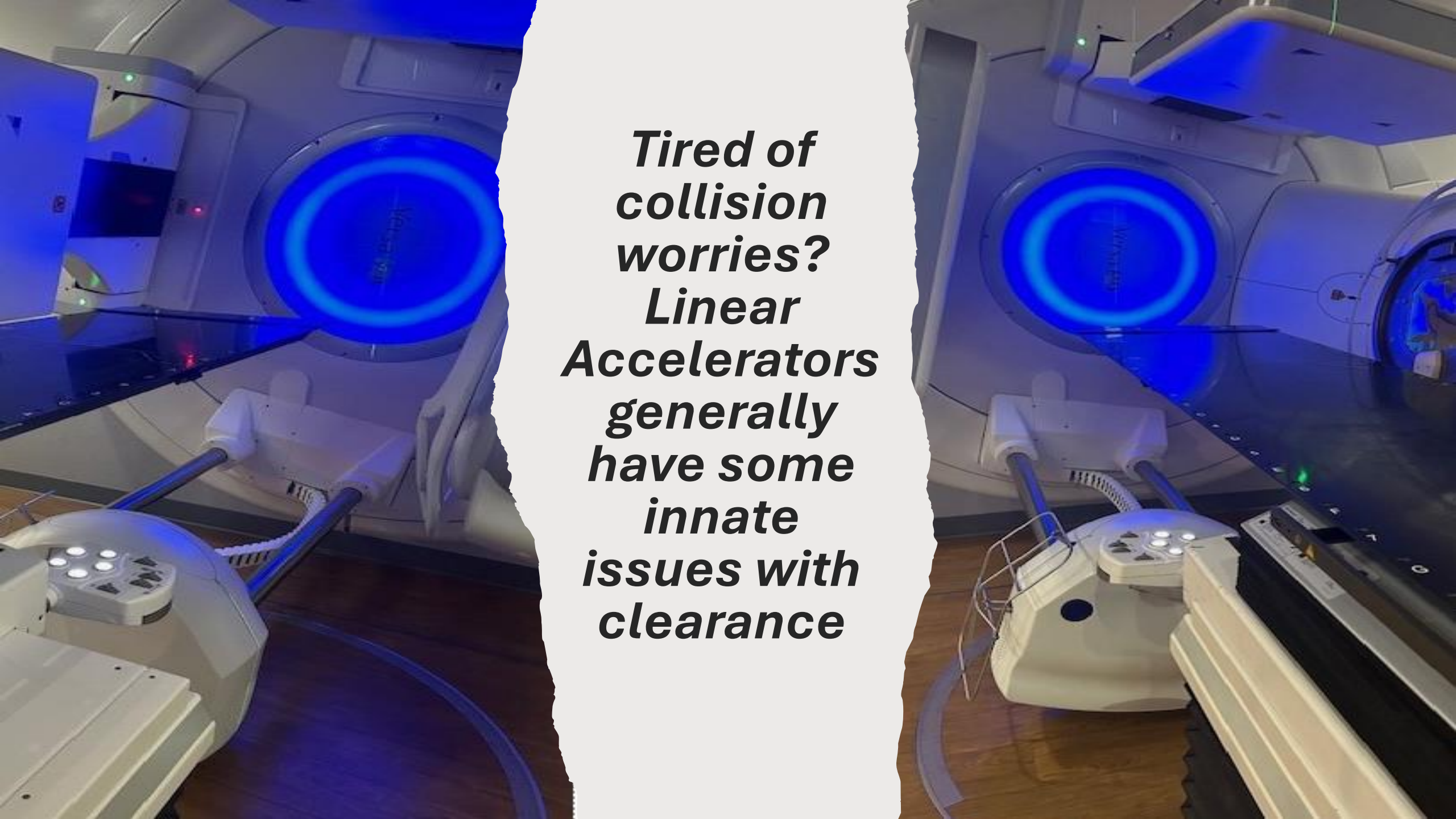
***In our second vault is the Elekta Versa, which has kV CBCT capability, portal imaging, multiple electron energies, and 6 MV photons for treatment.***

***We treat around 25 patients per day on this machine. This couch also has Hexapod ability.***

# kV vs MV





The image consists of two side-by-side photographs of a particle accelerator tunnel, likely the Large Hadron Collider (LHC). The tunnel is illuminated with blue light, and a large circular opening in the distance shows a bright blue glow. In the foreground, there are white and blue mechanical components, including a control panel with several buttons and a small display. The text is centered over a white, torn-paper-like background that separates the two images.

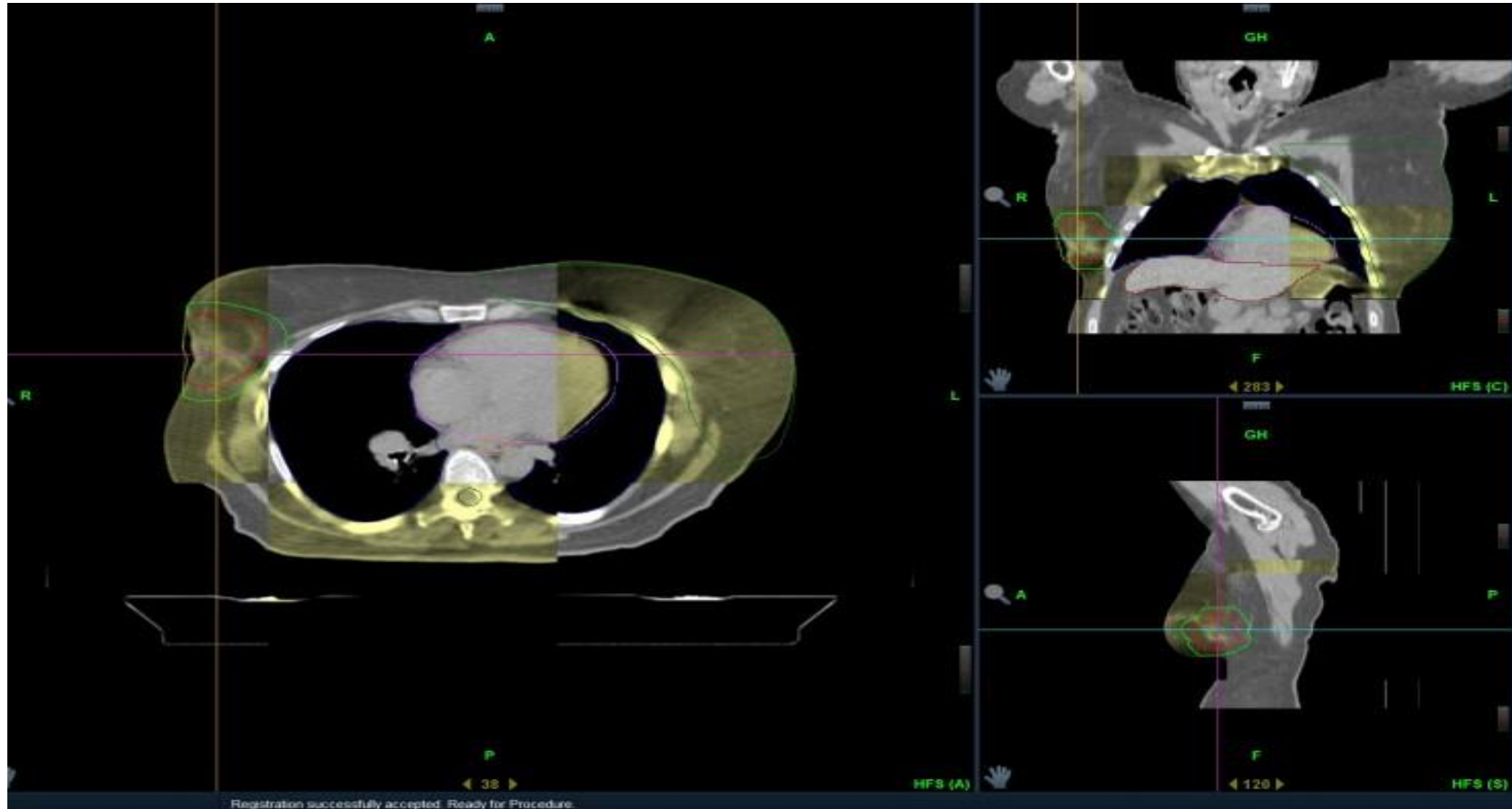
***Tired of  
collision  
worries?  
Linear  
Accelerators  
generally  
have some  
innate  
issues with  
clearance***



***No collision worries with Radixact***

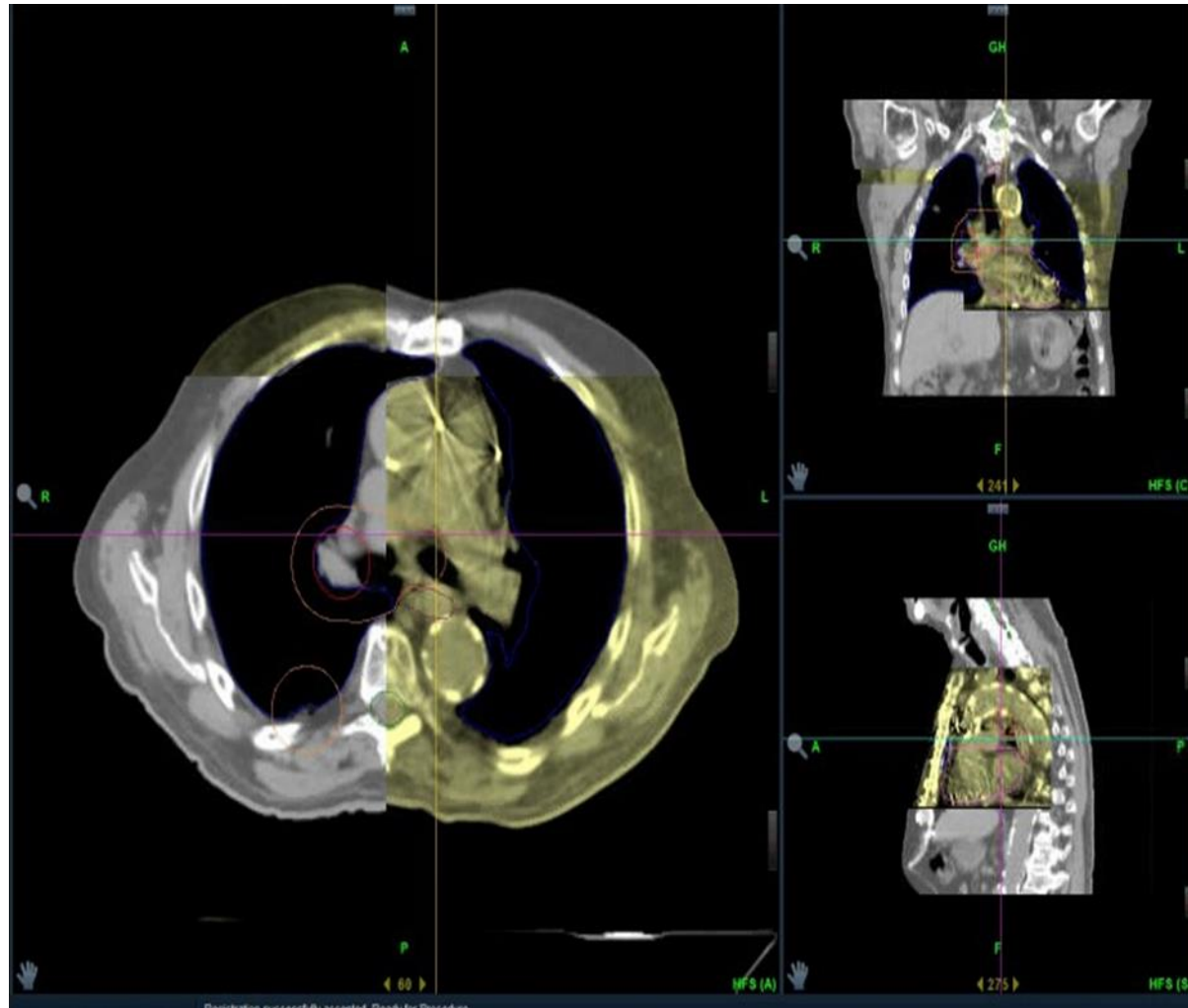


**Imaging and treating this partial breast on our Elekta would be tricky and treating this patient using the Radixact System is simple**

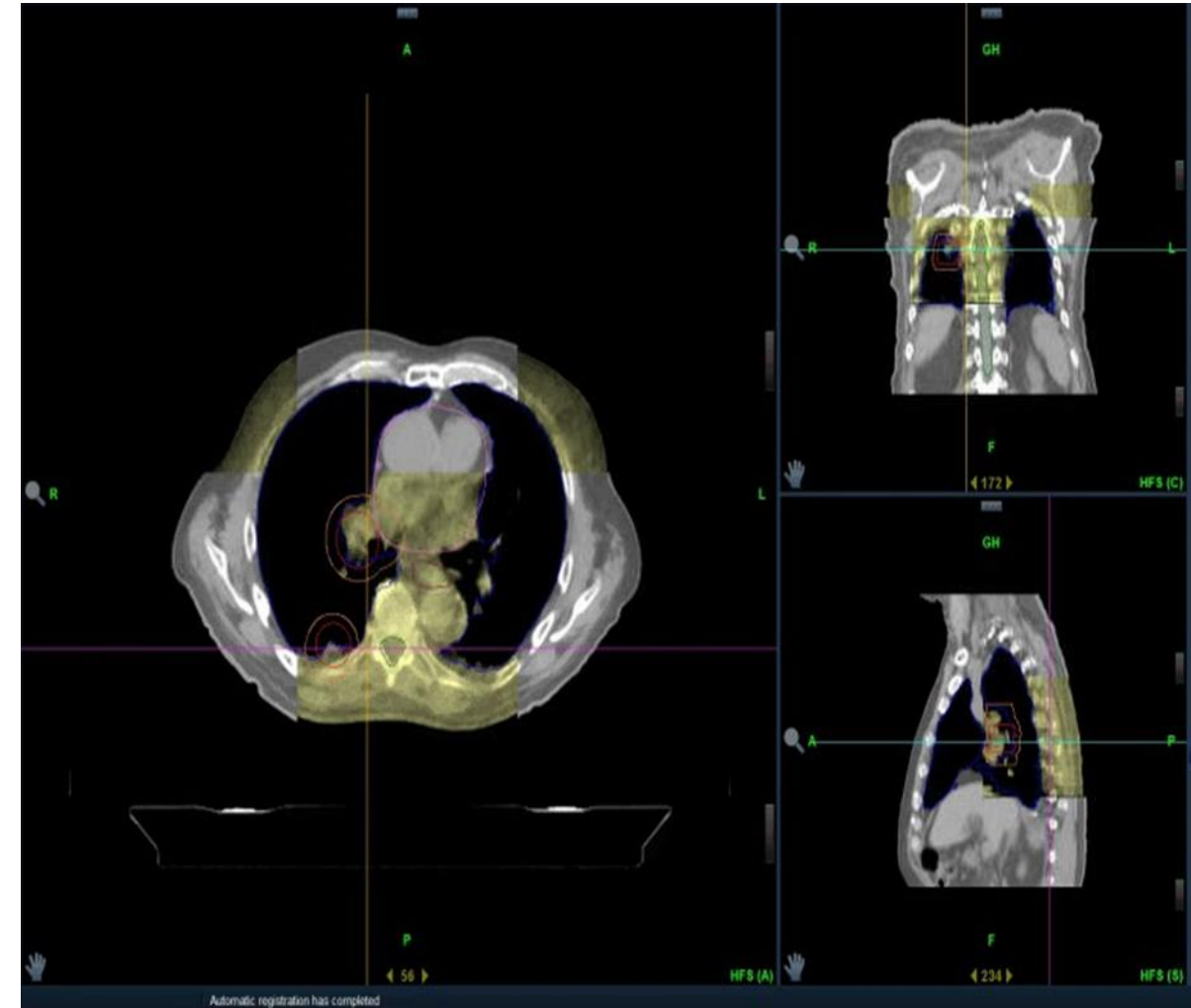


# *kV Lung Scan*

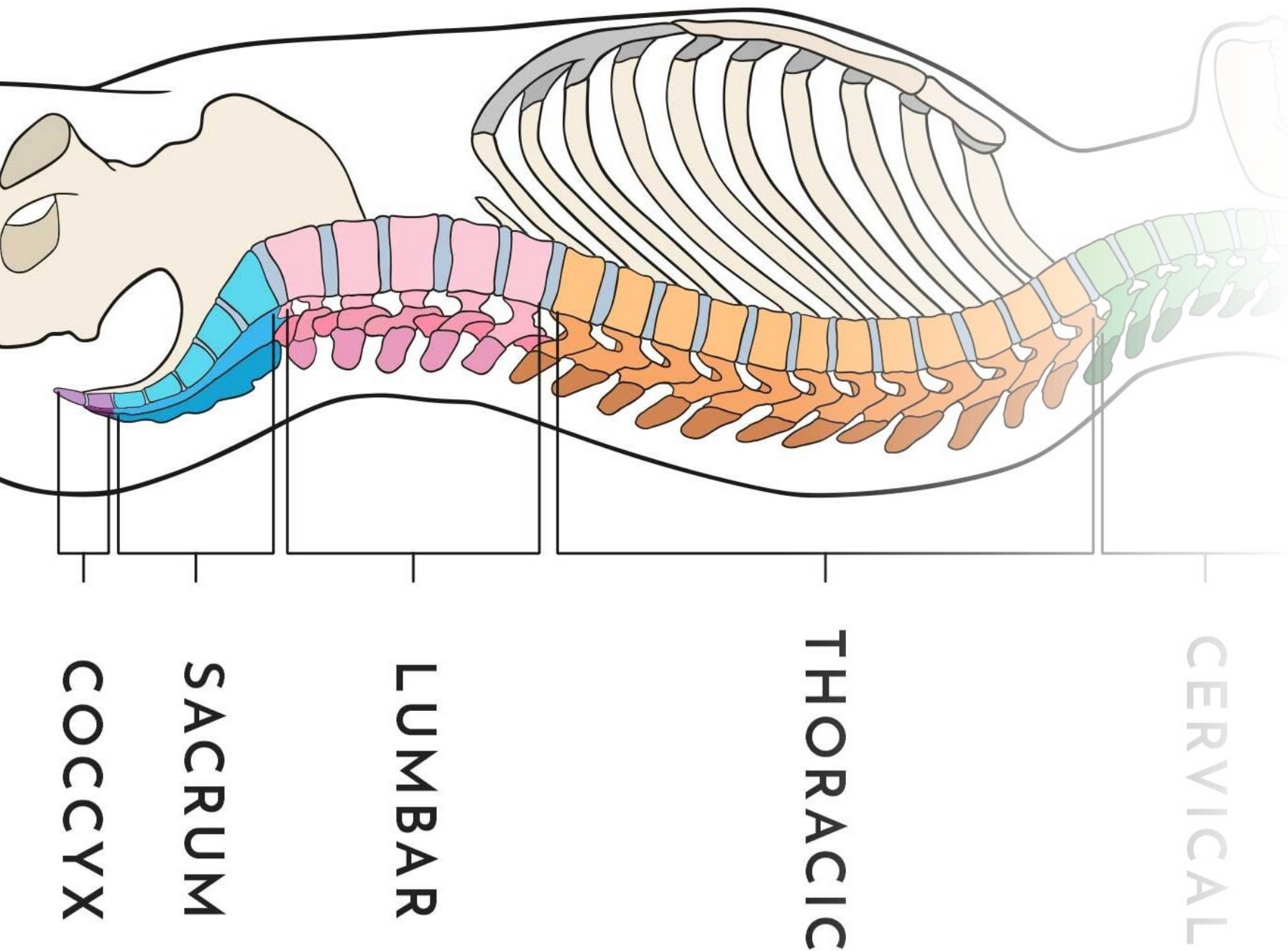
With the Radixact System ClearRT and CTrue, we can  
still image if one system is not available!



# *MV Lung Scan*







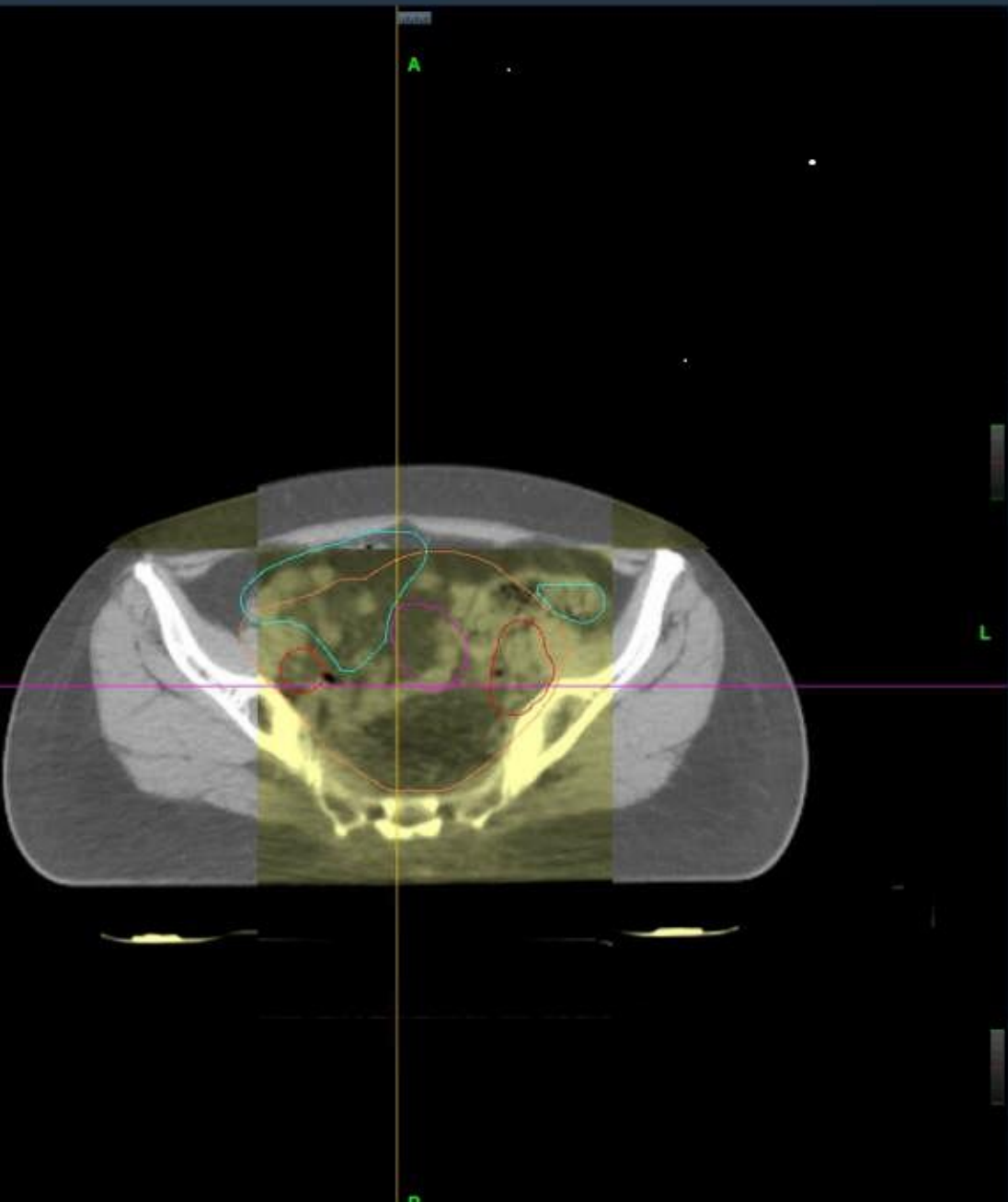
- We just completed treatment for a patient with a long spinal field
- The scan ranged from T12 to below the coccyx
- The kV scan was completed in 50 seconds
- MV scan would take 5 minutes

Register

Treat

☐ Coronal ☐ Sagittal

Scan Date: 22 Jul 2024, 02:28:30 PM



Automatic Registration

Bone and Tissue Technique

Fine Resolution

Translations+Roll

☐ Incomplete Field of View

Start

Manual Registration

☐ Coarse ☐ Fine

Export Screen

Balance

☐ Plan

Checker

☒ On

Image Filter

None

Translational Adjustments IECf (mm)

Lateral

Longitudinal

7.3

-1.9

Rotational Adjustments (degrees)

Pitch

Roll

0.0

-0.7

☐ Show Approval Confirmation☒ Accept Registration

Dose &amp; Lasers

VOIs

Display

☐ Lasers☐ Isodose☐ Wash

		cGy	%	Thickness
<input checked="" type="checkbox"/>	P	6,250	100.0	3
<input checked="" type="checkbox"/>		6,750	108.0	1
<input checked="" type="checkbox"/>		6,563	105.0	1
<input checked="" type="checkbox"/>		6,125	98.0	1
<input checked="" type="checkbox"/>		5,938	95.0	1
<input checked="" type="checkbox"/>		5,625	90.0	1
<input checked="" type="checkbox"/>		5,000	80.0	1

Dose Normalization Method

☐ Relative☐ Absolute

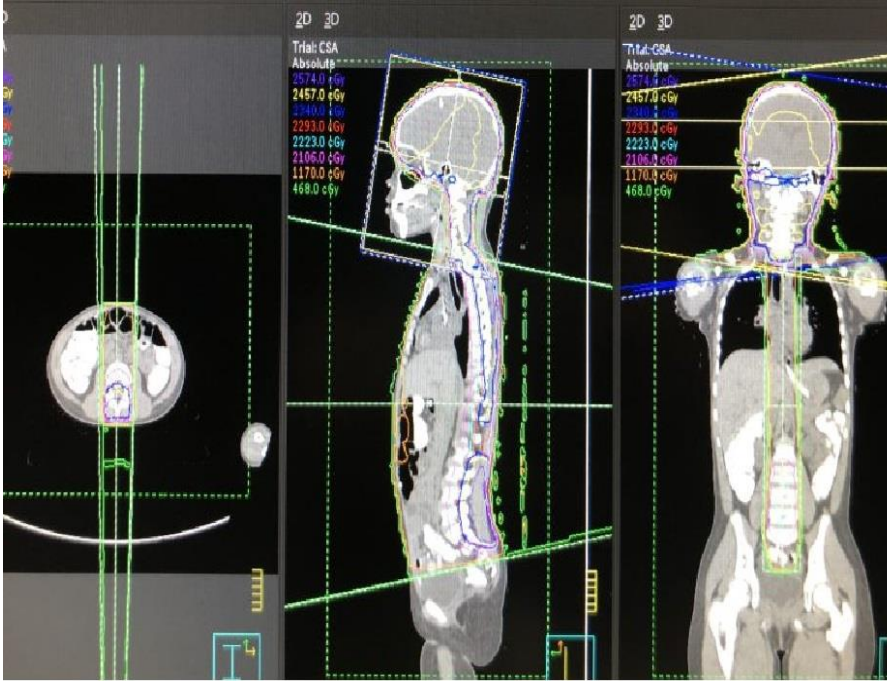
Reference Dose

☐ Prescription☒ Maximum

6,250



# ***Craniospinal***



## ***Linear Accelerator***

## ***Radixact System***

We can treat fields up to 135 cm in length. It's a single field with no gaps or junctions. A scan on our old TomoTherapy System (MV) would take about 12 minutes, whereas now, on the Radixact with ClearRT, it would take only 2 minutes.

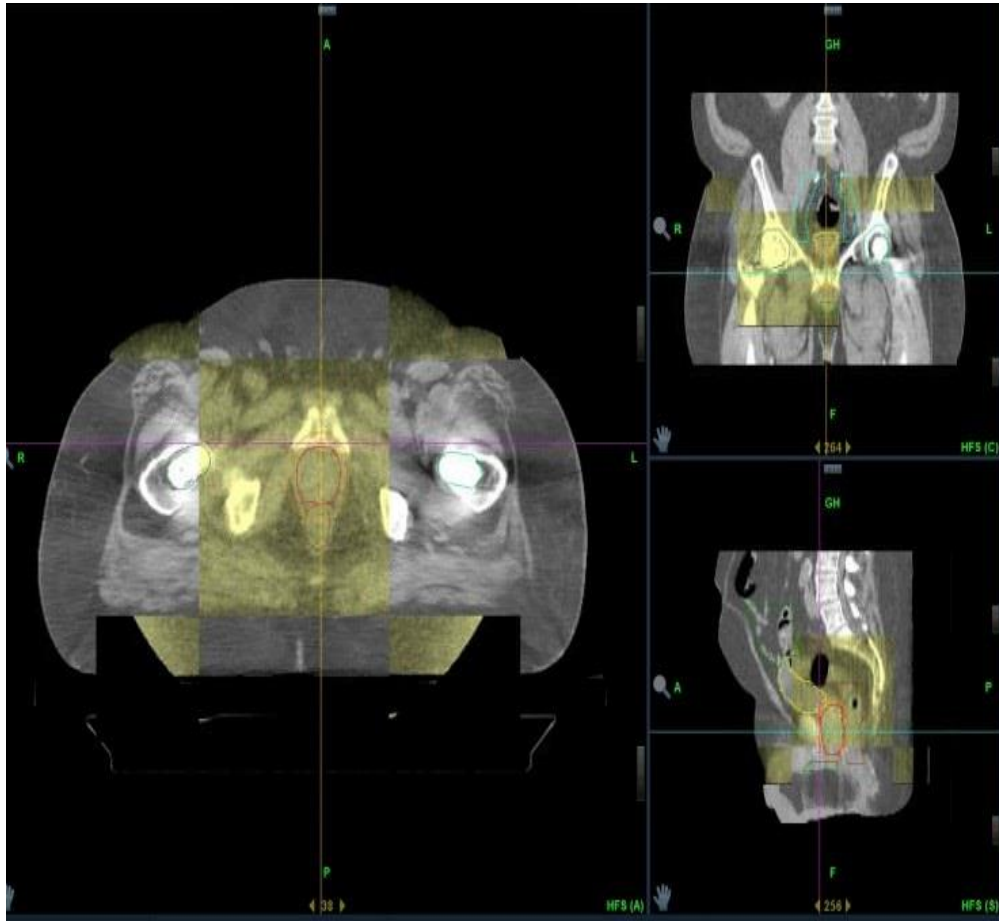
We haven't treated a craniospinal yet on our Radixact System, but I am almost looking forward to it, as ClearRT is so fast.



- 
- It can be this easy!
  - Who doesn't love a single field for craniospinal?

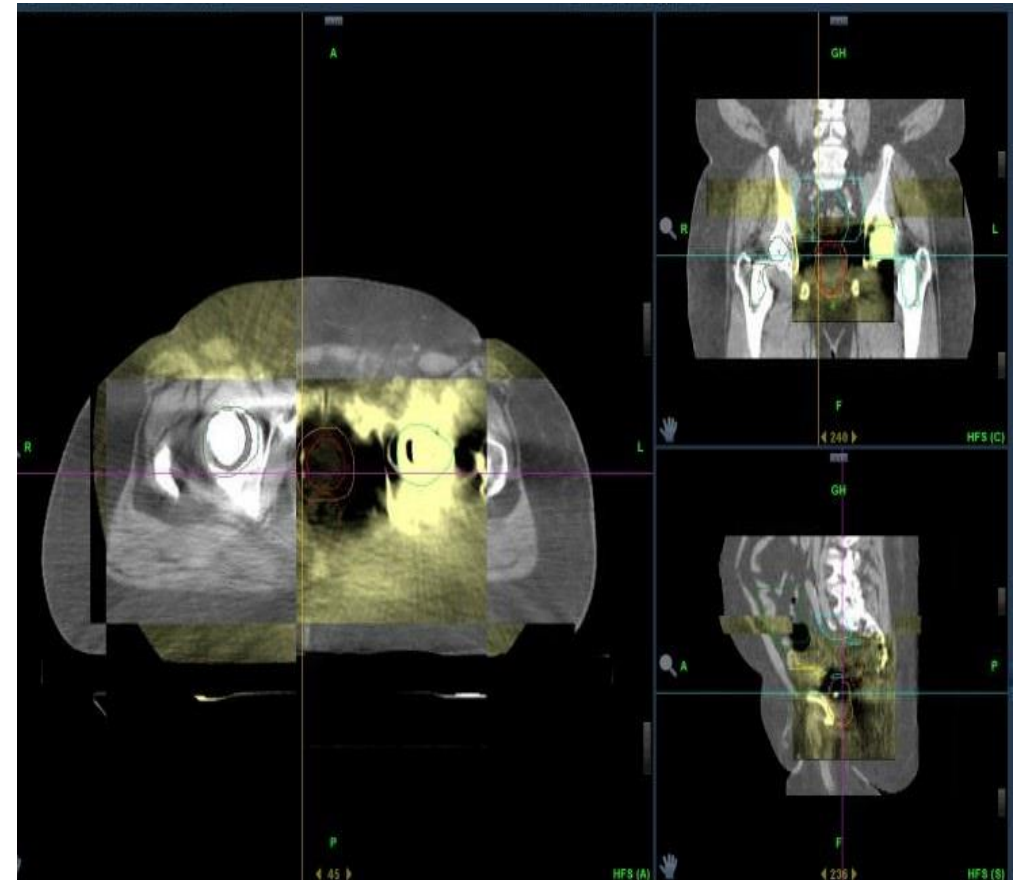






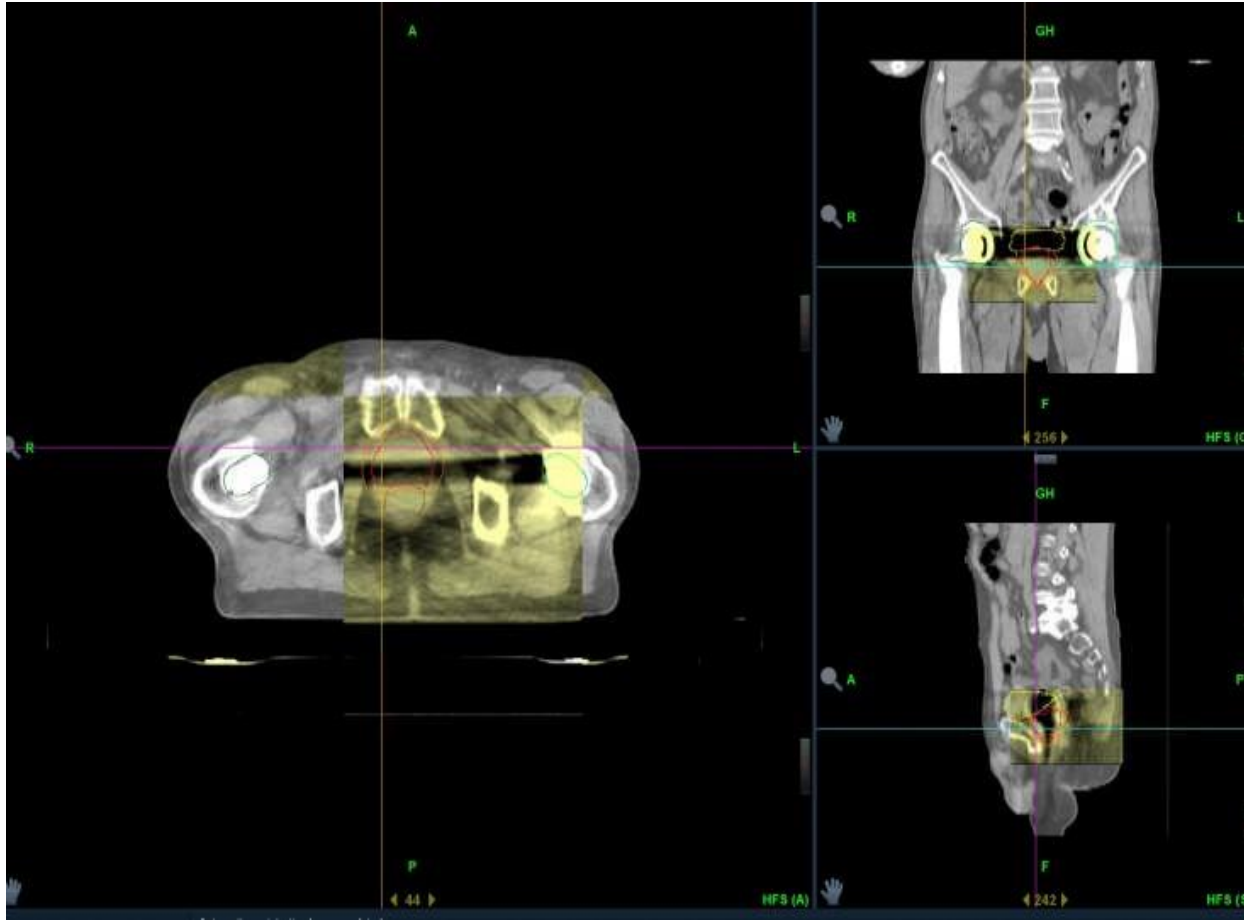
**It's the same patient with an MV scan.  
You can see how MV imaging is superior  
in this case.**

**Prostate patient with bilateral hip  
replacements. kV imaging gives  
artefacts and makes visualization  
more difficult.**

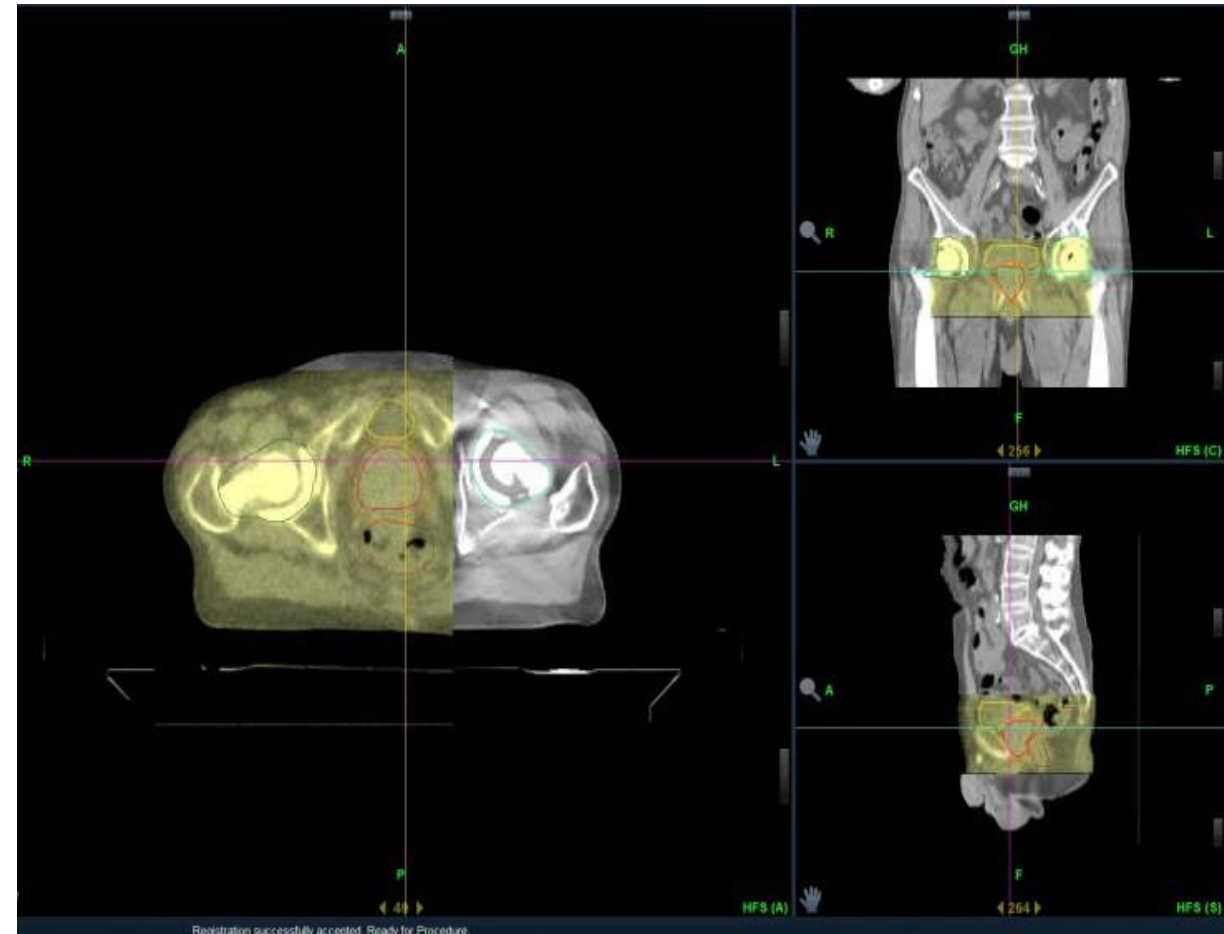


Another patient with same situation

MV



kV







***Halloween fun for your patients***



***Tomo(Therapy)  
Turkey Gives  
Thanks***





# ***Season's Greetings***

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***Radixact System would be a great addition  
to any department***

