

Ct Sim for Breast Cancer; LINAC Vs. Tomotherapy

Differences between process and accessories used,
Advantages and disadvantages of each method in treatment

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CT Sim similarities :

- *Supine position, Prone position*
- *breast wedge*
- *Wing board*
- *Use of footrest and knee rest*
- *Number of radiopaque markers/tattoos*



CT Sim similarities :

Supine position: both techniques

- Suitable wedge and armrest
- Hands up with wing board
- Suitable neckrest
- 9 markers and tattoos (2 more on arm for tomo)
- Use of footrest and kneerest



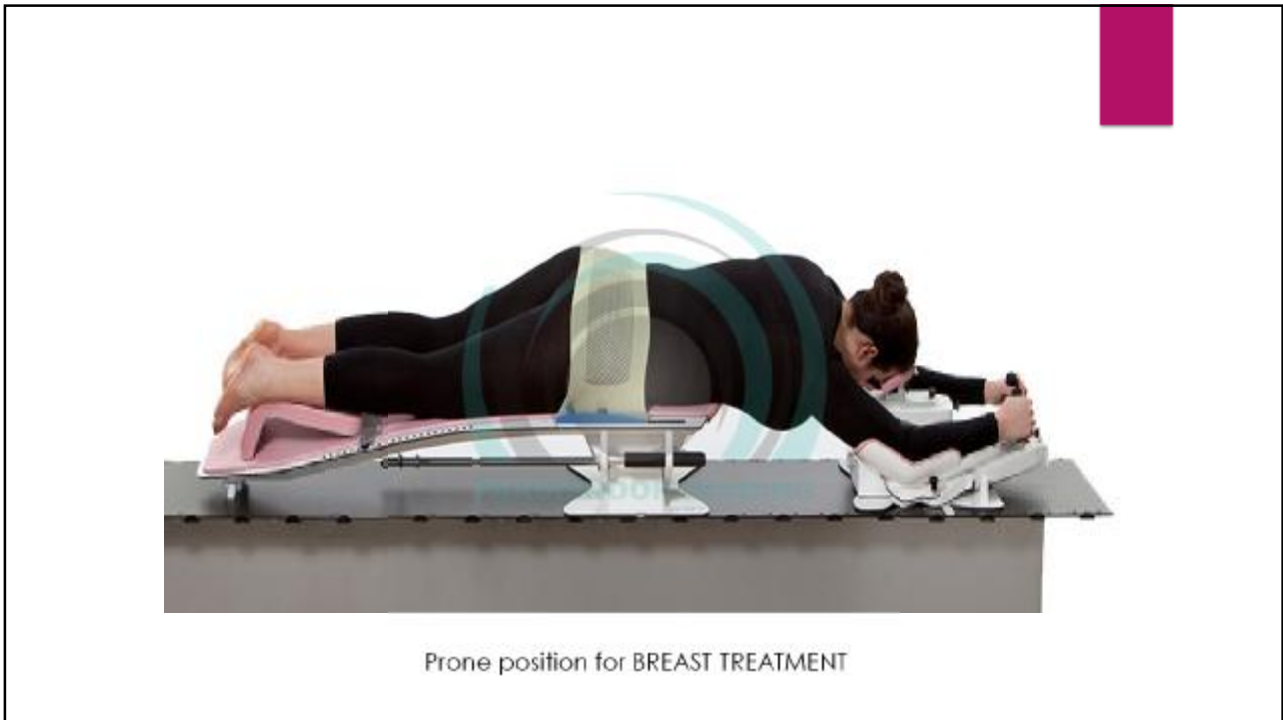


CT Sim similarities :

Prone position: both techniques

- Larger breast size (easier to manipulate)
- Consider patient's weight
- Consider patient's mobility
- Cervical spine or shoulder pain.
- Difficult for patients with claustrophobia
- Difficult for anxious patients



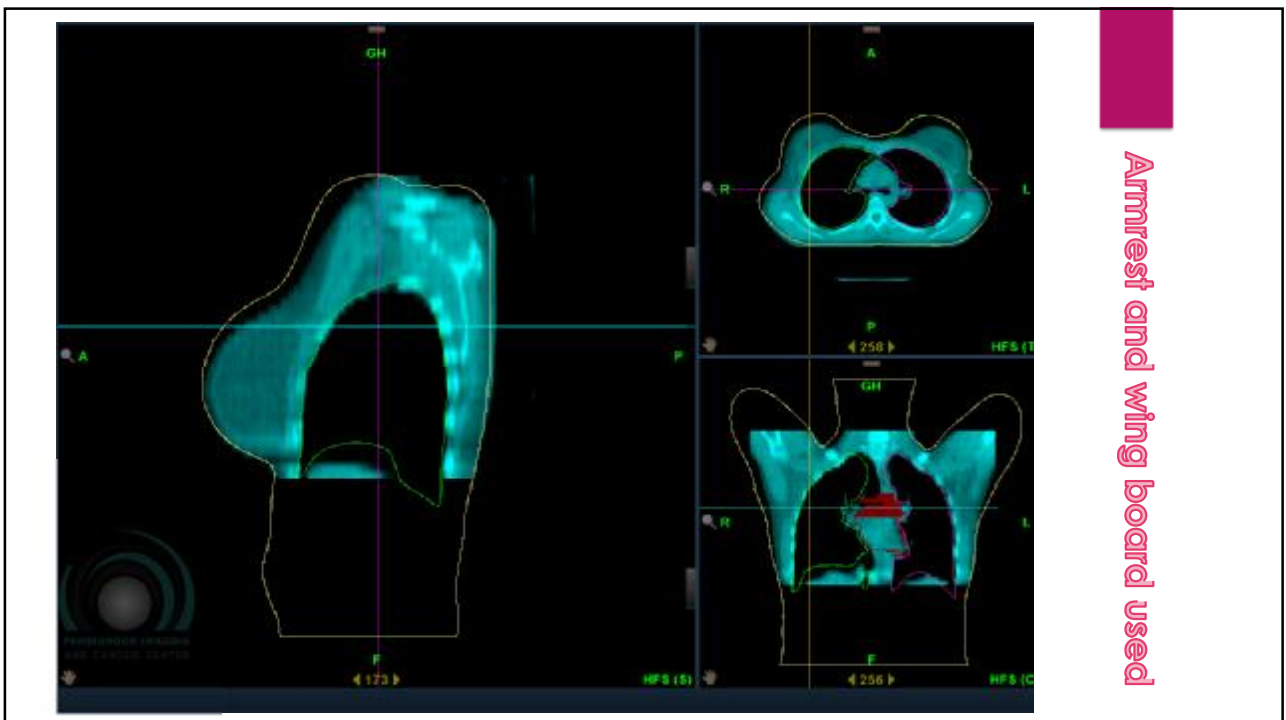


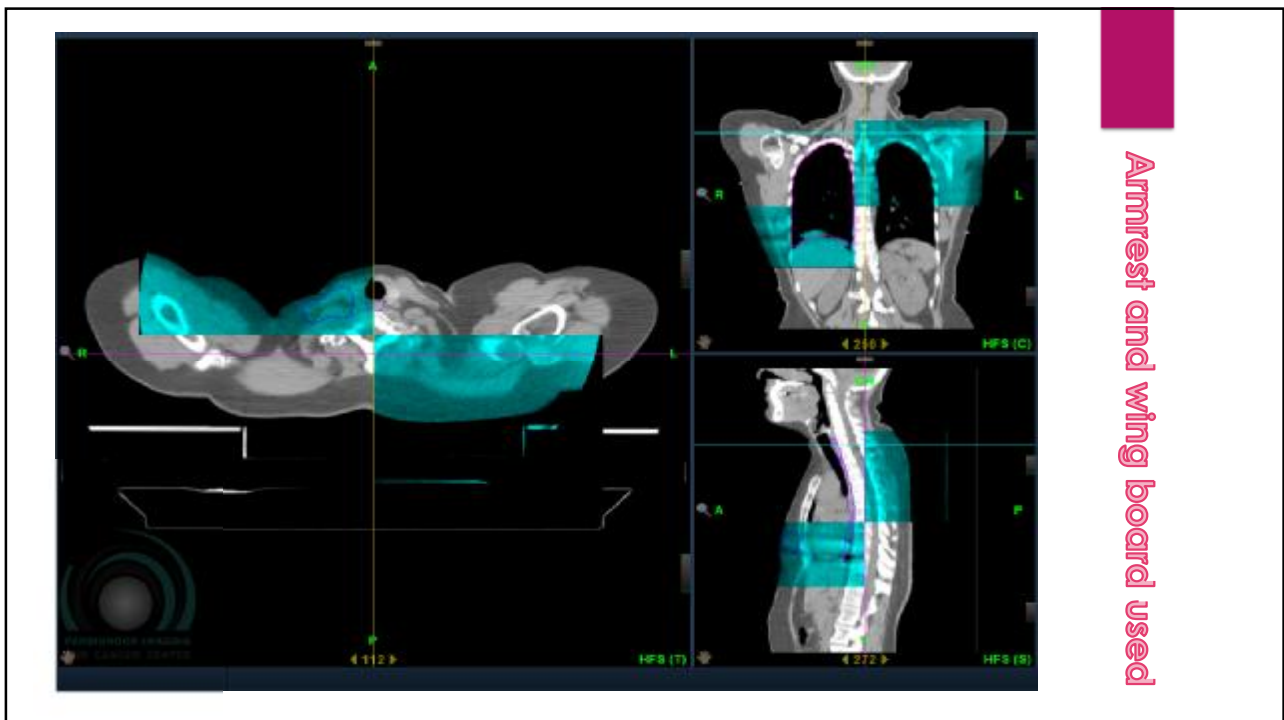
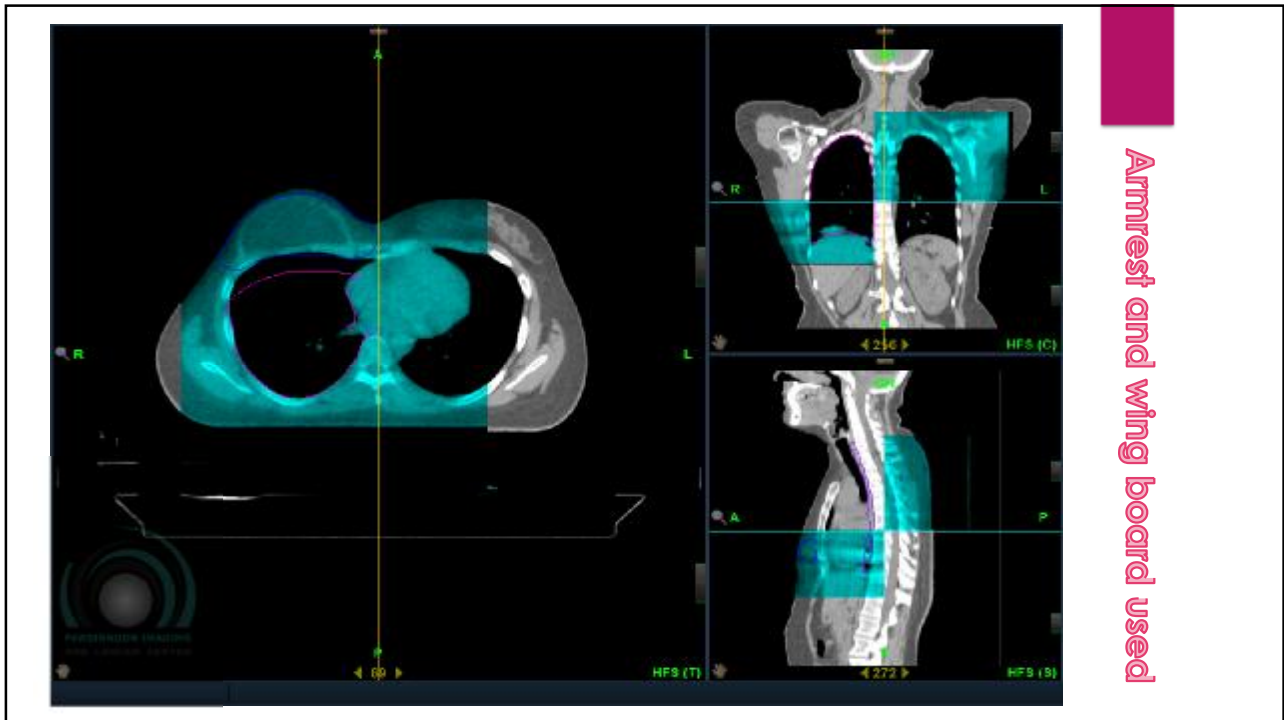
CT Sim similarities :

Use of breast wedge:

- Mostly used in linac
- Challenging in obese patients
- Note: increase of absorption in helical therapy

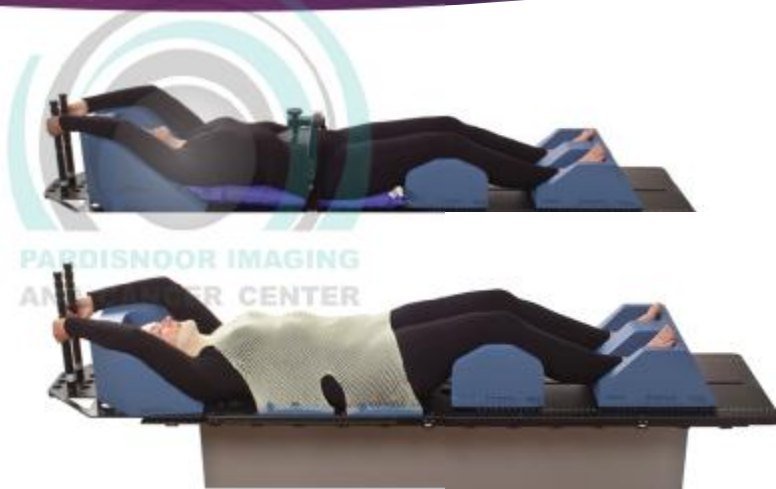
PARDISNOOR IMAGING AND CANCER CENTER





CT Sim differences :

- Vacloc
- Thermoplast
- More markers on arms



Tomotherapy Vs. LINAC:

Tomotherapy

- More time for setup and treatment
- Physic of body is important
- No field,SSD,BEV,etc available before treatment
- Better lung and heart sparing

Linac

- Less time is spent
- No limitations for setup and CT
- BEV,SSD,field size and borders
- Limitations in organ sparing

