

Prone Breast

Patient Positioning for simulation
and treatment
Maria Durlak RTT

Outline

- ◉ Prone breast board
- ◉ Patient Position
- ◉ Location of wires for CT simulation & tattoos
- ◉ Verification day
- ◉ Setup instructions for daily treatments
- ◉ Challenges with prone treatments

Immobilization device

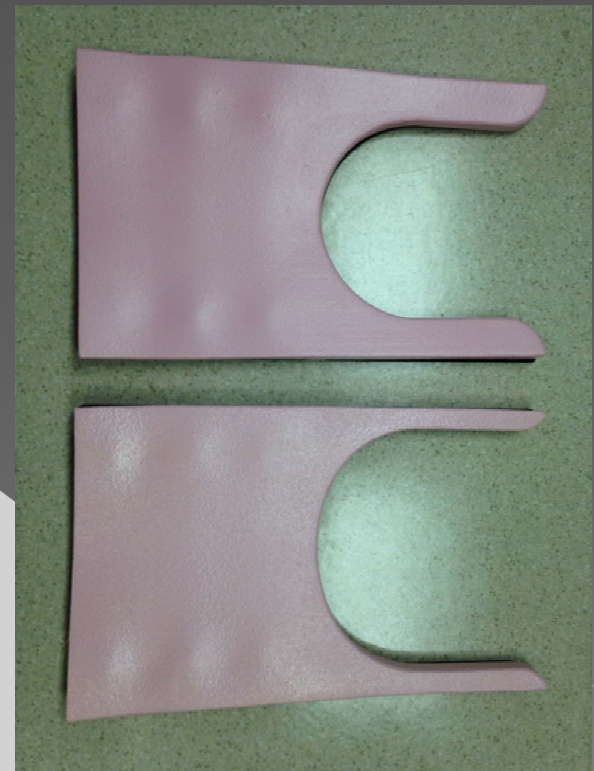
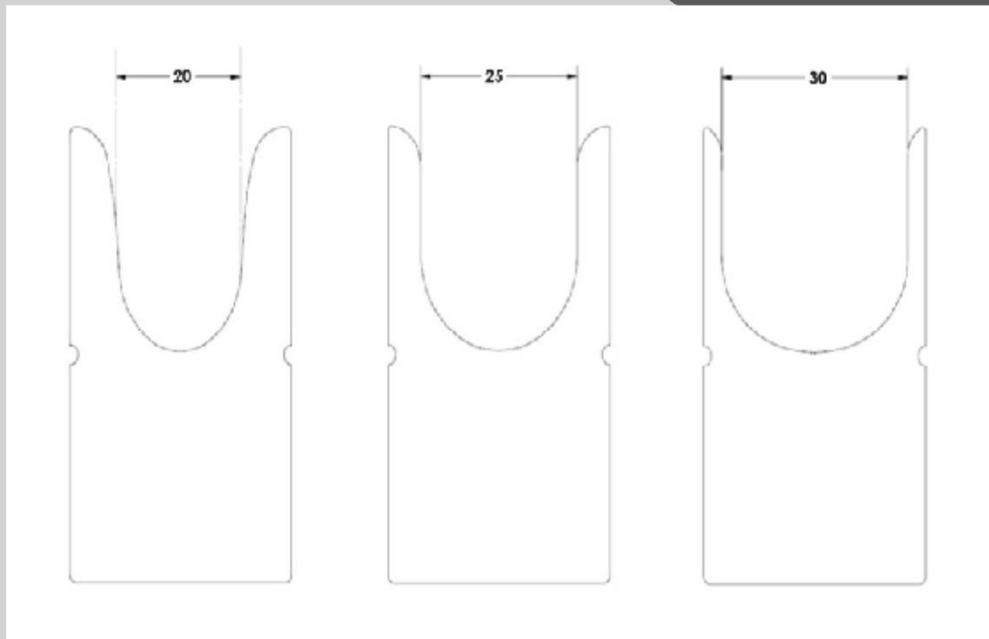
- ClearVue Prone Breast Board
- Indexed to Linac couch and sim table with index bars
- Interchangeable for Right & Left



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Immobilization device

- INSERT OPTIONS & DIMENSIONS



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Device

- ◉ Limited to 18cm of space between surface and base
- ◉ Rulers
 - > Vertical
 - > Horizontal



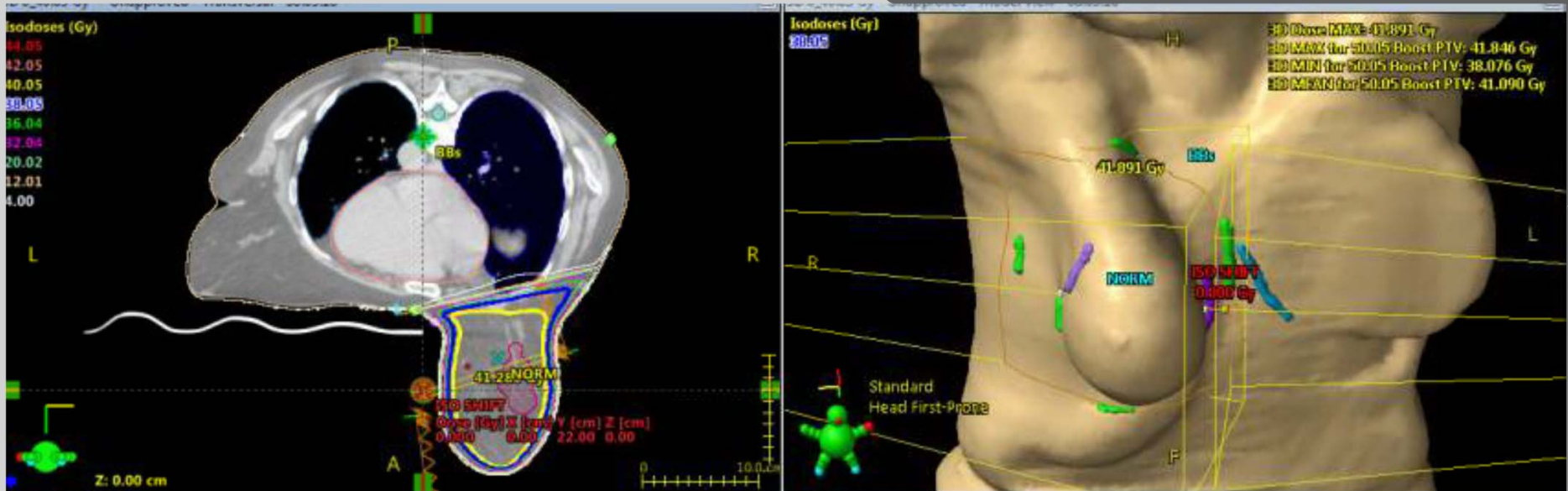
Device



- Step stool
- Sheet size

Patient Position

- Head turned toward treatment side
 - > Creates a tripod position (minimize rotation)
- Body NOT rotated
- Arms above head holding bars
- Knee roll cushion under ankles



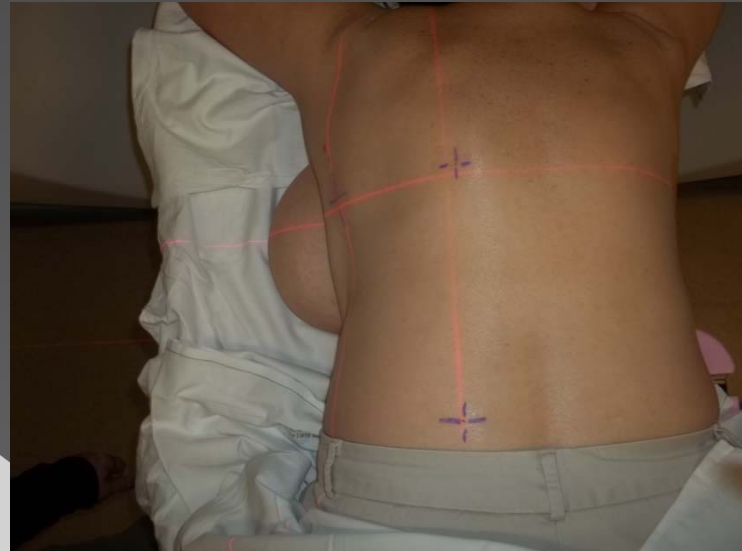
Wires

- Place wires
 - > Lumpectomy scar
 - > Nodal scar
 - > Midline
 - > Edge of both breast tissue
 - > Borders of breast tissue (2 cm margin)



Simulation

- Have patient move so midline wire is palpable in cutout opening
- Swipe contralateral breast out
- Keep couch lateral at 0



Simulation

- Make sure sim table is as low as possible to include entire body contour
- Check sup/inf position of breast
- Scan angle of mandible to L3



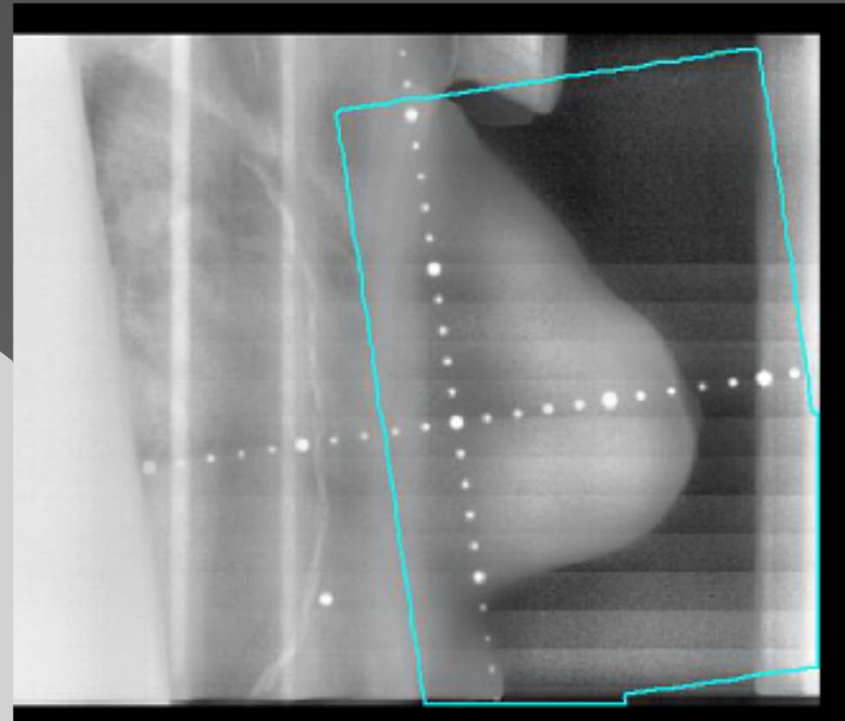
Simulation

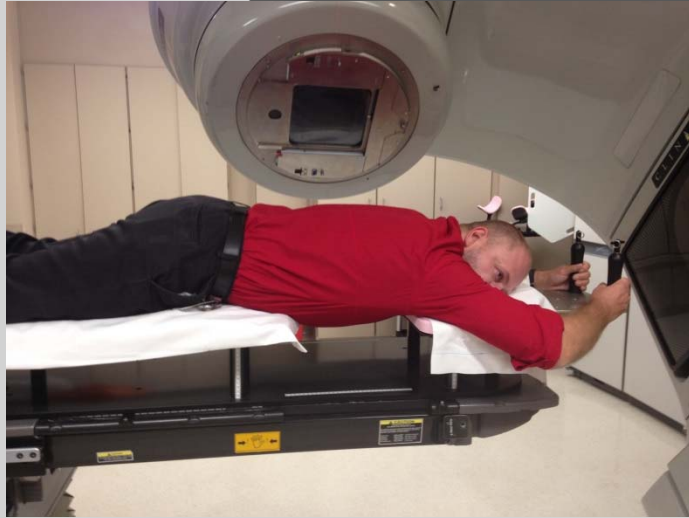
- ◎ 5 Tattoos
 - > 1 on breast
 - Mid nipple
 - Relatively flat
 - > 4 on back
 - Lower straightening
 - Laser at 0 Not necessarily midline
- ◎ Take landmarks
 - > Most inf crease of neck
 - > Record rulers
 - Vertical
 - Horizontal



Verification Day

- Wire contralateral breast with double solder wire
 - > Documents edge of treatment field
- Image all fields
- Film for first week of treatment
- Treat on 21EX-S
 - > MV films







Treatment

- Set table
 - > Couch lateral to zero
 - > Set horizontal ruler
- Have patient move into settings
- Swipe contralateral breast
- Triangulate
- Feel for sternum



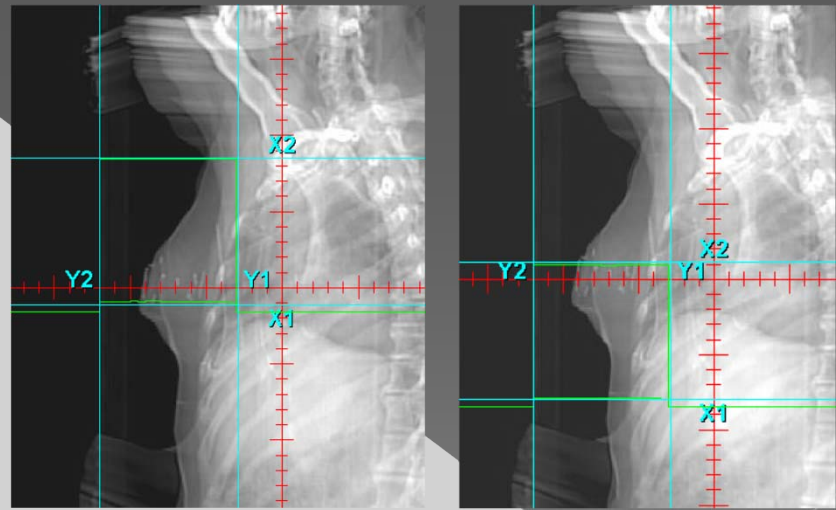
Treatment

- Raise table to breast tattoo
- Rotate gantry to lateral reference
 - > Set SSD on breast tattoo
- Rotate gantry to lateral treatment field check treatment SSD



Challenges

- Placement of tattoo



Challenges

- Moving patients on the prone board
 - > Transfer sheets
- Patients rolling into cutout
 - > Neck pain
 - Patient movement to readjust
 - > Tried using warm rice bags



Challenges

- Breast hang is more than 18cm
 - > Use Styrofoam



Thank you!

- ◉ Special Thanks to
 - > Jennifer Buil
 - > Teresa Kishel
 - > Rachel Hackett