

The logo for UW Health, featuring the letters 'UW' in red and 'Health' in blue, set against a background of a light gray hexagonal grid pattern.

UW Health

Time savings and efficiency with SGRT

Mary Slagle R.T.(T)

Disclosures

- Trained exclusively at UW - Health
- Experience with SGRT is with the AlignRT system
- No financial interest

About Me – Mary Slagle R.T.(T)



- July 2024 graduate of UW – La Crosse
- Hired at UW – Health in August 2024
- TrueBeams with AlignRT



Focus: Postural Video

- Enhanced visualization
- Improved efficiency/accuracy
- Clinical uses

Postural Video – Overview¹

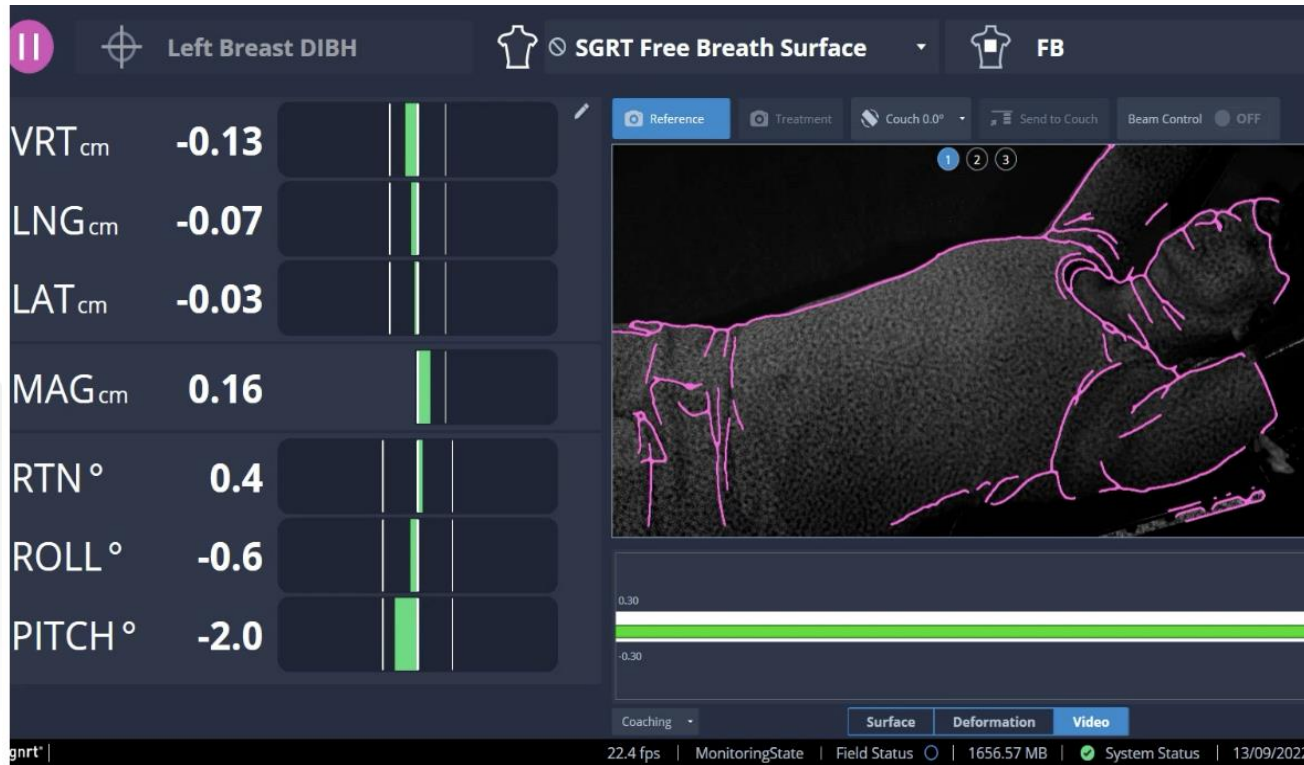
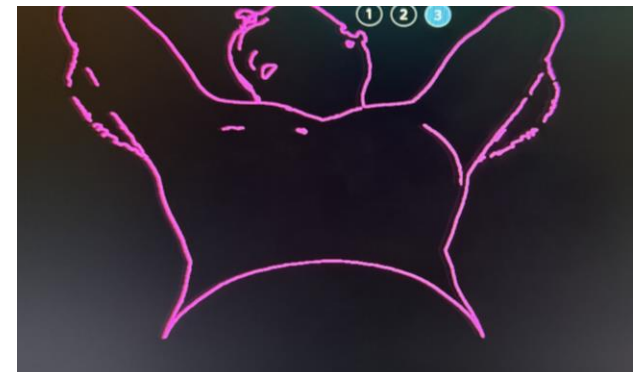
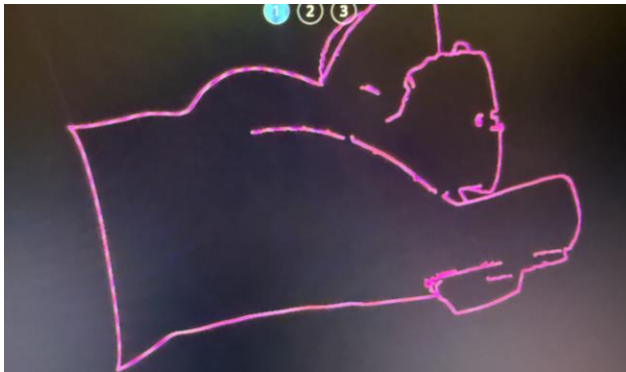


Photo courtesy of VisionRT

- View of patient's position compared to reference position
- Live video feed
- Body contour
- Multi angle view

Enhanced Visualization¹⁻²

- 3 camera angles
- Real time live video feed
- Whole picture versus ROI
- Set up and monitor for inter-and intra-fraction motion

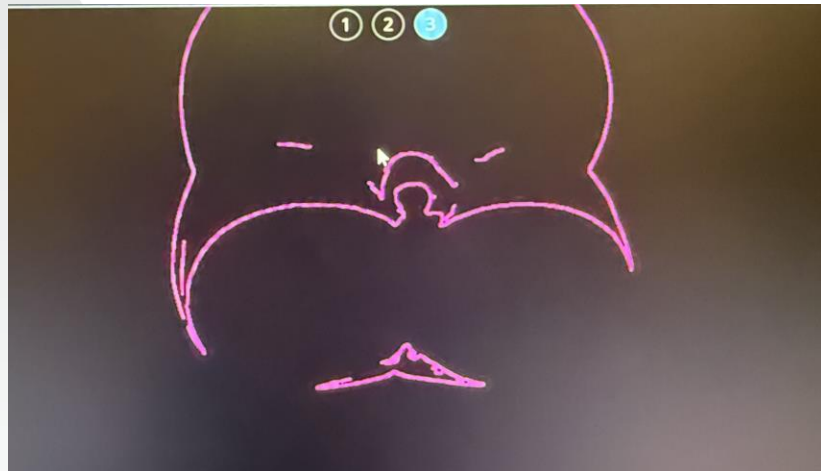
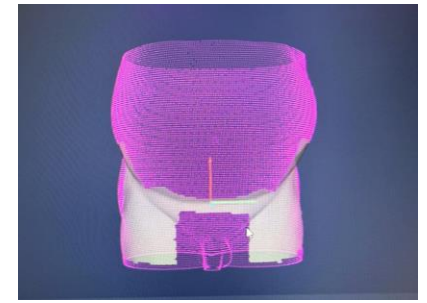


Photos courtesy of UW-Health

Improved efficiency/accuracy³⁻⁶

- Right-sided breast cancer receiving adjuvant locoregional radiation therapy after breast-conserving surgery
 - Reduction of 40 sec in set up time on average
- Two sites with similar caseloads compared 250 treatment fractions
 - Set up time reduce by 24.6 sec per fraction
 - 28.8% reduction in set up time
 - Reduction of reimaging rate by 63%
 - Wait time reduced by 60 sec
 - 60 sec reduction time for upper extremity
- Left breast cancer receiving adjuvant whole breast DIBH radiation therapy
 - Improved the inter-fraction displacement by 19% in longitudinal, 7% lateral, and 15% vertical

Clinical Applications: Pelvis⁵



Setup time reduction: 23.7 sec (32.6%)

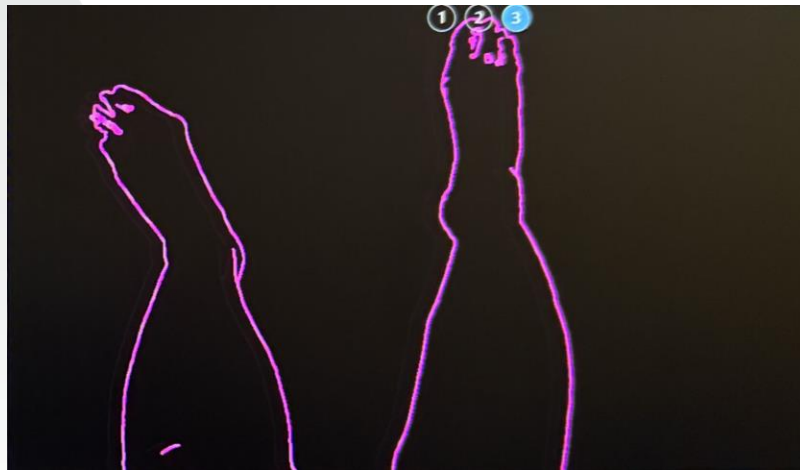
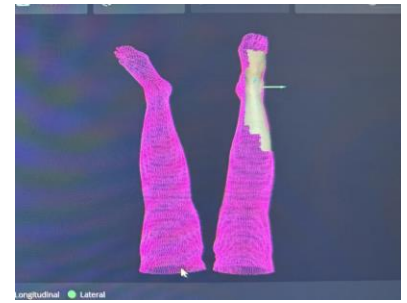
Landmarks

- Umbilicus
- Inguinal crease



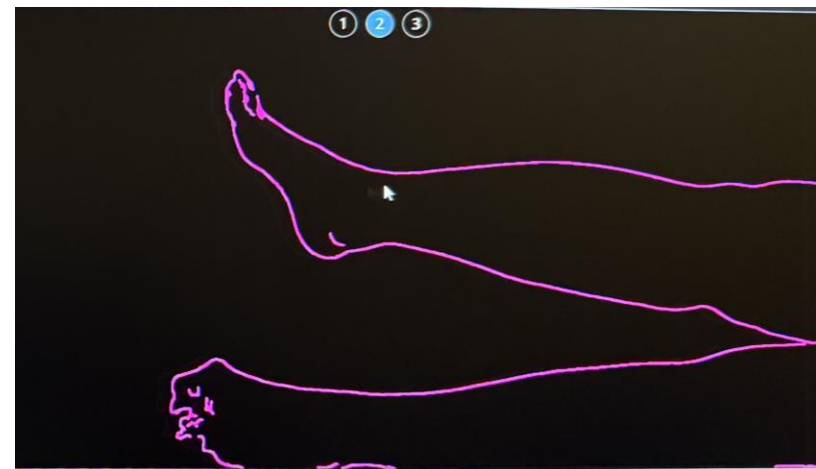
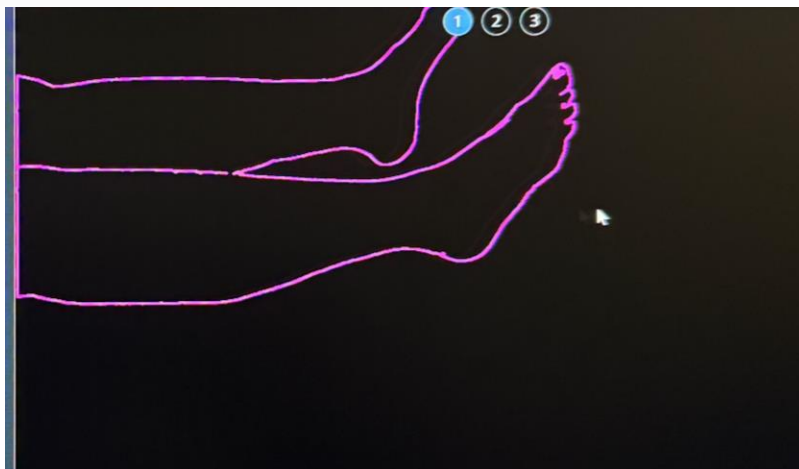
Photos courtesy of UW-Health

Clinical Applications: Extremity



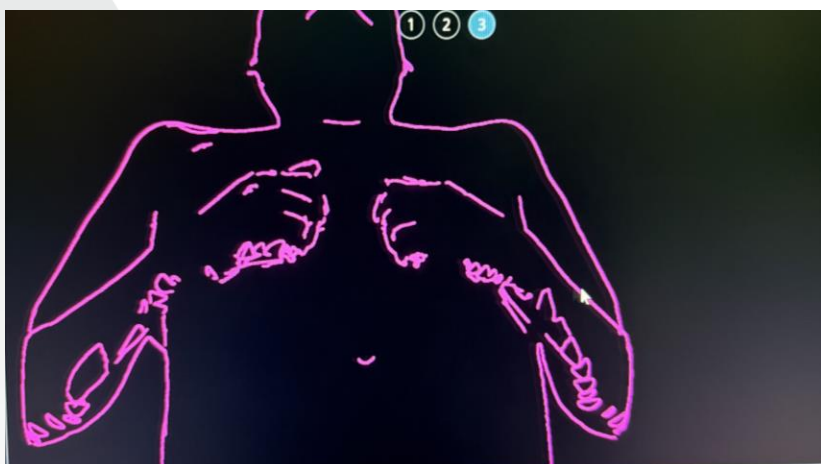
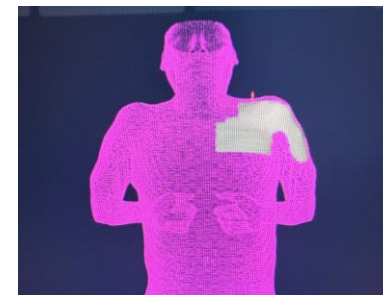
Landmarks

- Toes
- Arch of foot
- Heel
- Knee joint



Photos courtesy of UW-Health

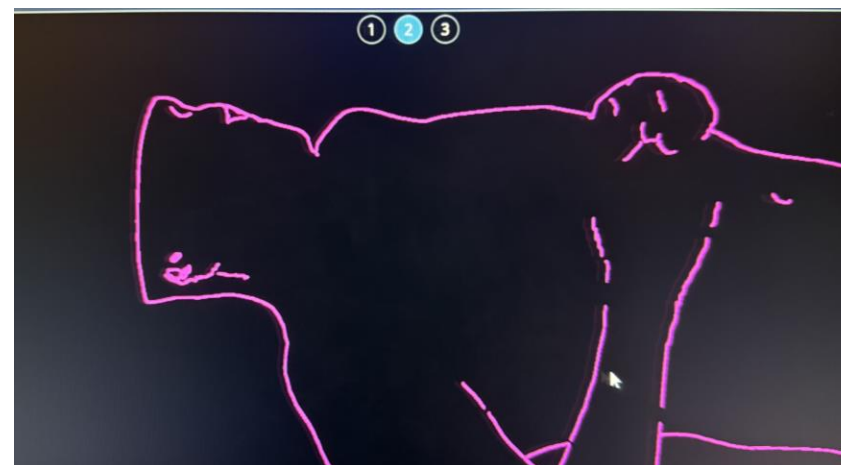
Clinical Applications: Extremity⁵



Setup time reduction: 60 sec (33.33%)

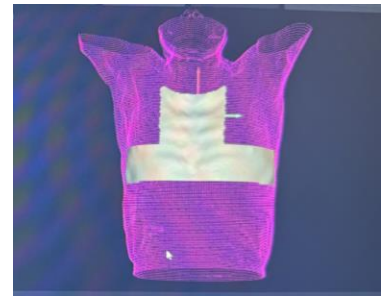
Landmarks

- Shoulders
- Elbows
- Forearms



Photos courtesy of UW-Health

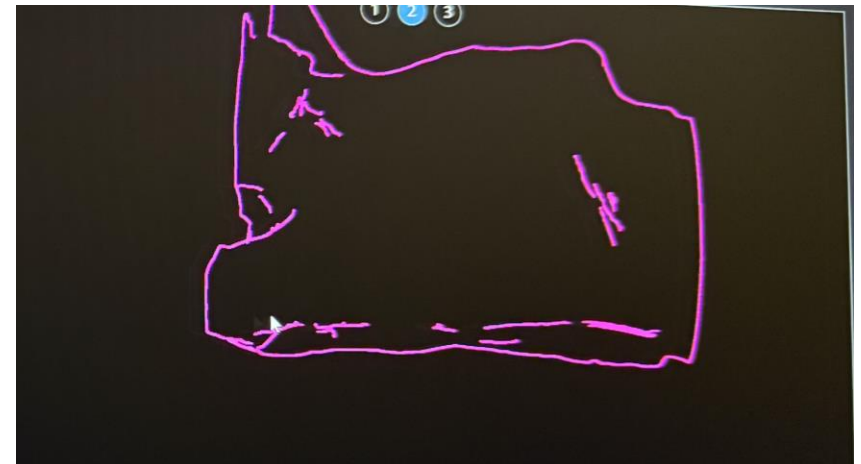
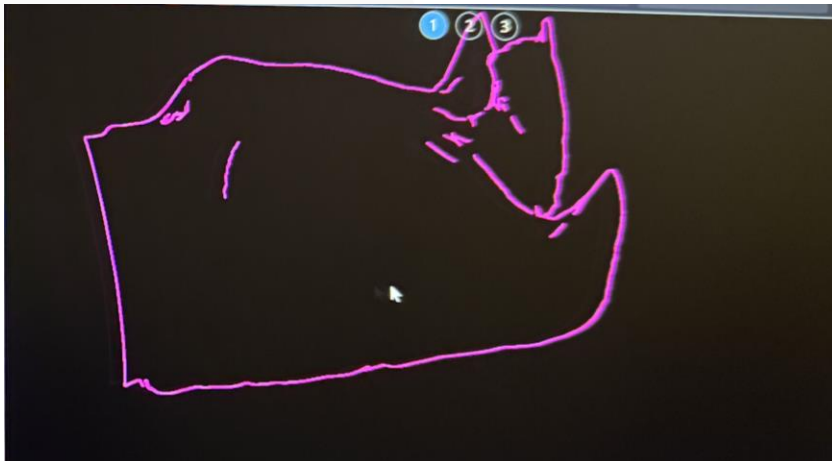
Clinical Applications: Esophagus⁵



Setup time reduction: 16.3 sec (22.5%)

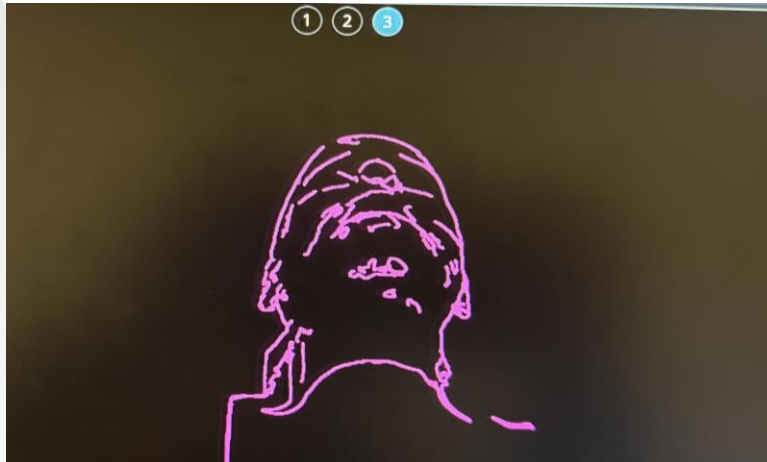
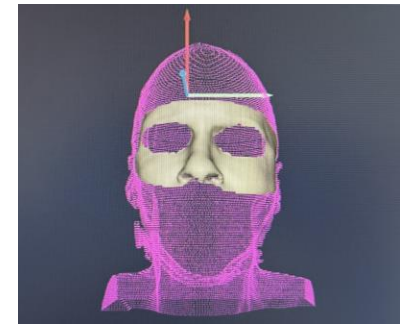
Landmarks

- Chin
- Rib cage



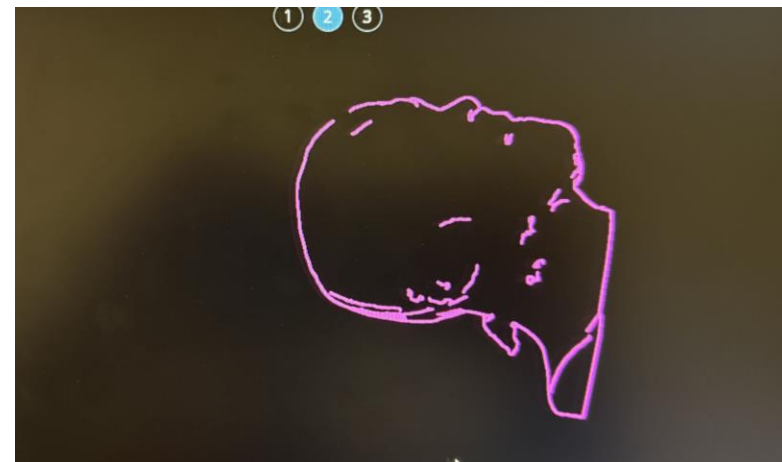
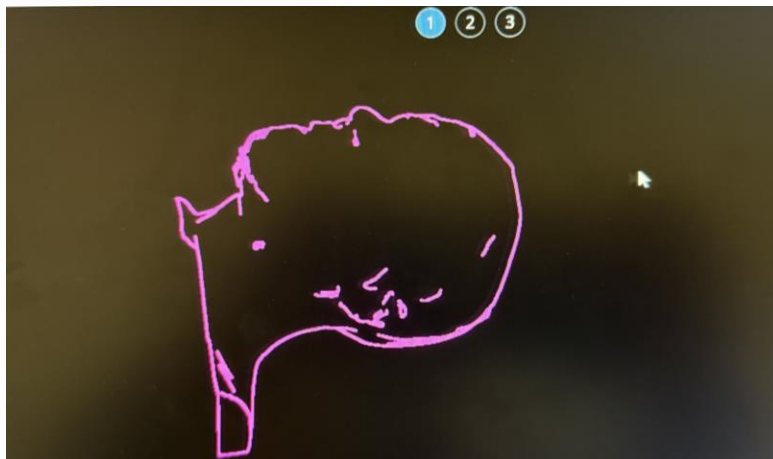
Photos courtesy of UW-Health

Clinical Applications: Brain



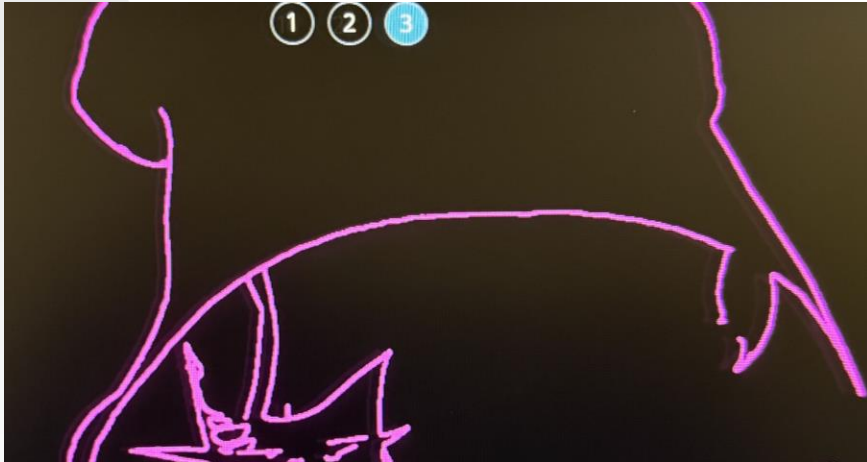
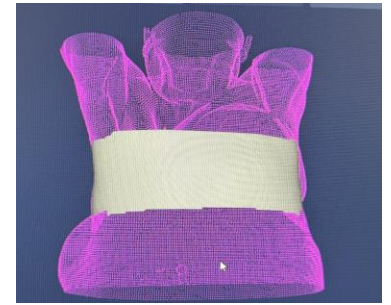
Landmarks

- Chin
- Nose
- Mask



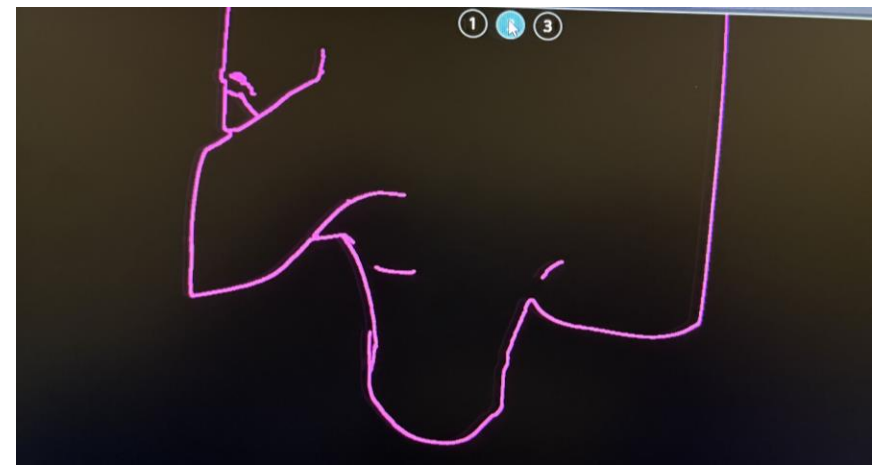
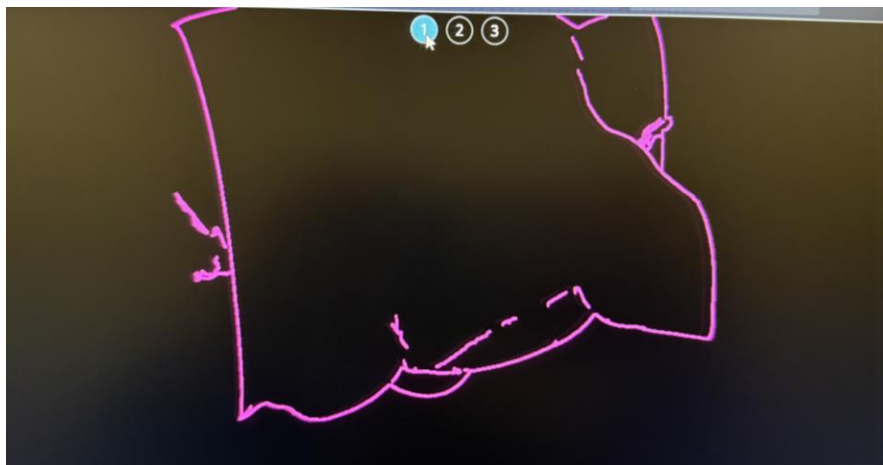
Photos courtesy of UW-Health

Clinical Applications: Prone Breast



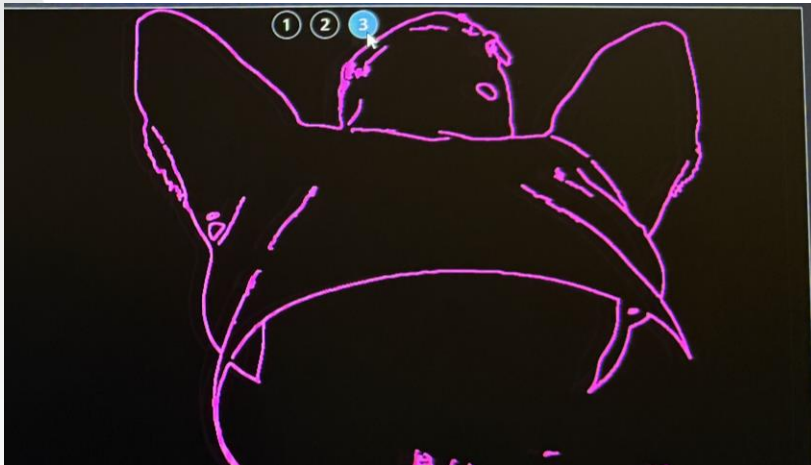
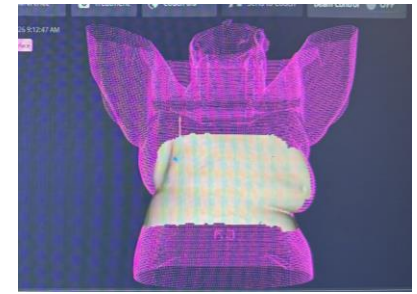
Landmarks

- Breast
- Arm
- Skin creases



Photos courtesy of UW-Health

Clinical Applications: Breast⁵

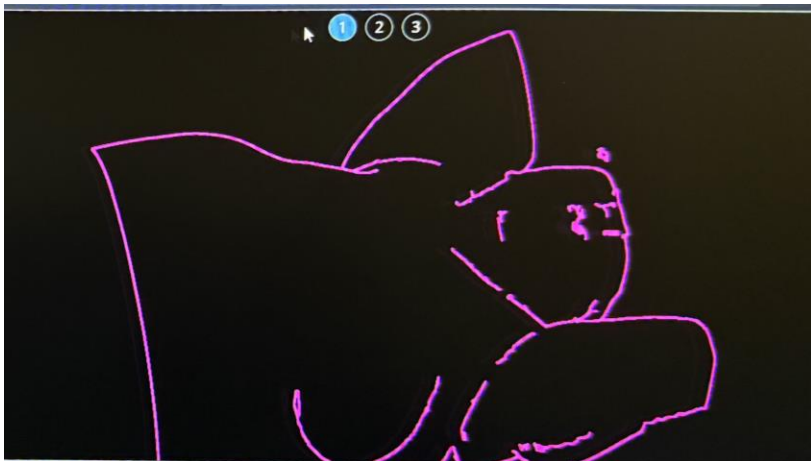


Setup time reduction:

- R Breast (FB): **36.1 sec (39.1%)**
- L breast (DIBH): **33.9 (35.3%)**

Landmarks

- Arms
- Breast
- Chin

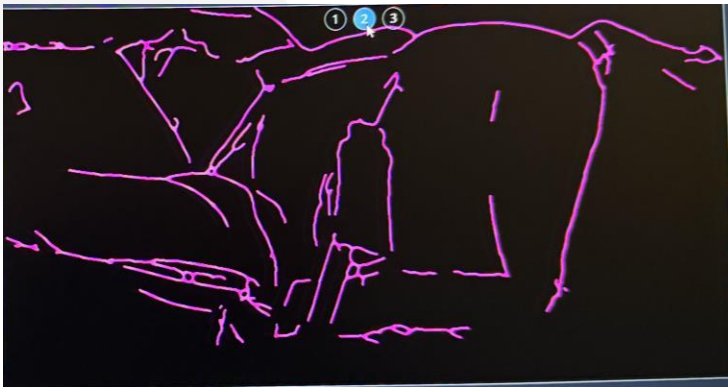
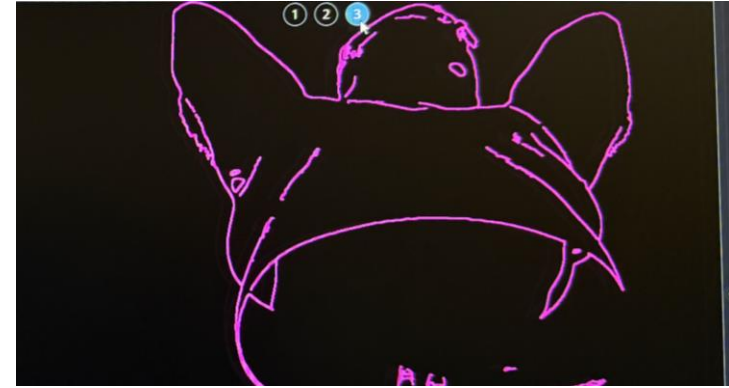


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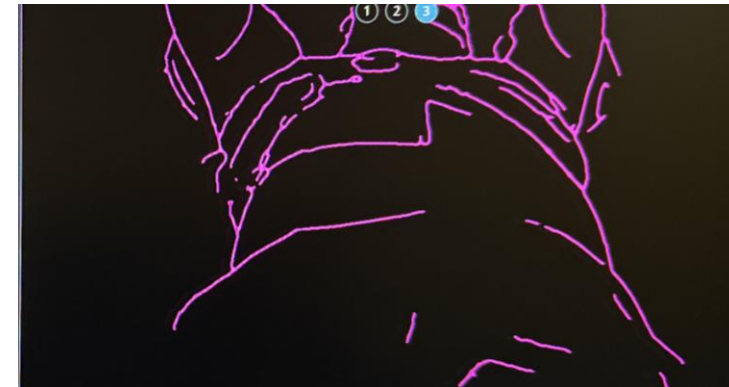
Clinical Applications: Saving SGRTs for future use



CT SIM



SGRT



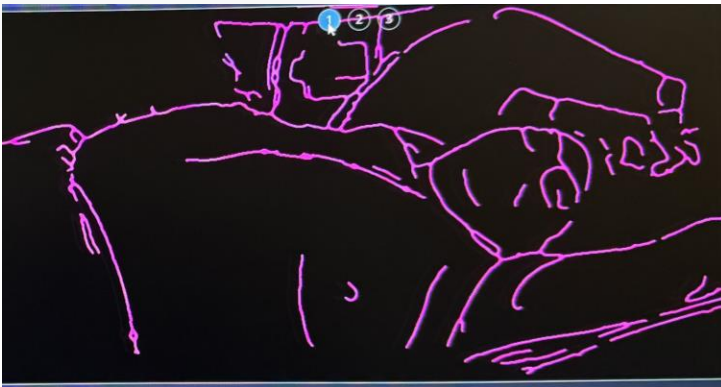
Photos courtesy of UW-Health

- Gantry at 0
- Blankets/towels out of field
- Imagers retracted
- Capture when there is minimal shifts

Clinical Applications: Saving SGRTs for future use



CT SIM



SGRT



Photos courtesy of UW-Health

References

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6. Alaimo R, Ippolito E, Meffe G et al. Video-based postural alignment improves accuracy of breath hold treatment delivery in breast cancer patients. *Reports of Practical Oncology and Radiotherapy*. Published online January 17, 2026. doi:10.5603/rpor.110471.

The logo for UW Health, featuring the letters 'UW' in red and 'Health' in blue, set against a background of a light gray hexagonal grid pattern.

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The word 'QUESTION?' in a bold, dark blue, sans-serif font, centered on the hexagonal grid background.

QUESTION?