

No improvement in kV-MV based setup for

# breast radiotherapy

with optical

# surface guided

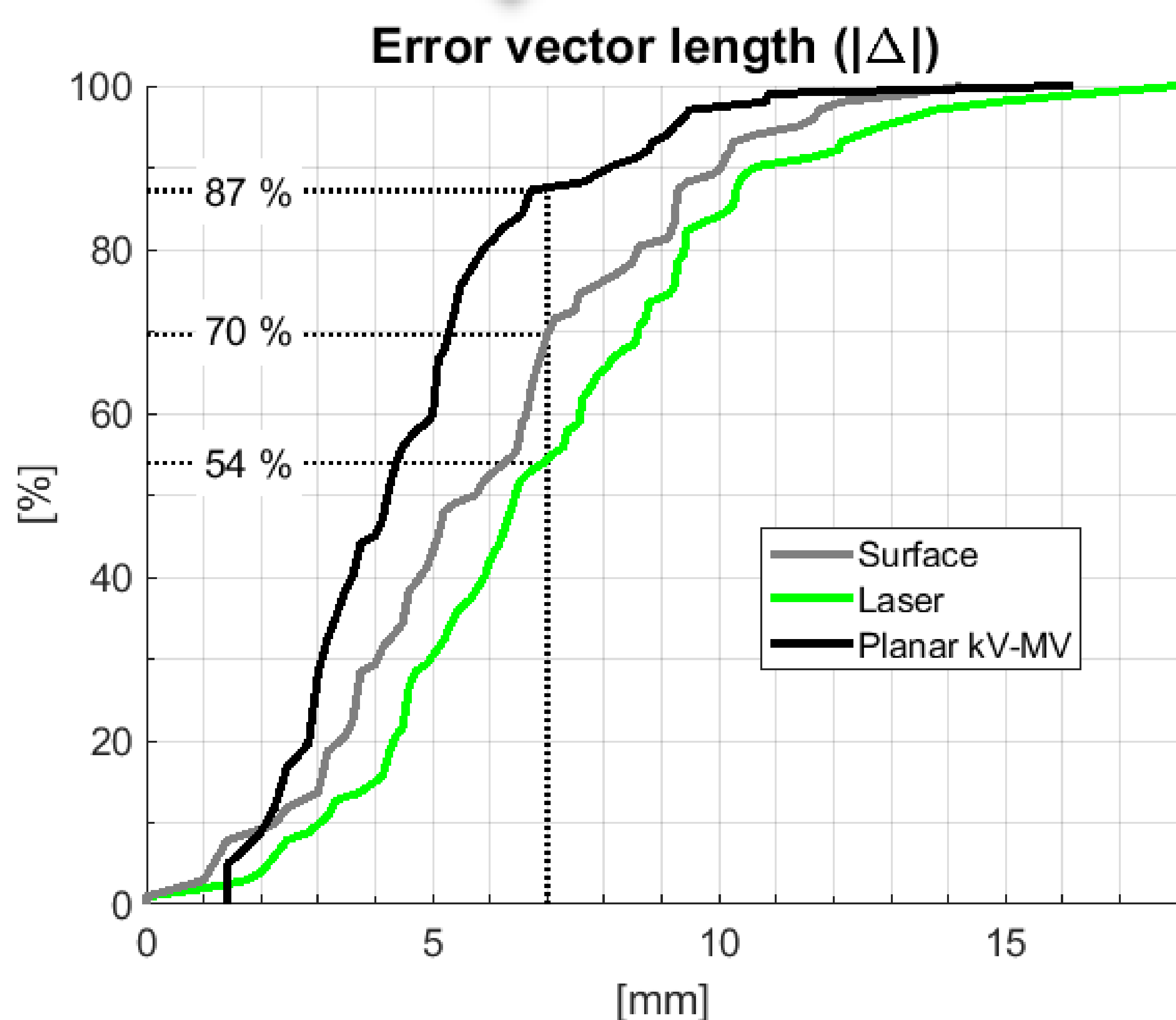
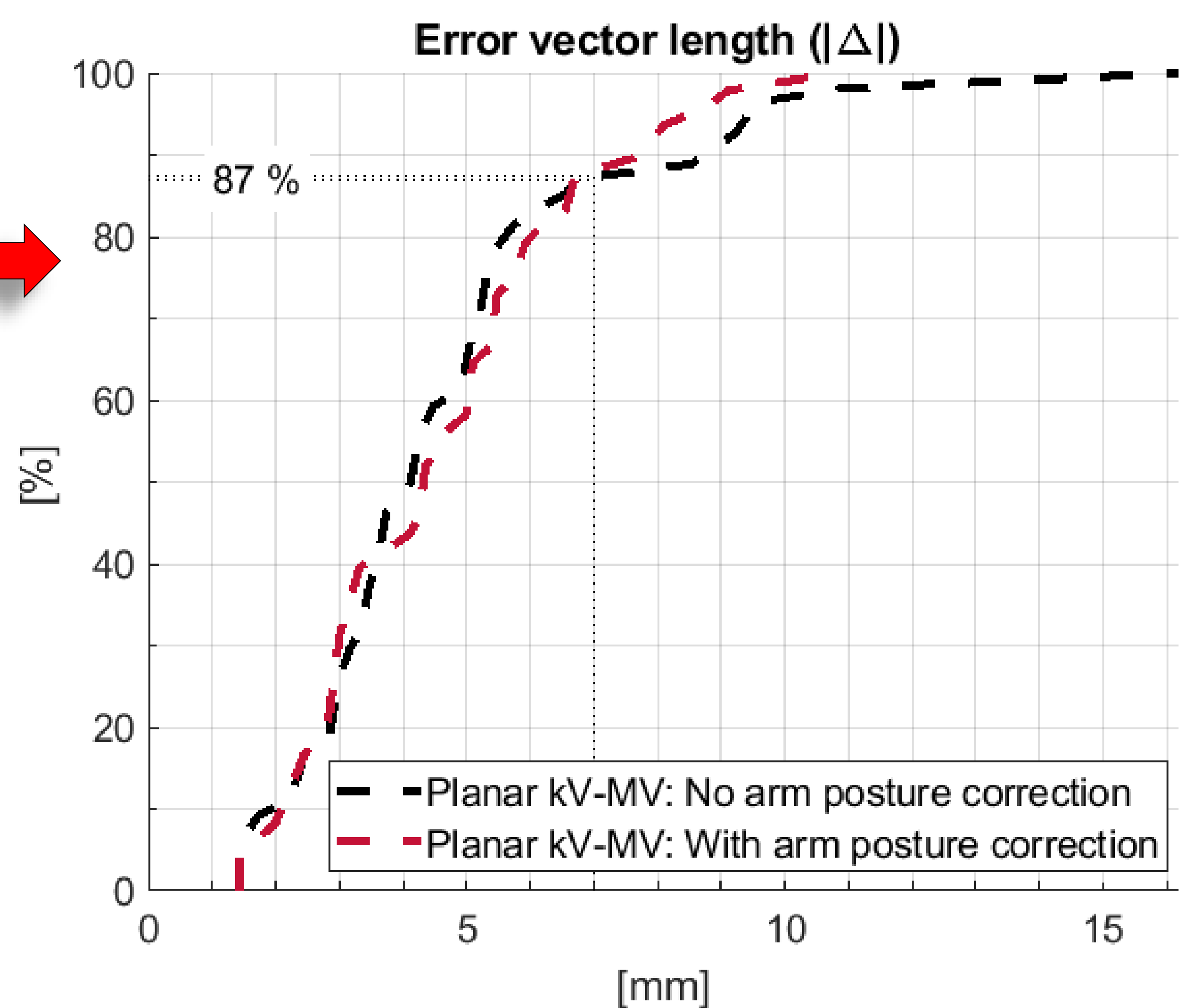
correction of

# arm posture

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## Conclusions

1. Arm posture correction prior to imaging in breast radiotherapy was **found not to improve the setup based on planar x-ray images (CBCT = ground truth)**
2. Surface based setup can be used to improve the initial setup, but **target position should be verified using e.g. kV-MV imaging.**



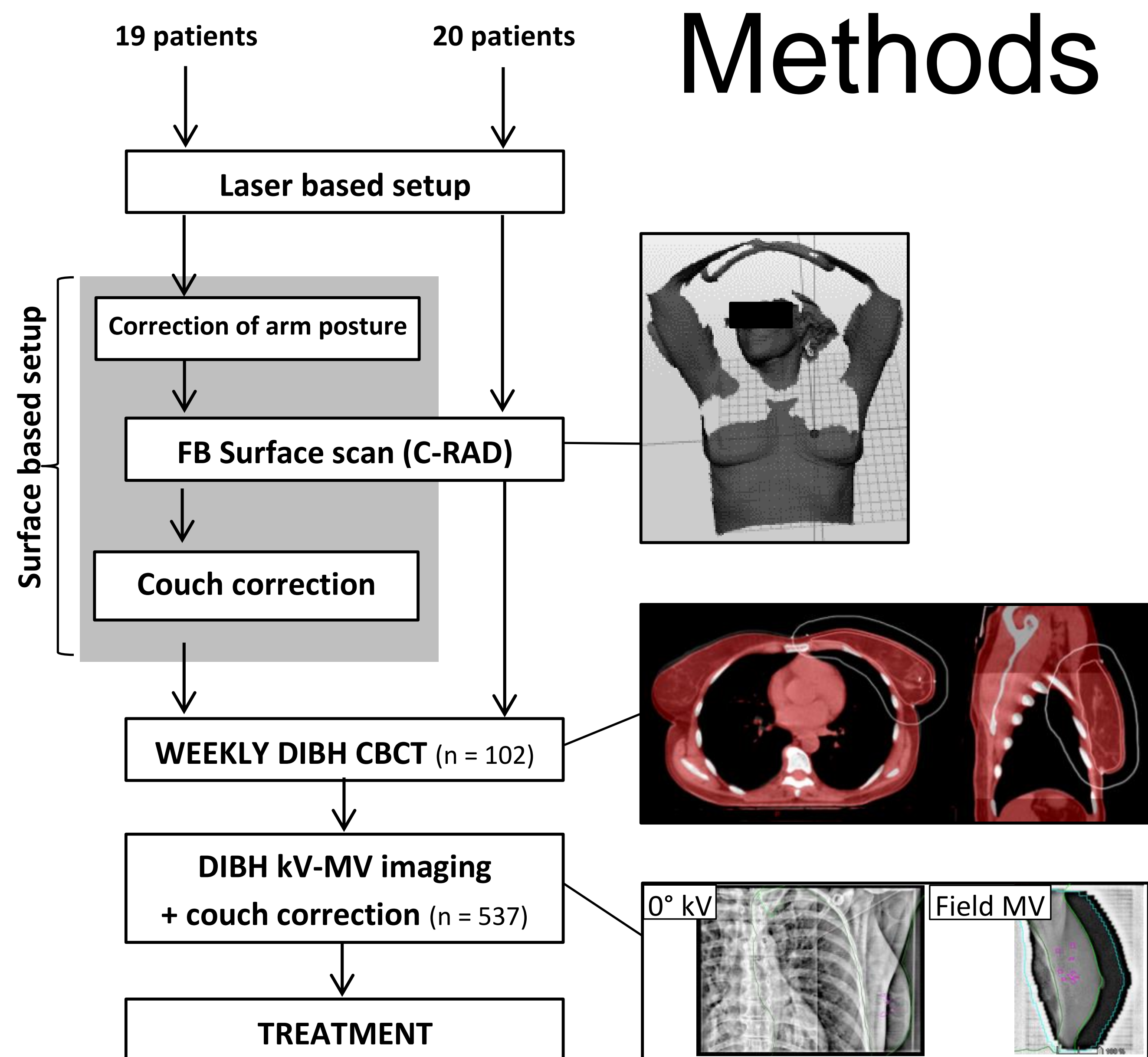
## Results

Arm posture was outside tolerance (5 mm) in 86 % of the treatment fractions.

Correcting the arm posture did not lead to any significant ( $p=0.86$ ) differences in kV-MV setup errors compared to the group with no arm correction.

If patient setup had been based solely on surface scanning larger setup errors would have been observed ( $p<0.005$ ).

## Methods



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