



Safety. Ingenuity. Community.

Vision RT is the inventor of Surface Guided Radiation Therapy (SGRT) and develops solutions using computer vision and AI to help ensure cancer patients' radiation therapy is delivered safely. Our range of products gives you reassurance that you are delivering optimal care throughout the patient journey, supporting you from education to outcomes. For more : [visionrt.com](http://visionrt.com)

# CASE STUDY ALIGNRT IMPROVES EFFICIENCY & ACCURACY

- 35% Faster Set-up times
- 23% More accurate
- 10% Reduced Imaging



## CHALLENGES WITH BREAST CANCER PATIENTS

Shenzhen People's Hospital wanted to improve patient setup, treatment accuracy and efficiency for breast cancer patients. They also wanted to establish a workflow utilizing the "move couch" function to improve workflow efficiency.

### OVERVIEW:

- Institution Type:** Government Hospital
- Location:** Shenzhen City, Guangdong Province, China
- SGRT System:** AlignRT x 2
- Years with system:** Varian Edge (4 years), Varian VitalBeam (3 years)
- Cancer types treated:** All cancer types

### GOALS

- 1 EFFICIENCY**  
Decrease treatment procedure time but still provide patients with safe and accurate treatment.
- 2 SAFETY**  
Establish accurate, real-time monitoring of intrafraction motion for DIBH, SBRT, SRT and other procedures.
- 3 AAPM TASK GROUP 302 COMPLIANCE**  
Required an SGRT system with <0.5mm accuracy for all patient skin tones, couch and gantry angles.





## SOLUTION

Vision RT's Clinical Application Specialist provided the accessibility and on-site training that helped Shenzhen People's Hospital develop the consistent workflows to achieve their desired treatments in the most effective and efficient manner.

1

### DATA COLLECTION AND VERIFICATION

- Conducted data/trial period on 30 patients, comparing treatment with and without AlignRT.
- Analysis indicated that they were able to achieve better treatment accuracy and setup efficiency via patient setup with SGRT.

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### TRAINING PROGRAM

- 3-Phase training empowered staff
- Clinical Applications support resolved workflow problems that staff encountered when they first started out with the system
- Became a member of a cross institutional exchange chatgroup in China organized by Vision RT
- Attended SGRT Community's monthly webinar organized by Vision RT.

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“We take on a patient-centric approach in our hospital and always seek new technologies to deliver the best treatment for our patients. We like the fact that with AlignRT, we not only improve setup efficiency but with higher setup accuracy and with real-time monitoring, we ensure treatment is being delivered safely and accurately.”

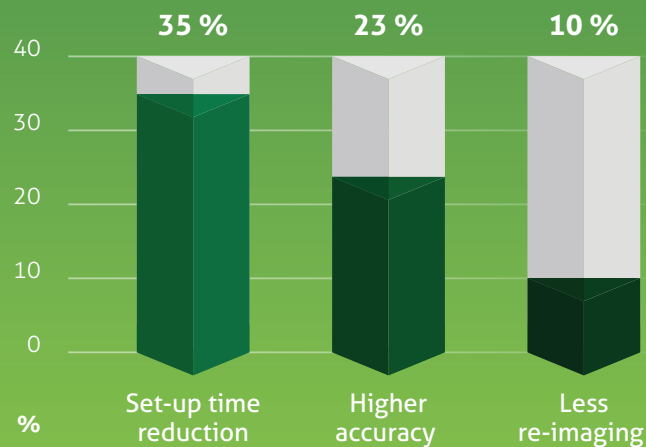


**Heli Zhong**  
Chief Physicist

## RESULTS

1. AlignRT workflow improved set-up time by 35%
2. AlignRT maintained high setup accuracy delivering 23% more accurate treatments.
3. AlignRT reduced imaging by 10%.
4. AlignRT delivered a TG302 compliant system giving the center accuracy, safety, faster treatment times, and enhanced patient comfort.

### Results with AlignRT



## FUTURE PLAN

Shenzhen People's Hospital plans to expand the use of AlignRT to all treatment sites and use for every fraction and patient. Once they have established the workflow for breast cancer patients, they would also like to expand the same workflow for other sites. They also plan to do additional studies on AlignRT to improve patient care.



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