

# alignrt<sup>®</sup> Advance

## FIGHT THE CANCER. PROTECT THE HEART.



### AlignRT<sup>®</sup>

Published outcomes for patient heart protection

AlignRT is a 3D surface-tracking technology which ensures that the patient is in the proper position during treatment, helping to ensure accuracy and protect the heart of left-breast cancer patients.

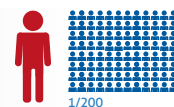
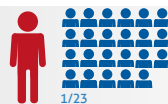
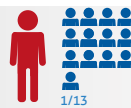
### THE RESULTS OF INADVERTENT HEART IRRADIATION ARE SERIOUS

"Exposure of the heart to ionizing radiation during radiotherapy for breast cancer increases the subsequent rate of ischemic heart disease."<sup>1</sup>

### EVEN 1 IS TOO MANY

Additional risk in left-breast cancer patients vs right-breast control

- 1** **Coronary artery disease**  
 1 for every 13 patients treated ( $P < 0.001$ )<sup>1</sup>
- 2** **Myocardial infarction**  
 1 for every 23 patients treated ( $P = 0.002$ )<sup>1</sup>
- 3** **Mortality**  
 1 for approximately every 200 patients treated<sup>2</sup>



“Using AlignRT, I’m confident that we are helping every patient and decreasing risk of cardiac damage”

Nancy Wiggers, MD  
 Director, Northside Hospital Cancer Institute  
 Atlanta, Georgia

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## The only SGRT system with long-term data showing avoidance of cardiac damage in left-breast cancer

### DIBH WITHOUT SGRT MAY NOT BE ENOUGH<sup>4</sup>

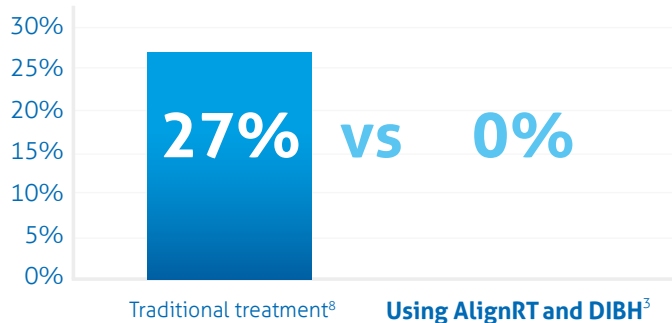
Deep inspiration breath-hold (DIBH) alone may not be enough to prevent heart damage during left-breast radiation therapy.

#### Studies show that

- Breath-hold without guidance is not always reproducible<sup>5</sup>
- Traditional approaches lead to large positional variations<sup>6</sup>
- Breathing control systems can be invasive for patients<sup>7</sup>

### ALIGNRT<sup>®</sup> +DIBH

### Cardiac perfusion defects at 6 months as measured using SPECT\* imaging



#### ACCURATE

- More accurate positioning of the whole breast and chest wall.
- Published data suggests more consistent, reproducible setup on non-port days than skin marks alone<sup>9</sup>

#### SAFE

- Less imaging for reduced patient radiation<sup>10</sup>
- Reduced human-error risk—if the patient moves out of position, by even <sup>1</sup> mm, the radiation beam automatically stops

#### EFFICIENT

- Study suggests 14% reduction in total setup and treatment time<sup>11</sup>
- Enables quick repositioning during treatment, if required

#### PATIENT-FOCUSED

- Non-invasive and non-ionizing
- Patient peace of mind and confidence with an evidence-based approach to protect the heart
- Level of accuracy provides option to eliminate patient tattoos or skin marks

- ✓ Recommendation strength – **STRONG**
- ✓ Quality of evidence – **HIGH**
- ✓ Consensus – **100%**

The American Society for Radiation Oncology (ASTRO) [treatment guidelines](#) for breast cancer patients state that, "Approaches that incorporate deep inspiration breath hold, target and organ-at-risk contouring and [optimal patient positioning](#) are recommended to minimize the radiation dose affecting nearby organs and normal tissue, including the heart, lungs and opposite breast<sup>11</sup>."

Unlike other methodologies, AlignRT continuously tracks the patient's position in all six degrees of freedom during breath-hold.