

# BENEATH THE SURFACE MOTION MATTERS

## THE SDX® SYSTEM

The SDX® System is **setting the standard for accuracy in respiratory motion management**, being the only voluntary breath-hold device combining direct lung volume measurement with intuitive and clear visual feedback. SDX and breath-hold techniques allow physicians to precisely target tumors while preserving healthy tissue, reducing motion-related uncertainties in treating thoracic and abdominal tumors.

## CHALLENGES OF MOVING TARGETS

You recognize the challenges of treating tumors susceptible to movement due to respiration, such as those located in the:

- ✓ Liver
- ✓ Pancreas
- ✓ Breast
- ✓ Lungs
- ✓ Esophagus
- ✓ Upper Abdomen

## IMPROVE TREATMENT QUALITY

### Precise & Safe Patient Outcomes

Are you doing everything you can to manage motion for targets that move with respiration? Are you ensuring:

- ✓ Target position is reproducible every treatment session?
- ✓ Dose distribution is homogeneous throughout target volume?
- ✓ PTV margin is as tight as reasonably possible?
- ✓ Normal tissue around moving target volumes is being spared?

*SDX aids in ensuring internal target position reproducibility by using spirometry-based respiratory volume control and visual feedback for the patient. Utilizing SDX, radiotherapy staff ensures that the internal target position remains consistent with the location identified during CT simulation and treatment planning, providing an extra measure of certainty for each radiation therapy session—something that room lasers and camera systems cannot achieve.*

# 200<sup>+</sup>

SDX is the top choice for managing tumor movement with unmatched precision. With over 200 operational systems worldwide, SDX is globally accepted and trusted for radiation therapy. Join the community that trusts SDX for exceptional precision.

*University of Maryland | Penn Medicine |  
Hunstan Cancer Institute | University of  
Michigan | Medstar Georgetown | The Ohio  
State University | Inova Schar Cancer Institute  
| UCSF, Mission Bay | Miami Cancer Institute*



# SDX® + SGRT = CONFIDENCE



- ✓ Room lasers and cameras are valuable aids for positioning patients.
- ✓ After pre-treatment alignment, X-ray imaging is used to verify the positioning of internal anatomy.
- ✓ Cameras help monitor the position of the body surface.
- ✓ SDX is utilized for breath-hold after the patient is positioned for treatment.

## DESIGNED FOR PATIENTS

### Relaxation, Confidence & Engagement





- ✓ Limits or eliminates tumor motion by supporting DIBH
- ✓ Decreases treatment anxiety by redirecting focus on visual display
- ✓ Several visual display formats available
- ✓ Suited for patients of any age > 5 years

## MACHINE INTERFACES

SDX can be used for manual treatment, with RTT's initiating and stopping the beam. It can also be used for automatic beam delivery, with the option to interface with radiation therapy and proton therapy machines.



## SDX BENEFITS

- **TARGETING ACCURACY**  
An indispensable tool for ensuring precise target position reproducibility in radiation therapy.
- **EASY IMPLEMENTATION**  
Quick and simple startup, requiring only one day for installation and training, with no machine down-time.
- **PATIENT COMFORT**  
Designed for patient comfort and peace of mind; approximately 85% of patients selected for SDX tolerate the procedure.
- **SOUND INVESTMENT**  
Most affordable, dependable and portable respiratory gating solution on the market.

## SDX CASE MIX

TUMOR	RT SITE	PT SITE
ABDOMEN	3%	11%
BREAST & CW	33%	-
ESOPHAGUS	5%	6%
LIVER	19%	37%
LUNG & MEDIASTINUM	30%	29%
PANCREAS	6%	13%



### LEARN MORE

Scan this QR code for more information about how SDX® will put your mind at rest when motion matters.