

The SDX® System: Unique respiratory gating system significantly improves tumor treatment accuracy - now available in the United States

Trusted by top universities and proton centers, the SDX® System expands its US footprint, revolutionizing the treatment of moving thoracoabdominal tumors.

MIAMI ([PRWEB](#)) July 29, 2020 -- The [SDX® Respiratory Gating System](#), trusted by nearly 200 of the top radiation centers in 16 countries, has reached its 20th anniversary of worldwide use. Introduced in the US over the past two years, SDX® is now in routine use at top universities including University of Pennsylvania, University of Michigan, University of Maryland, University of California San Francisco—and 30% of proton centers nationwide including Miami Cancer Institute (Baptist Health South Florida).

Developed by industry leader DYN'R Medical Systems, SDX® has been shown to be the most effective respiratory gating system, due to its unique incorporation of direct lung volume measurement with clear bio-visual feedback. The system significantly increases precision in the treatment of moving tumors, providing therapists real-time internal information and allowing for increased dosages, while sparing nearby organs and healthy tissue. A video goggle system increases patient confidence and mastery of the DIBH (deep inspiration breath hold) technique with a 95% success rate.

“We chose the SDX® System to help avoid critical structures during radiation therapy treatments,” says the radiation oncology team at Cleveland Clinic Florida. “It allows us to better serve our patients, has increased safety and the overall quality of radiation therapy treatments, especially during our SBRT cases.”

Tumors that move due to patient breathing, such as those located in the chest or abdomen, have always presented a challenge to radiation oncologists and physicists. In the past 20 years, several advancements in radiation delivery technology have helped to conform the radiation dose to the targeted tumor, yet adverse effects are still common due to difficulty in sparing surrounding tissue. The [SDX® Respiratory Gating System](#) greatly enhances tracking of these moving tumors, allowing for precise targeting with increased dosages—while sparing nearby organs and healthy tissue. Its unique patient visual guidance enables a 95% success rate in DIBH technique mastery.

SDX® "consistently lowers the mean and maximum doses to the organs at risk by about 15-30% and significantly reduces the treated target volume," concluded a 2019 Maryland Proton Treatment Center study. A 2015 article in the Journal of Applied Clinical Medical Physics indicated that SDX® shows “statistically significant decreases in heart and LAD dose metrics over all patients and is a valuable adjunct to modern breast treatment techniques.”

Additionally, the [SDX® Respiratory Gating System](#) offers many unique benefits for therapists and treatment centers. SDX offers easy daily calibration in under one minute, and is easily portable between treatment rooms and C.T. It is compatible with every radiation delivery system, and offers Synchronization options with all Varian treatment machines, IBA's Proteus Plus and Siemens Somatom.

SDX® is now offering live webinars for interested oncologists, physicists, therapists and administrators. Presentations include a video demonstration of SDX® treatment, plus an exploration of the technology and its proven benefits, as well as presentations by clinicians and experts. Interested parties may visit



learn.sdxsystem.com for more information, or call Annabelle Lorenzo, Director of U.S. Sales, at (786) 862-3539.



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