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Mount Sinai Medical Center First to Utilize AI Technology to Treat Complex Aortic Conditions at South Florida's Only Aortic Center

MIAMI BEACH, FL — February 8, 2024 — Mount Sinai Medical Center is proud to announce the implementation of unique AI software designed to support the treatment of patients with complex aortic disease. As part of a collaboration between Cydar Medical and Medtronic, this software employs state-of-the-art minimally invasive endovascular technology that is being used by surgeons at Mount Sinai's Aortic Center. The medical center currently stands as the first and only institution to use this technology in all of Eastern Florida.

The product integrates Cydar Maps software with Medtronic services and case support to improve patient care and efficiency with AI-based solutions placed in a clinical environment.

Cydar's platform generates a 3D map of the patient's vascular system as well as supporting and integrating preoperative planning, intraoperative guidance, and postoperative reviews of endovascular surgery. The platform utilizes AI to update the map throughout the patient's journey, guaranteeing surgeries are completed with great precision and success. The benefits include significantly decreased radiation exposure, simplified workflows, and increased clinician confidence.

"The thing we are most excited about in the Aortic Center is our incorporation of an AI image-based guidance program that allows us to decrease radiation use on patients and decrease contrast or dye usage, which decreases the risk of problems with kidney function after these procedures, and allows us to perform these procedures in a more expedient manner," says Dr. Micheal Ayad, the Co-Director of the Aortic Center. "It's very exciting to be at the forefront of what's considered the future of aortic surgery."

UK-based Cydar developed its mapping platform to transform how information is shared with clinicians in image-guided minimally invasive surgery. The company designed it to simplify complexities within operating theaters across the globe.

Mount Sinai's Aortic Center utilizes a collaborative approach between cardiac surgeons, vascular surgeons, cardiologists, and geneticists by coming together to address complex disease processes that otherwise would be very difficult to manage individually. This multidisciplinary approach allows for custom-made solutions to a variety of unique aortic and endovascular conditions.

“When you have a collaboration of different specialists, you are not getting a one-size-fits-all therapy but rather a custom made approach,” explains Dr. Ayad. “If we’ve learned anything over the past 20 to 30 years, it’s that not all patients’ diseases are the same. Each patient has a specific kind of aneurysm or a specific kind of disease, so a tailored approach provides a better outcome and a more durable outcome.”

“We are thrilled a medical center as renowned and respected as Mount Sinai has implemented our product into their clinical work,” says Paul Mussenden, the CEO at Cydar Medical. “The goal is to provide their surgeons with a more predictable and efficient way to perform minimally invasive, image-guided procedures, leading to optimal results for their patients.”

To schedule an interview with Dr. Ayad, please email Erica.Corsano@msmc.com.

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About Mount Sinai Medical Center

Founded in 1949, Mount Sinai Medical Center is the largest independent, private, not-for-profit teaching hospital in South Florida. Mount Sinai’s mission is to provide quality health care to a diverse community enhanced through teaching, research, charity care, and financial responsibility. Mount Sinai’s Centers of Excellence combine technology, research, and academics to provide innovative and comprehensive care in cardiology, neuroscience, oncology, urology, and orthopedics. One of the original statutory teaching hospitals in the state of Florida, Mount Sinai is the hospital of choice for those who seek the level of expertise and care that only a teaching hospital can offer. Mount Sinai currently offers nine convenient locations in Miami-Dade County, including three emergency centers, and three specialty care offices and a primary care office in Monroe County. For more information on Mount Sinai Medical Center, visit msmc.com or call **305.674.CARE** (2273).

About Cydar Medical

Cydar Medical is a global cloud-based software company that provides an integrated solution for planning, navigation and review of minimally invasive image guided surgical procedures. The Cydar Maps solution uses the power of artificial intelligence (“AI”) to augment a clinician’s decision-making. The product harnesses the latest in computer vision and machine learning technology to advance surgical visualization and decision-making in theatre, and across the surgical pathway. Cydar Medical’s AI continues to learn from procedures conducted globally to provide analytics to assist clinicians in the operating room, enabling them to make faster, easier and safer decisions in the future. Cydar will continue to release new products and capabilities to improve the delivery of healthcare. Cydar Medical is headquartered in Cambridge, United Kingdom and has operations in the US. It is working towards its vision of advancing the quality of care for patients in a world where all surgery conducted works exactly as planned.

For further information, please visit www.cydarmedical.com