

2024 Philanthropy Impact Report

Cardiac Care

From preventative treatment to lifesaving cardiac care, Luminis Health Anne Arundel Medical Center (LHAAMC) is a beacon of hope and healing for our communities. As a result of your investment, LHAAMC’s complete continuum of cardiac care is there for every heartbeat of our families, friends, and neighbors.

By the Numbers

These numbers highlight the cumulative success of our cardiovascular programs. Behind each statistic are our care teams making a significant impact on our community, one patient at a time.

Cardiac Procedures	Number of 2024 Patients
Open Heart Surgeries	237
Cryo Nerve Block Therapy Treatments	122
ST-segment Elevation Myocardial Infarction (STEMI -medical and surgical) ED Visits	836
Transcatheter Aortic Valve Replacement (TAVR)	41
Other Cath Lab Procedures	3,908

Program Distinctions

- Our Cardiac Surgery Team at LHAAMC recently completed their 500th open heart surgery since the program began in late 2020. We are honored to provide high-quality cardiovascular care right here in the community.
- The American Heart Association recognized LHAAMC on the Get With The Guidelines® - Stroke Gold Plus Target: Stroke Elite Honor Roll and Target: Type

2 Diabetes Honor Roll. These honors reflect our team's dedication, expertise, and collaborative efforts to ensure patients achieve the best possible outcomes.

- LHAAMC is the only hospital in Maryland, and one among a handful nationwide, to offer our open-heart patients the option of cryo nerve block therapy, a cutting-edge pain management technique introduced by Dr. David Caparrelli, Chief of Cardiac Surgery. Cryo nerve block therapy is a solution that temporarily freezes the nerve endings on the sternum prior to surgery. This type of cryotherapy has been used for other surgical-associated pain, but open-heart surgery is a new and ambitious application. An estimated 20% of cardiac surgery patients become addicted to the opioids necessary to manage their post-operative pain. Thanks to cryo nerve block therapy, LHAAMC cardiac surgery patients take Tylenol, eliminating the risk of addiction. This leading-edge approach is not covered by insurance and philanthropy has covered the additional costs to ensure it is accessible to all patients. We're proud to be at the forefront of cardiac innovation by improving the recovery journey for our patients undergoing open-heart surgery.

Painless Recovery After Heart Surgery

While grocery shopping with his wife, John Cryan ran up a set of stairs from a parking garage and started feeling faint. His wife called 911, and an ambulance took him to LHAAMC. At the hospital, lab results showed a high troponin level, indicating a heart attack.

Shortly, thereafter John consulted with David Caparrelli, MD, Chief of Cardiac Surgery. Dr. Caparrelli explained that he could use an innovative surgical instrument known as cryo nerve block therapy to freeze John's nerves, blocking pain signals to the brain and thus aiding in John's recovery from open heart surgery. John and his wife agreed that surgery with Dr. Caparrelli was the right next step. After surgery, John received a bottle of Tylenol for any discomfort. Six months later, he has yet to open it. This shows how cryo nerve block therapy reduces opioid usage, which is a goal of LHAAMC.



"In some cases, you meet a surgeon once and never see them again. Dr. Caparrelli checked in on me multiple times and made me feel like I was his only patient," John says.

Thank You!

LHAAMC is privileged to serve the community with compassionate patient- and family-centered cardiac care. Your generosity enables LHAAMC to meet the urgent and growing need for cardiac services close to home. We extend our heartfelt thanks for your commitment to and passion for our complete continuum of cardiac care.