



In alliance with



# 2024-25

**DEBORAH HEART AND LUNG CENTER**  
CARDIOLOGY AND CARDIOVASCULAR SURGERY  
**OUTCOMES**



# DEBORAH HEART AND LUNG CENTER 2024-25 OUTCOMES REPORT

Measuring and understanding outcomes of medical treatments promotes quality improvement. Created by Deborah Heart and Lung Center and Cleveland Clinic, this outcomes report contains a summary of surgical and medical treatments, with data on patient volumes and outcomes and a review of new technologies and innovations.




# LETTER FROM THE CHIEF OF CLEVELAND CLINIC'S SYDELL AND ARNOLD MILLER FAMILY HEART, VASCULAR & THORACIC INSTITUTE

We are proud to present 2024-25 outcomes from the cardiology and cardiovascular surgery program at Deborah Heart and Lung Center, which has an ongoing collaborative relationship with Cleveland Clinic's Miller Family Heart, Vascular & Thoracic Institute to promote best practices and optimal quality in cardiovascular caregiving.

This overview of outcomes, volumes, and quality metrics reflects some of the fruits of that collaboration, which involves members of Deborah ranging from physicians and other healthcare providers to administrative personnel. It refers to national benchmarks established by the American College of Cardiology and the Society of Thoracic Surgeons and stems from our commitment to give every patient the best possible outcome and experience. We believe that transparency around clinical outcomes is essential to improving quality and efficiency as we all continue to move toward ever more value-based care delivery.

Cleveland Clinic's Heart, Vascular & Thoracic Institute is gratified by the success of our collaborations with our affiliate and alliance members like Deborah. Our goal is to develop relationships with providers nationwide to enhance the quality and value of cardiovascular care in our communities. We welcome your comments and feedback, and we thank you for your interest.

Sincerely,



**Lars G. Svensson, MD, PhD**  
Chief, Miller Family Heart,  
Vascular & Thoracic Institute  
Cleveland Clinic



## LETTER FROM THE PRESIDENT AND CHIEF EXECUTIVE OFFICER

On behalf of Deborah Heart and Lung Center, our Board of Trustees, and our entire team, I am proud to share our 2024–25 Cardiology and Cardiovascular Surgery Outcomes Report. This publication was developed in collaboration with Cleveland Clinic’s Heart, Vascular & Thoracic Institute.

At Deborah, every patient encounter is an opportunity to affirm our standing as a center of excellence in treating advanced cardiac, pulmonary, and vascular disease. As this year’s outcomes demonstrate, we continue to deliver outcomes that meet, and often exceed, national standards. Our patients benefit from low mortality, fewer complications, reduced readmissions, and consistent adherence to best-practice guidelines. By these measures, Deborah is proud to stand shoulder-to-shoulder with the nation’s leading hospitals and health systems.

Highlights from this year’s data include exceptional results in aortic valve replacement, mitral valve repair and replacement, and coronary artery bypass surgery. Our structural heart program continues to grow stronger, with fewer complications and improved outcomes.

Just as meaningful are the voices of our patients. Through Press Ganey surveys, they consistently rate their Deborah experience higher than both New Jersey and national averages. These scores reflect what we value most: Deborah’s unique ability of providing an exceptional people-centered care experience that goes beyond treating a disease or performing a procedure but is defined by our ability to truly care for an individual’s physical, mental, and financial well-being.

For more than 100 years, Deborah has been a beacon of hope for those with heart, lung, and vascular disease. That legacy of quality and compassion continues today.



**Jim Andrews**  
President/CEO  
Deborah Heart and Lung Center



# WHAT'S INSIDE

About Deborah Heart and Lung Center.....	4
Patient Experience .....	6
Society of Thoracic Surgeons Metrics .....	8
New Jersey Department of Health Metrics .....	12
Interventional Cardiology.....	13
Structural Cardiology .....	15
Electrophysiology .....	16
Olsen Family Patient Care Pavilion .....	18
Physician Listing.....	20
Innovations .....	23
Overview of Services .....	24
Care in the Community .....	28

## ABOUT DEBORAH HEART AND LUNG CENTER

Deborah Heart and Lung Center in Browns Mills, New Jersey, is an 89-bed hospital that specializes in the diagnosis and treatment of heart, lung, and vascular disease in adults and children. Deborah is a recognized leader in patient care and innovative healing, hosting numerous clinical trials and maintaining one of the largest cardiology fellowship programs in the country.

Founded in 1922, Deborah is a nationally recognized specialty hospital treating patients throughout the tri-state region: New York, Pennsylvania, and New Jersey. Deborah's 55-acre campus has a full-service emergency department operated by Capital Healthcare System, Inc., several hotel-style guest residences, and a medical office building with urgent care, primary, and specialty physician offices and outpatient rehabilitative services.

Deborah's teaching program and robust clinical research department showcase the energy of the brightest new talent and the promise of cutting-edge trials, making Deborah the site of many medical firsts.





# PATIENT EXPERIENCE

The Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) is the first national standardized, publicly reported survey of patients' perspectives of hospital care. The HCAHPS Survey is a 29-item instrument and data collection methodology for measuring patients' perceptions of their hospital experience and allows valid comparisons to be made across hospitals — locally, regionally, and nationally. Deborah continues to lead patient engagement and satisfaction results throughout New Jersey and competes at the national level.

HCAHPS	Deborah	All New Jersey Hospitals
Rate hospital 0-10	78.06	68.55
Recommend the hospital	85.5	67.91
Comm w/ Nurses Domain Performance	82.52	79.1
Response of Hosp Staff Domain Performance	66.3	61.28
Comm w/ Doctors Domain Performance	81.49	77.27
Hospital Environment Domain Performance	55.03	63.92
Comm About Medicines Domain Performance	62.55	61.91
Discharge Information Domain Performance	91.29	85.07



The Outpatient and Ambulatory Surgery (OAS) CAHPS Survey collects information about patients' experiences of care in Medicare-certified hospital outpatient departments (HOPDs) and ambulatory surgery centers (ASCs). OAS CAHPS is designed to measure the experiences of care for patients who visited Medicare-certified HOPDs or ASCs for a surgery or procedure. The survey includes questions about patients' experiences with their preparation for the surgery or procedure, check-in processes, cleanliness of the facility, communications with the facility staff, discharge from the facility, and preparation for recovering at home. The survey also includes questions about whether patients received information about what to do if they had possible side effects during their recovery.

OAS CAHPS	Deborah	PA, NJ, NYC
Facility rating 0-10	89.46	87.85
Recommend the facility	88.87	84.63
Communication Domain Performance	86.85	92.55
Facility/Personal Trtment Domain Performance	96.61	97.12
Discharge Domain Performance	96.08	97.06



Clinician & Group Consumer Assessment of Healthcare Providers and Systems (CG CAHPS) is a standardized survey instrument and data collection methodology developed by the Agency for Healthcare Research and Quality (AHRQ) in the United States to measure patients' experiences with healthcare providers and staff in doctor's offices and group practices. CG CAHPS focuses on patient experience, not patient satisfaction, specifically in the outpatient or ambulatory care setting. Topics include: communication with providers, access to care, care coordination, interactions with office staff, overall rating of the provider, and likelihood of recommending.

CG CAHPS	Deborah	National Sites Score
Recommend this provider office	95.65	92.5
Rate provider 0-10	93.99	89.84
Physician Comm Quality Domain Performance	96.25	94.21
Office Staff Quality Domain Performance	95.13	95.02
Care Coordination Domain Performance	73.89	75.54



**“I call receiving an LVAD my rebirthday because I feel blessed to have a new lease on life. The energy from the Deborah team radiated through me and helped give me the strength to push through dark times. I really felt like all of the team members were fighting this battle with me.”**

**– Kenneth Wigley**

# SOCIETY OF THORACIC SURGEONS METRICS

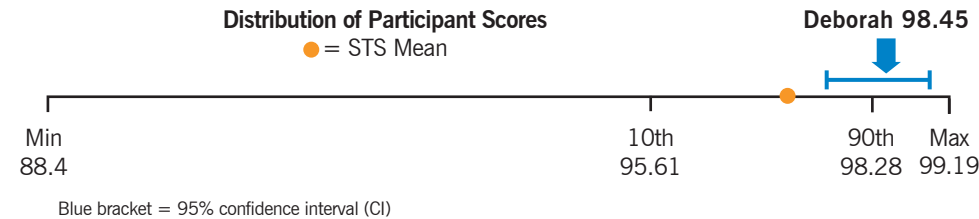
## Quality Ratings

The Society of Thoracic Surgeons (STS) rating system – rating the benchmarked outcomes of cardiothoracic surgery programs across the United States and Canada – is one of the most sophisticated and highly regarded overall measures of quality in healthcare. Ratings are calculated using a combination of quality measures for specific procedures performed by an STS Adult Cardiac Surgery Database (ACSD) participant.

Deborah performs at levels of “as expected” or “better than expected,” which is consistent with good or excellent performance based on the STS standards.

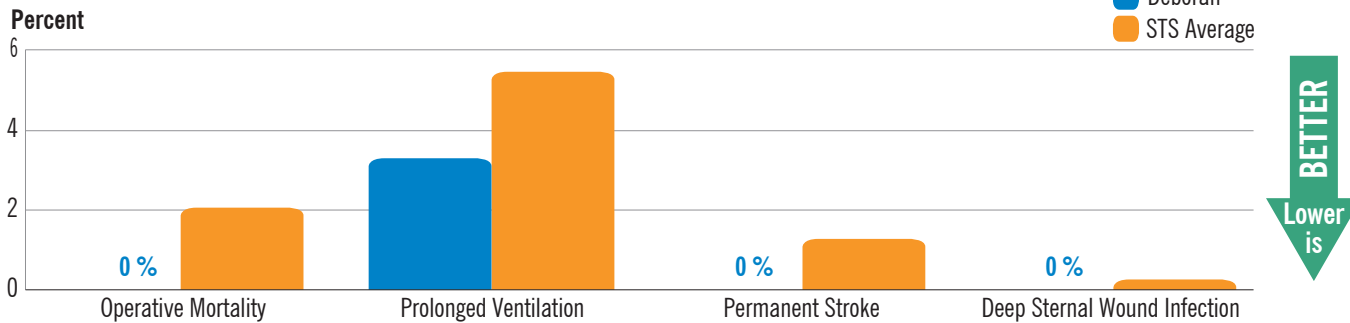
## Coronary Artery Bypass Grafting (CABG)

Participant Score (95% CI)	STS Mean Participant Score	Participant Rating
98.45% (97.75, 98.98)	97.26%	★ ★ ★



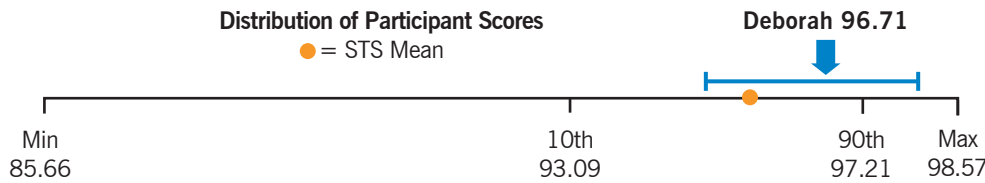
Source: STS ACSD Risk-Adjusted Report Ending December 2024

## CABG Risk-Adjusted Complications/Mortality



## Aortic Valve Replacement (AVR)

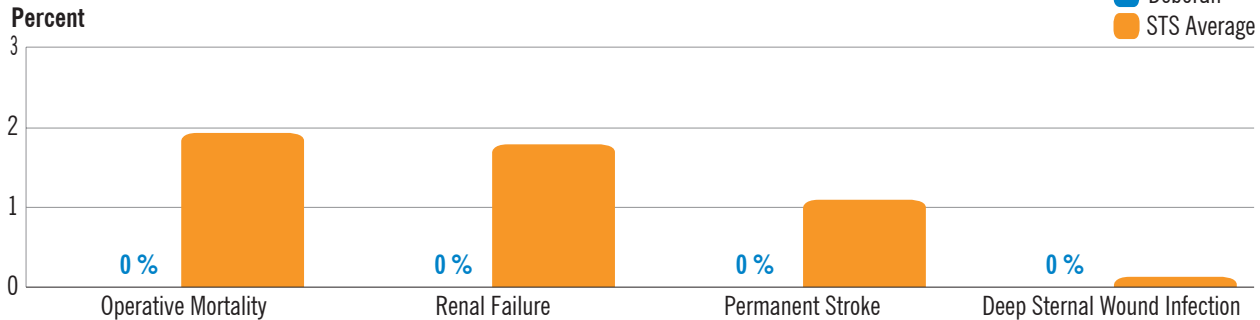
Participant Score (95% CI)	STS Mean Participant Score	Participant Rating
96.71% (96.71, 98.02)	95.63%	★ ★



Blue bracket = 95% confidence interval (CI)

Source: STS ACSD Risk-Adjusted Report Ending December 2024

## AVR Complications/Mortality



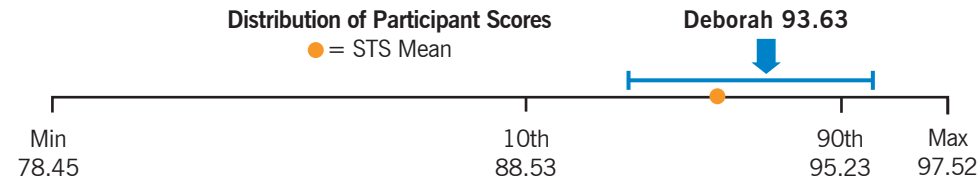
“At Deborah, quality isn’t just a metric—it’s the foundation of every procedure we perform. Our consistently strong performance in the STS ratings reflects the unwavering commitment of our entire surgical team to deliver the safest, most effective care possible, using the most cutting edge-technology and advanced surgical skill sets for every patient.”

**Allen Cheng, MD**  
Chair of Surgery, Deborah Heart and Lung Center

# SOCIETY OF THORACIC SURGEONS METRICS

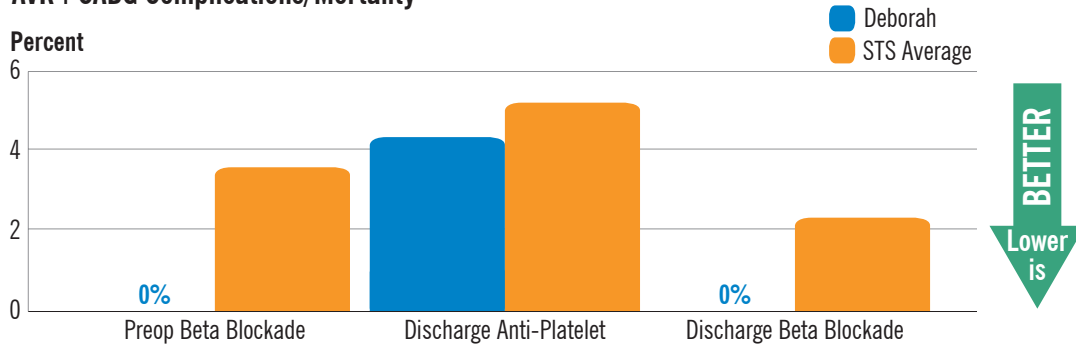
## AVR+CABG

Participant Score (95% CI)	STS Mean Participant Score	Participant Rating
93.63% (90.72, 95.94)	92.57%	★ ★



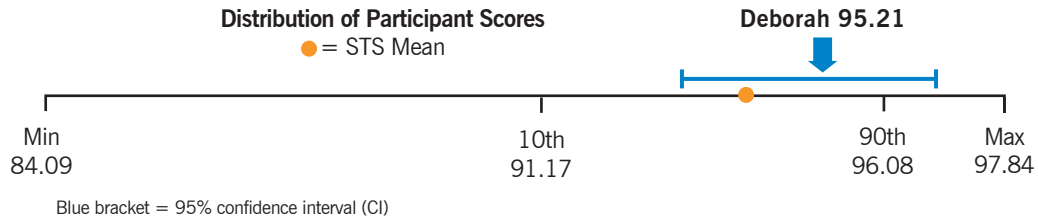
Blue bracket = 95% confidence interval (CI)  
Source: STS ACSD Risk-Adjusted Report Ending December 2024

## AVR+CABG Complications/Mortality



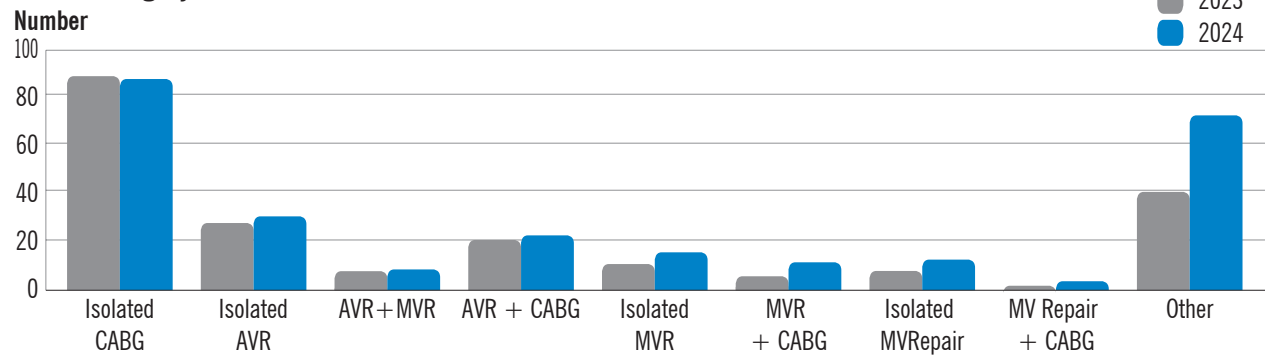
## Mitral Valve Replacement/Repair (MVRR)

Participant Score (95% CI)	STS Mean Participant Score	Participant Rating
95.21% (93.19, 96.85)	94.12%	★ ★



Source: STS ACSD Risk-Adjusted Report Ending December 2024

## Cardiac Surgery Volumes



MVR = mitral valve replacement

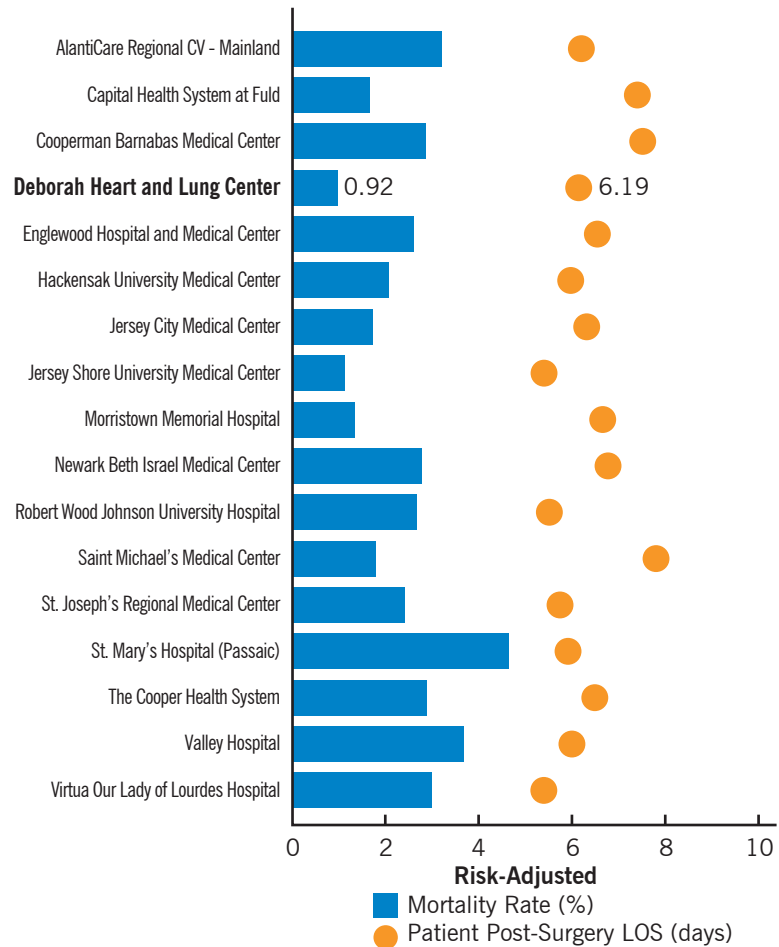
# NEW JERSEY DEPARTMENT OF HEALTH METRICS

In April 2025, the New Jersey Department of Health published performance data for the 18 hospitals licensed to perform cardiac surgeries in the state during 2021-2022. New Jersey is one of only five states that has issued reports on isolated coronary artery bypass graft (CABG or bypass) surgery outcomes for hospitals and surgeons, and began reporting on patient mortality at the hospital and surgeon level in 1997.

Among these 18 hospitals, Deborah Heart and Lung Center's surgical team ranked as the ninth busiest in New Jersey, handling nearly 325 cases. Patients traveled from 11 different New Jersey counties and four other states (New York, Florida, Pennsylvania, and Delaware) to undergo surgery at Deborah. According to the latest report, Deborah Heart and Lung Center achieved the lowest risk-adjusted patient mortality rate among all reporting hospitals, at 0.92% (a lower percentage indicates better outcomes).

The New Jersey Department of Health, in collaboration with the Cardiovascular Health Advisory Panel (CHAP), also released a comprehensive assessment of cardiac surgery outcomes across the state. The report analyzed data from 18 hospitals offering cardiac surgery in New Jersey, encompassing 18,658 patients who underwent open heart surgery. Deborah Heart and Lung Center is proud to announce it achieved the lowest open heart surgery mortality risk of all 18 hospitals. These outstanding results reflect the hospital's unwavering focus on patient safety, precision, and quality outcomes.

## Risk-Adjusted Operative Mortality\* and Length of Stay (LOS)\*\* by Hospital \*\*\*, 2021-2022



Source: 2021-2022 New Jersey Cardiac Surgery Data

\* Operative Mortality includes: (1) all deaths occurring during the hospitalization in which the operation was performed, even after 30 days; and (2) those deaths occurring after discharge from the hospital, but within 30 days of the procedures.

\*\* Excluded are patients who died during hospitalization where CABG was performed; patients with post-surgical LOS > 30 days; and patients with post-surgical LOS < 2 days.

\*\*\* Risk-adjusted mortality rate and length of stay could not be reliably calculated for University Hospital due to low volume.

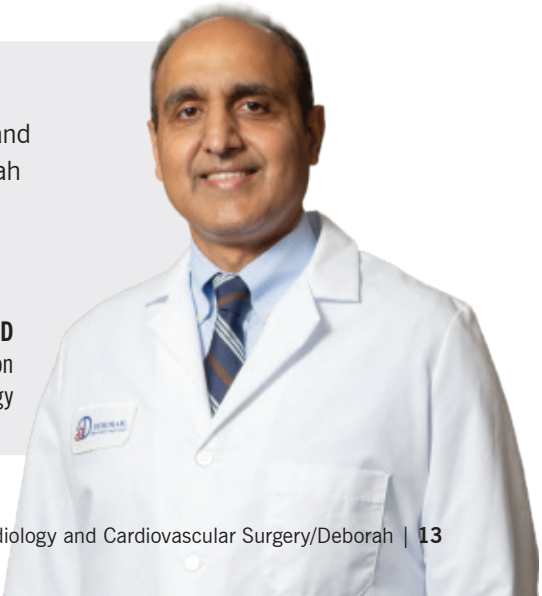
# INTERVENTIONAL CARDIOLOGY

The CathPCI Registry® assesses the characteristics, treatments, and outcomes of cardiac disease patients who receive diagnostic catheterization and/or percutaneous coronary intervention (PCI) procedures. Once again, Deborah exceeds the 50th percentile (50%tile) benchmarks.

CathPCI	Deborah	50%tile
Median transfer time door to door for STEMI pts	57 mins	77 mins
Median time to PCI for transfer STEMI pts	80 mins	109 mins
Composite: major AE all patients	1.02%	2.36%
Cardiac rehab referral	99.40%	92.70%
Intra/post-procedure stroke	0.00%	0.50%

“Our structural heart and interventional cardiology outcomes speak for themselves. With zero mortality in TAVR and TMVR, as well as TTEER and TTVR procedures, and a 97% success rate in LAAO, our team at Deborah consistently delivers results that meet — and often exceed — national benchmarks. It’s a reflection of our experience, precision, and commitment to patient safety.”

**Muhammad Raza, MD**  
Director, Structural Heart Program, and Acting Division  
Director, Interventional Cardiology



Cardiology and Cardiovascular Surgery/Deborah | 13

# INTERVENTIONAL CARDIOLOGY

Deborah is committed to delivering outstanding care for patients undergoing PCI in the cath lab overseen by our team of interventional cardiologists. As reported by the American College of Cardiology, Deborah's PCI performance metrics reflect the highest standards in patient care and safety. In 2023, Deborah performed 733 PCI procedures and achieved a perfect 4 out of 4 stars on all measured quality metrics. These results highlight our dedication to following best practices and ensuring optimal outcomes for every patient.

## Percutaneous Coronary Intervention (PCI) Metrics

*Hospital performance for patients with coronary artery disease who had PCI*

Number of PCI procedures performed in 2023	733
Use of aspirin to reduce the chance of blood clots after PCI	★★★★
Use of P2Y12 inhibitor medication to reduce the chance of blood clots after PCI	★★★★
Use of statin to decrease cholesterol after PCI	★★★★
Use of all recommended medications (aspirin, P2Y12 inhibitor medication, and statin) to reduce the chance of blood clots and decrease cholesterol after PCI	★★★★

# STRUCTURAL CARDIOLOGY

Deborah's structural heart program offers numerous procedures to address structural issues within the heart that are congenital or due to aging. Procedures such as transcatheter aortic valve replacement, transcatheter mitral valve repair, and left atrial appendage closure can be performed using minimally invasive catheter methods. The skilled interventional team at Deborah repairs the anatomy of the heart with exceptional outcomes.

<b>TAVR (Transcatheter Aortic Valve Replacement)</b>	<b>Deborah</b>	<b>50%tile</b>
Observed mortality	0.0%	0.6%
AKI (stage 3)	0.0%	0.0%
Disabling bleeding	0.6%	0.9%
KCCQ pre-procedure	100%	98.7%
Five meter walk test performed pre-procedure	97.8%	96.7%

<b>TMVR (Transcatheter Mitral Valve Repair)</b>	<b>Deborah</b>	<b>50%tile</b>
Observed mortality	0.0%	0.0%
Stroke (any ischemic, hemorrhagic, or undetermined stroke)	0.0%	0.0%
AKI	0.0%	0.0%
Disabling bleeding	0.0%	0.0%

Source: ACC NCDR CathPCI Registry Ending September 2024

<b>LAO (Left Atrial Appendage Occlusion)</b>	<b>Deborah</b>	<b>50%tile</b>
Successful LAO procedures	97.10%	95.10%
Patients with an ischemic stroke or systemic thromboembolism intra- or postprocedure and prior to discharge	0.00%	0.00%
Patients experiencing a disabling or life-threatening bleeding event intra- or postprocedure and prior to discharge	0.00%	0.00%

Source: ACC NCDR CathPCI Registry Ending September 2024

# ELECTROPHYSIOLOGY

Advanced diagnostic procedures allow us to locate the source of irregular heartbeats and provide safe, effective treatment – from cardiac ablation and pacemakers to defibrillators and other cutting-edge interventions.

<b>Electrophysiology Device Implant</b>	<b>Deborah</b>	<b>50%tile</b>
Proportion of ICD/CRT-D implant patients with left ventricular systolic dysfunction who were prescribed ACE-I or ARB or ARNI therapy, as eligible, at discharge	99.60%	97.80%
Proportion of initial ICD patients with shared decision making documented for a primary prevention ICD indication	100.00%	99.10%

	<b>Deborah</b>	<b>US Registry Average</b>
Proportion of defibrillator procedures with an unsuccessful attempt to place a His/left bundle lead	0.00%	7.40%
Lead dislodgement	0.20%	0.50%

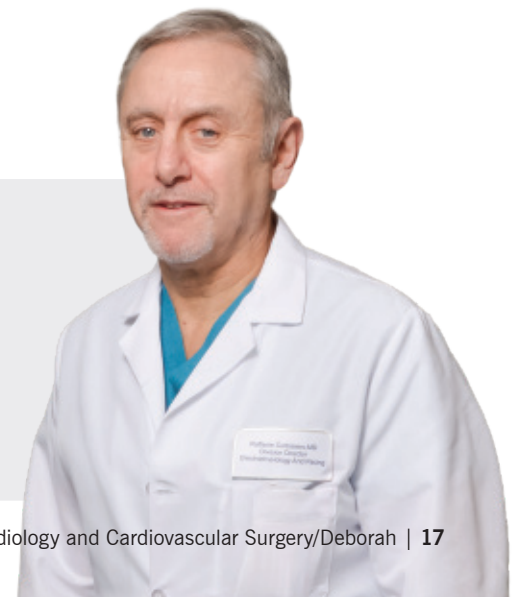
## AFib Ablation

	Deborah	50%tile
Mortality	0.00%	0.00%
Stroke	0.00%	0.10%
Phrenic nerve damage	0.00%	0.00%
Cardiac thromboembolic event	0.00%	0.00%

Source: ACC NCDR CathPCI Registry Ending September 2024

“Achieving fewer complications — including mortality, strokes, nerve injuries or thromboembolic events — in our AFib ablation procedures is the direct result of precise technique, advanced technology, and a team fully dedicated to patient safety at every step.”

**Raffaele Corbisiero, MD**  
Division Director, Electrophysiology



Cardiology and Cardiovascular Surgery/Deborah | 17

# OLSEN FAMILY PATIENT CARE PAVILION

## Opened in 2025

The Olsen Family Patient Care Pavilion includes 36 private patient rooms, 18 of which are dedicated to critical care and 18 medical/surgical. One of the floors has been specifically designed as a staff respite to provide a dedicated space for the hospital's healthcare professionals.

The addition is 58,500 square feet in total and each patient room averages 350 square feet. In addition, floors four and five feature perforated ceilings to help diffuse noise for our patients.

With this new addition, the hospital has increased its ability to provide compassionate, high-quality care to patients with specialized cardiac, pulmonary, and vascular needs.

Greg Olsen, philanthropist, scientist, entrepreneur, and member of Deborah Hospital Foundation's Board of Directors, generously provided the lead gift in the campaign to create this new pavilion. Olsen, who is known for his historic journey to the International Space Station in 2005, credits David Murphy, MD, retired Chair of Pulmonary Medicine, and the entire clinical team at Deborah for treating him and getting him in top physical condition to achieve medical clearance to make his journey. Olsen, at age 60, became the first person in history to travel to space with a chronic lung condition.



"Our nurses and clinical teams are thrilled to care for patients in such a modern, thoughtfully designed space. Everything about the pavilion was built with the patient experience in mind. From the enhanced privacy and expanded space to the advanced monitoring systems, this space supports our ability to deliver the highest level of care in a truly healing environment."

**Rita Zenna, RN , MSA, CPHQ**  
Executive Vice President, Patient Care Services, and Chief Nursing Officer





Cardiology and Cardiovascular Surgery/Deborah | 19



# PHYSICIAN LISTING



**Aaron Kugelmass, MD**  
Executive Vice President/  
Chief Medical Officer



**Rania Aboujaoude, MD**  
Infectious Diseases



**Boban Abraham, MD**  
Pediatric Cardiology



**David Altimore, DO**  
Cardiology



**Burak Arkonac, MD**  
Interventional Cardiology



**Igor Balatsky, MD**  
Hospital Medicine



**Reginald Blaber, MD**  
Cardiology



**Renee Bullock-Palmer, MD**  
Cardiology



**Michael Cane, MD**  
Critical Care Medicine



**Chunguang Chen, MD**  
Cardiology



**Allen Cheng, MD**  
Cardiothoracic Surgery



**Raffaele Corbisiero, MD**  
Electrophysiology



**Gregory Domer, MD**  
Vascular Surgery



**Marcella Frank, DO**  
Pulmonary Medicine



**Cara Garofalo, MD**  
Pediatric Cardiology



**Alan Ghaly, DO**  
Cardiology



**James Herrington, MD**  
Vascular Surgery



**Elizabeth Hurt, DO**  
Cardiology



**Daniel Ice, MD**  
Interventional Cardiology



**Vijay Kamath, MD**  
Vascular Surgery



**Pedram Kazemian, MD**  
Electrophysiology



**Zeeshan Khan, DO**  
Pulmonary Medicine



**Richard Kovach, MD**  
Interventional Cardiology



**Courtney Krathen, DO**  
Interventional Cardiology



**Jonathan Krathen, DO**  
Electrophysiology



**Kerry Lanigan, MD**  
Hospital Medicine



**Joseph Lee, DO**  
Intensivist



**Marina Liem, MD**  
Radiology



**Xin Liu, MD**  
Anesthesiology



**Nandini Madan, MD**  
Pediatric Cardiology



**David Maletzky, DO**  
Hospital Medicine



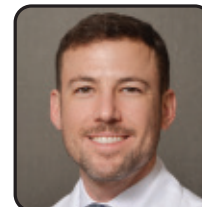
**Andrew Martin, MD**  
Pulmonary Medicine



**Muhammad Muntazar, MD**  
Anesthesiology



**Michael Neary, MD**  
Critical Care Medicine



**Evan Nevel, DO**  
Cardiology



**Mitul Patel, DO**  
Interventional Cardiology



**Alexander Poulathas, DO**  
Hospital Medicine



**William Qiu, MD**  
Radiology



**Syed Rahmatullah, MD**  
Cardiology



**Sheena Rastogi, MD**  
Cardiology

# PHYSICIAN LISTING



**Muhammad Raza, MD**  
Interventional Cardiology



**Achillina Rianto, MD**  
Anesthesiology



**Geurys Rojas-Marte, MD**  
Cardiology/Heart Failure



**Ronald Ross, MD**  
Cardiothoracic Surgery



**Diana Virella Saenz, MD**  
Anesthesiology



**Saman Safadjou, MD**  
Vascular Surgery



**Jonathan Stoll, MD**  
Intensivist



**Sena Sumathisena, MD**  
Cardiology



**Stephen Justin Szawlewicz, MD**  
Cardiology



**Florence Unuigbo, MD**  
Hospital Medicine



**Aaron Van Hise, DO**  
Interventional Cardiology



**Vincent Varghese, DO**  
Interventional Cardiology



**Howard Waksman, MD**  
Pulmonary Medicine



**Tracy Walker, MD**  
Cardiology



**Denise Zingrone, DO**  
Cardiology

## Additional Physicians

**Marie Bernardo, MD**  
Interventional Cardiology

**Philip Klenn, MD**  
Pathology

**Zaw Win Tun, MD**  
Electrophysiology

**John Caplan, MD**  
Electrophysiology

**Vijay Marwaha, MD**  
Interventional Cardiology

**Christina Wjasow, MD**  
Electrophysiology

**Justin Fox, MD**  
Interventional Cardiology

**Shakil Shaikh, DO**  
Interventional Cardiology




# INNOVATIONS

---

## **Implantation of First Dual-Chamber Leadless Pacemaker System**

Unlike traditional pacemakers, leadless devices are implanted directly into the heart through a minimally invasive procedure and eliminate the need for cardiac leads. As a result, leadless pacemakers reduce people's exposure to potential lead- and pocket-related complications and offer a less restrictive and shorter recovery period post-implantation.

## **Implantation of Optimizer® Smart Mini in Heart Failure Patient**



The new device — similar in size to a pacemaker and implanted during a minimally invasive procedure — is designed to improve the heart's contraction, allowing more oxygen-rich blood to reach the body. The device does this through precisely calibrated and timed electrical pulses to the heart muscle during one-hour treatment periods scheduled throughout the day.


## **First Pulsed Field Ablation (PFA) Procedure**

The PulseSelect™ PFA system delivers pulsed electric fields through a specialized catheter to disrupt the abnormal electrical signals that cause AFib. Unlike traditional thermal ablation methods — which use heat (radiofrequency) or cold (cryoablation) — PFA is nonthermal and designed to selectively target cardiac tissue while sparing surrounding structures, potentially reducing the risk of complications and enabling quicker recovery.

## **Harnessing Power of the Brain and Nervous System to Improve Heart Failure Symptoms**

Despite advancements in heart failure medications and technologies, some patients continue to experience symptoms that impact their daily life. Barostim™ is a novel device option designed to help patients with heart failure who may not be receiving adequate symptom relief from their medications alone and are not eligible for a pacemaker.

Barostim™ works by stimulating baroreceptors – natural pressure sensors located in the wall of the carotid artery – that tell the nervous system how to regulate heart, kidney, and vascular functions. These effects reduce the heart's workload and help it pump more efficiently, helping to restore balance of the autonomic nervous system and improve the symptoms of heart failure.



# OVERVIEW OF SERVICES

## ADVANCED IMAGING SERVICES

- 3D echocardiography
- 3D transesophageal echocardiography (3D TEE)
- Arterial Doppler
- Cardiac computed tomography angiography (CTA)
- Cardiac magnetic resonance imaging (cardiac MRI)
- Computed tomography (CT)
- Coronary computed tomography angiography (CCTA)
- Diagnostic ultrasound
- Digital x-rays
- Dynamic 4D cardiac computed tomography (4D CT)
- Echocardiogram
- Electrocardiogram (ECG or EKG)
- Event monitor
- Exercise arterial Doppler
- Fluoroscopy
- Holter monitor
- Low-dose CT scan for lung cancer
- Low-dose nuclear myocardial perfusion stress testing
- Magnetic resonance imaging (MRI)
- Nuclear stress testing
- Pediatric echocardiography
- Position emission tomography-computed tomography (PET/CT) scanning
- Pulse volume recordings
- Pyrophosphate nuclear imaging
- Stress echocardiogram

- Transesophageal echocardiogram
- Treadmill stress testing
- Vascular ultrasound

## CARDIOLOGY

- Adult and pediatric clinical cardiology
- Cardiac amyloid evaluation
- Congenital heart disease diagnostics and intervention
- Coronary artery disease
- Hyperlipidemia
- Hypertension
- Noninvasive cardiovascular testing
- Women's Heart Center

## CARDIOTHORACIC SURGERY

- Adult congenital heart surgery
- Aortic repair (great vessel) aneurysm/dissection
- Bi-ventricular assist devices
- Combined valvular and coronary procedures
- Coronary artery bypass grafting (CABG)
- Endoscopic vein harvesting
- Left ventricular assist device (LVAD)
- Myectomy procedures
- Off-pump coronary artery bypass graft surgery (OPCAB)
- Percutaneous cardiac assist devices
- Pericardial procedures (window)
- Radial artery harvesting
- Tissue and mechanical valve implants

- Transcatheter aortic valve replacement (TAVR)
- Valve repair, replacement and reconstruction

### **CONGESTIVE HEART FAILURE (CHF)**

- Cardiogenic shock
- CardioMems™ implant for heart failure monitoring
- Extracorporeal membrane oxygenation (ECMO)
- Heart failure and LVAD implant management
- Left ventricular assist device (LVAD)
- Transplant cardiology, management of advanced heart failure

### **ELECTROPHYSIOLOGY/RHYTHM MANAGEMENT**

- Arrhythmia evaluation (all forms)
- Atrial fibrillation (AFib)
- Cardioversion
- Complex arrhythmia ablations
- Congestive heart failure evaluation and biventricular device treatment (CRT-P/CRT-D)
- Defibrillator lead extractions
- Implantable cardioverter-defibrillators (ICD)
- Left atrial appendage occlusion (LAAO): WATCHMAN™
- Pacemakers (including leadless pacemakers)
- Radiofrequency ablation for Afib using Stereotaxis remote navigation
- Tilt table test
- VIVO™ System

### **INTERVENTIONAL CARDIOLOGY/ENDOVASCULAR MEDICINE**

- 3D vascular stents
- Adult congenital procedures
- Alternative access (including popliteal pedal access for complex anatomy)
- Angioplasty with drug eluting stents
- Cardiac catheterization
- CardioMems implant for heart failure monitoring
- Carotid procedures and interventions
- Chronic total occlusions (CTO): diagnostics and interventions
- Deep vein thrombosis
- DETOUR™ System for treating complex PAD with percutaneous transmural arterial bypass therapy (PTAB)
- Intravascular ultrasound and fractional flow reserve (FFR)
- Left atrial appendage closure (LAAC) device: WATCHMAN FLX™
- Limb salvage procedures for critical limb ischemia
- Mechanical thrombectomy for pulmonary embolism
- Mitral valve repair with MitraClip™
- Paravalvular leak closure
- Percutaneous endovascular abdominal aortic aneurysm repair (PEVAR)
- Pulmonary emboli
- Transcatheter mitral valve repair (TMVR)
- Transcatheter valve repair and replacement
- Transradial catheterization and interventions



# OVERVIEW OF SERVICES

---

- Valvuloplasty
- Varicose vein ablations
- Venous disease

## STRUCTURAL HEART DISEASE PROCEDURES

- Atrial septal defect (ASD) closure
- Patent ductus arteriosus (PDA) closure
- Patent foramen ovale (PFO) closure
- Renal denervation
- Shockwave lithotripsy therapy
- Transcatheter aortic valve replacement (TAVR)
- Tricuspid valve repair with TriClip™
- Valvular and structural heart disease
- Ventricular septal defect (VSD) closure

## PEDIATRIC CARDIOLOGY

- Congenital heart disease evaluation
- Pediatric arrhythmia management
- Perinatal cardiology

## PULMONARY MEDICINE

- Asthma management
- Chronic obstructive pulmonary disease (COPD) management
- Endobronchial ultrasound guided biopsy (EBUS)
- Occupational lung disease
- Oncology Clinic – lung nodules and mass evaluations

- Pulmonary disability evaluations
- Pulmonary embolism management
- Pulmonary exercise studies
- Respiratory/breathing evaluation
- Smoking cessation

## REHABILITATION SERVICES

- Balance therapy
- Cardiac rehabilitation
- Physical therapy
- Pulmonary rehabilitation

## RESEARCH/CLINICAL TRIALS

- More than 30 innovative clinical trials in process

## SLEEP MEDICINE

- Diagnosis and treatment of sleep disorders
- Insomnia — primary and secondary
- Inspire® for obstructive sleep apnea
- Narcolepsy
- Sleep apnea syndrome
- Sleep deprivation syndromes
- Sleep movement disorders
- The remede® System



---

## THORACIC (LUNG) SURGERY

- Chest wall procedures
- Esophageal procedures
- Lung volume reduction surgery
- Mediastinal procedures
- Pleural procedures
- Pulmonary resections (wedge, lobectomy, pneumonectomy, segmentectomy)
- Tracheal procedures
- Video-assisted thoracoscopic lung surgery (VATS)



## VASCULAR/ENDOVASCULAR SURGERY

- Aortic aneurysm (AA) surgical repair
- Carotid endarterectomy
- Carotid stenting
- Dialysis access creation and endovascular maintenance
- Distal bypass surgery of lower extremities
- Endovascular abdominal aortic aneurysm repair (EVAR)
- Endovascular stent graft repair of thoracic aortic aneurysm (TAA)
- Endovascular stenting for peripheral arterial disease
- Fenestrated endovascular aneurysm repair of pararenal aortic aneurysm
- Limb salvage bypass surgery and endovascular therapy
- Stent/graft repair of abdominal aortic aneurysm (AAA)
- Surgical revascularization and bypass surgery for peripheral arterial disease
- Transcarotid artery revascularization (TCAR)
- Treatments for chronic venous insufficiency, varicose veins, deep vein thrombosis

## WOUND HEALING AND HYPERBARIC TREATMENT

- Arterial and venous pumps
- Bioengineered skin substitutes
- Compression wraps
- Growth factors
- Hyperbaric oxygen therapy (HBO)
- Negative pressure wound therapy
- Ultrasonic debridement
- Wound matrix and collagen dressings



## ADDITIONAL SERVICES ON CAMPUS



- Emergency Department operated by Capital Health
- Eye care
- OB/GYN
- Outpatient pharmacy
- Primary care
- Urgent care

## CARE IN THE COMMUNITY

Deborah Specialty Physicians offer the legendary Deborah® care you know and count on, in the convenience of your own community.

Our highly trained, board-certified specialists provide advanced diagnostic and treatment options for every aspect of cardiac care, including advanced heart failure, cardiology, electrophysiology, diabetes and endocrinology, primary care, pulmonary medicine, sleep medicine, and endovascular and vascular surgery.

Our specialists are leaders in patient care and innovative healing, partnering with patients to restore health and achieve lasting wellness.

Deborah Specialty Physicians is a private physician practice. The name “Deborah” is a registered trademark of Deborah Heart and Lung Center, and is used under license granted by Deborah. All rights reserved.







In alliance with



**Deborah Heart and Lung Center**

200 Trenton Road  
Browns Mills, NJ 08015

(800) 214-3452 (Physician Referral)

[DemandDeborah.org](http://DemandDeborah.org)

© Copyright 2025 Deborah Heart and Lung Center. All rights reserved.

25-HVI-7226159