

A photograph of four healthcare professionals standing in a clinical setting, likely a hospital or research facility. From left to right: a woman in blue scrubs with her arms crossed; a woman wearing a colorful heart-patterned apron over a dark top and a patterned headscarf; a man in a white lab coat with glasses and a beard; and a woman in a white lab coat over blue scrubs. In the background, there is medical equipment, including a large white machine on the left and a monitor displaying data on the right. A blue semi-transparent banner is overlaid on the right side of the image, containing the title and subtitle.

Demand Deborah

The Deborah Hospital Foundation Innovation Guide



Demand Deborah Innovation: Game-changing technologies with an all-star team of medical professionals

Stephen J. Toal, Chief Development Officer

As you will read in the following pages of this fascinating publication, Deborah is continuing its commitment to our patients by advancing its capabilities while leading the way for other healthcare organizations to follow. Most of the technology depicted in this guide was fully funded by the incredible generosity of donors of the Deborah Foundation.

You will meet some of the regions' Top Docs and see some of the cutting-edge technology they are working with here at Deborah. By investing in, and attracting, the very best clinical and business professionals along with incorporating the most sophisticated medical technology available, Deborah continues to establish new standards by which high quality specialty healthcare is delivered.

For twelve weekends each fall, I have the opportunity to work as a D-I college football official. This avocation exposes me to fierce competitors and high expectations. Similarly, at Deborah, we recognize the need for precision and new "game changing" strategies coupled with innovative thinking and a strong sense of wanting to be the very best.

At Deborah, we do not define success as merely obtaining a #1 ranking through a survey, but rather by the extraordinary patient outcomes we achieve. We define it through an effective and comprehensive approach to preventative care through



the promotion of healthy living choices. We further define it by the relationships we cherish with the growing number of supporters within our Deborah Family of Donors. These valued friends selflessly contribute millions of dollars each year in support of the Deborah Foundation. We draw inspiration each day by these devoted, humble philanthropists, many of whom remember the Foundation with the ultimate gift, a bequest in their estate plans.

Technology, experience and knowledge are ever changing in the world of medicine. The Deborah Foundation, supported by our loyal donors, is focused on raising the funds necessary to allow Deborah to remain the leader in the delivery of specialized healthcare. We are unwavering in our efforts to remain a beacon attracting the brightest and most creative minds to a place where we are committed to provide tomorrows innovations... today!

The Tool



At Deborah, we do not define success as merely obtaining a #1 ranking through a survey, but rather by the extraordinary patient outcomes we achieve.

①

The Hybrid Operating Room

A Leading-Edge Healing Environment

THE PATSOURAKOS SURGICAL SUITE


Deborah's Hybrid Operating Room is a 1,000 square foot operating suite where cardiac and vascular surgeons and interventional cardiologists work side-by-side for blended procedures—combining two disciplines. The space allows echocardiography and anesthesia professionals to offer minimally-invasive approaches to challenging cardiovascular procedures.

Benefits of the Hybrid Operating Room:

- Continuous monitoring of patient thermodynamics with 3-station computer system for continuous monitoring of a patient's hemodynamics
- Real-time imaging allowing for integration with various diagnostic modalities for complex data analysis
- Increased precision and safety of cardiovascular procedures

Procedures Performed in the Deborah's Hybrid Operating environment:

- Transcatheter and Transapical Aortic Valve Replacement
- Carotid Stenting
- Subclavian Angioplasty
- Endovascular Repair of Thoracic Aortic Aneurysms
- Endovascular Repair of Abdominal Aortic Aneurysms
- Endovascular Repair of Thoracic Dissections
- Mesenteric Angioplasty and Stenting
- Renal Artery Angioplasty and Stenting
- Complex Hybrid Peripheral Vascular Revascularization
- ASD and VSD Repairs
- Hybrid PCI/CABG
- Atrial Appendage Closure
- Mitral Clip
- Other Complex Repairs



The Hybrid OR has dramatically changed the cardiac and vascular surgical advances that can be provided to serve our patients. We are able to care for critically ill patients that need treatment in new ways. There is dynamic teamwork and collaboration gained through being a partner in caring for these patients. The nursing advocacy for these patients to come to our center is heightened because of the great outcomes that are being achieved.

Helene (Tina) Herbert, RN, BSN, CNOR, Nurse
Manager of Perioperative Services at Deborah



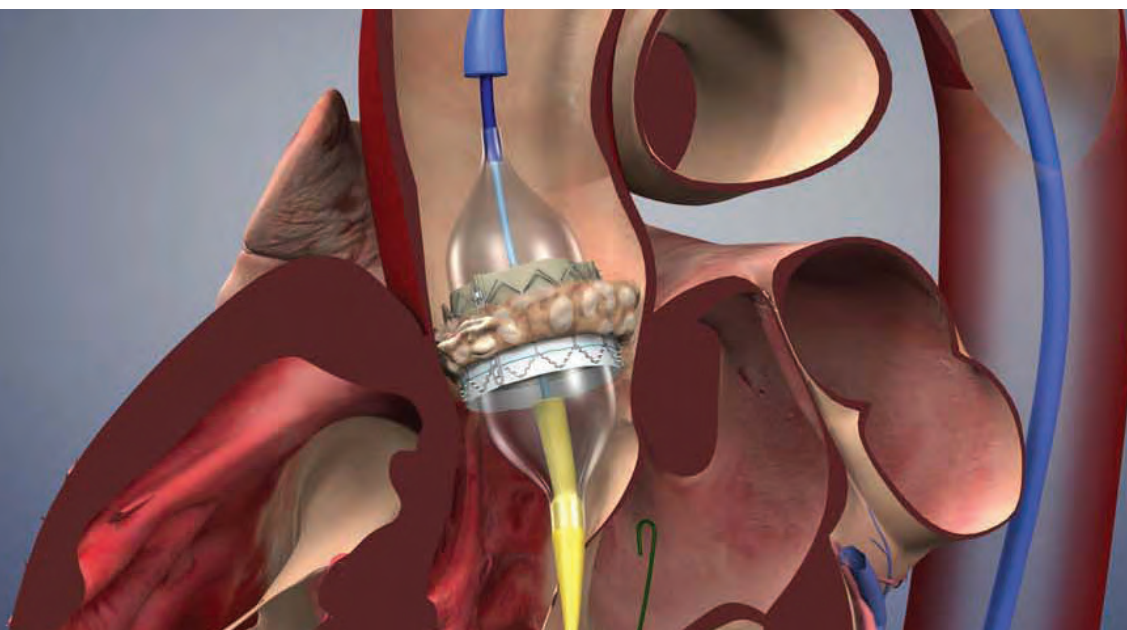


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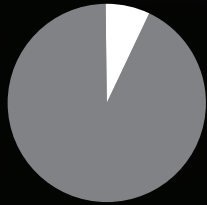
Transcatheter Aortic Valve Replacement (TAVR)

The new option for high risk patients

Transcatheter Aortic Valve Replacement (TAVR) gives Deborah's surgical and interventional teams a sophisticated, minimally invasive catheter-based treatment option for repairing stenotic aortic valves—without traditional open-heart surgery. Conducted within the Hybrid Operating Room, this approach is a viable option for patients considered too high risk for an open-heart procedure. TAVR represents a new standard in the quality of patient care.



25,000
DEATHS A YEAR ARE CAUSED
BY AORTIC VALVE DISEASE.



7 PERCENT
OF THE POPULATION OVER
THE AGE OF 65
IS AFFECTED.

HEART DISEASE CLAIMS THE LIVES OF

600,000

AMERICANS EACH YEAR. IT IS THE
LEADING CAUSE OF DEATH IN THE
UNITED STATES.



③

Beating Heart Bypass Surgery

Reducing risk, improving patient safety

Beating Heart Bypass Surgery is performed while the heart is still beating—a major advancement now available to Deborah patients. With “off-pump” technology, heart and lungs continue to function during the surgery, reducing the risk of stroke, lung and kidney dysfunction.

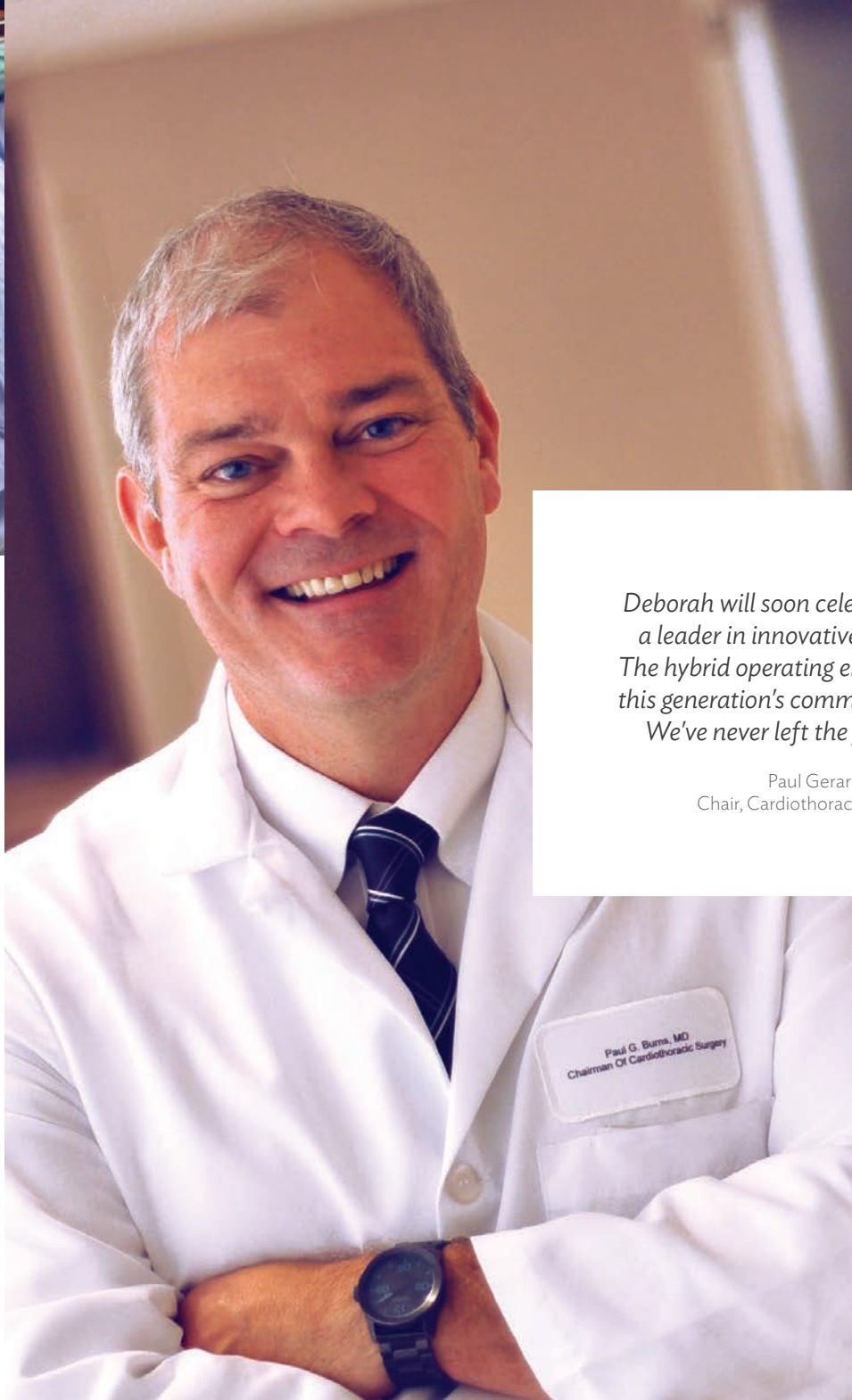
Benefits of Off-Pump Surgery:

- Shortens the average hospital stay
- No longer requires the need for heart-lung machine during surgery
- Lowers the needs of dialysis, encephalopathy, and chest wound infections
- Procedure lowers the need for red blood cell transfusions




Minimally Invasive Valve Treatment

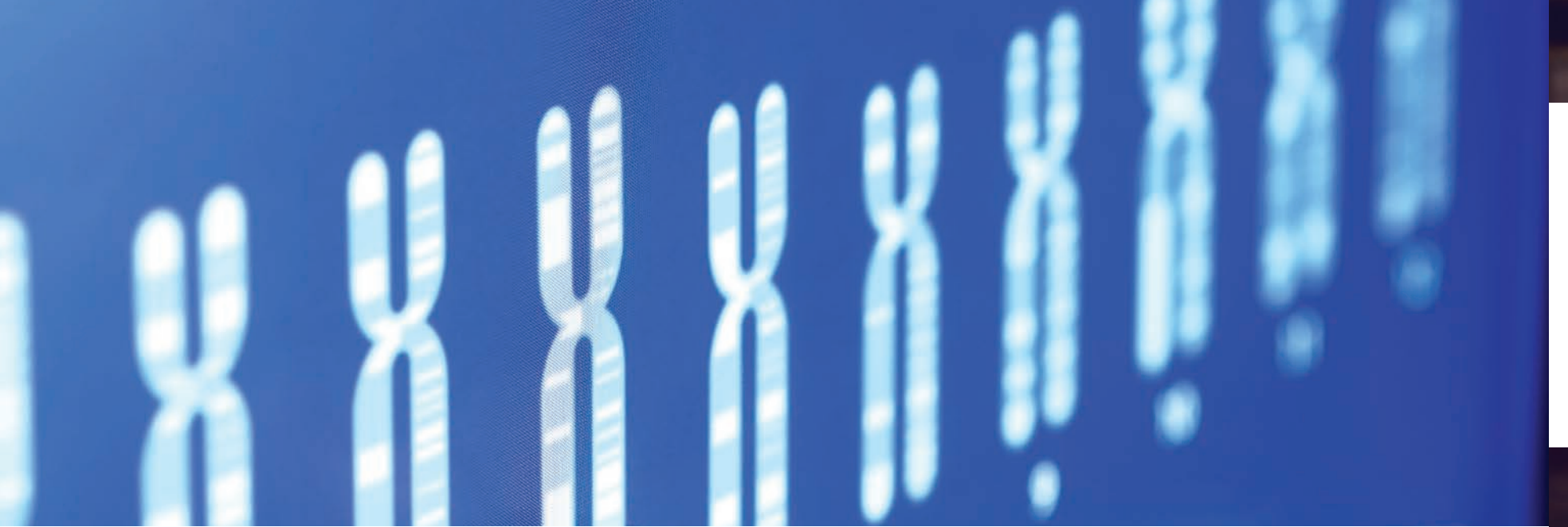
- For some patients undergoing valve surgery, the traditional sternal splitting incision can be replaced with a minimally invasive 3- or 4-inch incision
- This enables both a faster recovery and improved cosmetic result

A portrait of Paul Gerard Burns, MD, a middle-aged man with grey hair, smiling. He is wearing a white lab coat over a white shirt and a dark tie. A name tag on his lab coat identifies him as Paul G. Burns, MD, Chairman of Cardiothoracic Surgery. He is also wearing a black wristwatch. The background is a warm, out-of-focus indoor setting.

*Deborah will soon celebrate a century of being
a leader in innovative, compassionate care.
The hybrid operating environment is the hub of
this generation's commitment to that tradition.
We've never left the forefront of discovery.*

Paul Gerard Burns, MD,
Chair, Cardiothoracic Surgery at Deborah

A close-up, angled view of a blue ECG monitor screen. The screen displays several red ECG waveforms. The image is slightly blurred, emphasizing the medical technology.



④

Targeted Cardiac Care Based On Your Genetic Makeup

Delivering next generation heart wellness

Leading the way in targeted cardiac care, Deborah now offers state-of-the-art DNA testing for patients, allowing our specialists to tailor medical treatment based on genetic makeup. This targeted approach to cardiac care uses genetics to predict individual response to commonly prescribed cardiac medication and evaluate risk for adverse drug reactions for certain cardiac conditions. Targeted genetic testing is a groundbreaking initiative which will improve the quality of care for patients at Deborah Heart and Lung Center.

We're 100% committed to getting it right for the people we serve. Deborah's state-of-the-art genetic analysis gives a higher level of precision and accuracy to predict a patient's metabolic response to medications. This is critically important. It's new science that allows our cardiologists to predict their patient's metabolic responses to commonly subscribed cardiac medications.

Richard Kovach, M.D., Chair of
Interventional Cardiology at Deborah



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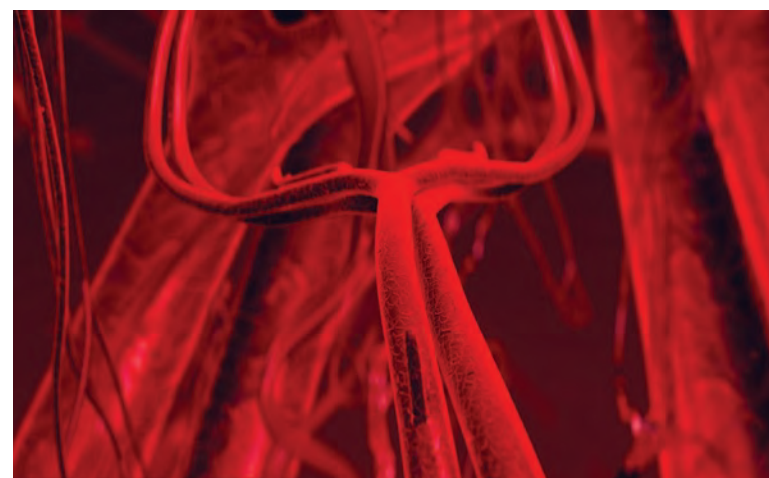
The Chronic Total Coronary Occlusion Program (CTO)

Fresh hope from New Jersey's leading interventional cardiology team

CTO at Deborah offers a minimally invasive treatment option to traditional open heart bypass surgery. With specialty training in new technologies and techniques, Deborah's experienced interventional team can now successfully cross and treat chronically occluded arteries with the next generation of catheter-based solutions. For patients who are not candidates for open heart surgery, CTO can be a life-saving technology.

Pathways for CTO sufferers

- Strong new options for those considered too risky for open heart bypass surgery
- A menu of new devices designed to move through the occlusion or around the blockage by entering the deeper layers of the arterial walls
- Technologies deployed by New Jersey's most experienced interventional cardiology team





These new devices and techniques require an extraordinary amount of training and skill. Chronic total occlusions previously had limited treatment alternatives, and we're thrilled to finally have a new approach to treating this condition.

Kintur A. Sanghvi, MD, FACC, FASCAI
Attending Cardiac Interventionalist
Director, Transradial Program at Deborah



⑥

Robotic Ablation

A breakthrough in patient safety

Robotic Ablation, the safer and more effective ablation for patients with heart rhythm disorders, or cardiac arrhythmias, is performed by Deborah Electrophysiologists with the Stereotaxis Remote Navigation System—which navigates to those areas of heart tissue responsible for the irregularity and inactivates them—all without open-heart surgery! Deborah's Heart Rhythm Center ranks among the top 10 robotic ablation centers in the United States.

Robotic Ablation at Deborah: Trust the Experts.

- Under the Corbisiero-Kazemian Team, Deborah is a Top 10 Robotic Ablation Center
- The team has a combined 20 years of experience, performing hundreds of ablations with over 100 robotic ablations
- Patients are exposed to up to 60% less damaging X-ray radiation
- Patients are 10x less likely to experience major complications such as perforation of the heart





This is one of many cutting-edge technologies available at the Heart Rhythm Center at Deborah. We've been able to make tremendous advances, achieving unparalleled levels of success and safety for our patients.

Raffaele Corbisiero, MD, Chair, Electrophysiology and Pacing
Director, Electromechanical Therapy Institute at Deborah

2.6 MILLION
AMERICANS EXPERIENCE
ATRIAL FIBRILLATION.



UNTREATED PATIENTS ARE **5X**
MORE LIKELY TO HAVE A STROKE



⑦

Endobronchial Ultrasound (EBUS)

Real-time diagnostic assurance for patients

EBUS technology is a pulmonary diagnostic tool providing real-time images of the lungs and surrounding areas, and is a critical instrument for diagnosis of cancer, infections and inflammatory diseases impacting the lungs.

Minimally invasive, maximum precision.

- Dramatically improves accuracy in diagnosing cancer stages to determine potential treatment paths
- Provides the possibility of less-invasive surgeries for patients with early-stage lung cancer
- The EBUS probe allows physicians to view live images to determine if cancer is active in the patient's windpipe or in nodes on the other lung



*This is really a revolution in care for our patients. It's a game changer...
With the addition of this sophisticated new instrumentation, which is only in use in select hospitals, we have a much greater capacity for evaluation of known or suspected lung cancer.*

Navdeep Kaur Brar, MD
Attending Pulmonologist at Deborah



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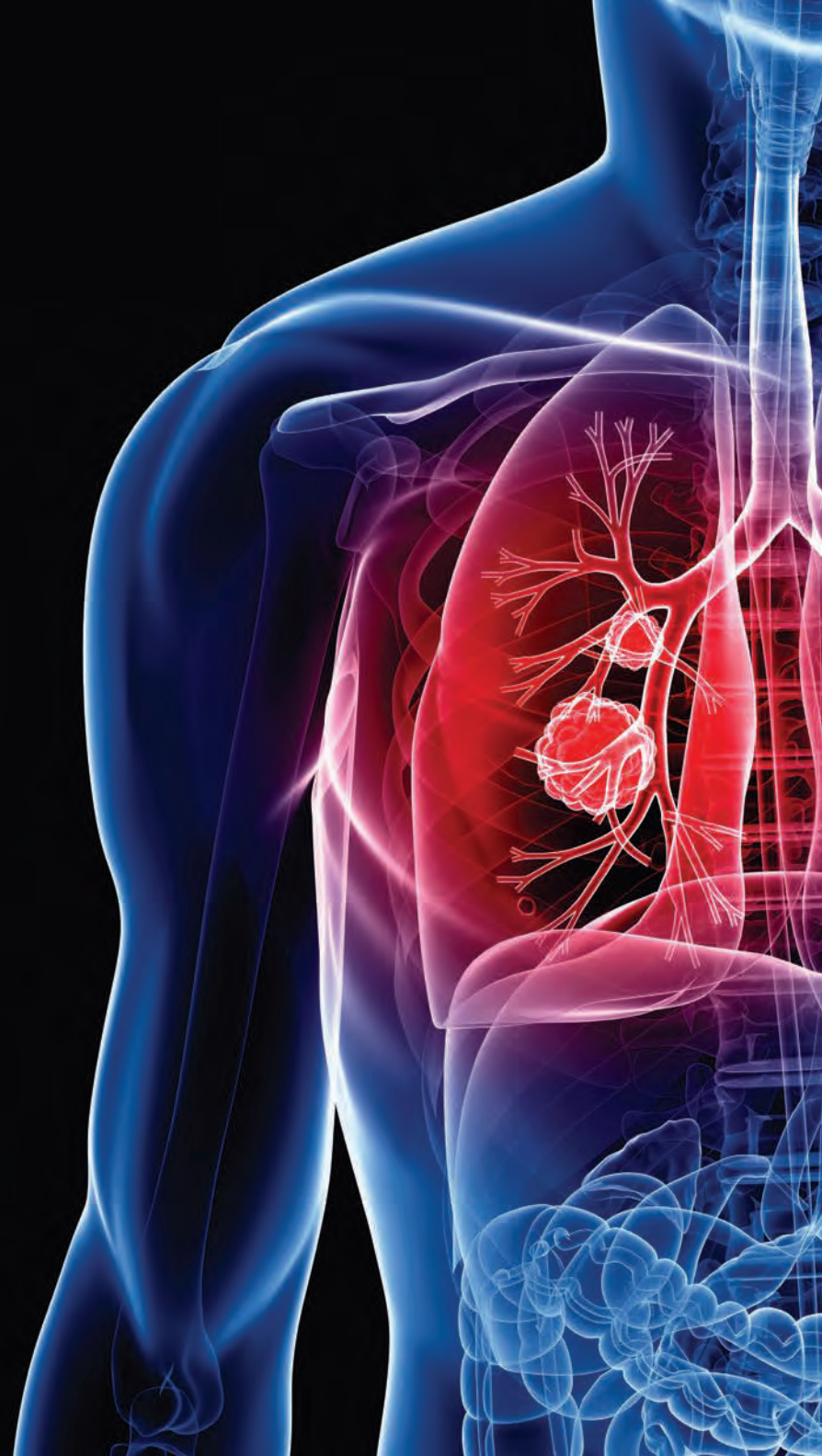
Bronchial Thermoplasty (BT)

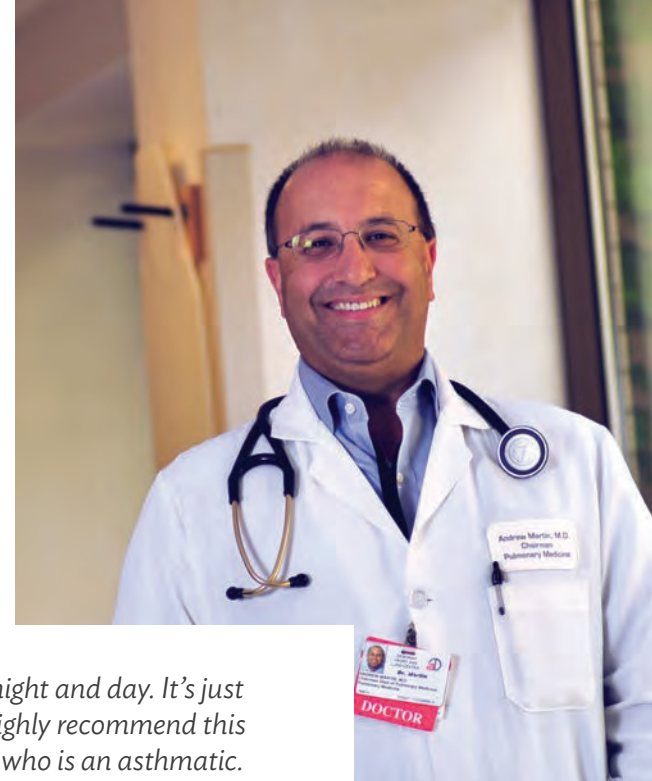
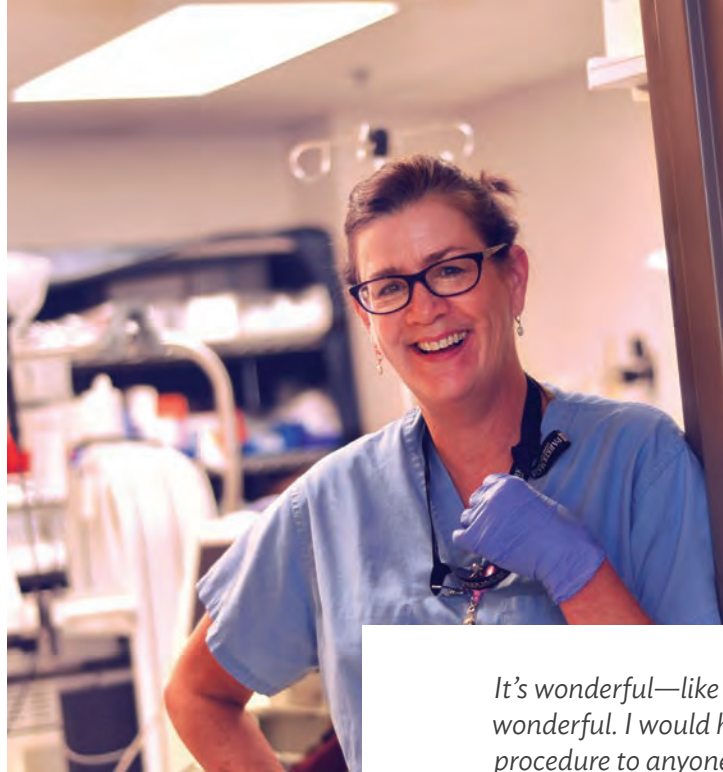
Freedom for chronic asthma sufferers

BT is a revolutionary outpatient procedure for patients with severe asthma. A safe, interventional bronchoscopic alternative for treating even the most advanced cases of uncontrolled asthma, BT offers new hope and freedom for Deborah patients.

Bronchial Thermoplasty: The Results

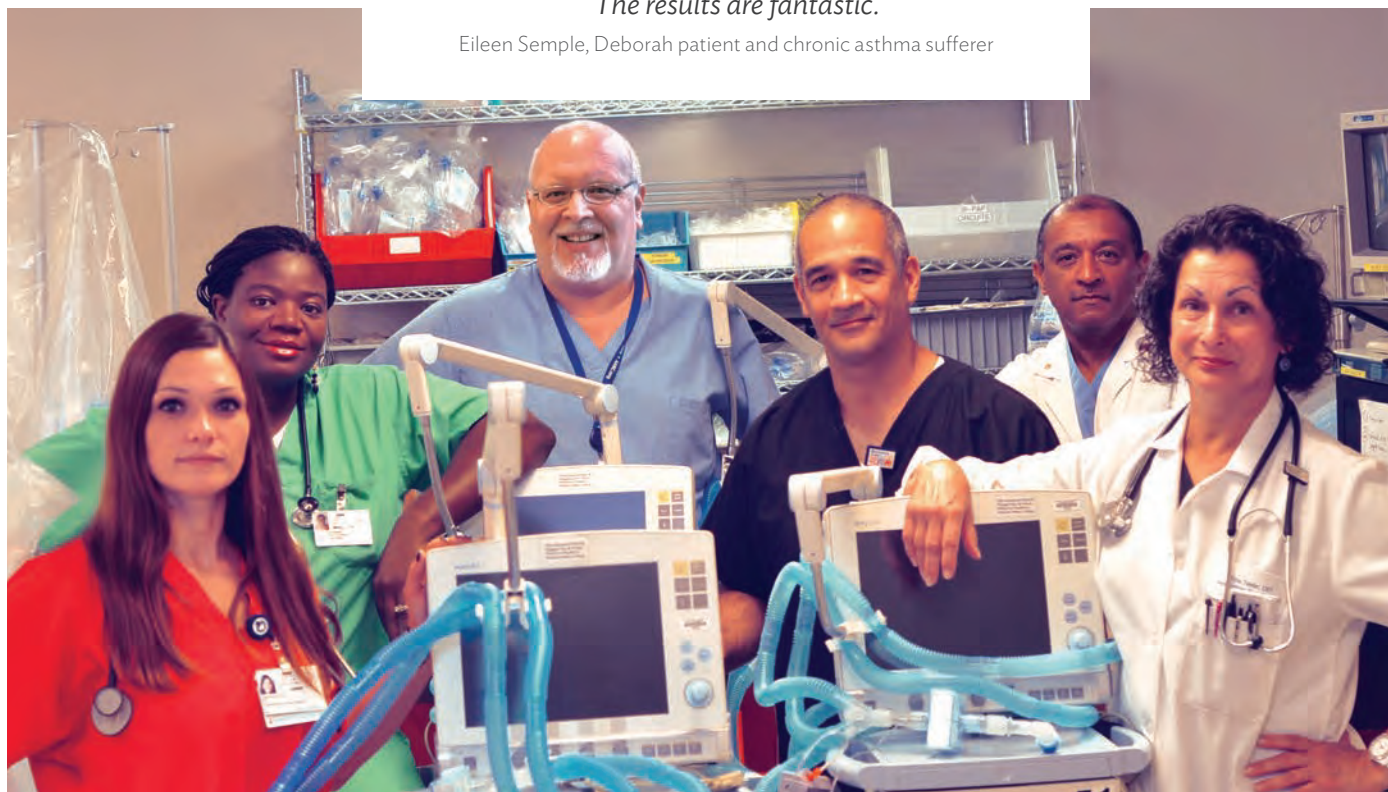
- Reduces severe asthma attacks for five years after the procedure
- Reduces emergency room visits for respiratory symptoms up to five years
- Reports no increase in hospitalizations, asthma symptoms, or respiratory adverse events over the course of five years





It's wonderful—like night and day. It's just wonderful. I would highly recommend this procedure to anyone who is an asthmatic. The results are fantastic.

Eileen Semple, Deborah patient and chronic asthma sufferer



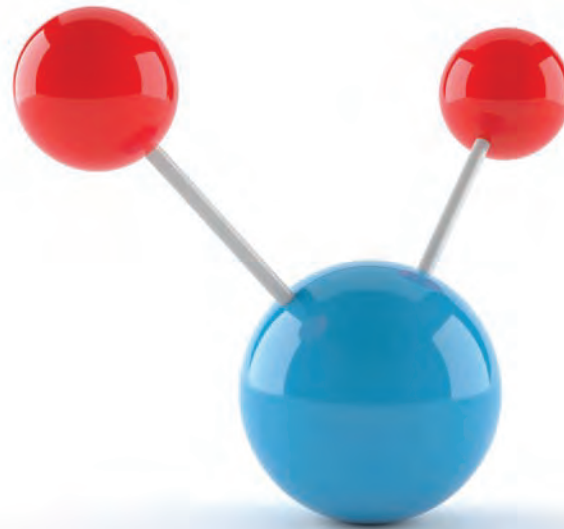
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The James Klinghoffer Center for Wound Healing and Hyperbaric Treatment

Renewed independence through wound healing technology

For the estimated 5 million Americans suffering with chronic wounds, technology holds a remarkable promise. At The James Klinghoffer Center for Wound Healing and Hyperbaric Treatment, Deborah is now able to provide sophisticated wound care technology and oxygen therapy to enhance healing through a multidisciplinary team approach.

Treatment applies proven wound care practices and advanced clinical approaches to heal patients suffering from chronic wounds. In addition, our center has the opportunity to participate in clinical trials utilizing the latest wound care products, not yet available to the general public.



The Difference is Oxygen.

Hyperbaric Oxygen Therapy (HBO) exposes the entire body to 100% oxygen under increased atmospheric pressure. The patient's oxygen-saturated blood promotes healing of chronic wounds.

Our wound therapy team is experienced in standard treatments such as debridement, advanced dressing, compression therapy and nutritional support. When these therapies alone are not enough, the new hyperbaric chambers are an invaluable tool assisting in the healing process resulting in extraordinary outcomes.

Dr. John Cooper, DO, FACOS, Director, The James Klinghoffer Center for Wound Healing and Hyperbaric Treatment at Deborah



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Parachute[®] Ventricular Partitioning Device

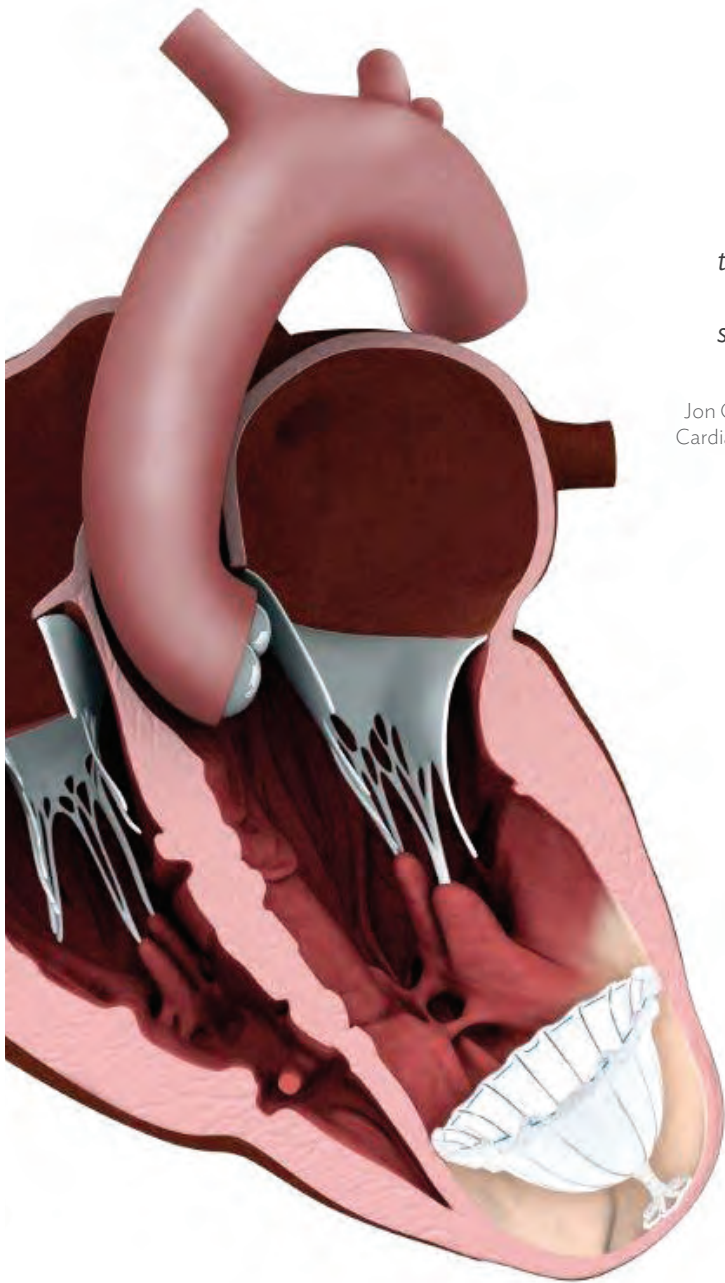
An emerging answer for heart failure

Patients at Deborah now have access to a new clinical research device which offers new hope to those suffering from heart failure caused by damage to the heart muscle following a heart attack.

Deborah is the first investigational site in New Jersey, New York, and Eastern Pennsylvania to implant the Parachute Ventricular Partitioning Device, which is a minimally-invasive approach to this life-threatening condition.

Through a catheter inserted in the femoral artery, the Parachute implant is deployed in the left ventricle to partition the damaged muscle, excluding the non-functional heart segment from the healthy, functional segment to decrease the overall volume of the left ventricle and restore its geometry and function.





This is a promising new technology offering a great opportunity for patients suffering with heart failure after a heart attack.

Jon George, MD, FACC, FSCAI, Attending Cardiac Interventionalist Director of Clinical Research at Deborah



Examining the Challenge of Heart Failure:

- 5.1 million people suffer from heart failure
- Nearly 50% of those diagnosed with heart failure die within 5 years
- The cost of heart failure is some \$32,000,000 annually—costs resulting from medications, health care treatment, and lost work days



It doesn't take a
genius to know
that we all benefit
when you invest in
Deborah.

*We can not solve our problems with the same
level of thinking that created them.*

Albert Einstein, Deborah supporter

He Who Serves Humanity Serves God,
He Who Serves Deborah Serves Both.



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