

UHEALTH - UNIVERSITY OF MIAMI HEALTH SYSTEM

ECHOCARDIOGRAPHY LABORATORY

INFORMATION FOR PATIENTS AND THEIR FAMILIES



Welcome

We created this booklet to help you on your patient journey with us.

The booklet answers these questions for you:

- · What is echocardiography?
- · How does it help with your diagnosis and treatment?
- · What will happen during and after your test?

UHealth Cardiac and Vascular is at the leading edge of cardiovascular medicine. We proudly offer cutting-edge care for your heart and blood vessels. We are pioneers in creating tomorrow's treatments for today's patients.

Our expert team includes world-renowned heart and vascular doctor-scientists. We use current treatments and new treatments that contribute to advancing patient care.

We build our care approach on teamwork to ensure you receive the best care in beautiful South Florida. We talk with you and your healthcare providers to better understand your needs.

The high-quality services of our Echocardiography Lab reflect our dedication to incorporating top-tier technology and skill in your care.

- · Our Lab meets the strict standards of the Intersocietal Accreditation Commission (IAC).
- We use the latest imaging technologies such as 3D echocardiography and strain imaging, for an exact and complete review of your heart's structure and how your heart is working.
- We use advanced methods that are crucial to providing accurate diagnoses and monitoring that form the basis of your treatment plan.

Choosing UHealth means more than treatment. At UHealth, you receive a forward-thinking approach to cardiac and vascular health. Our program combines local convenience with the wide-ranging capabilities of an academic institution. Our goal is to advance the field of cardiovascular medicine to positively impact our patients' lives.



YIANNIS S. CHATZIZISIS, MD, PhD

Professor and Chief Division of Cardiovascular Medicine



MEHRDAD GHAHRAMANI, MD, FACC

Director of Echocardiography
Division of Cardiovascular Medicine

Our Locations



UHealth Tower

- 1400 NW 12th Avenue Suite 500 Miami, FL
- © 305-689-5551



Sylvester Comprehensive Cancer Center

- 1475 NW 12th Avenue Ground Floor, Room c095 Miami, FL 33136
- 305-243-4384



The Lennar Foundation Medical Center

- ♦ 5555 Ponce De Leon Blvd Coral Gables, FL 33146
- © 305-689-2900



UHealth at Kendall

- 8932 SW 97th Avenue Miami, FL 33176
- 305-270-3400



UHealth at Plantation

- 8100 SW 10th Street, STE 2500 Plantation, FL 33324
- 954-210-1000



UHealth at West Palm Beach

- (Vest Palm Beach, FL 33401)
- S61-219-2424



UHealth at Deerfield Beach

- 1192 E Newport Center Drive 1st floor, STE 100 Deerfield Beach, FL 33442
- 954-571-0111

COMING SOON:



UHealth at Doral

8375 NW 53rd Terrace Doral, FL 33166



UHealth at SoLé Mia

2111 SoLé Mia Way, North Miami, FL 33181

Transthoracic 2D Echocardiography



WHAT IS A TRANSTHORACIC ECHOCARDIOGRAM?

A transthoracic echocardiogram (TTE) is a test that uses ultrasound to create pictures of your heart. With this procedure we can:

- · Look at the structure and function of your heart.
- · See the size of your heart, and how it contracts.
- · See the condition of your heart valves and the blood supply to your heart.

During this test, we place an ultrasound probe on your chest. The high-frequency sound waves from the probe create real-time pictures of the heart. These pictures are displayed on a monitor.

We can also use Doppler technology to look at the speed and direction of blood flow within the heart. TTE is particularly valuable in evaluating:

- · the heart's strength, size, structure, movement, and lining.
- · the aorta, a large vessel that takes blood from your heart to the rest of your body.



HOW TO PREPARE FOR YOUR TRANSTHORACIC ECHOCARDIOGRAM

- · A TTE does not require special preparation.
- · A team member will take you to a private exam room.
- · You will need to undress from the waist up.
- · You may want to wear a two-piece outfit or loose-fitting clothing.
- · A team member will give you a gown to wear.

THE DAY OF YOUR TEST

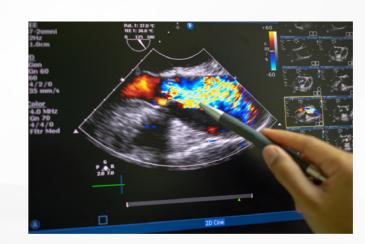
- · Please arrive at least 30- minutes before your appointment.
- · If you are unfamiliar with our location, please plan additional time for travel.
- · If you cannot keep your appointment, please call us as soon as possible.
- · Please bring your insurance cards and identification with you to the appointment.
- If you have had any prior echocardiograms performed at other facilities, bring a copy of the report to your appointment.

DURING YOUR TEST

- · After registration, a team member will take you to a private exam room.
- · The team member will give you a gown to put on.
- An ultrasound technologist (the person who does the ultrasound) will place electrodes on your chest to record your heart rhythm and heart rate.
- · You will need to lie on your left side on an exam table while the ultrasound technician takes pictures of your heart.
- Some patients may need a contrast agent (a liquid that goes into your body through a vein) to enhance the ultrasound images.
- If this is needed, a team member will place an IV in your hand or arm. We use the IV to administer the contrast agent.
- The typical exam takes about 45 minutes. However, please plan on being in the Cardiology Department for about 90 minutes.

AFTER YOUR TEST

- We store the pictures from the test on digital files.
- The cardiologist reviews the pictures after the test is done.
- · We will send a report to your doctor.



Transesophageal Echocardiography



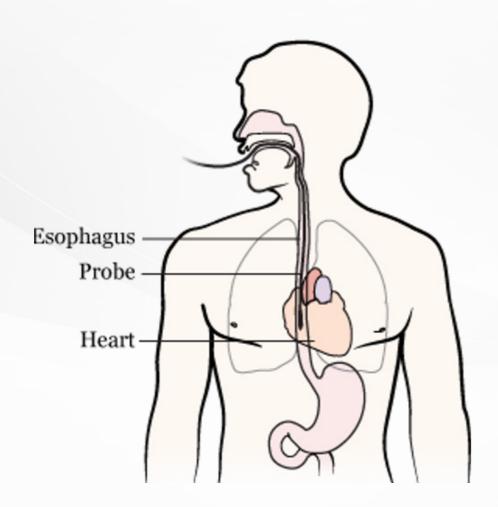
WHAT IS A TRANSESOPHAGEAL ECHOCARDIOGRAM?

A transesophageal echocardiogram (TEE) is a special type of ultrasound used to look at the structure and function of the heart. A TEE is usually safe.

A TEE is an important tool for taking detailed pictures of your heart, especially when a normal echocardiography may not provide enough information.

During a TEE the doctor places a small probe into your esophagus (throat). Your esophagus lies close to your heart. The doctor lowers the probe to a spot in your esophagus where it can get clear pictures of your heart's structures.

A specialized healthcare team performs the TEE. Before the TEE begins the team will give you medication that relaxes you or puts you to sleep.



A FEW DAYS BEFORE THE PROCEDURE

The TEE nurse will call you a few days before your procedure to:

- · Review what you need to do.
- · Ask you questions about your medical history.
- · Review your medications.
- · Tell you which medicines to take and not take the morning of your procedure.

GETTING READY FOR THE PROCEDURE

Before your procedure, please do the following:

- 1. Do not eat or drink for 8 hours before the procedure.
- 2. If you have diabetes, ask your diabetes doctor if you need to adjust your medications.
- 3. Ask someone to drive you home after your procedure. You will be too drowsy to drive.
- 4. Inform your doctor about:
 - · Any recent bleeding issues.
 - Swallowing difficulties.
 - · Stomach or esophagus (throat) problems.
 - · Use of a CPAP device.
 - · Prior issues with anesthesia or medicine allergies
- 5. Before the TEE, your doctor will explain the process and its risks and benefits.
- 6. You'll need to sign a consent form. This is an ideal time to ask any questions.

DURING THE PROCEDURE

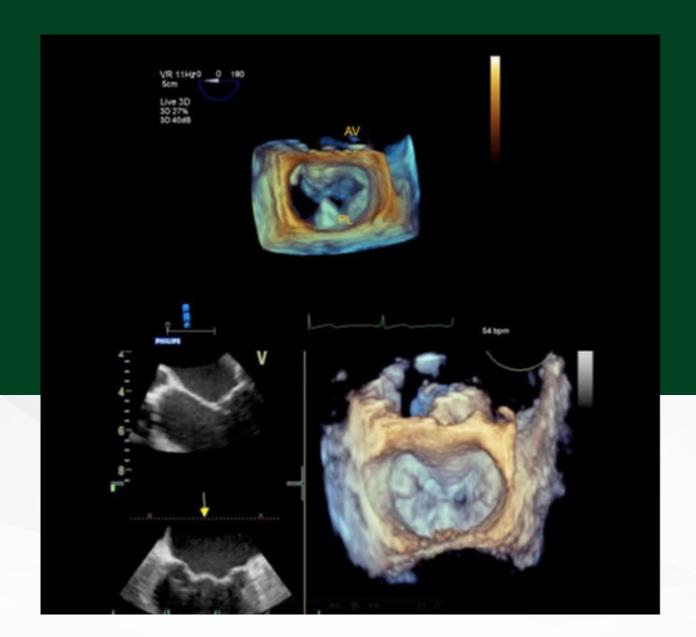
- When you arrive, you will change into a hospital gown.
- · A nurse will place an IV into a vein in your arm.
- If you wear dentures, you will remove them before the TEE begins.
- · While lying on your left side, the cardiologist will insert the probe into your esophagus.
- You may feel some discomfort, but most people do not feel pain.
- Once the probe reaches the location near the heart, the doctor will take pictures that will help diagnose your condition.
- Although the procedure takes about 30 minutes, expect to be at the hospital for over 2 hours.



AFTER THE PROCEDURE

For your safety and recovery, it is important to know and do the following after your TEE:

- · You may be drowsy on and off during the rest of the day.
- · Do not drive for the rest of the day.
- · Do not operate any machinery.
- It is crucial to have a responsible person stay with you during the first 24 hours after the procedure.
- · The medicine that numbs your throat can cause you short-term difficulty swallowing.
- · Do not eat or drink for I hour after the procedure.
- · Once you can drink water without a problem, you may start eating.



Stress Echocardiography



WHAT IS A STRESS ECHOCARDIOGRAM?

A stress echocardiogram is a test that combines an echocardiogram (an ultrasound of the heart) with a physical stress test.

We use this test to determine how your heart functions while exercising.

A Stress Echocardiogram helps look for conditions like coronary artery disease (blockages in your heart vessels). It can also help us decide if your heart treatments are working.

BEFORE THE TEST

- Discuss your medicines with your doctor. You may need to adjust the dose or stop certain medicines before the test.
- We may tell you not to eat certain foods and drinks. Please follow our instructions about fasting or avoiding certain foods and drinks.
- · Please do not do activities that need a lot of energy and effort the day before your test.
- · On the day of the test, dress in comfortable, loose clothing that allows you to exercise.





DURING THE TEST

- Before your test starts, a team member places electrodes on your chest to check your heart rate with an electrocardiograph (EKG).
- You will wear a blood pressure cuff to continuously check your blood pressure during the test.
- · While you are resting, a team member performs an EKG and echocardiogram.
- For the echocardiogram, you will lie on your left side. At the same time, the ultrasound technician uses an ultrasound wand to capture pictures of your heart.
- For the exercise part, you will walk on a treadmill. You will start slowly and then increase your effort.
- You will exercise until you either have symptoms or reach your target heart rate (based on your age and fitness level). It takes about 10 to 15 minutes.
- If you cannot exercise, we will give you a medication called Dobutamine to mimic what your heart does during exercise.
- It is crucial to report any unusual symptoms such as chest pain, shortness of breath, or dizziness to your provider at once.
- After reaching your target heart rate, you will stop exercising and quickly lie down for a repeat echocardiogram.
- It is normal to feel an increase in heart and breathing rate during exercise. You may feel a bit unsteady when stepping off the treadmill.
- · The test takes about 1 hour.

AFTER THE TEST

After your blood pressure and heart rate have returned to their normal levels, you can go home.

A cardiologist from our team will review the results of your test.

We will share the results with your provider.

Our Physicians



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Sharon Andrade-Bucknor, MD, FACC



Beteal Ashinne, MD



Martin S. Bilsker, MD



Andrew Bromley, MD, FACC



Thanh H. Duong-Wagner,



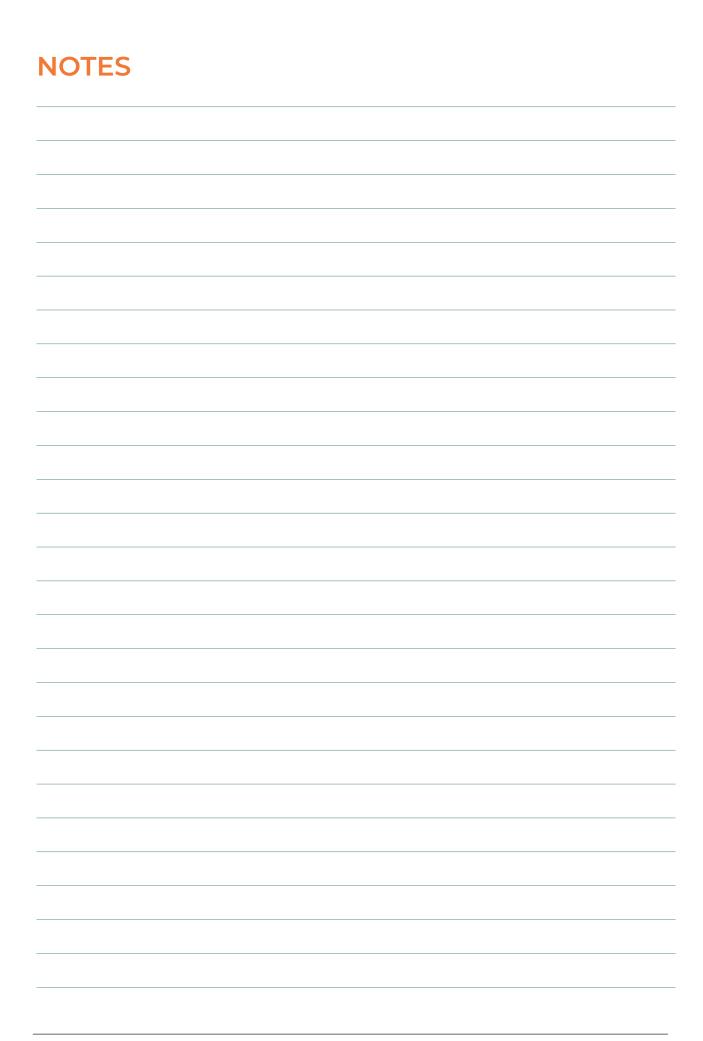
Maureen H. Lowery, MD



George Marzouka, MD, FACC



Robert B. Stang, MD





The mission of the Echocardiography
Laboratory at the University of Miami Health
System is to excel in providing state-of-the-art
echocardiographic diagnostics, infused with
a deep commitment to exceptional patient
care. As an academic medical center, we
aim to enhance patient outcomes through
advanced technology, foster innovation, and
educate future leaders in a collaborative,
multidisciplinary environment.

IMPORTANT PHONE NUMBERS

Scheduling: **305-243-5554**

Echocardiography Laboratory at UHealth Tower: **305-689-5551**

University of Miami Health System: **305-243-4000**

