



Duke Advanced Heart Failure

National leader in durable VAD and heart transplant volumes



Advanced heart failure innovation and clinical trials leadership



Full spectrum care across the heart failure continuum

Duke's Advanced Heart Failure program provides comprehensive care across the full continuum of disease, from optimized medical management to mechanical circulatory support and heart transplantation, all within a single, coordinated center. Our multidisciplinary team partners with referring providers to support timely evaluation, appropriate escalation, and longitudinal management of complex patients.

We offer advanced therapies, including durable mechanical circulatory support and transplant, supported by remote monitoring for LVAD patients to enable continuity of care and early identification of clinical changes. Our shared care models help patients access specialized care closer to home when appropriate.

Why Refer to Duke

- Integrated heart failure care within a single program, offering the full spectrum of care for patients from stage A-D
- 24/7 access to an advanced heart failure cardiologist
- High-volume center – Duke is a national leader in durable VAD, heart transplant and multi-organ transplant including heart-kidney and heart-liver
- Advanced donor preservation and transport technologies that expand geographic reach
- Expanded donor utilization using donation after circulatory death (DCD). Duke-led research in the EXPAND trial shows using ex-vivo perfusion (EVP) can safely expand the donor pool.
- Expanded donor acceptance including HIV positive (HOPE Act–approved), Hepatitis B-and Hepatitis C–positive donors to increase organ availability and reduce wait times
- Dual listing for heart transplant to increase likelihood of timely organ offer when appropriate
- Heart transplantation with blood conservation protocols (bloodless surgery for select patients)

Treatments Available

- State of the art remote monitoring to enable proactive management, early detection of decompensation, and optimization of guideline directed therapy.
- Advanced percutaneous coronary and structural heart interventions for patients with reduced ejection fraction and complex heart failure.
- Comprehensive advanced mechanical circulatory support delivered by an integrated interventional cardiology and advanced heart failure team for cardiogenic shock and advanced HF, including inotropes, ECMO, VAD, and total artificial heart.
- Clinical trial access for next generation mechanical circulatory support (BrioVAD INNOVATE Trial and BiVACOR TAH)
- National leader in heart transplantation, offering advanced heart transplant and combined multi organ transplantation for patients with complex advanced heart failure.

To refer a patient, log in to Duke MedLink or call 919-681-5816 (Option 1)



DukeHealth

Duke Advanced Heart Failure



Consider referral to Duke when your patients have the following clinical indicators of advanced heart failure:

- Repeated hospitalizations or emergency department visits for HF in the past 12 months or recent escalation of diuretics to maintain volume status
- Need for intravenous inotropic therapy
- Persistent NYHA functional class III to IV symptoms despite therapy
- Severely reduced exercise capacity (peak VO_2 , $<14\text{ml/kg/min}$ or $<50\%$ predicted, 6-minute walk distance $<300\text{m}$, or inability to walk 1 block on level ground because of dyspnea or fatigue)
- Intolerance to guideline-directed medical therapy (ie: ARNI, BB, MRA, SGLT2i) or persistent hypotension
- Progressive deterioration in renal or hepatic function
- Worsening RV failure or secondary pulmonary hypertension
- Persistent hyponatremia (serum sodium, $<134\text{ mEq/L}$)
- Refractory or recurrent ventricular arrhythmias; frequent ICD shocks
- Increased predicted 1-year mortality (e.g., $>20\%$) according to HF survival models (e.g., MAGGIC, SHFM)

How to Refer

We will happily help co-manage your heart failure patients at any time. In addition to routine heart failure care, we have specialists in:

- Hypertrophic cardiomyopathy
- Restrictive cardiomyopathy (sarcoid, amyloid)
- Genetic/rare cardiomyopathy
- ARVC
- Cardio-oncology

For consult or referral, please call the Duke Heart Center at **919-681-5816** (Option 1) or use Epic/MedLink.

*MedLink is a secure, web-based application that allows referring providers quick and convenient read-only access to view patients' medical records, place orders and referrals, and send secure messages to Duke physicians. Learn more at Physicians.DukeHealth.org/MedLink

