

PROTOCOL: ANNUAL HEART TRANSPLANT

Inclusion Criteria

- Patient with heart transplant presenting for **routine yearly follow-up**
 - If question of acute rejection or presenting earlier than their yearly echo, perform:
LV function protocol + LV wall thickness + LV Strain

EIMS Data

Procedure Components: 2-D, 3-D, Color Flow, Doppler, M-Mode, Strain Imaging

Serial Study: General

First Finding: Echocardiogram performed per heart transplant protocol.

Second Finding: Status post heart transplant (date).

Procedure: (TTE) 2D Echo Doppler Color

Charge Capture: Myocardial Strain – Hospital

Billing Diagnosis: Transplant Heart

Obtain FULL TTE, PLUS the following:

2D	CFI	Doppler	Measurement
Parasternal			
Asc Ao (suture line) PA (suture line)	Asc Ao (suture line) † PA (suture line) †	<i>Gradient if turbulent flow</i> †	LV wall thickness
Apical			
TV Zoom		<i>TV gradient (if repair)</i>	LV – Strain RV diameter – base, mid, length RV – area d/s
Subcostal and RSC			
		HV	

† If turbulent color flow noted near the main PA or aortic anastomosis, obtain CW Doppler profile

Caveats and Tips:

- Always measure: left ventricular wall thickness
- Always exclude: LA volumes
- Perform side-by-side comparison to prior study if available (especially in setting of pericardial effusion)