

Echocardiogram

If the Echo is ordered to determine origin of clot that caused a stroke or TIA(not an old stroke) perform Bubble Study instead.

Parasternal Long Axis (PSLAX)

- Cine x2 (lots of depth)
- Cine x2 (decreased depth)
- Zoom on valves x2
- M-mode
 - Aortic Valve & Left Atrium (looking for the boxes)
 - Mitral Valve (E-point to septal separation)
 - Left ventricle (measure EF if possible)
- Color
 - Small color box through LVOT & Aortic Valve (looking for AI)
 - Slightly wider color box through Mitral Valve & Left Atrium (looking for MR)
- Measurements
 - LVOT at its widest
 - Aortic Root & Left Atrium at its widest
 - RVIDd, IVS, LVIDd, PW
 - LVIDs = EF%

RVIT TILT

- Cine x2
- Color x2 (evaluate for TR)
- CW w/ color (measure TR if seen)
- *RA pressure should be 10mmHG

RVOT TILT

- Optional – evaluate for PI
- Cine x2
- Color x2 (evaluate for PI)
- CW – measure PI if seen (PA EDV)
- PW w/ Color – measure PV Vmax

PARASTERNAL SHORT AXIS

- Apex x2
- Paps x2 (M-mode if seen better)
- Mitral Valve x2 (M-mode if seen better)
- Base – Aortic Level
 - Aortic Valve
 - Zoom x2
 - Color x2
 - M-mode the Aortic valve if seen better

- Tricuspid Valve
 - Cine x2
 - Color x2 (Evaluate for TR)
 - Measure – CW – TR if seen (TR Vmax)
- Pulmonic Valve
 - Cine x2
 - Color x2 (Evaluate for PI)
 - PW – PV Vmax
 - CW – PA EDV (if PI is seen)
- Color all over Aortic Level
 - Cine x2
 - Evaluate for Interatrial Septal Defects

APICAL 4 CHAMBER

- Cine x2
- Zoom on Left Ventricle – Simpson's Method
 - Measure walls in Diastole & Systole to get your EF
- Mitral Valve
 - PW Mitral Valve tips
 - Measure E and A Wave & Slope (PHT)
 - TDI Lateral & Septal Annulus
 - Measure E & A Wave
 - CW through the valve
 - Trace the E and A wave
 - Color – Evaluate for MR & CW
 - Just show the MR (you do not measure MR)
- LA Volume
- TAPSE (M-mode) the right lateral wall
- Tricuspid Valve
 - Color x2
 - Evaluate for TR
 - CW – TR Vmax if TR is seen

APICAL 5 CHAMBER

- Cine x2
- Color x2
 - Evaluate for AI
 - CW – measure slope if AI is seen
- PW LVOT – trace LVOT waveform
- CW – Aortic Valve – trace AV Vmax

APICAL 2 CHAMBER

- Cine x2
- Color x 2
 - Evaluate for MR
 - Document (CW) if seen (do not measure)

APICAL 3 CHAMBER

- Cine x2
- Color x2
 - Color boxes over each valve individually if something of importance has been seen so far
 - Color box over both valves if nothing is seriously abnormal
- Evaluate for MR & AI
 - Document and measure AI slope (CW) if seen
 - Do not measure MR – only document

SUBCOSTAL

- Cine x2
- Color x2
 - Evaluate for septal defects
 - Evaluate for pericardial effusion
- Measure IVC at its widest
- Watch IVC collapse (sniff test) x 2