MaatHRI Echocardiography image quality assessment



Image quality assessment

Illustrations

Structures

Structures

Structures

All structures seen as illustrated

- 2D image
 - Parasternal long axis view
- Left ventricle Mitral valve



- - Left atrium

1.

4. Aortic valve Right ventricle

Image optimisation

Colour flow Doppler Colour box placed as illustrated show valvular flow

Parasternal short axis view

- 1. Circular left ventricle 2.
 - Papillary muscles Right ventricle

Left ventricle

Medium

Optimal optimisation (all the criteria apply)

Good

Apical 4 chamber view

- 2. Mitral valve
- Left atrium 4.
 - Right atrium Tricuspid valve
- Right ventricle

Criteria for image optimisation

Depth - Set to maximise the size of the display for the structures or flow

Orientation - Correct positioning of index marker for each view Gain - High enough for a few echoes to be demonstrated in the blood,

and the blood-endocardial tissue borders are well-delineated

Parasternal long axis view

Apical 4 chamber view

- Structures
- One or two structures not shown
- Image optimisation
- Two of the criteria apply
- Colour flow Doppler Colour box size and placement does not fully
- demonstrate valvular flow

Poor

of interest

Colour Flow Doppler (CFD)

Structures

Three or more structures not shown

Image optimisation

One or none of the criteria apply

Colour flow Doppler

- Colour box size and placement does not show valvular flow
- Mitral valve CFD

Aortic valve CFD



Mitral valve CFD

Tricuspid valve CFD