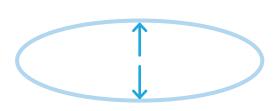


NUTS AND BOLTS

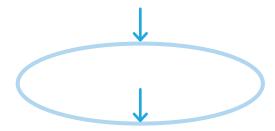
Making measurements

To help you make your measurements, here are some things to keep in mind:

- Use the same conventions as the rest of your department.
- Make sure the normal ranges you use are appropriate for your patients, and that you are using the same measuring conventions used when the normal range was devised.
- In general, a leading edge convention is used for measuring in the parasternal views. However, the left ventricular outflow tract (LVOT) is usually measured inner edge to inner edge. Historically
- the aorta was measured leading edge to leading edge in systole but there is a trend towards measuring inner to inner and some centers now measure in diastole.
- Don't over measure Doppler velocities. Trace around the main body of the waveform, ignoring artifacts, especially at the tips.
- Don't try to perform a Simpson's ejection fraction if you can't see the endocardium.



Inner edge to inner edge convention: bottom of interface to top of next interface.



Leading edge to leading edge convention: top of an echo interface to the top of the interface below.