

Left ventricular outflow tract (LVOT2)



Short axis (SA) cine



SA calculations

Stroke Volume – The amount of blood ejected every heart beat.

- End-diastolic volume (EDV) – end-systolic volume (ESV)

Cardiac output

- Stroke volume x heart rate

Ejection fraction

- Fraction of the EDV that is ejected with each heart beat $\frac{EDV - ESV}{EDV}$

Case study 1

Patient A

- 48 year old Male
- Myocardial infarction (MI)
- Diminished left ventricular (LV) function
- Assess scarring and LV function prior to implantable cardiac defibrillator (ICD)