ACUSON Redwood ultrasound system

syngo[®] Velocity Vector Imaging (VVI)

Quick Reference Card

siemens-healthineers.com/ultrasound



Step 1

- For Global Longitudinal Strain (GLS), choose Apical 4 chamber (A4C), Apical 2 chamber (A2C), and Apical 3 chamber (A3C) views
- For Global Circumferential Strain (GCS), choose Parasternal Short Axis at the mitral valve level (SAX MV), papillary muscle level (SAX PM), and apex level (SAX APEX)

Tip: Frame rate range of 70–90 fps is recommended for optimal tracking results.

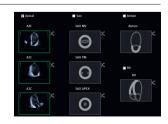
Step 2

- Enter Review
- Select images needed for VVI analysis
- Select Show Selected to view selected images
- Select syngo VVI

Step 3

 Select image(s) from the thumbnails and assign to the corresponding views

Tip: To delete an image, select the **X** in the upper right-hand corner.



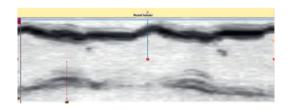
Show Selected

syngo VVI

Step 4

- If multiple cardiac cycles have been acquired, proceed to Sequence / M-mode selection icon to define one cardiac cycle within the period selector
- If only one cardiac cycle is to be analyzed, drag and drop the red markers to desired cardiac cycle
- Select the gray arrow in the top right corner of the screen to return to the contour page





Step 5

- Place landmarks within endocardium
 - Press left Set key for medial and lateral annulus
 - Press right Set key for apex







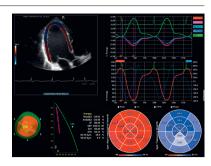
Step 6

- For a manual trace, place a series of points using the left Set key along the endocardium
- Position the last point using the right **Set** key



Step 11

 A main analysis page will be displayed



Step 7

• Press the right **Set** key or select the **Start Analysis** key to begin



Step 12

• Select Segmental Analysis



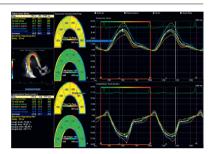
Step 8

- At the end of the systolic phase, a full contour is visible and will initiate the tracking of the contour at the end of the diastolic phase
- To modify the proposed contour, drag and drop the red or blue contour points to the desired area



Step 13

- Evaluate the Segmental Analysis page
- At the top of the page, different parameters can be selected such as Velocity, Displacement, Strain, and
 Strain Rate



Step 9

 Select gray arrow in top right corner to Accept Changes

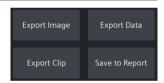


Step 10

- To edit the contour, select the S or D icon:
 - Once Correct ES Border is selected, a new tracking will be initiated
 - Once **Correct ED Border** is selected, the ES remains untouched

Step 14

- Options for analysis are:
 - Save to Report
 - Save Image
 - Export Clip
 - Export Data



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