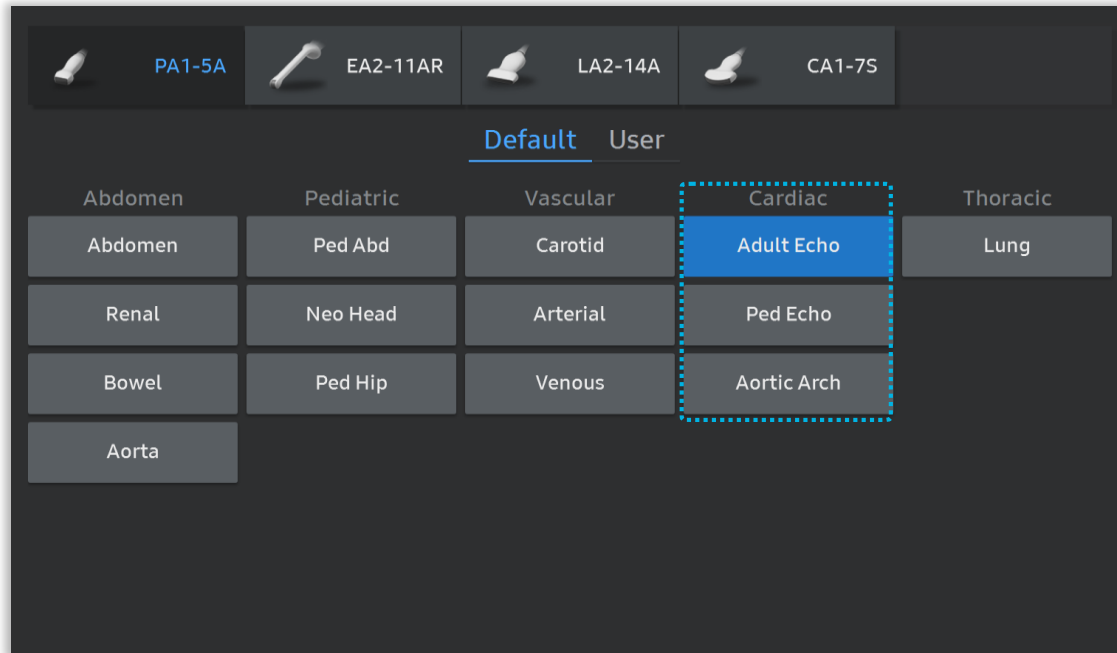


Strain+

V series Quick Guide



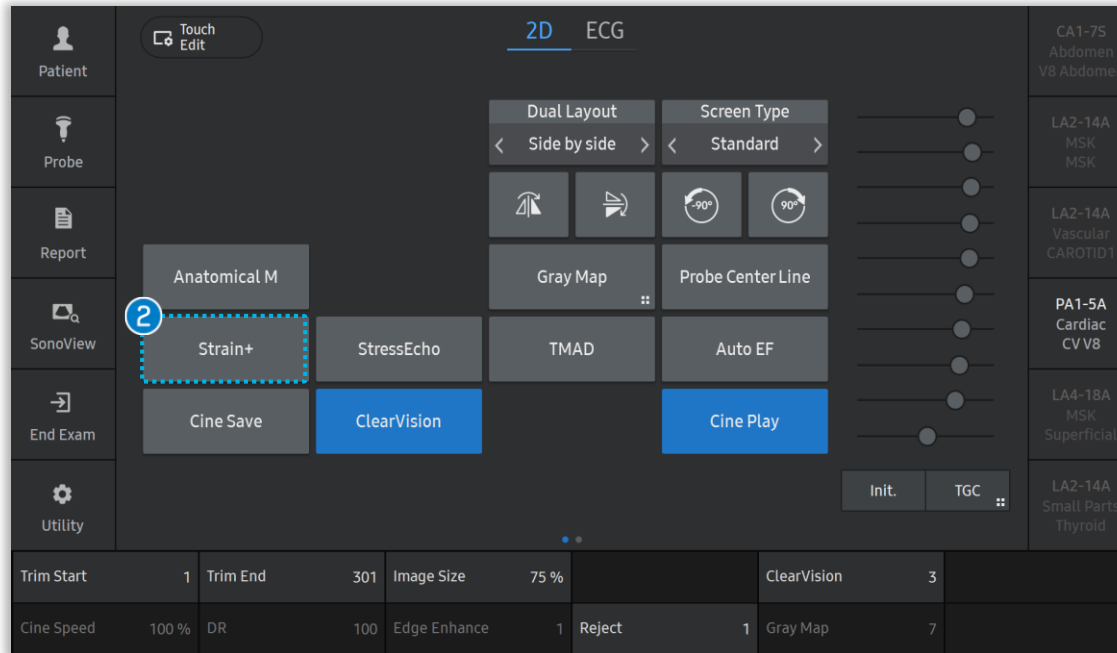
1. Probe and Preset



※ Available application and preset

Application	Cardiac
Preset	Adult Echo, Ped Echo, Aortic Arch
Mode	2D
ECG Heart rate	30~240

2. Start Strain



1 Image scan & Save

Save the cine clip for Strain.

* The requirements for Longitudinal and Radial Strain analysis are LAX, A4C, and A2C views.

2 Strain+

Select [Strain+] button on the touch screen to start. It is recommended to start on LAX view.

* LAX = Apical Long Axis/A3C

3. Select Strain images



Select 'Apical View' located on the upper left of the monitor or [Apical View] on the touch screen for longitudinal & radial strain.

2 Input A4C image

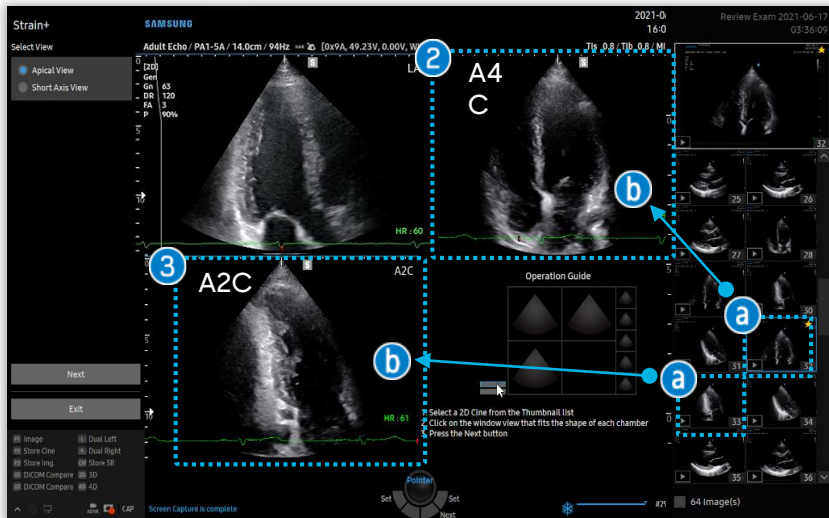
- a Select A4C image from the Thumbnail.
- b Click the A4C window with the [Set] button.

3 Input A2C image

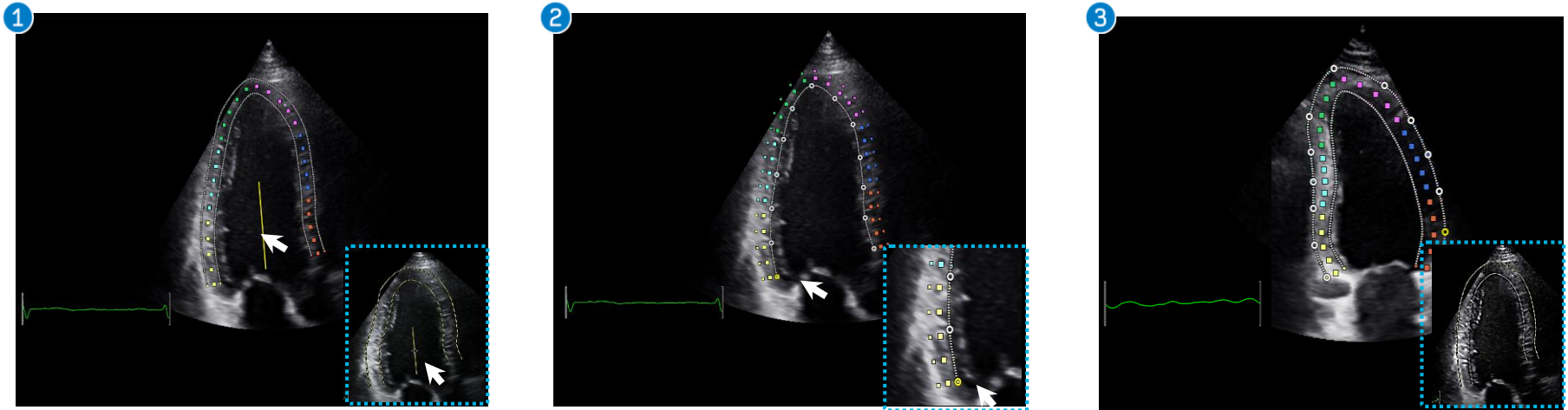
- a Select A2C image from the Thumbnail.
- b Click the A2C window with the [Set] button.

4 Next

Press the [Next] button for the next step.
* Then system automatically draws the LV border line.



4. LV border Contour



※ If border editing is needed, please following as the below.

1 Total contour

Select the [Edit] button on the touch screen. When you place the Pointer in the middle of LV, a yellow bar will be appear. → Press the [Set] button to edit the contour line by using the trackball. → Press the [Set] button again to confirm.

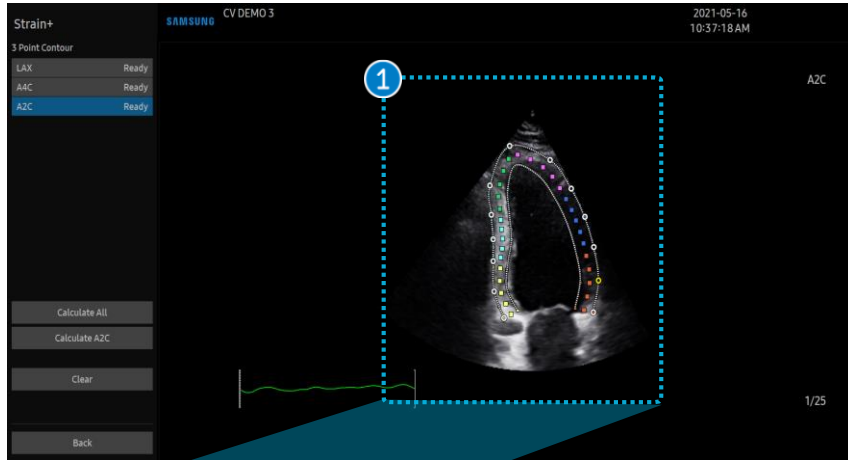
2 Endocardial point edit

Select the [Edit] button on the touch screen. When you place the Pointer close to the endocardial point, the endocardial border line will change to yellow points. → Press the [Set] button to edit the points of the line that needs to be modified. → Press the [Set] button again to confirm.

3 Epicardial line edit

Select the [Edit] button on the touch screen. When you place the Pointer close to the epicardial border, the epicardial border line will change to yellow points. → Press the [Set] button to edit the points of the line that needs to be modified → Press the [Set] button again to confirm.

4. LV border Contour_Epicardial

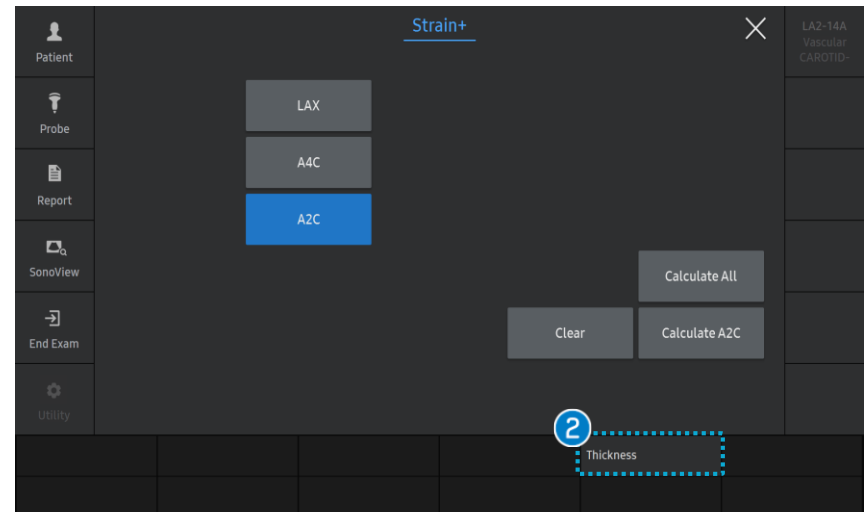
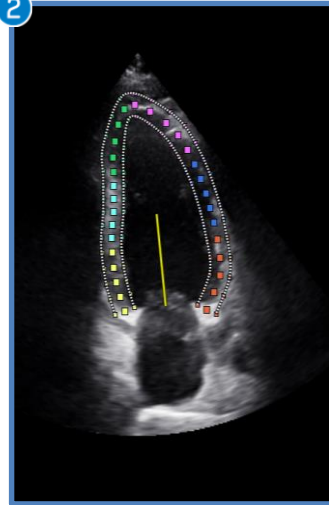


- 1 Adjust the thickness at once

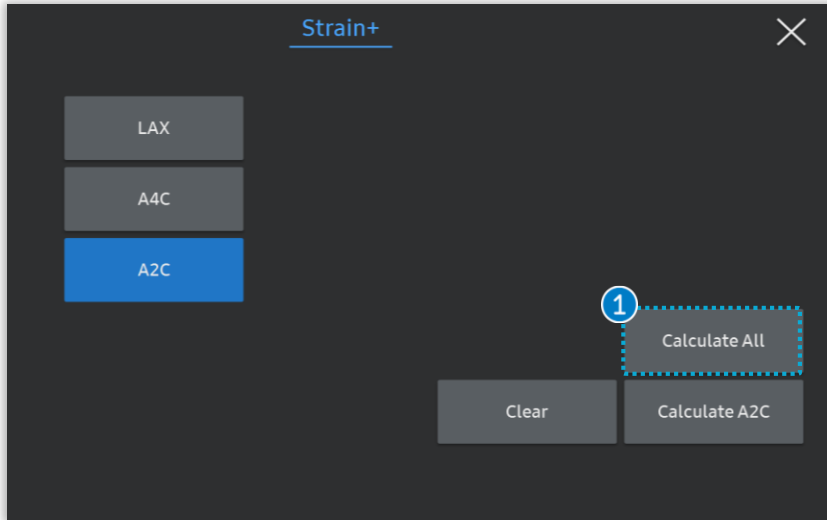
If the indicator's positioned little closer with epicardial border line
The epicardial border line will turn to yellow.
Then you can easily adjust the thickness as same as previous.

- 2 Thickness

Another way to adjust the thickness.
(1 and 2) Just rotate the toggle key.



5. LV border Calculation

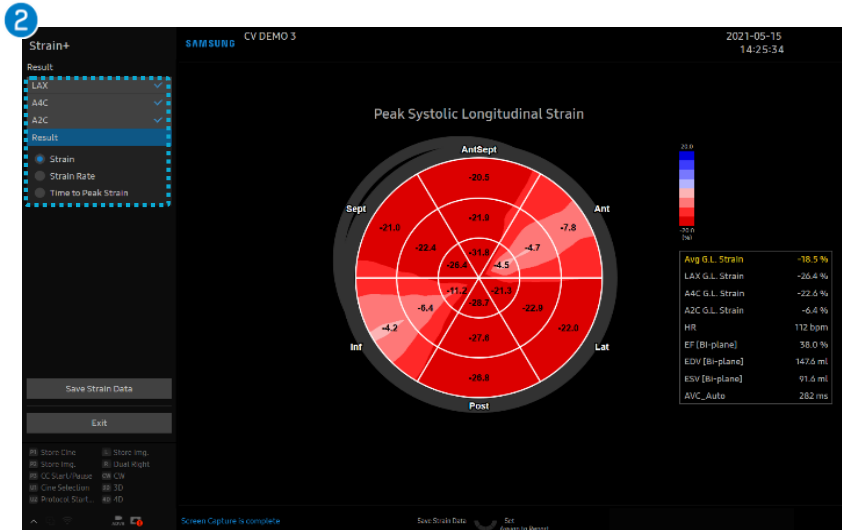


1 Calculate All

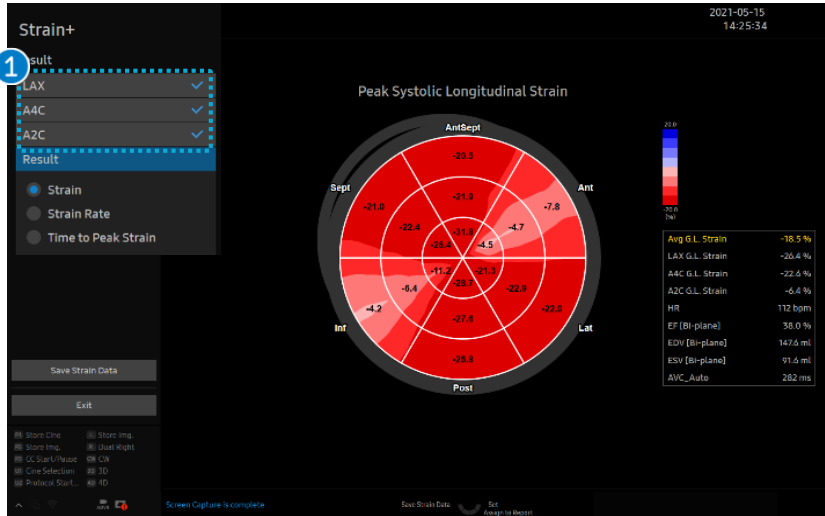
Calculates the Strain analysis on all views (LAX, A4C, and A2C).
 ※ The message "Calculating.." will appear on the bottom of the monitor.

2 Result

Displays the Strain result and Bull's eye pilot.

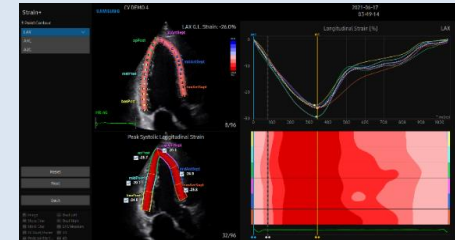


6. Confirm and edit LV borderline



1 Border tracking

Confirm that the LV border is correctly placed and tracked on each LAX, A4C, and A2C views.



2 Edit/Reset

Available to 'Edit' or 'Reset' the LV Border.

3 Next

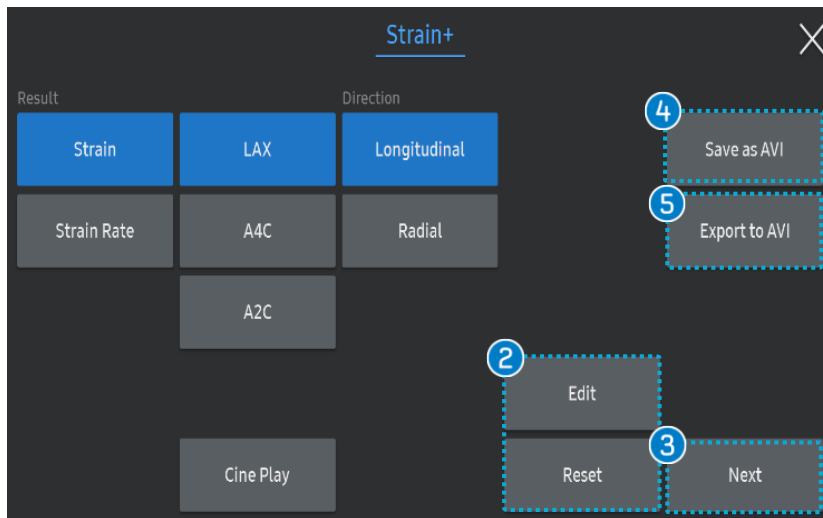
Press the [Next] button for the next view (LAX → A4C → A2C → Total strain Result).

4 Save as AVI

Saves the result with a captured screen as an AVI file.

5 Export to AVI

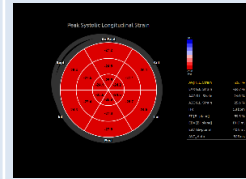
Exports the result and the representative image as an AVI file.
※ This is only available if a USB is connected.



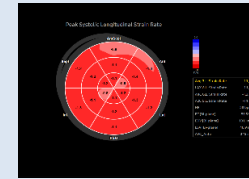
7. Total strain result Display

Strain+			
1 Result	2 Display	3 Direction	4 Segment
Strain	Bull's Eye	Longitudinal	18Segment
Strain Rate	Bull's Eye Images	Radial	17Segment
Time to Peak Strain	Bull's Eye Graph		

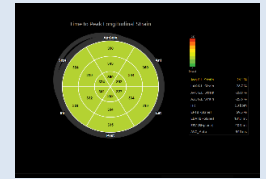
1 Result type



Strain

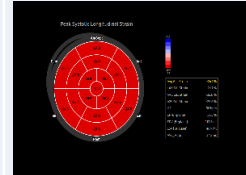


Strain Rate

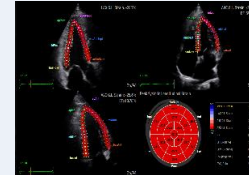


Time to Peak Strain

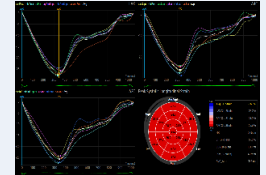
2 Display type



Bull's Eye

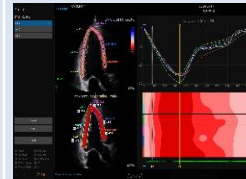


Bull's Eye Images

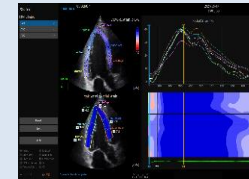


Bull's Eye Graph

3 Strain type

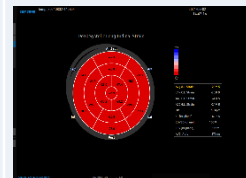


Longitudinal

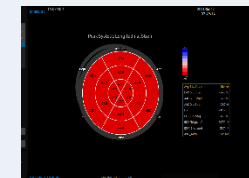


Radial

4 Segment

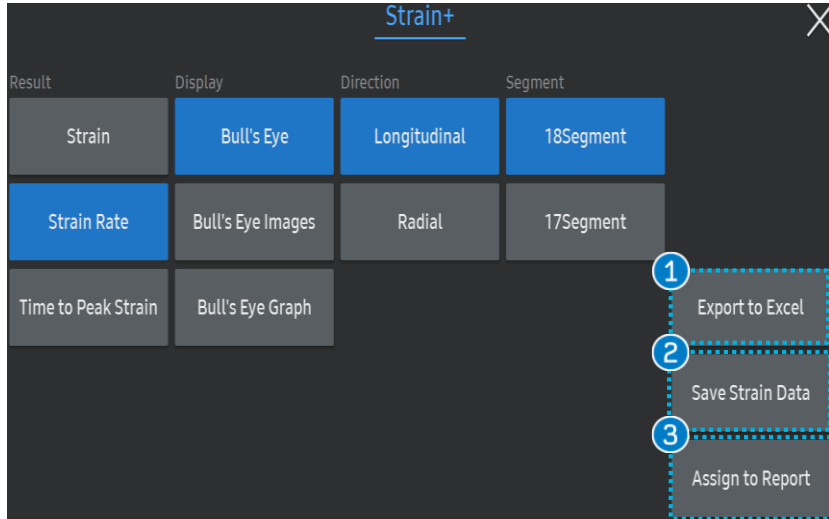


17 Segments



18 Segments

8. Total strain result



1 Export to Excel

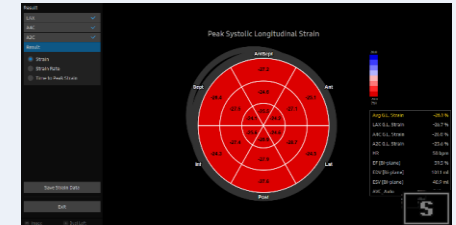
Save the result and the representative image as an Excel file.

※ This is only available if a USB is connected.

2 Save Strain Data

Saves the strain data. When you retrieve a saved image, the strain result will be displayed as well.

(Will be marked as **S** on the bottom of page)



3 Assign to Report

Strain+ result is assigned to report.

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- This product is a medical device, please read the user manual carefully before use.
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