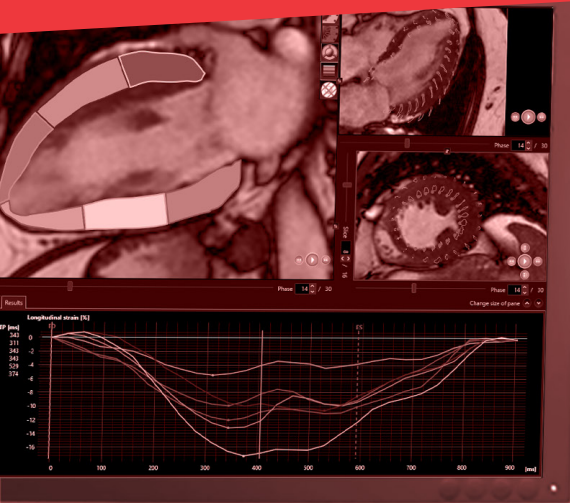


# Caas MR Strain



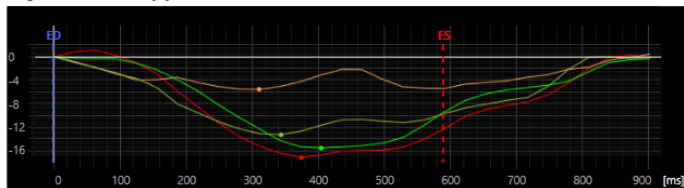
Unique feature tracking,  
without additional acquisition



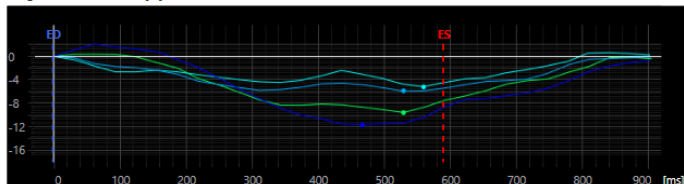
MR Strain

Caas MR Strain - part of Pie Medical Imaging's CMR software platform - uses feature tracking to detect the ventricular deformation patterns and functional abnormalities of the heart wall. This can be analyzed before such abnormalities become obvious with conventional parameters. Caas MR Strain includes Global Longitudinal Strain (GLS) analysis, which has been proven to be more sensitive for systolic function assessment than Left Ventricular Ejection Fraction (LVEF).

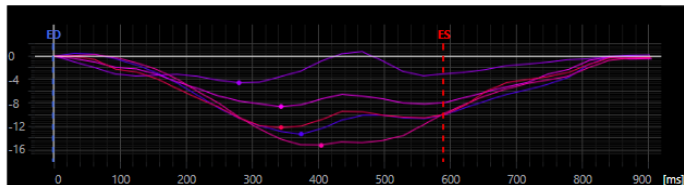
Longitudinal strain - Basal [%]



Longitudinal strain - Mid [%]



Longitudinal strain - Apical [%]



Item Name	Peak [%]	TTP [ms]	Peak Strain [%]	Time To Peak Strain [ms]
1. Basal Anterior	-17.13	374		
2. Basal Anteroseptal	-	-		
3. Basal Inferoseptal	-5.59	311		
4. Basal Inferior	-13.27	343		
5. Basal Inferolateral	-	-		
6. Basal Anterolateral	-15.53	404		
7. Mid Anterior	-9.58	529		
8. Mid Anteroseptal	-	-		
9. Mid Inferoseptal	-5.16	559		
10. Mid Inferior	-5.93	529		
11. Mid Inferolateral	-	-		
12. Mid Anterolateral	-11.66	466		
13. Apical Anterior	-13.35	374		
14. Apical Septal	-4.57	280		
15. Apical Inferior	-8.67	343		
16. Apical Lateral	-15.20	404		
17. Apex	-12.22	343		

## Key product features

- Auto contour input for Feature Tracking
- Detect ventricular deformation patterns and functional abnormalities
- Global longitudinal strain (GLS) with high clinical value in:
  - » Systolic dysfunction (HFrEF, Cardiomyopathy)
  - » Dilated and Hypertrophic Cardiomyopathy
  - » Ischemic Heart Disease

## Results

- Three strain types are determined: longitudinal, circumferential, and radial;
- Global Longitudinal Strain including Peak Strain (%) and Time to Peak Strain (ms);
- AHA 17 segment model including strain type choice
- User segment model with up to 20 segments per slice

All results are auto-populated to the report.

**Quality Assurance:** Pie Medical Imaging develops, produces, and sells products in accordance with internationally accepted standards. Caas MR Solutions - MR Strain is FDA 510(k) pending and CE marked.

