

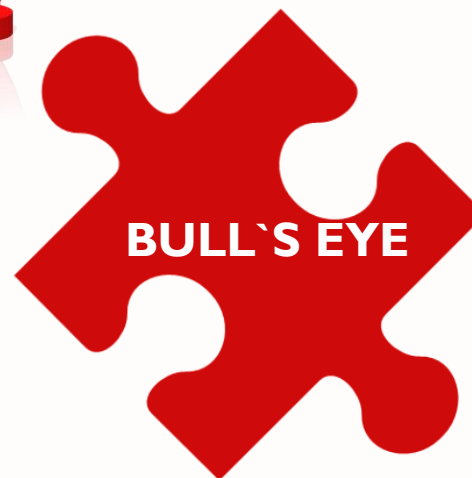
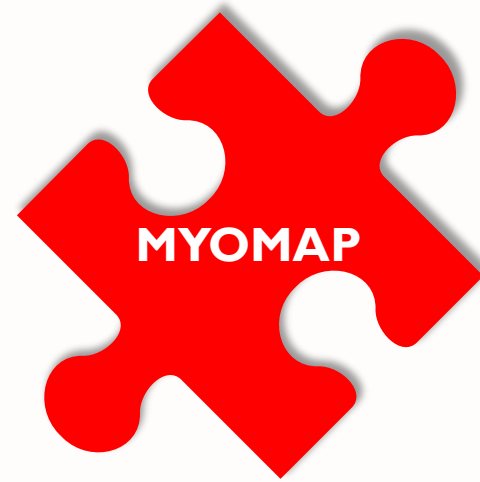


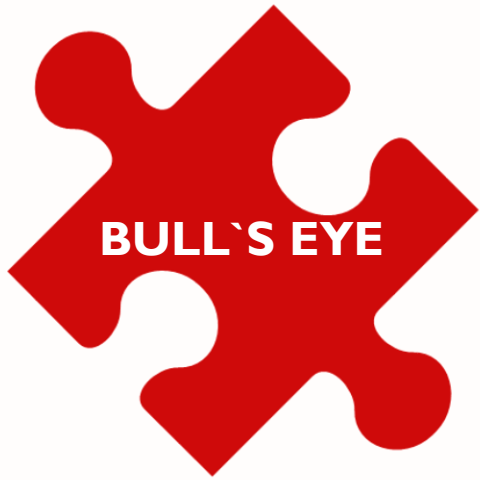
HART
CENTRUM

Het hart in beeld

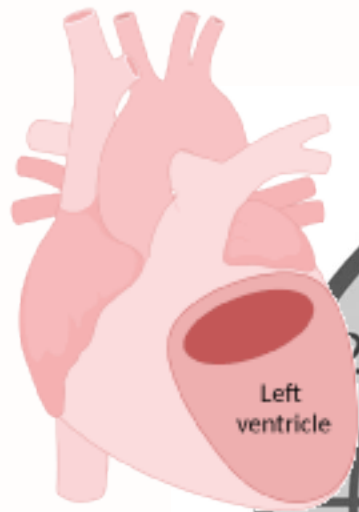
Ann-Sofie Vanstappen

ZIEKENHUIS *aan*
de STROOM



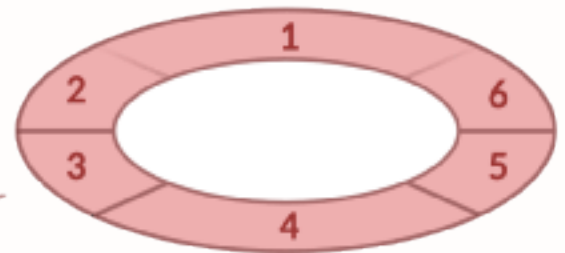
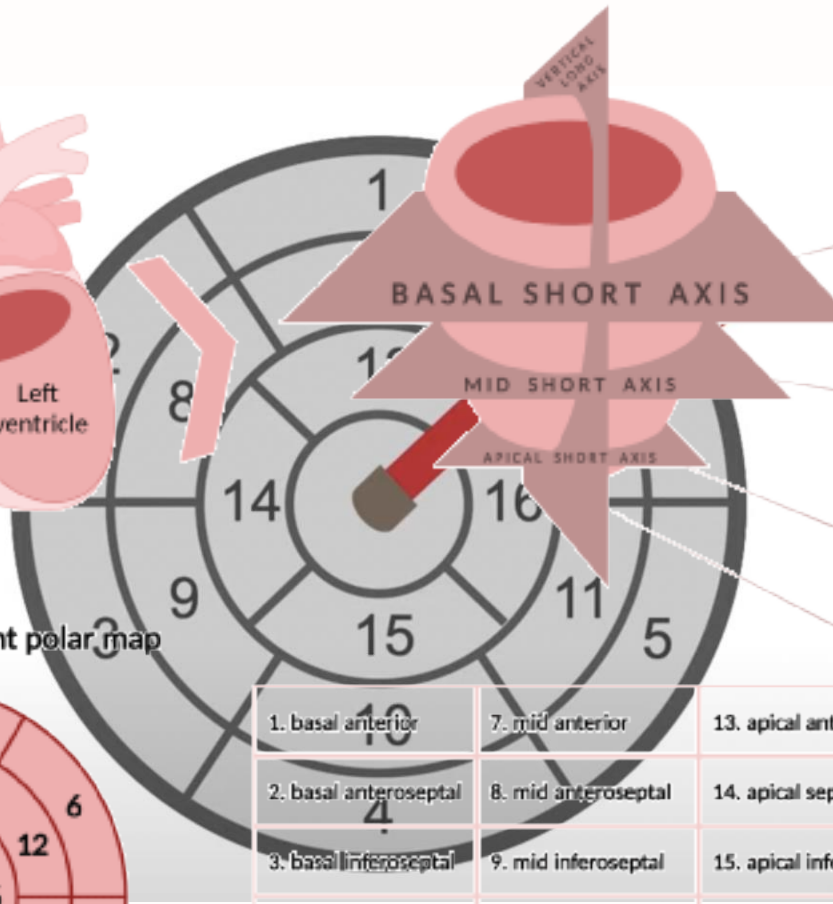
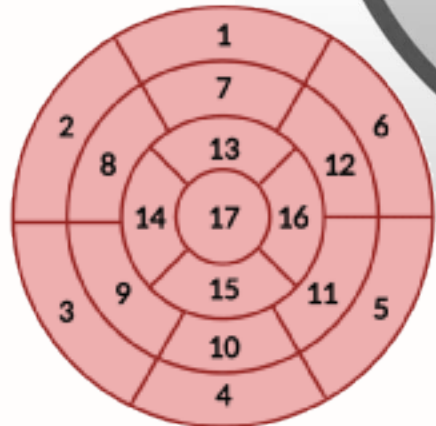


AHA 17-Segment Model

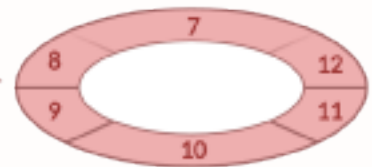


Left ventricle

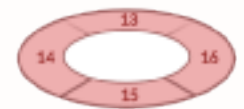
Left ventricle 17 segment polar map



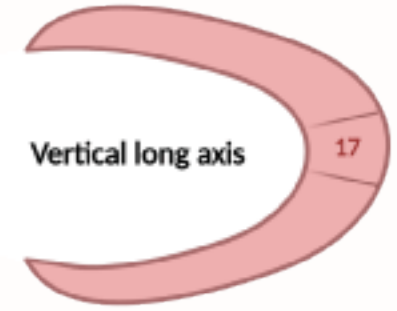
Basal short axis



Mid short axis

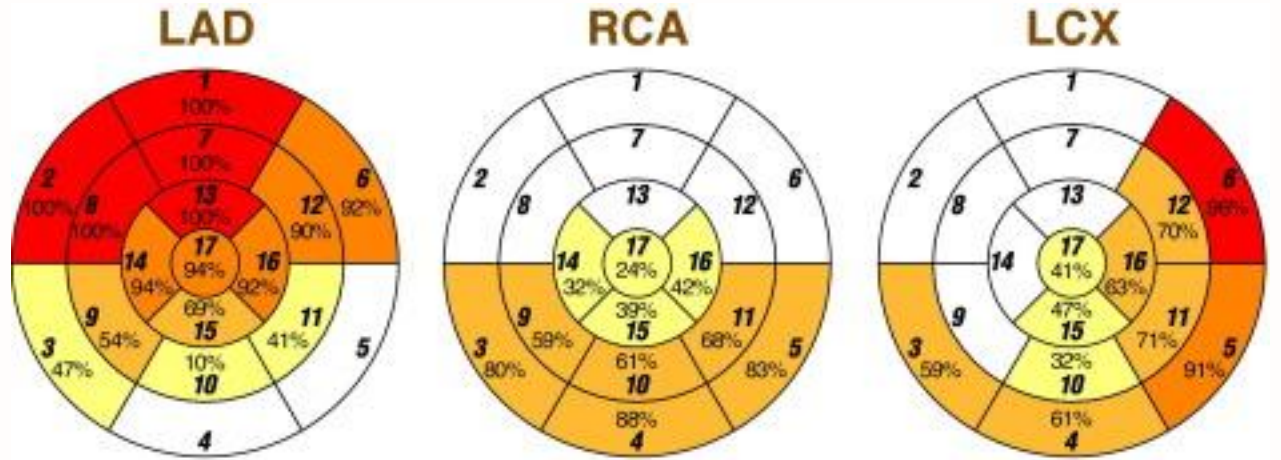
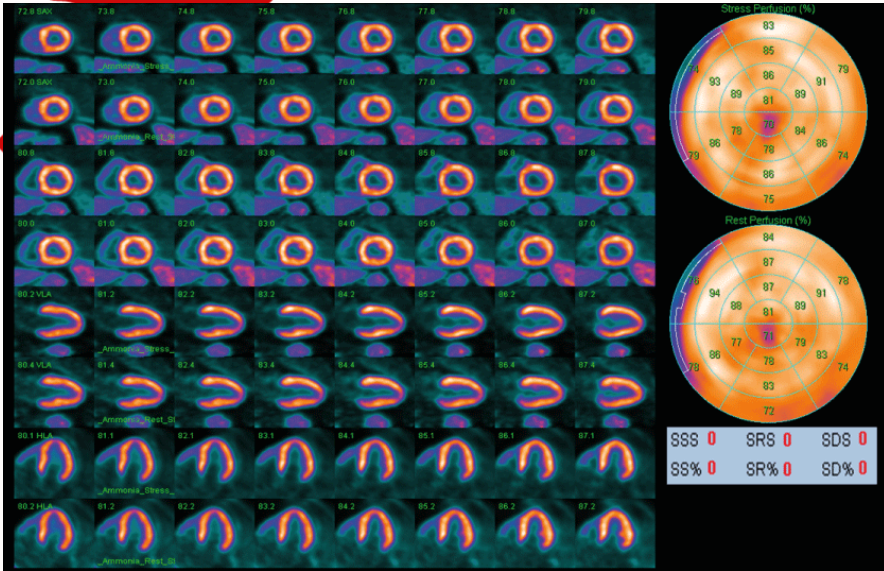


Apical short axis

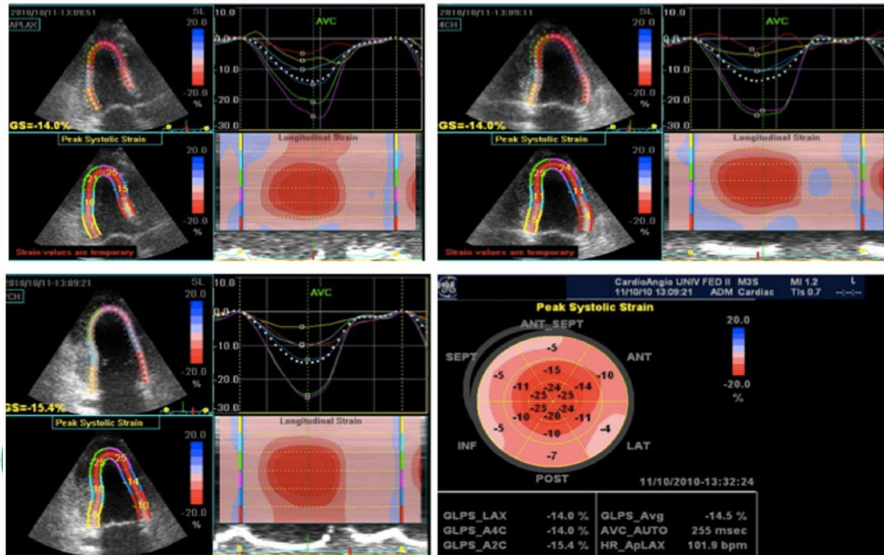


Vertical long axis

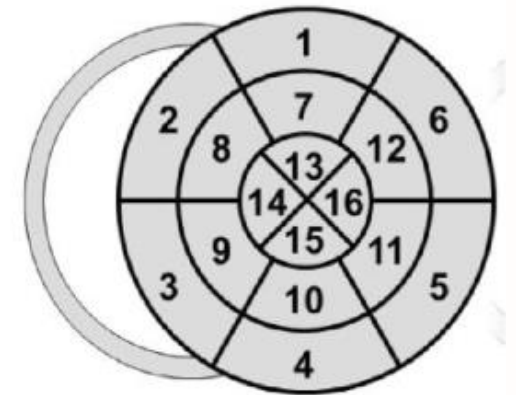
1. basal anterior	7. mid anterior	13. apical anterior
2. basal anteroseptal	8. mid anteroseptal	14. apical septal
3. basal inferoseptal	9. mid inferoseptal	15. apical inferior
4. basal inferior	10. mid inferior	16. apical lateral
5. basal inferolateral	11. mid inferolateral	17. apex
6. basal anterolateral	12. mid anterolateral	

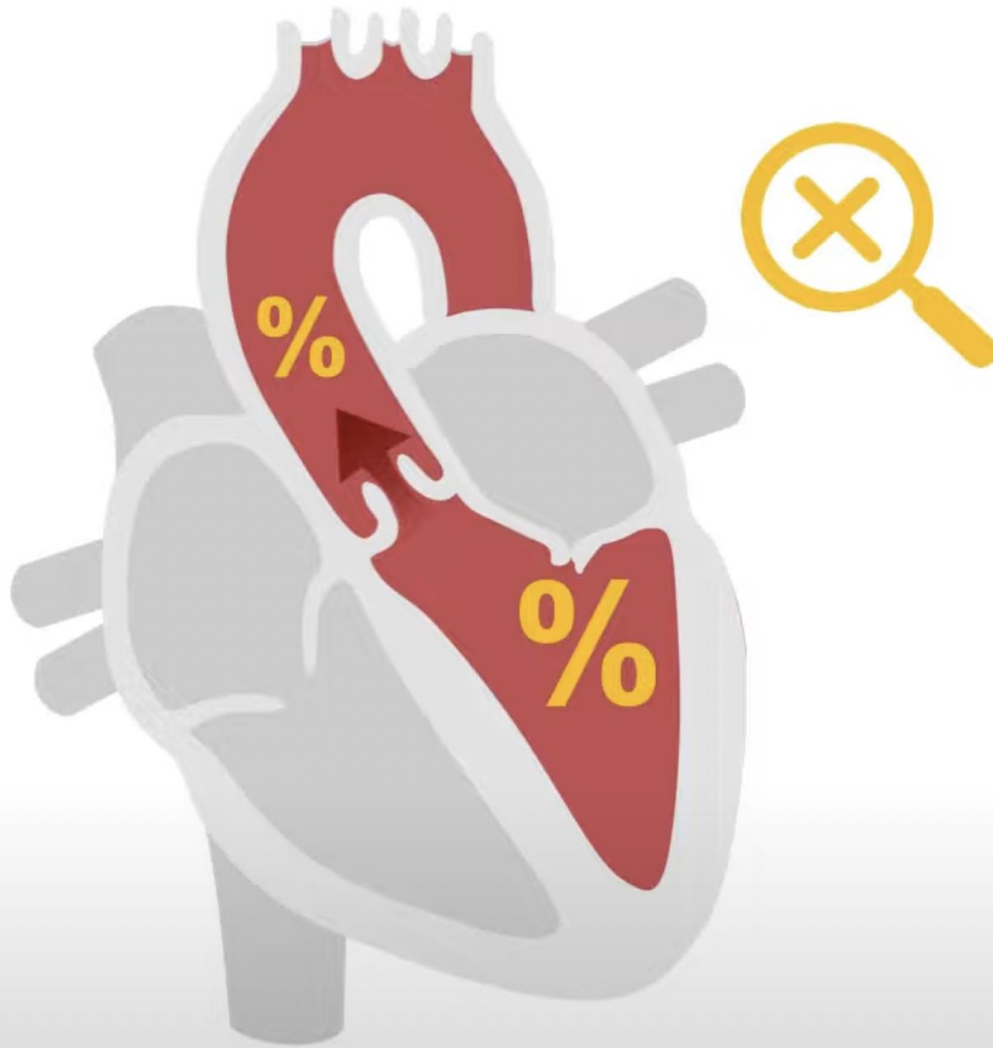


Scale: 0% 1-49% 50-79% 80-94% 95-100%

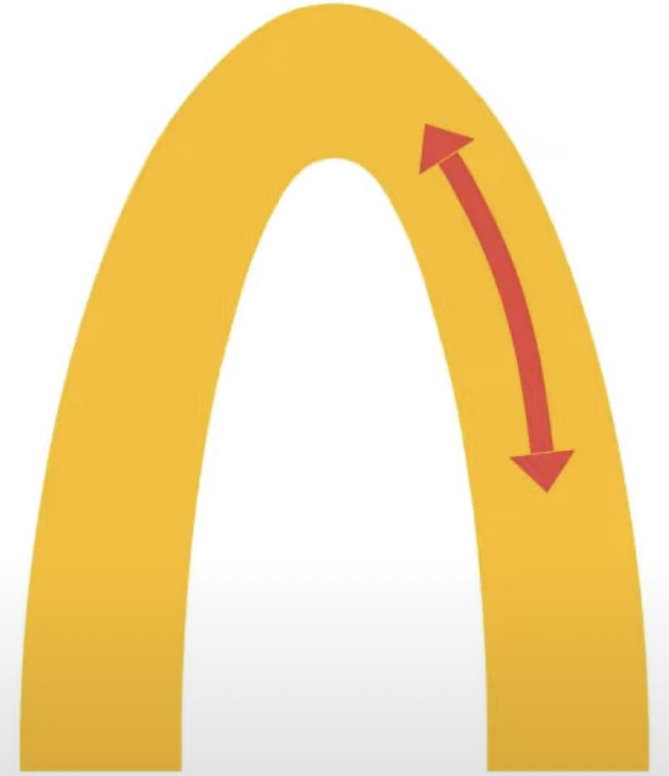


Wall motion	score index
Poor image	x
Normal	1
Hypokinesia	2
Akinesia	3
Dyskinesia	4

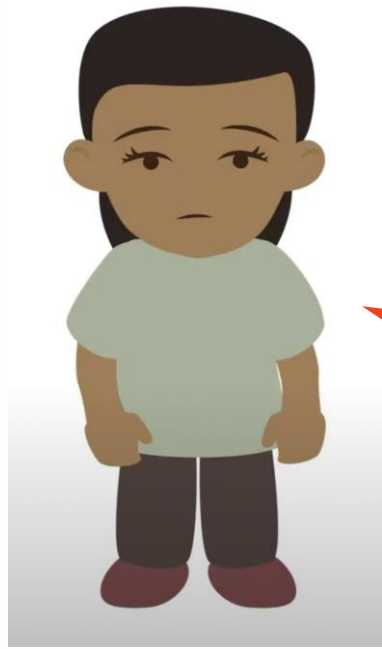




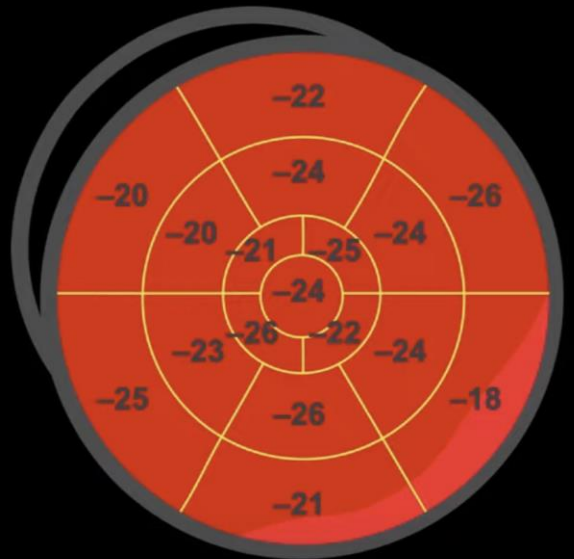
LVEF



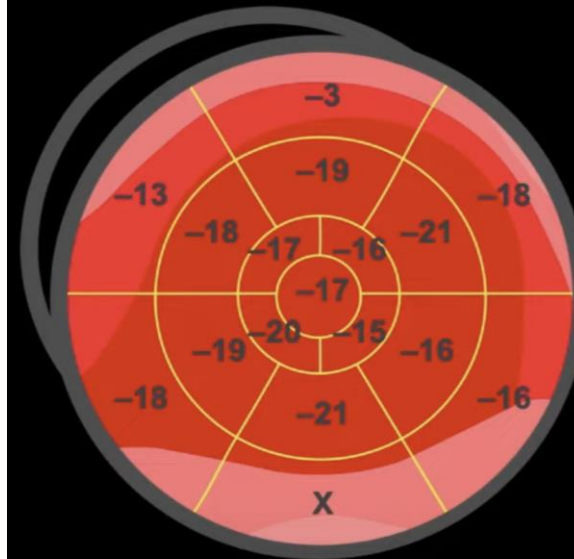
GLS



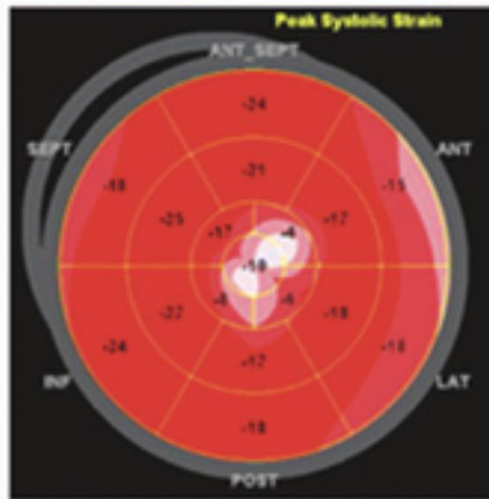
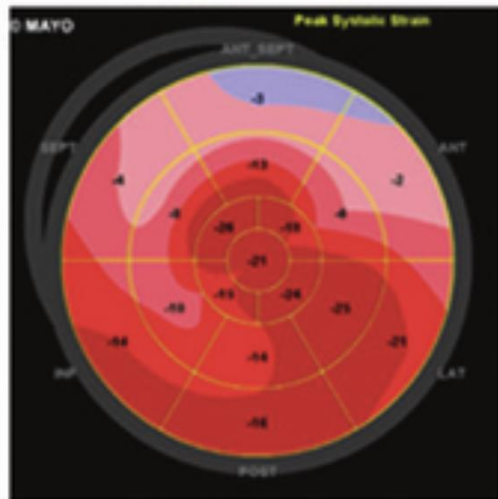
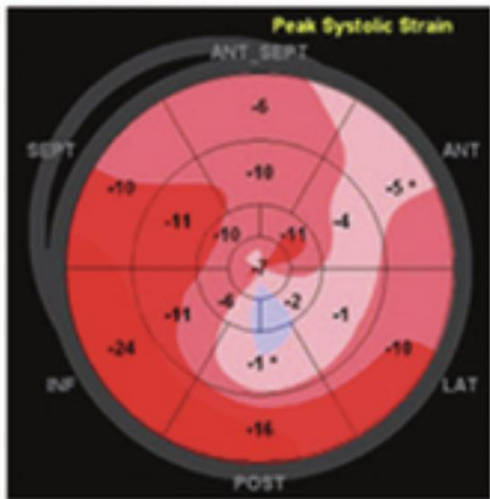
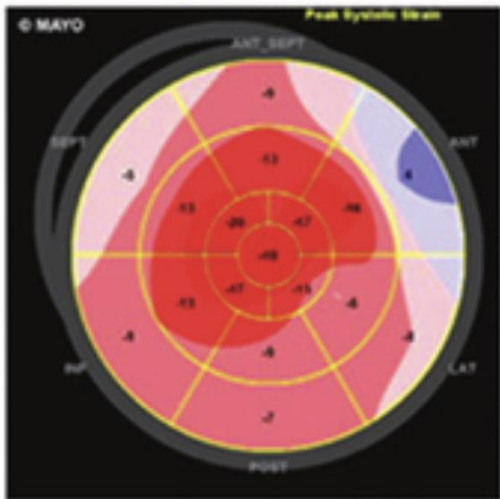
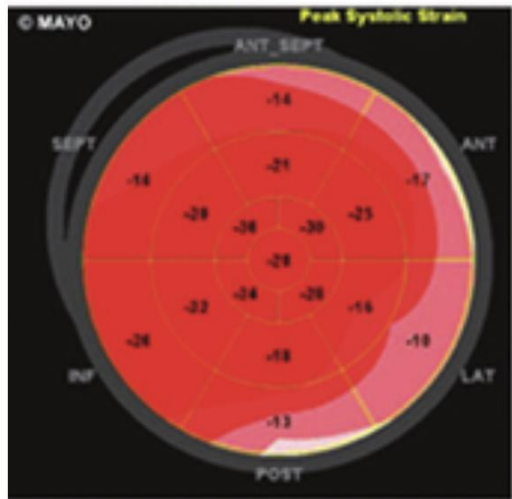
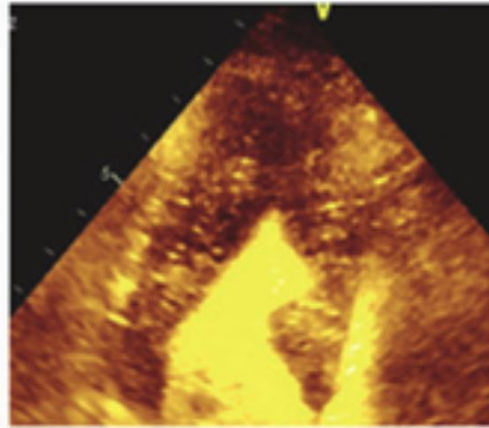
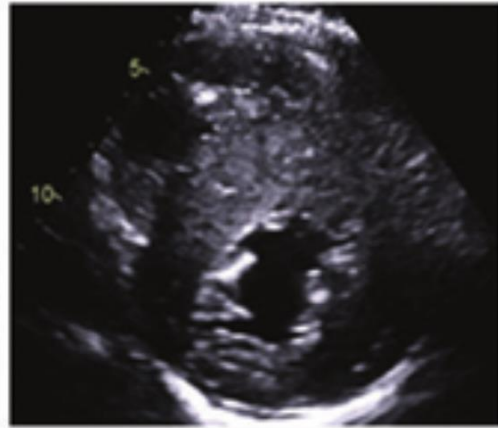
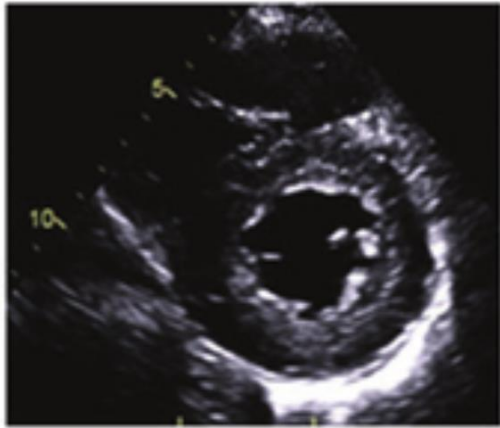
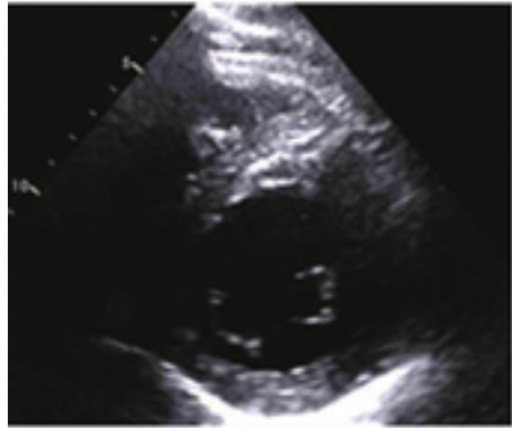
Baseline



Follow-up



$$\frac{\text{GLS } -22.1\% - \text{GLS } -16.4\%}{-22.1\%} = 25.8\%$$



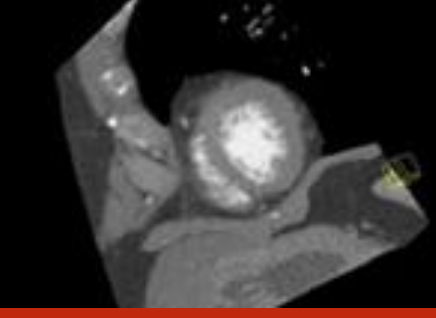
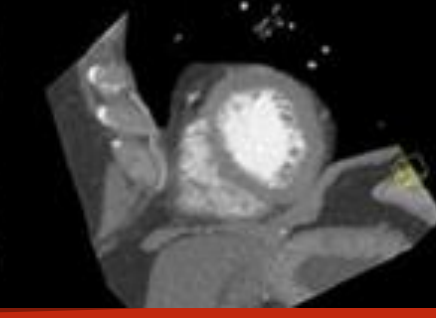
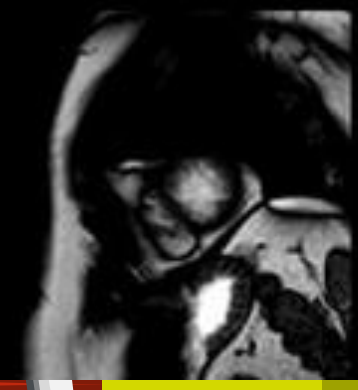
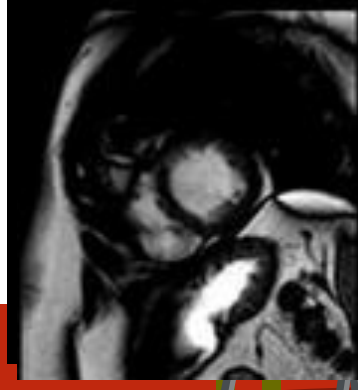
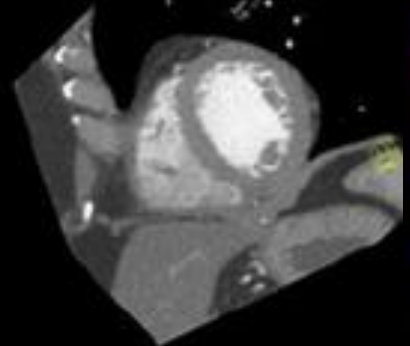
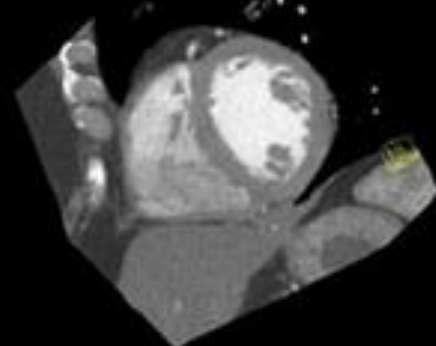
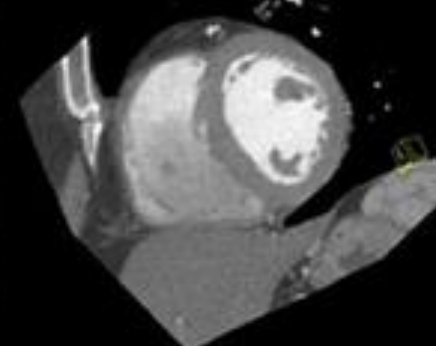
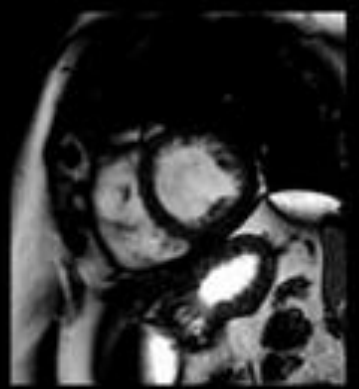
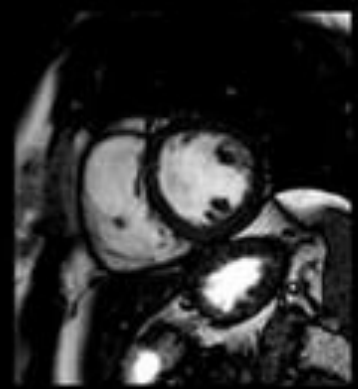
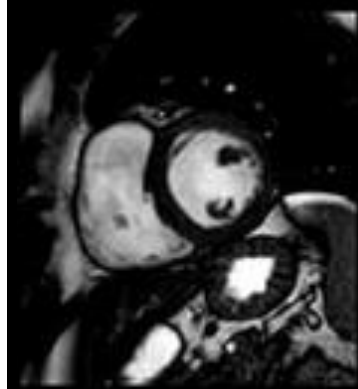
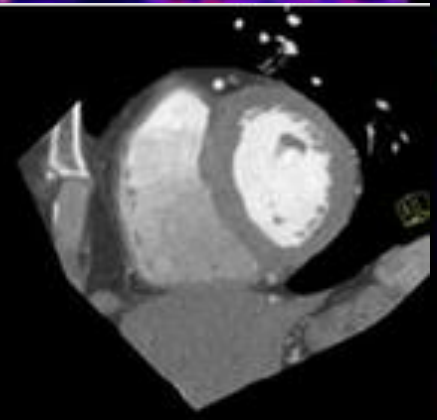
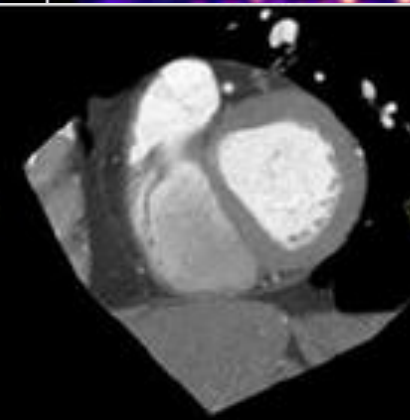
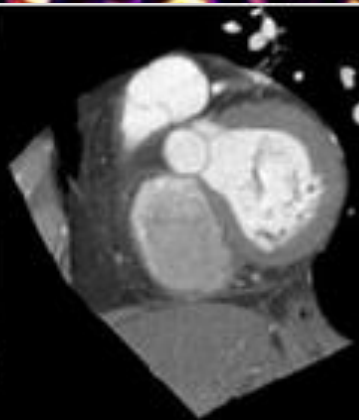
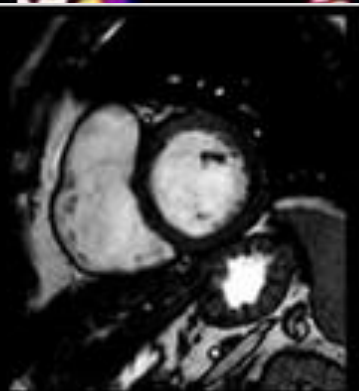
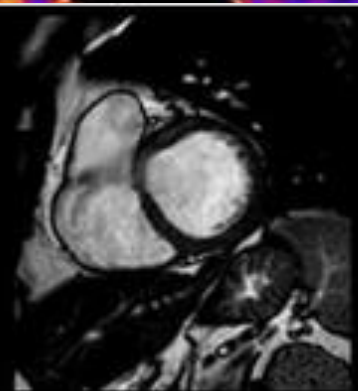
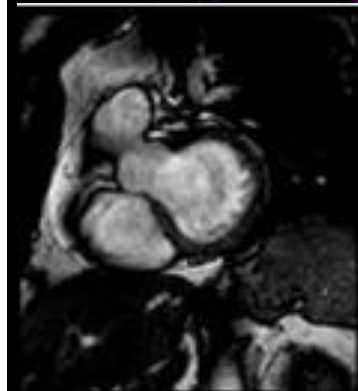
Hypertensive heart disease

Cardiac amyloidosis

Fabry disease

HCM (assymetric septal hypertrophy)

HCM (apical variant)



Spreekuur



De wachtzaal zit vol.

Ready?

Let's go!



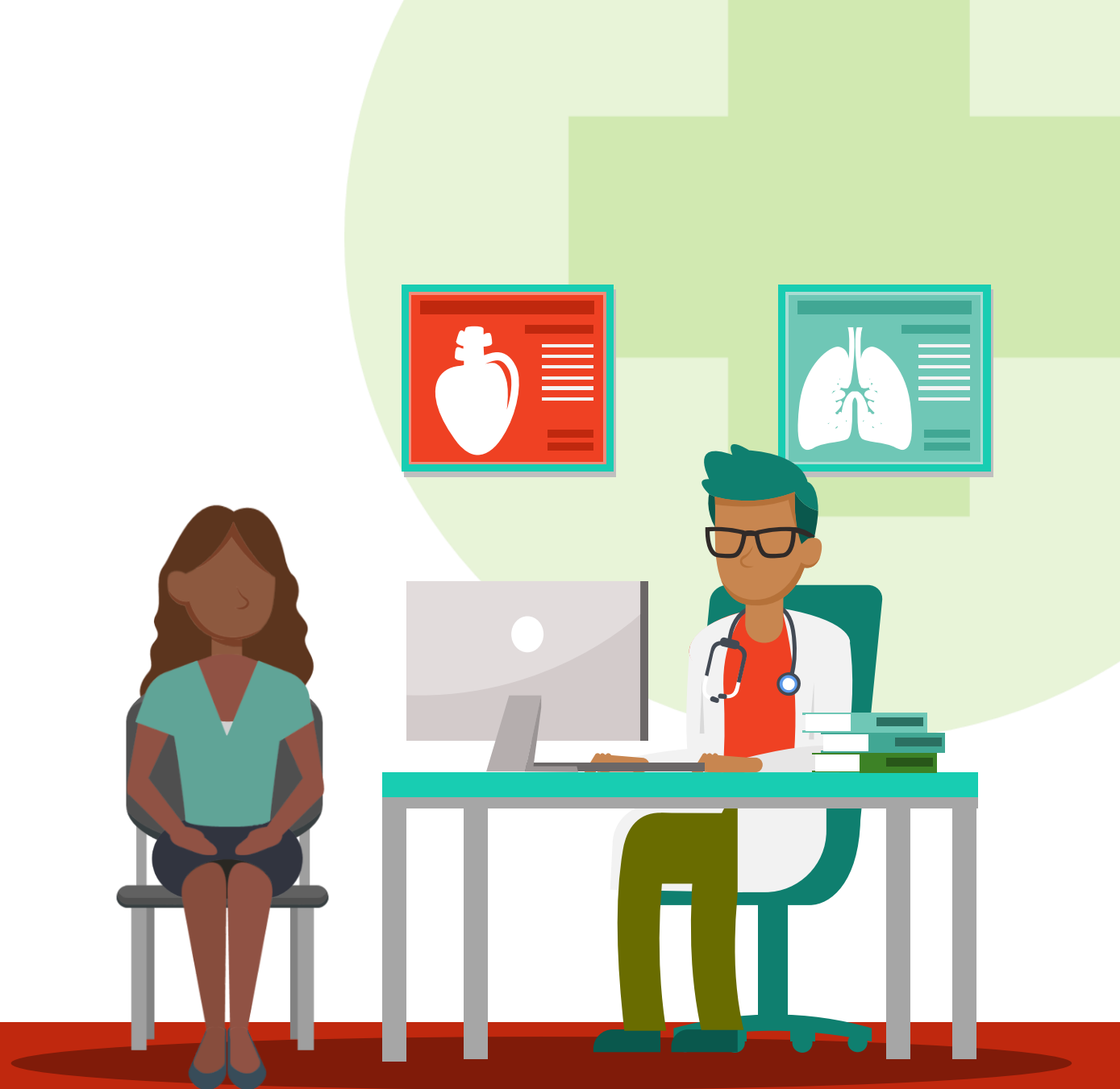
Elizabeth, 54jaar ♀



Hallo dokter,

Hallo Elizabeth, hoe gaat het?

Dankjewel dat je me naar het **ZAS** hartcentrum verwees. Ik werd er goed onthaald en voel me veel beter met de nieuwe medicatie. Maar ik begrijp niet goed wat ze gezien hebben op de echo terwijl ik aan het fietsen was.



Pulmonaaldrukken

Diastole dysfunctie

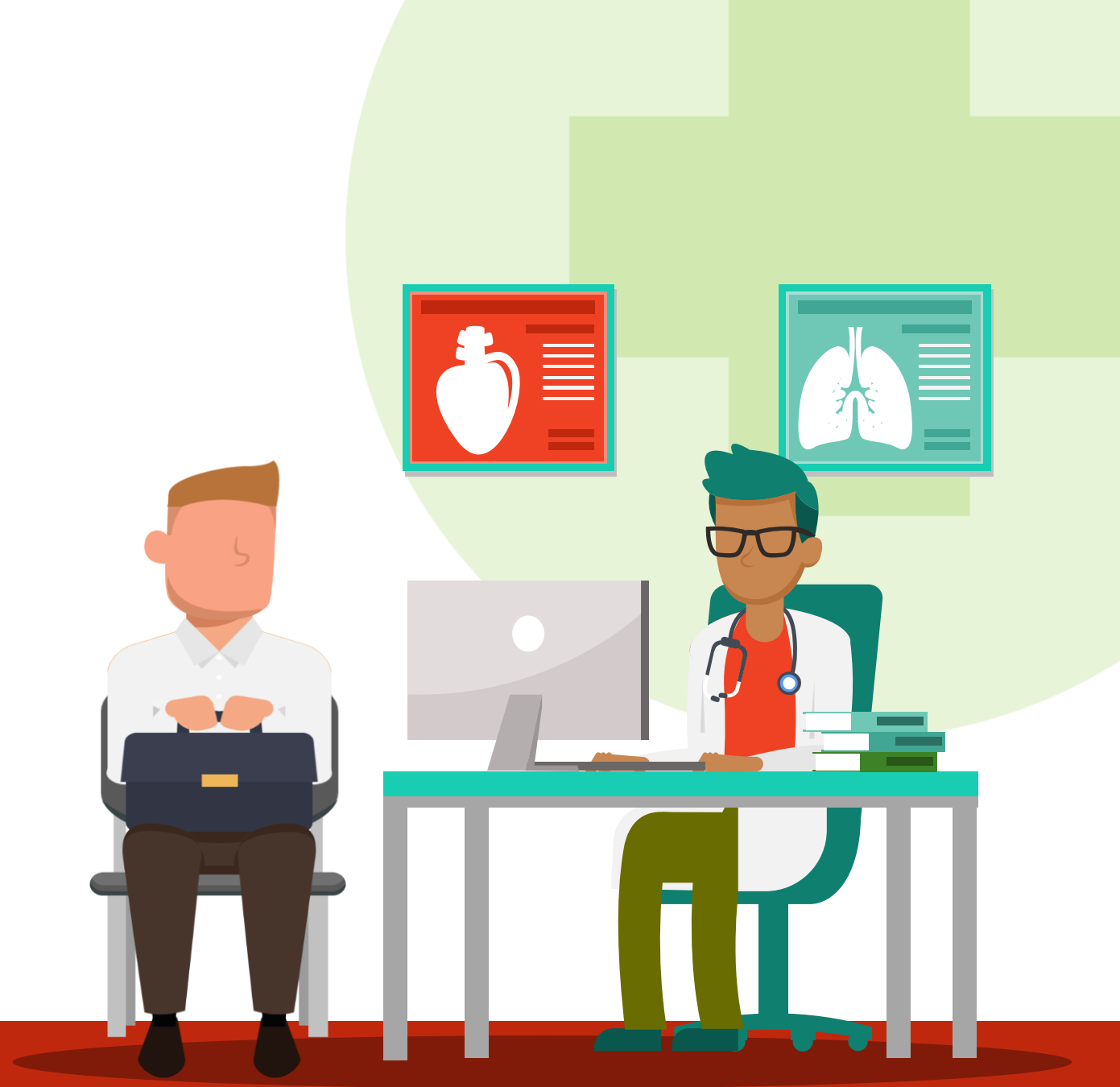
Ernst klepinsufficiëntie



Jonas, 48 jaar ♂



Dag dokter,
Goedemorgen Jonas. Ben je
intussen bij de cardioloog geweest?
Ja, dankjewel om te bellen voor de
urgente afspraak. In overleg met de
arts heb ik besloten een CT scan
te laten doen. Ik heb er nog wat
vragen over.

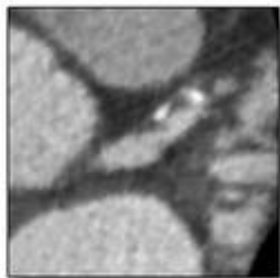


Non-Calcified
Plaque



A

Mixed Coronary
Plaque



D

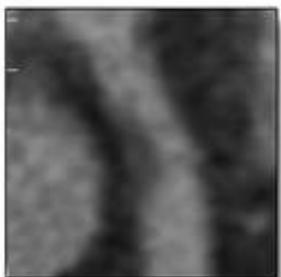
Calcified
Plaque



G

Axial View

Curved
Planar
Reformat

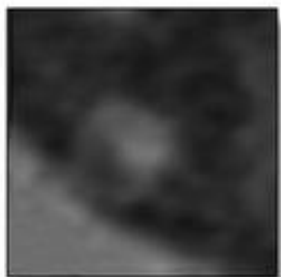


B

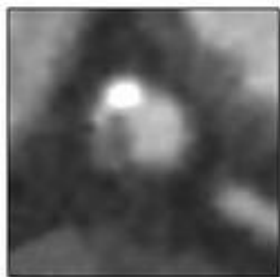


E

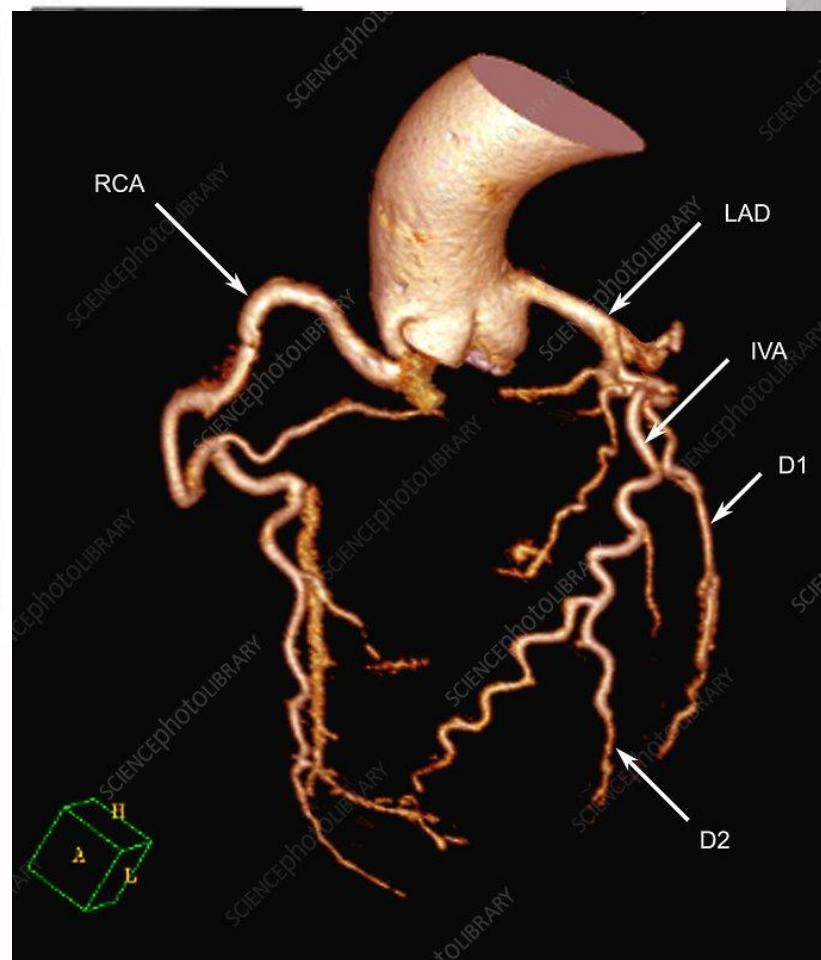
Cross
Section



C



F



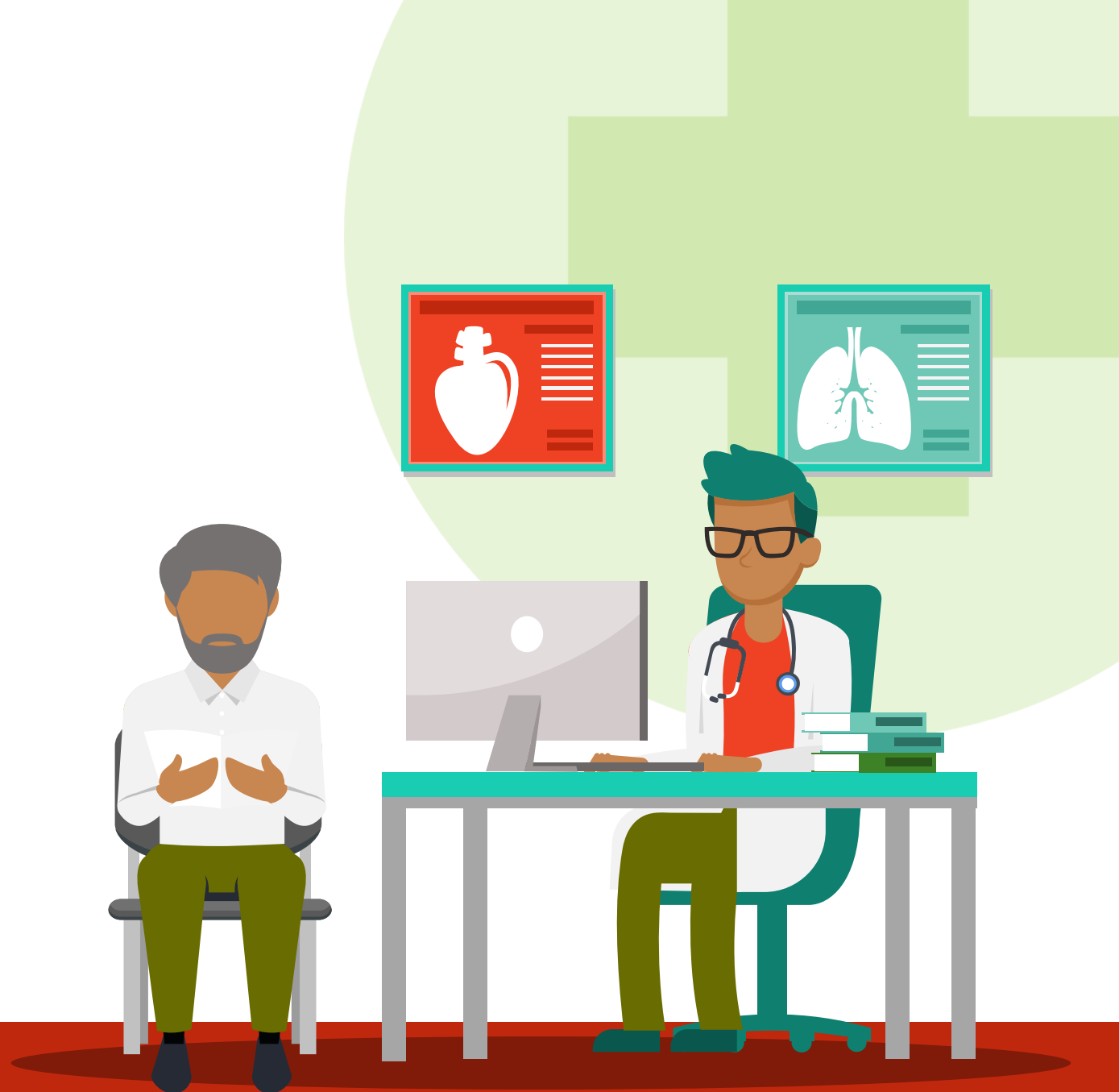
Chahid, 78 jaar ♂

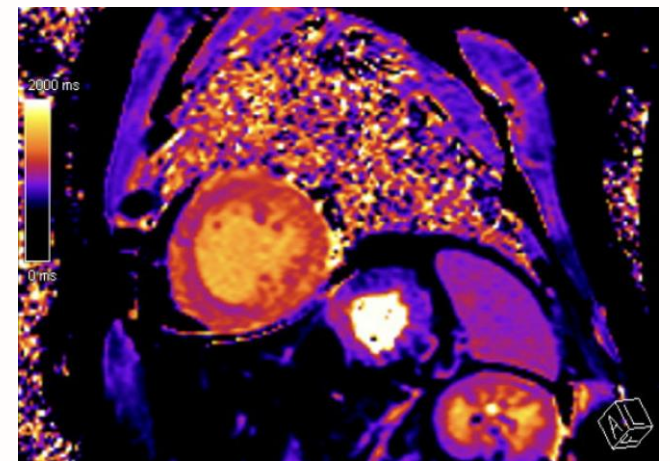
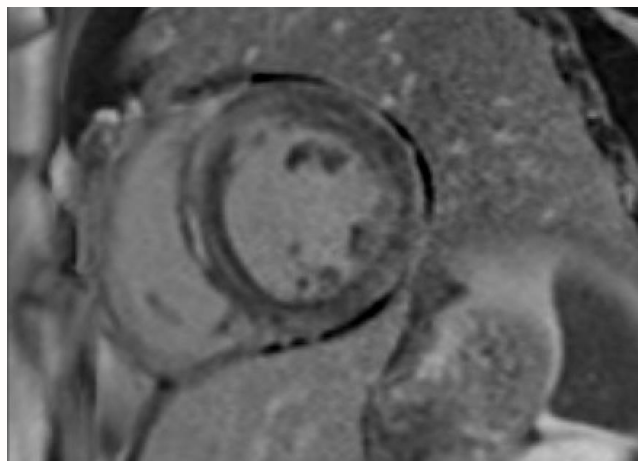


Goedemorgen dokter,

Hallo Chahid, hoe kan ik je helpen vandaag?

Ik heb mijn vragen op een briefje geschreven. De lieve cardioloog van het ZAS hartcentrum heeft de tijd genomen om alles uit te leggen maar ik wil graag zeker zijn dat ik alles begrepen heb.





Olesia, 42 jaar ♀



Hey dokter,

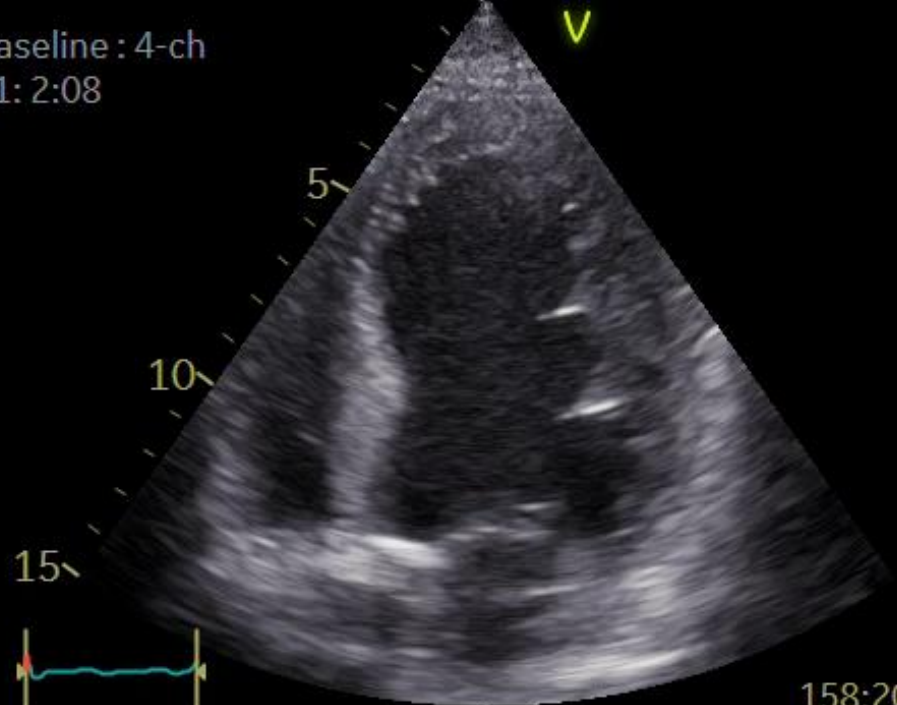
Hoi Olesia, wat brengt je naar de raadpleging vandaag?

De cardioloog stelt een stress echo voor omdat ik thoracale pijn heb. Is dat wel veilig?

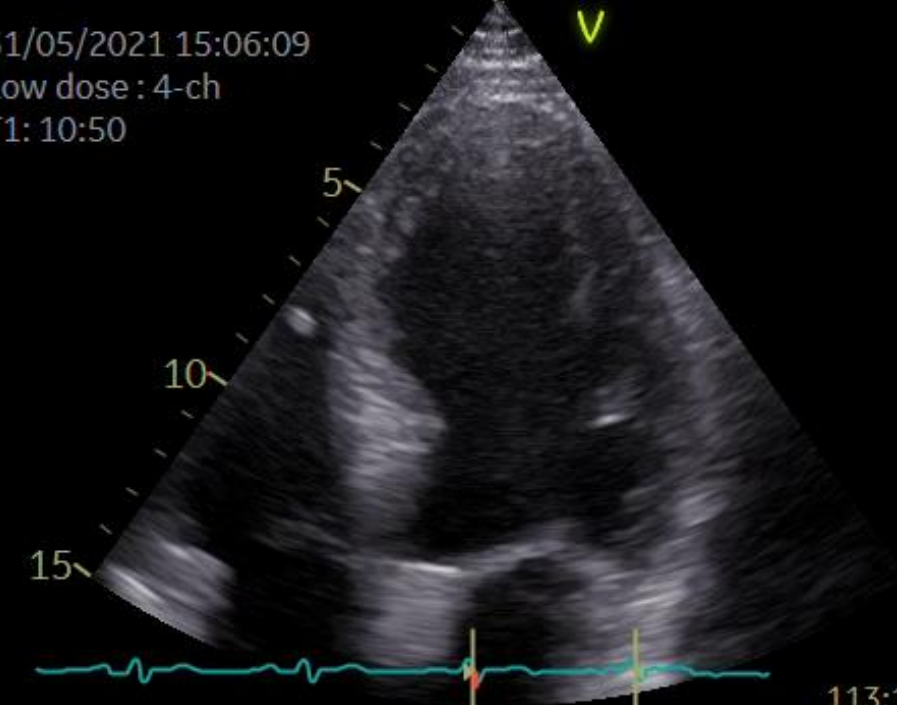
Absoluut, ik heb veel vertrouwen in de ZAS cardiologen. Voor jou, een diabetes patiënte met maar één been is dit een prima test.



Baseline : 4-ch
T1: 2:08



31/05/2021 15:06:09
Low dose : 4-ch
T1: 10:50



77
158:204HR

85
113:190 HR

31/05/2021 15:10:01
Peak dose : 4-ch
T1: 14:42



31/05/2021 15:11:48
Peak dose2 : 4-ch
T1: 16:30



120
1:30 HR

140
2:26 HR

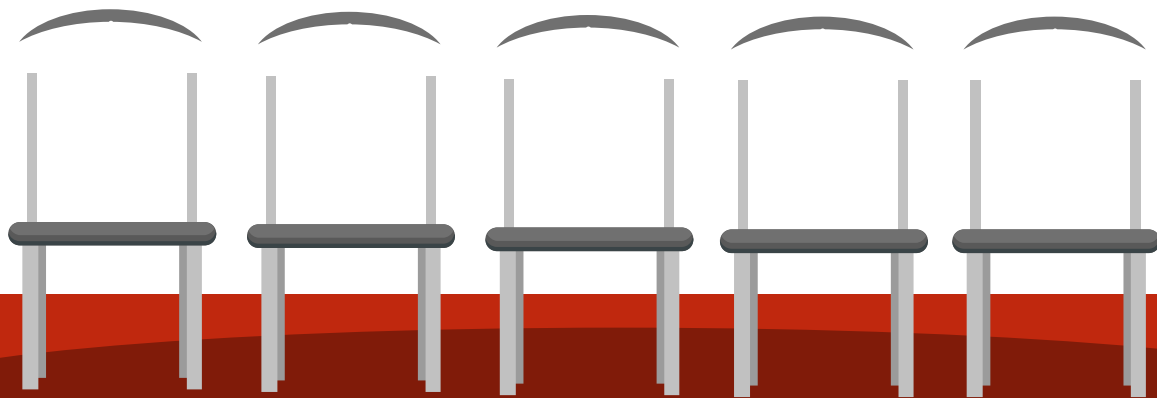


Wachtzaal



✚ Gelukt!

Goed gewerkt!



Take home



Bull's eye

Grafische 2D voorstelling van een 3D linkerventrikel



Global longitudinal strain

Vroege maat voor achteruitgang van linkerventrikel functie, voor symptomen of EF%.



MRI myomapping

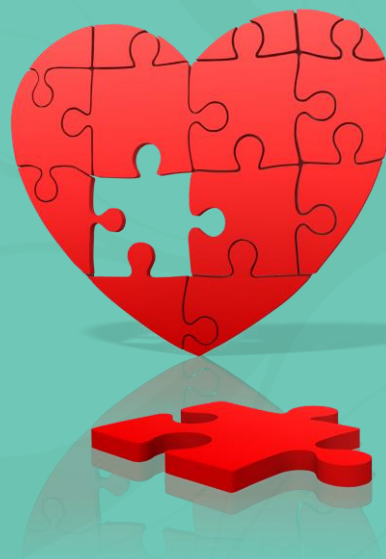
Enige niet invasieve weefselkarakterisatie.



Beeldvormingsvragen?

ann-sofie.vanstappen@zas.be

Danku!



ann-sofie.vanstappen@zas.be