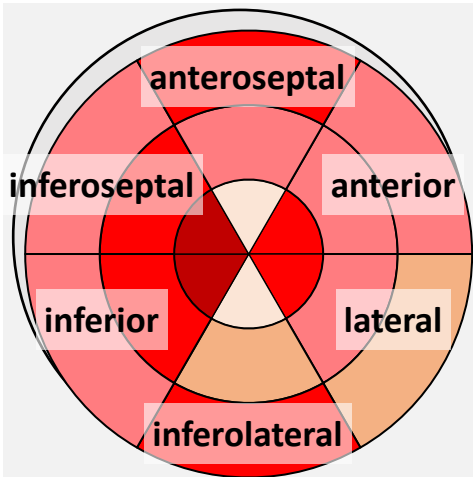




GLS

Basal $-13.8 \pm 3.0 \%$

Mid $-12.1 \pm 2.8 \%$

Apical $-14.1 \pm 8.5 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



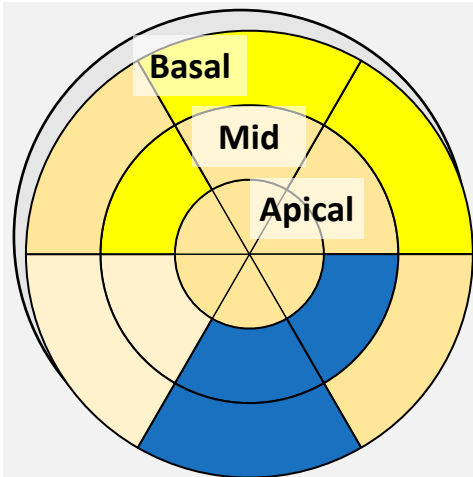
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-7.6 \pm 11.7 \%$

Mid $-4.2 \pm 9.5 \%$

Apical $-10.1 \pm 2.4 \%$



> 0 %



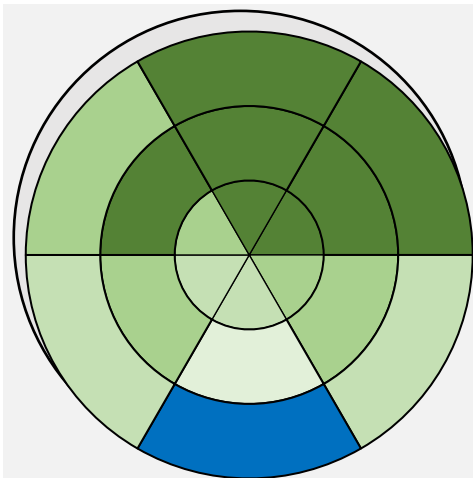
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-17.9 \pm 13.3 \%$

Mid $-23.7 \pm 10.7 \%$

Apical $-22.7 \pm 3.7 \%$



> 0 %



0 to -10.0 %



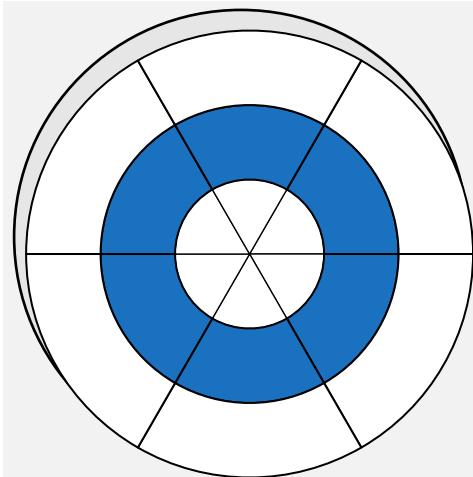
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $29.1 \pm 1.8 \%$

Mid $60.1 \pm 2.2 \%$

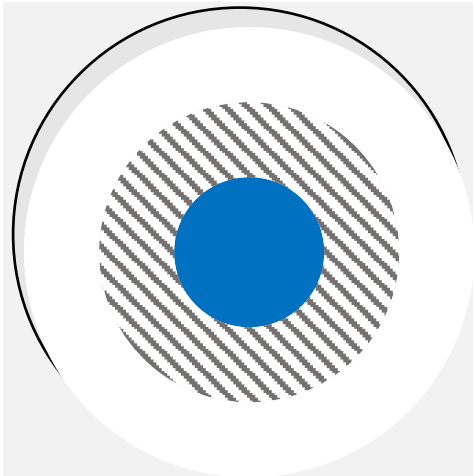
Apical $25.6 \pm 0.7 \%$



normal



pathological
> 44.2 %



Rotation

Basal $-8.4 \pm 2.1 \%$

Apical $2.6 \pm 0.8 \%$



normal



pathological
basal < -3.0 %
apical < 3.0 %



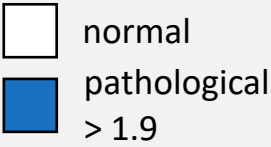
not used

T2STIR

Caudal 1.8

Mid 1.7

Apical 2.1

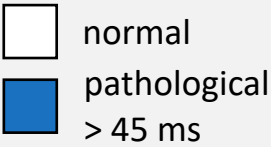


T2 Mapping

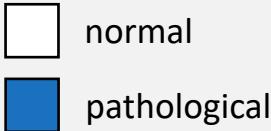
Basal 43.2 ± 6.5 ms

Mid 48.5 ± 9.7 ms

Apical 50.9 ± 11.0 ms



EGE

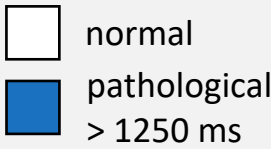


T1 Mapping

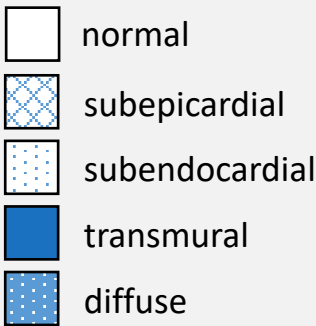
Basal 1282 ± 131 ms

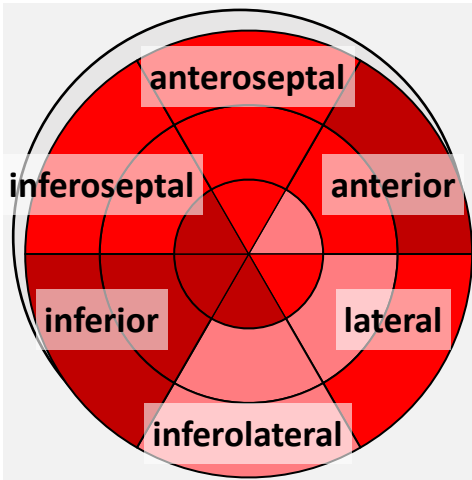
Mid 1230 ± 79 ms

Apical 1309 ± 119 ms



LGE



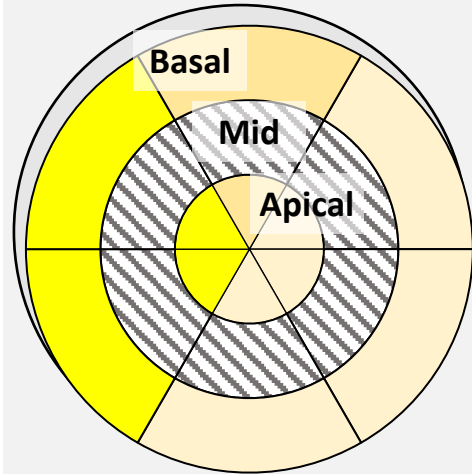
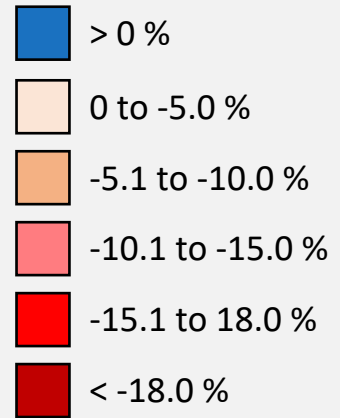


GLS

Basal $-17.4 \pm 4.5 \%$

Mid $-16.3 \pm 2.7 \%$

Apical $-17.8 \pm 3.3 \%$

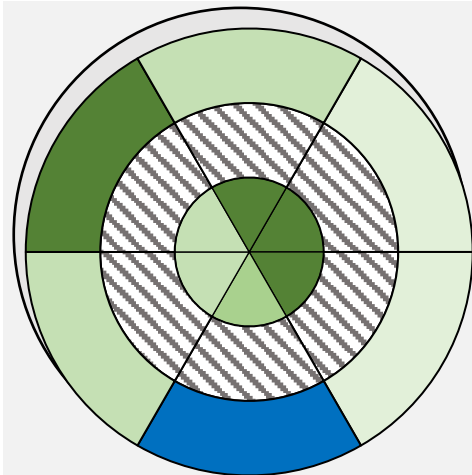
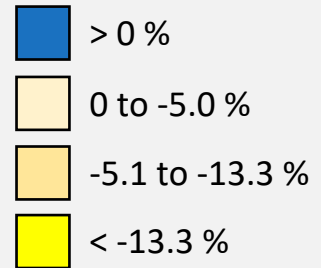


CS Epicard

Basal $-4.4 \pm 16 \%$

Mid not used

Apical $-7.8 \pm 6.8 \%$

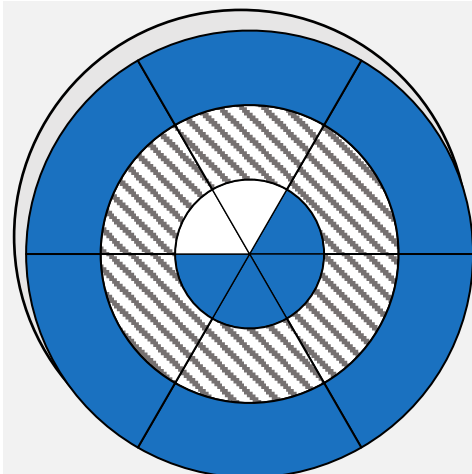
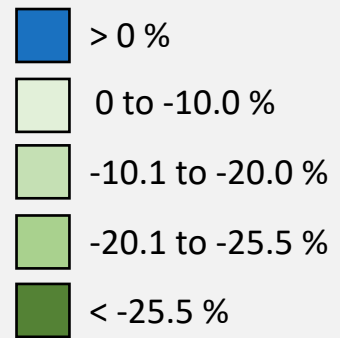


CS Endocard

Basal $-10.9 \pm 20.1 \%$

Mid not used

Apical $-26.1 \pm 10.7 \%$

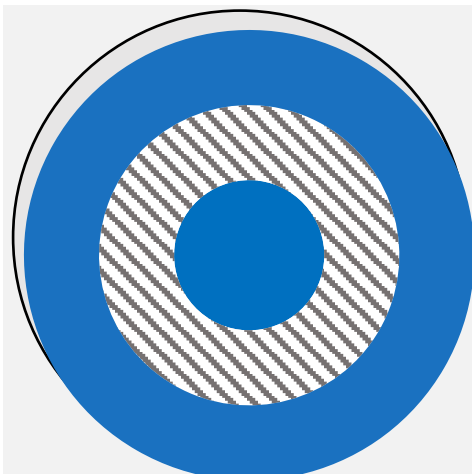
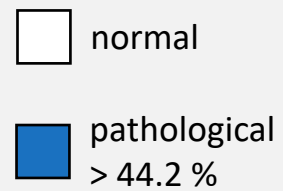


Radial

Basal $25.1 \pm 9.5 \%$

Mid not used

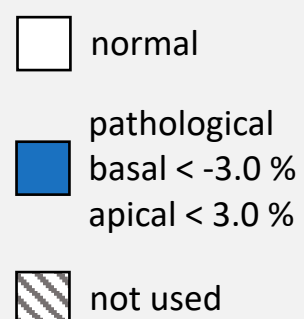
Apical $41.5 \pm 4.8 \%$



Rotation

Basal $25.1 \pm 9.6 \%$

Apical $2.3 \pm 4.2 \%$



T2STIR

Caudal 2.9

Mid 2.6

Apical 3

- normal
- pathological > 1.9

T2 Mapping

Basal 48.9 ± 8.6 ms

Mid 45.6 ± 7 ms

Apical 49.4 ± 6.5 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological
- not used

T1 Mapping

Basal 1313 ± 70 ms

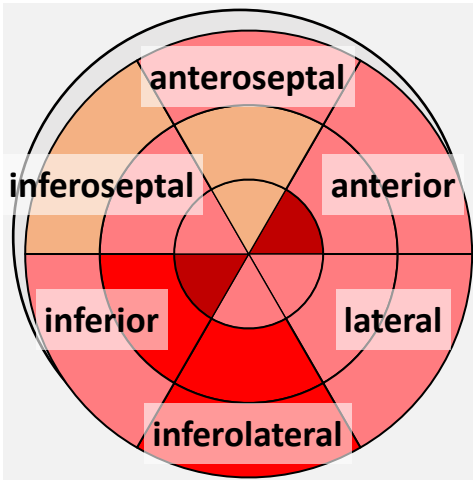
Mid 1307 ± 56 ms

Apical 1314 ± 64 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

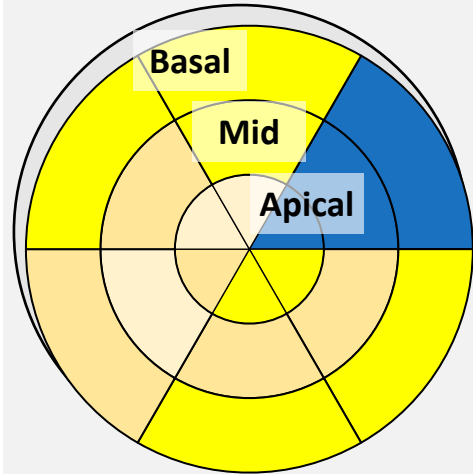
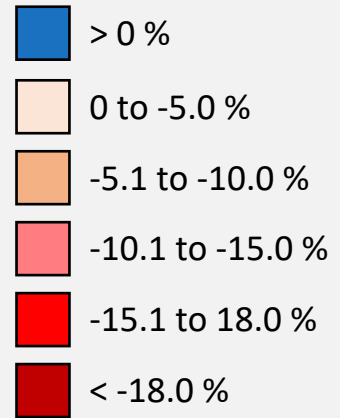


GLS

Basal $-12.76 \pm 2.6 \%$

Mid $-13.17 \pm 3.6 \%$

Apical $-16.08 \pm 5.5 \%$

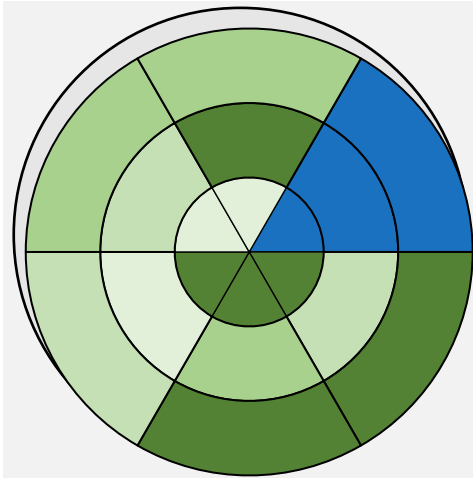
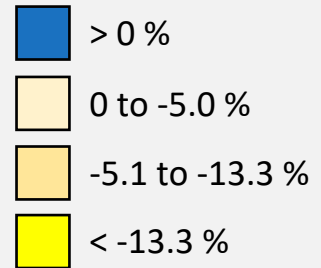


CS Epicard

Basal $-11.49 \pm 9.6 \%$

Mid $-4 \pm 12.9 \%$

Apical $-5.99 \pm 17.5 \%$

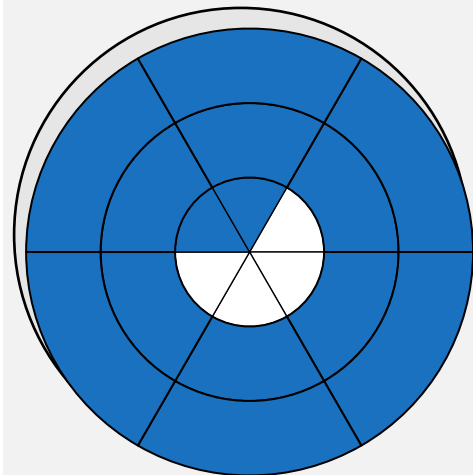
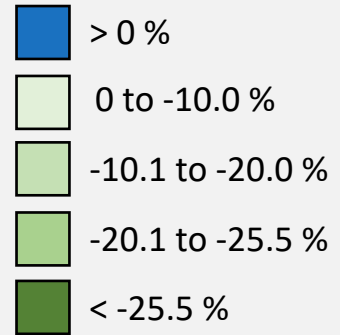


CS Endocard

Basal $-19.5 \pm 11.6 \%$

Mid $-9.76 \pm 16.7 \%$

Apical $-19 \pm 20.6 \%$

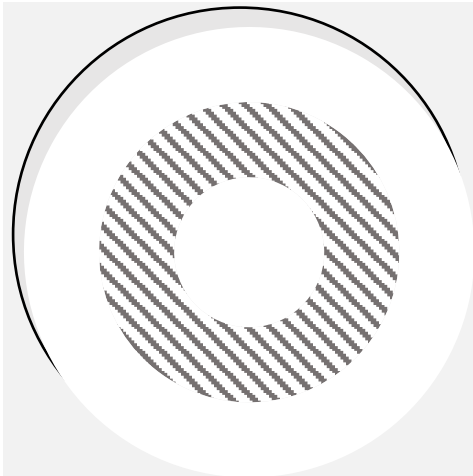
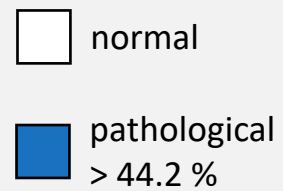


Radial

Basal $31.76 \pm 3.9 \%$

Mid $22.9 \pm 2.9 \%$

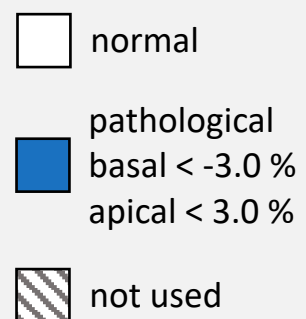
Apical $44.17 \pm 20.4 \%$



Rotation

Basal $-4 \pm 2 \%$

Apical $8.58 \pm 4.8 \%$



T2STIR

Caudal 3.6

Mid 3.65

Apical 3.91

- normal
- pathological > 1.9

T2 Mapping

Basal 59 ± 10.2 ms

Mid 56.8 ± 7.3 ms

Apical 50.5 ± 9.1 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1353 ± 70 ms

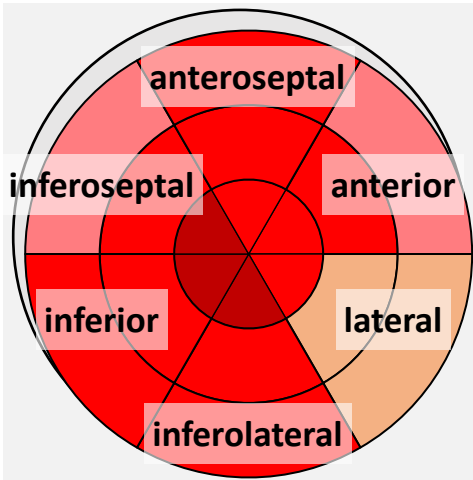
Mid 1461 ± 81 ms

Apical 1458 ± 111 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

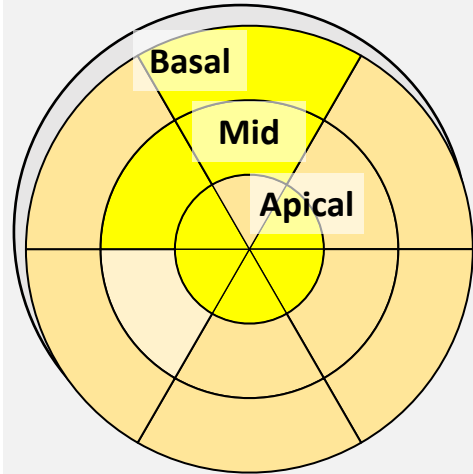
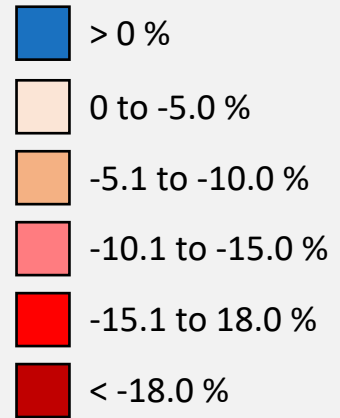


GLS

Basal $-13.4 \pm 3.4 \%$

Mid $-15.4 \pm 3.2 \%$

Apical $-18.1 \pm 1.1 \%$

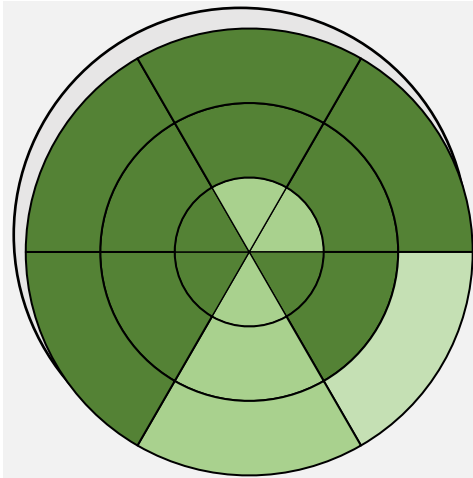
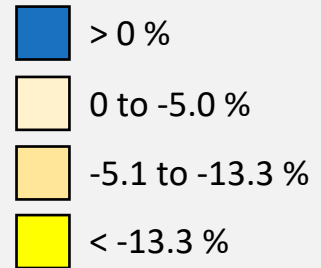


CS Epicard

Basal $-11.7 \pm 5.8 \%$

Mid $-9.96 \pm 5.4 \%$

Apical $-15.56 \pm 2.8 \%$

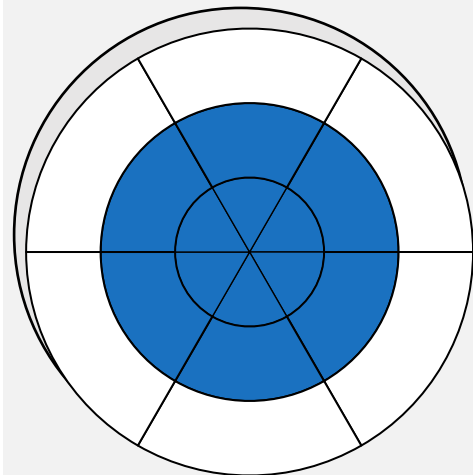
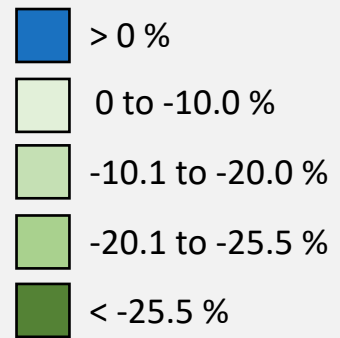


CS Endocard

Basal $-27.67 \pm 6.2 \%$

Mid $-31.13 \pm 5.2 \%$

Apical $-26.98 \pm 3.5 \%$

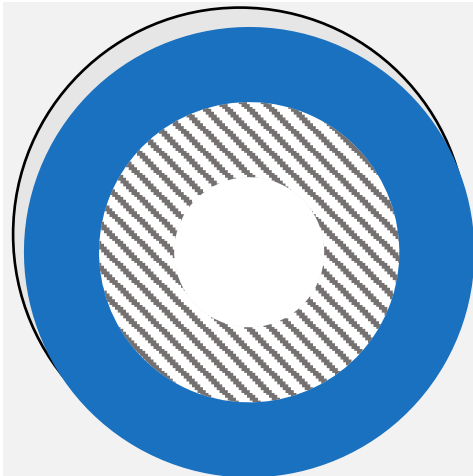
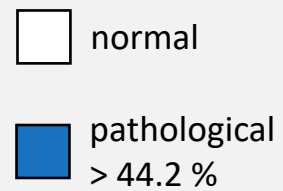


Radial

Basal $57.63 \pm 5.8 \%$

Mid $32.48 \pm 4.1 \%$

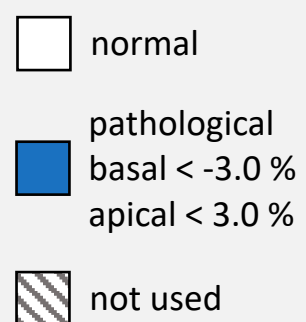
Apical $32.44 \pm 1.6 \%$



Rotation

Basal $-2.0 \pm 2.5 \%$

Apical $6.53 \pm 0.8 \%$



T2STIR

Caudal 2.25

Mid 1.45

Apical 2.9

- normal
- pathological > 1.9

T2 Mapping

Basal 44.7 ± 6.5 ms

Mid 45.2 ± 5.5 ms

Apical 45.1 ± 4.3 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1229 ± 47 ms

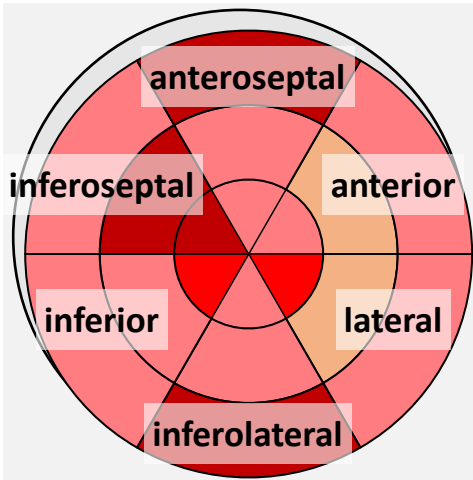
Mid 1236 ± 50 ms

Apical 1249 ± 38 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

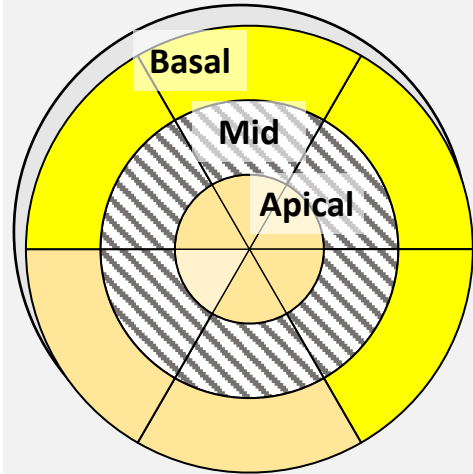
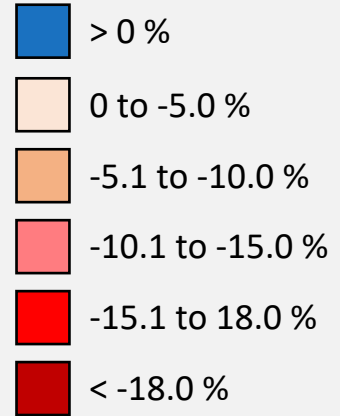


GLS

Basal $-14.2 \pm 1.8 \%$

Mid $-13.0 \pm 4.3 \%$

Apical $-15.7 \pm 5.0 \%$

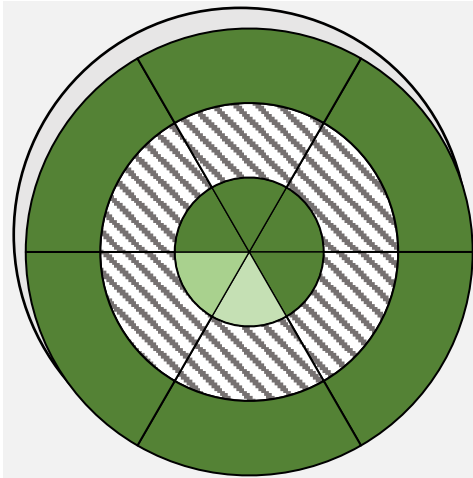
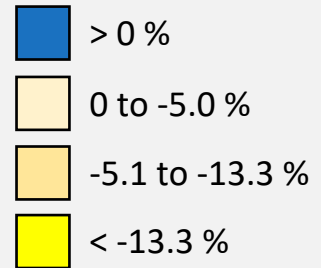


CS Epicard

Basal $-14.9 \pm 4.9 \%$

Mid not used

Apical $-5.9 \pm 1.7 \%$

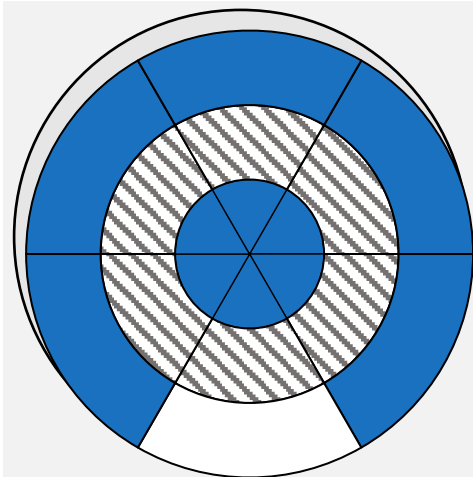
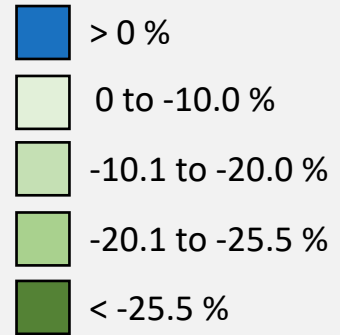


CS Endocard

Basal $-27.8 \pm 6.2 \%$

Mid not used

Apical $-28.0 \pm 3.0 \%$

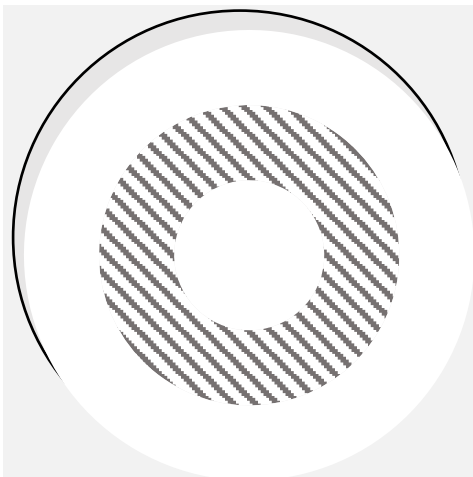
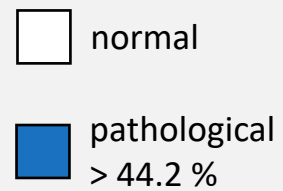


Radial

Basal $40.5 \pm 4.7 \%$

Mid not used

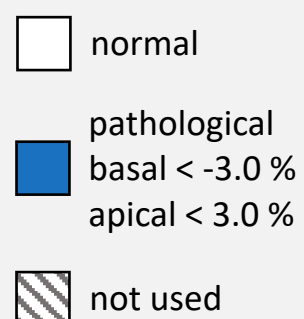
Apical $17.9 \pm 1.9 \%$



Rotation

Basal $-6.6 \pm 3.9 \%$

Apical $3.0 \pm 0.4 \%$



T2STIR

Caudal 2.8

Mid 2.4

Apical 2.35

- normal
- pathological > 1.9

T2 Mapping

Basal 47.2 ± 5.1 ms

Mid 47.5 ± 5.9 ms

Apical 53.5 ± 5.3 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1356 ± 183 ms

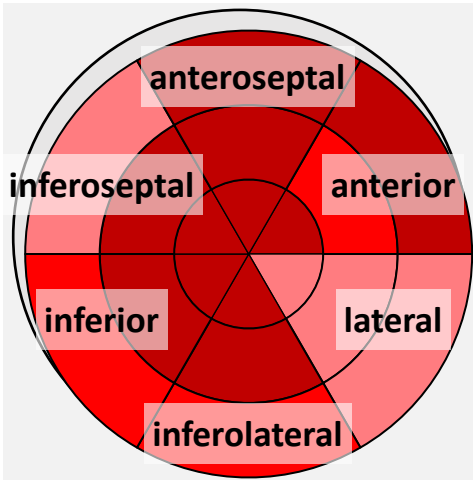
Mid 1328 ± 73 ms

Apical 1349 ± 85 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

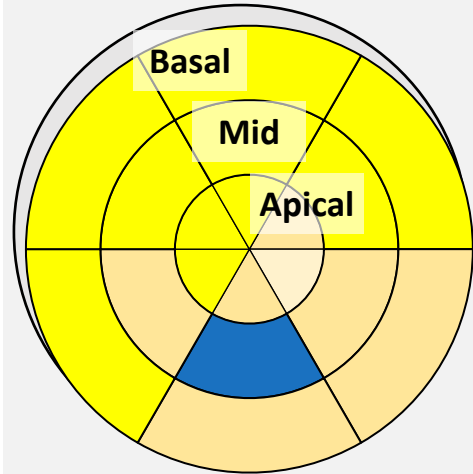
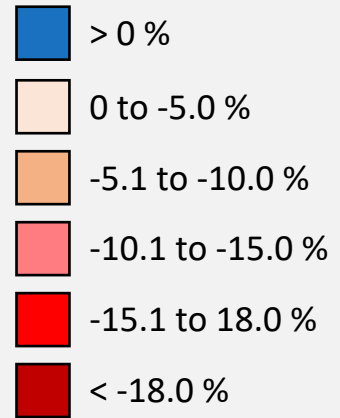


GLS

Basal $-16.66 \pm 2.6 \%$

Mid $-18.83 \pm 3.4 \%$

Apical $-22.63 \pm 6.1 \%$

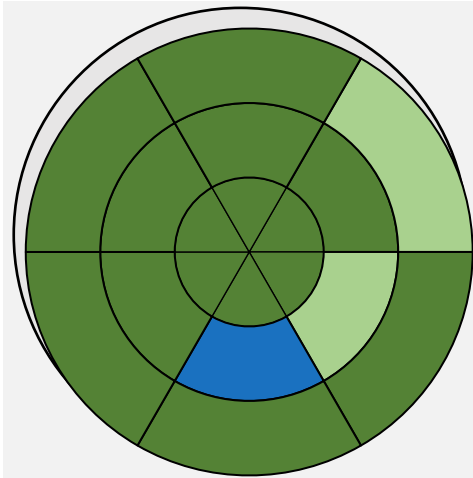
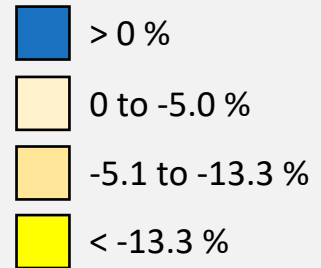


CS Epicard

Basal $-16.78 \pm 9.3 \%$

Mid $-10.21 \pm 24.2 \%$

Apical $-14.28 \pm 8.5 \%$

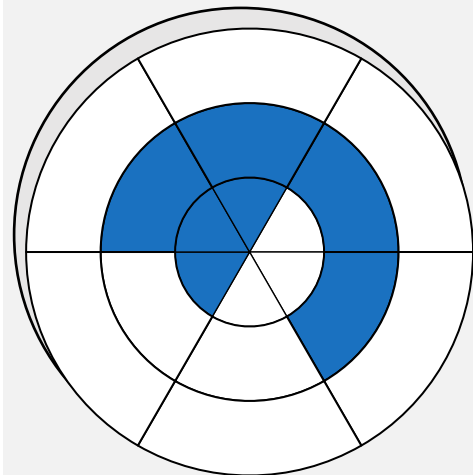
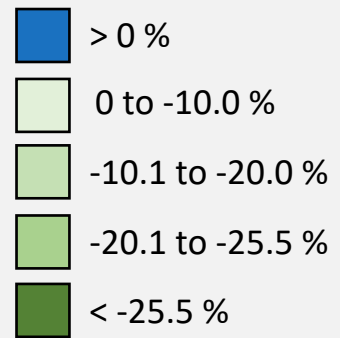


CS Endocard

Basal $-34.43 \pm 9.2 \%$

Mid $-22.8 \pm 35.1 \%$

Apical $-39.5 \pm 5.3 \%$

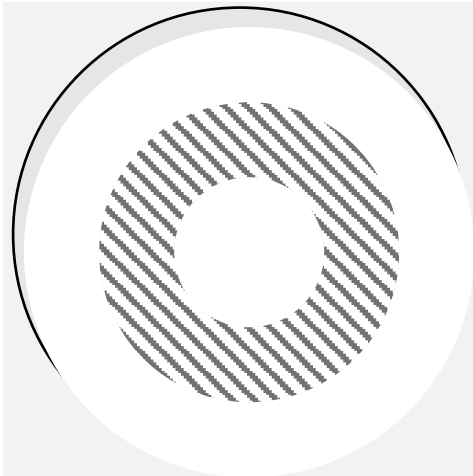
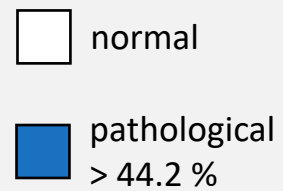


Radial

Basal $46.42 \pm 1.5 \%$

Mid $42.81 \pm 10.2 \%$

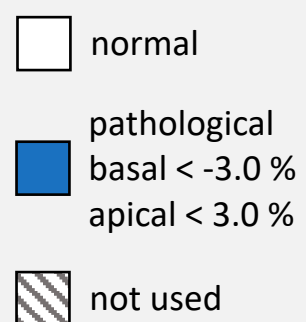
Apical $49.64 \pm 22 \%$



Rotation

Basal $-7.56 \pm 4.1 \%$

Apical $5.14 \pm 3.2 \%$



T2STIR

Caudal 1.68

Mid 2.24

Apical 2.27

- normal
- pathological > 1.9

T2 Mapping

Basal 49.0 ± 13.0 ms

Mid 43.6 ± 6.1 ms

Apical 43.7 ± 4.4 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological
- not used

T1 Mapping

Basal 1248 ± 63.5 ms

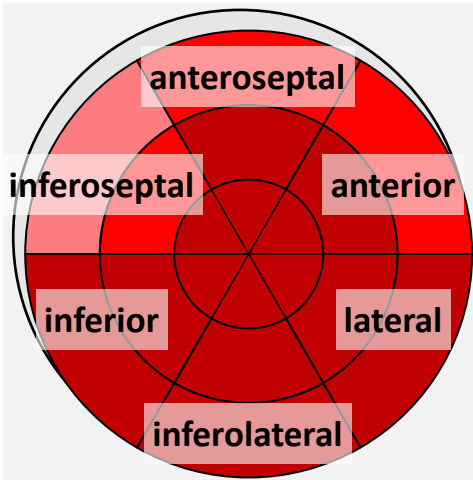
Mid 1223 ± 77 ms

Apical 1279 ± 72 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse



GLS

Basal $-19.26 \pm 3.6 \%$

Mid $-21.95 \pm 3.0 \%$

Apical $-27.62 \pm 5.1 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



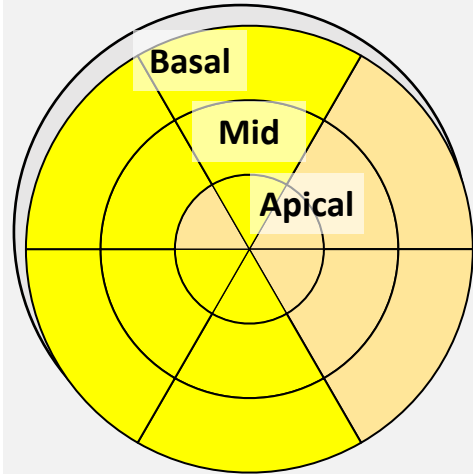
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-13.89 \pm 10.5 \%$

Mid $-16.47 \pm 7.5 \%$

Apical $-13.75 \pm 5.8 \%$



> 0 %



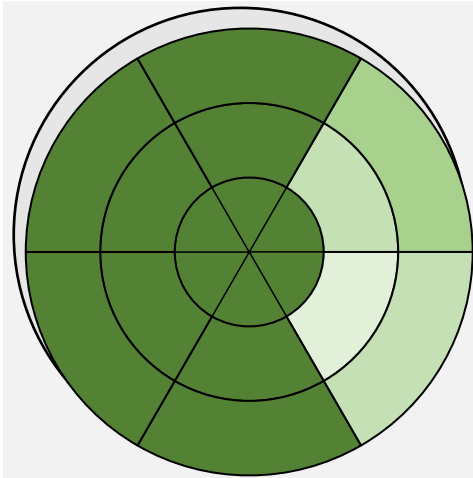
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-33.22 \pm 10.5 \%$

Mid $-29.0 \pm 13.2 \%$

Apical $-37.82 \pm 7.7 \%$



> 0 %



0 to -10.0 %



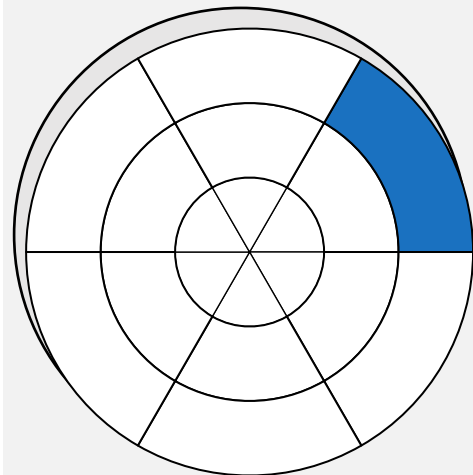
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $44.83 \pm 2.0 \%$

Mid $63.1 \pm 2.2 \%$

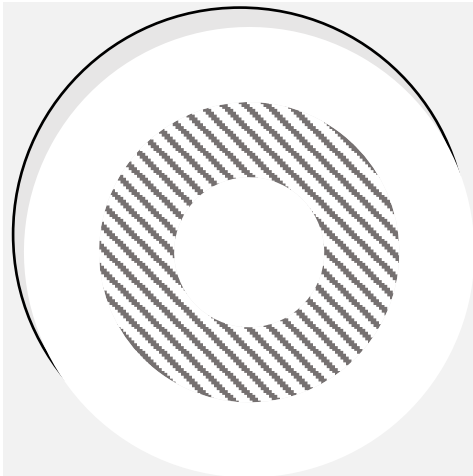
Apical $49.04 \pm 1.6 \%$



normal



pathological
> 44.2 %



Rotation

Basal $-6.47 \pm 3.6 \%$

Apical $12.97 \pm 1.3 \%$



normal



pathological
basal < -3.0 %
apical < 3.0 %



not used

T2STIR

Caudal 3.0

Mid 3.69

Apical 3.7



normal



pathological
> 1.9

T2 Mapping

Basal not used

Mid not used

Apical not used



normal



pathological
> 45 ms

EGE



normal



pathological

T1 Mapping

Basal 1356 ± 72 ms

Mid 1353 ± 75 ms

Apical 1374 ± 63.8 ms



normal



pathological
> 1250 ms

LGE



normal



subepicardial



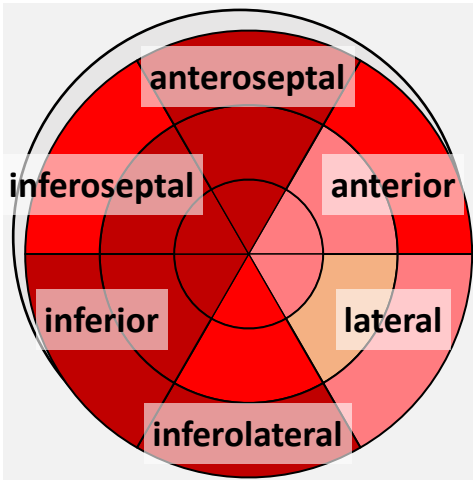
subendocardial



transmural



diffuse



GLS

Basal $-17.3 \pm 2.1 \%$

Mid $-16.2 \pm 5.7 \%$

Apical $-17.1 \pm 6.3 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



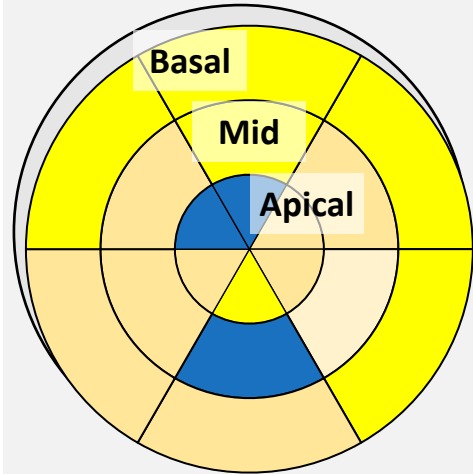
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-17.0 \pm 6.5 \%$

Mid $-7.8 \pm 6.0 \%$

Apical $-5.5 \pm 9.6 \%$



> 0 %



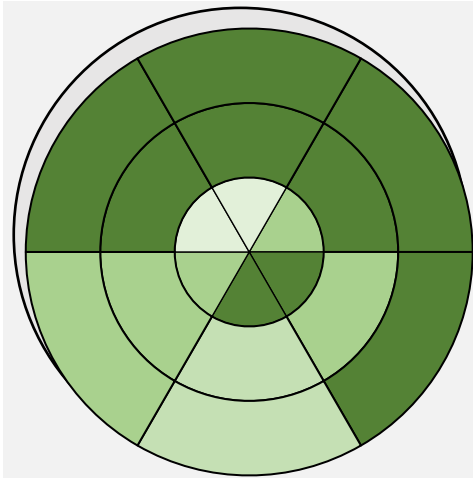
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-25.8 \pm 5.4 \%$

Mid $-26.6 \pm 6.8 \%$

Apical $-17.6 \pm 12.6 \%$



> 0 %



0 to -10.0 %



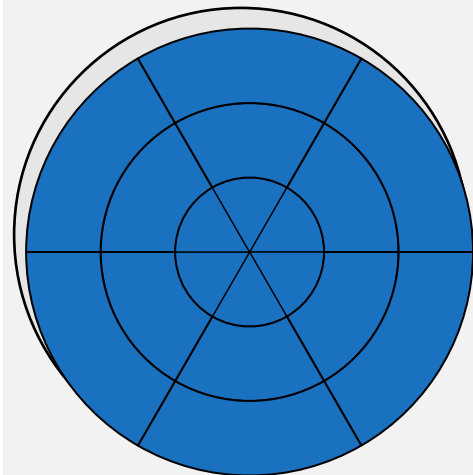
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $18.6 \pm 2.5 \%$

Mid $35.3 \pm 0.9 \%$

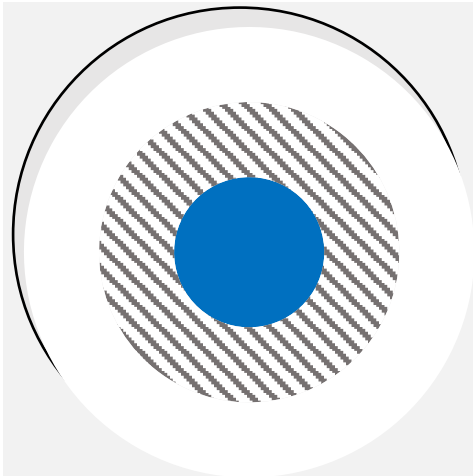
Apical $28.8 \pm 2.6 \%$



normal



pathological
> 44.2 %



Rotation

Basal $-8.5 \pm 2.0 \%$

Apical $2.1 \pm 2.8 \%$



normal



pathological
basal < -3.0 %
apical < 3.0 %



not used

T2STIR

Caudal 2.2

Mid 2.7

Apical 2.9



normal



pathological
> 1.9

T2 Mapping

Basal 51.7 ± 8.4 ms

Mid 50.5 ± 5.8 ms

Apical 54.4 ± 6.1 ms



normal



pathological
> 45 ms

EGE



normal



pathological

T1 Mapping

Basal 1374 ± 66 ms

Mid 1387 ± 97 ms

Apical 1398 ± 56 ms



normal



pathological
> 1250 ms

LGE



normal



subepicardial



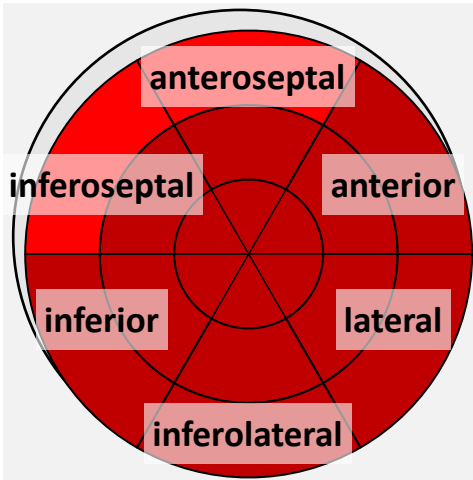
subendocardial



transmural

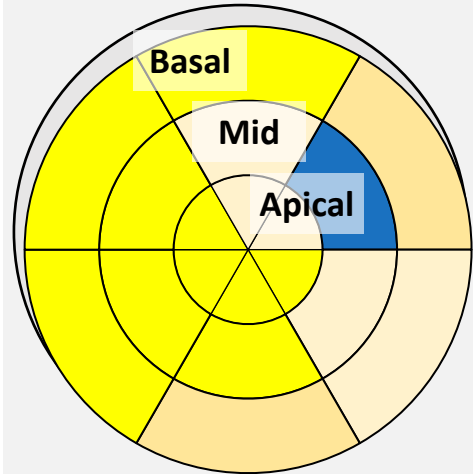
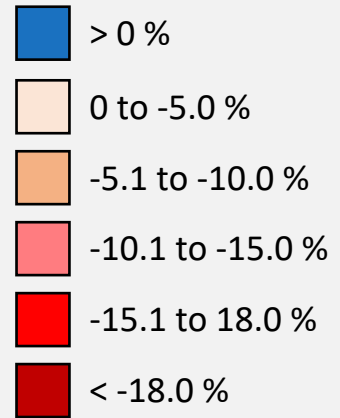


diffuse



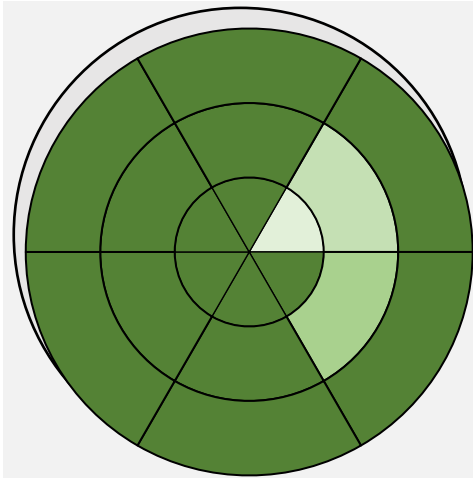
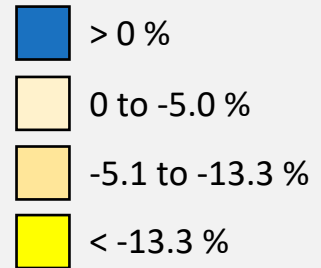
GLS

Basal $-21.98 \pm 5.3 \%$
 Mid $-25.05 \pm 5.1 \%$
 Apical $-32.69 \pm 10.1 \%$



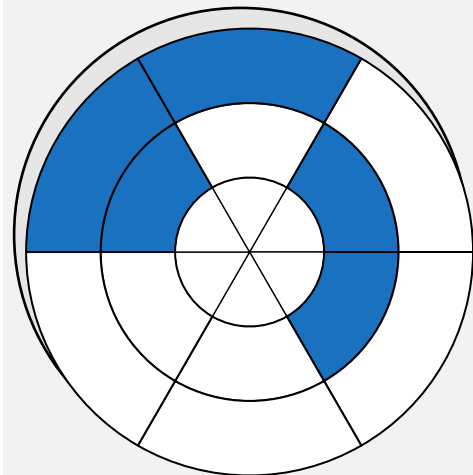
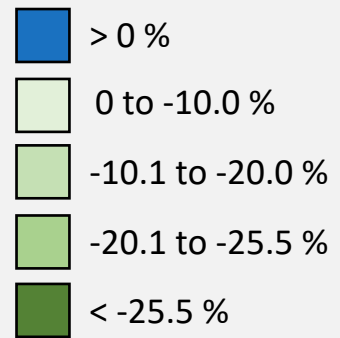
CS Epicard

Basal $-12.34 \pm 6.2 \%$
 Mid $-13.04 \pm 10 \%$
 Apical $-15.45 \pm 9.9 \%$



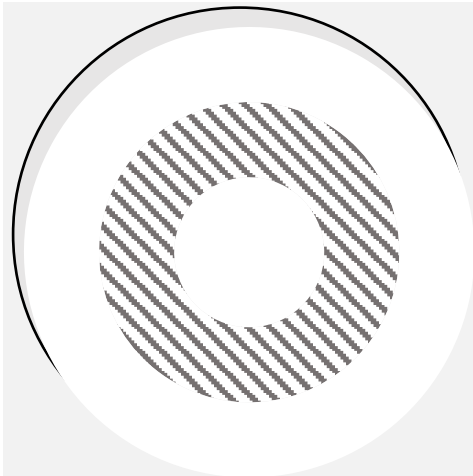
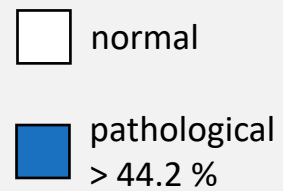
CS Endocard

Basal $-36.35 \pm 5.5 \%$
 Mid $-34.67 \pm 10.3 \%$
 Apical $-35.26 \pm 14.1 \%$



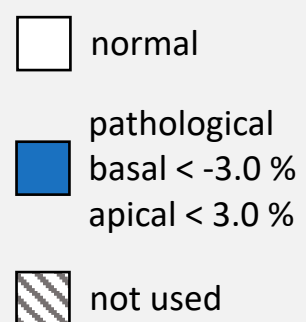
Radial

Basal $49.1 \pm 10.2 \%$
 Mid $45.95 \pm 10.7 \%$
 Apical $58.2 \pm 5.4 \%$



Rotation

Basal $-6.07 \pm 2.3 \%$
 Apical $5.79 \pm 4.4 \%$



T2STIR

Caudal 1
Mid 1.2
Apical 1.6

- normal
- pathological > 1.9

T2 Mapping

Basal 47.4 ± 62 ms
Mid 53.1 ± 7.7 ms
Apical 50.1 ± 10 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

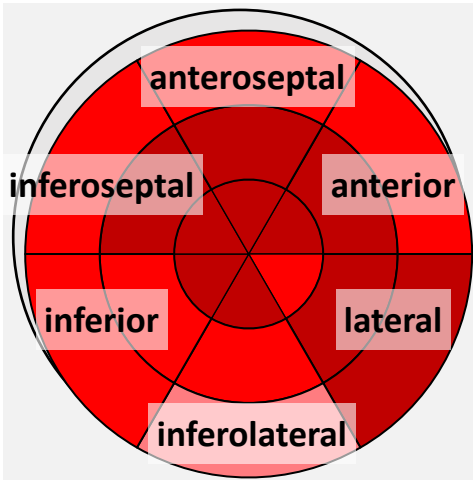
T1 Mapping

Basal 1379 ± 79 ms
Mid 13320 ± 68 ms
Apical 1399 ± 72 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

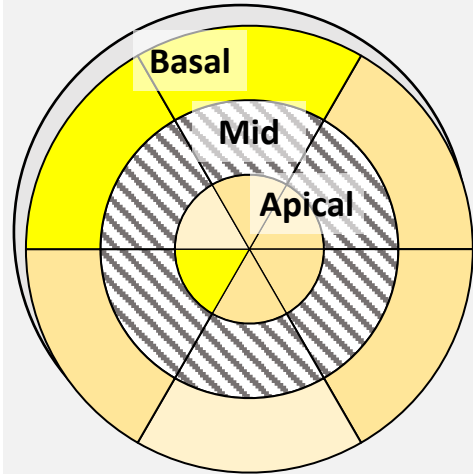
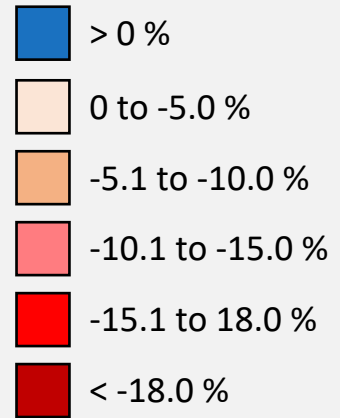


GLS

Basal $-16.09 \pm 1.9 \%$

Mid $-18.28 \pm 2.4 \%$

Apical $-21.15 \pm 3.1 \%$

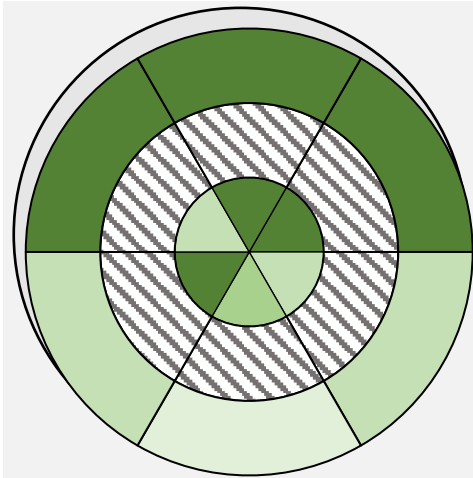
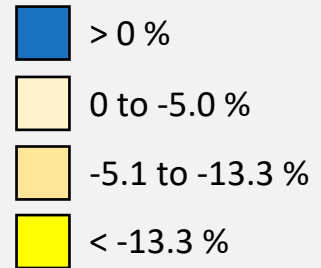


CS Epicard

Basal $-14.63 \pm 11 \%$

Mid not used

Apical $-8.29 \pm 4 \%$

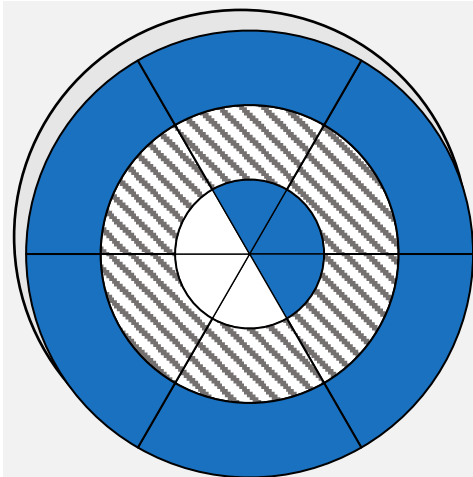
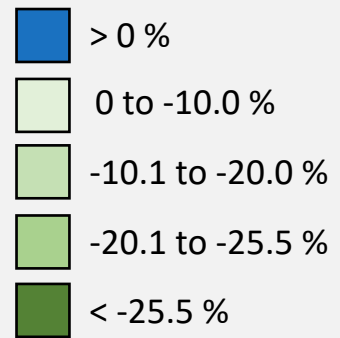


CS Endocard

Basal $-23.79 \pm 15 \%$

Mid not used

Apical $-23.29 \pm 5.7 \%$

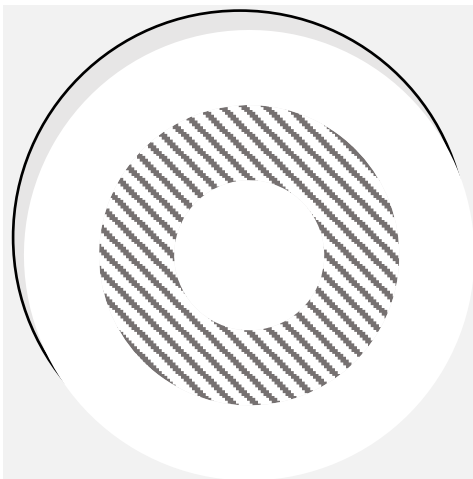
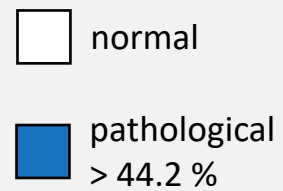


Radial

Basal $22.1 \pm 4.1 \%$

Mid not used

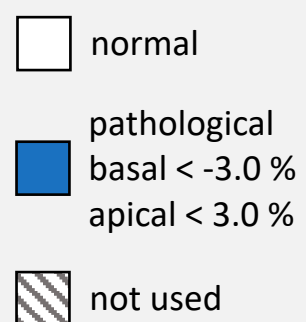
Apical $46.1 \pm 4 \%$

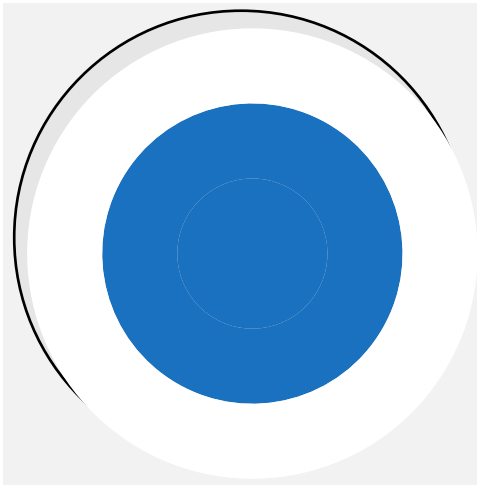


Rotation

Basal $-7.84 \pm 4.9 \%$

Apical $8.11 \pm 1.4 \%$



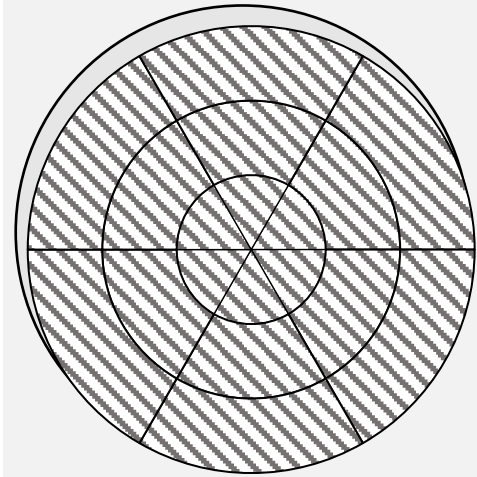
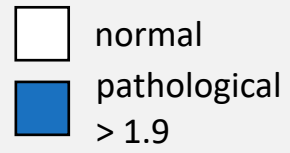


T2STIR

Caudal 1.4

Mid 3.7

Apical 3.2

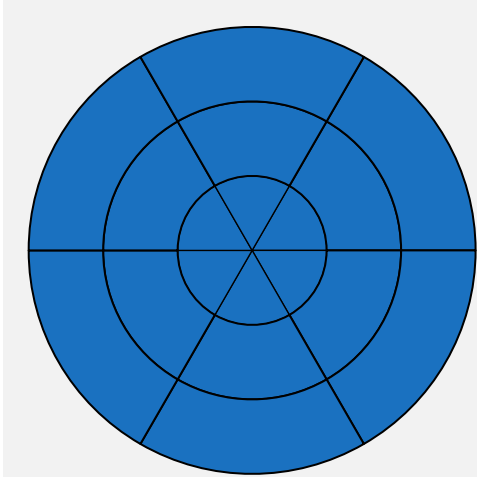
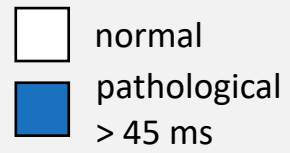


T2 Mapping

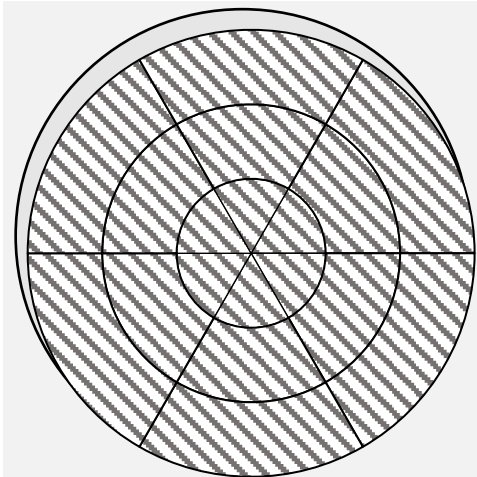
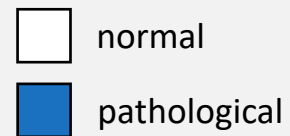
Basal not used

Mid not used

Apical not used



EGE

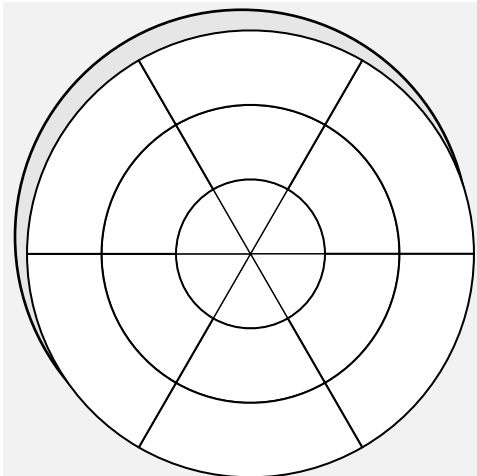
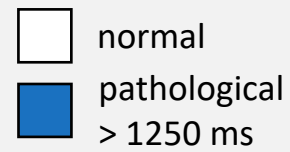


T1 Mapping

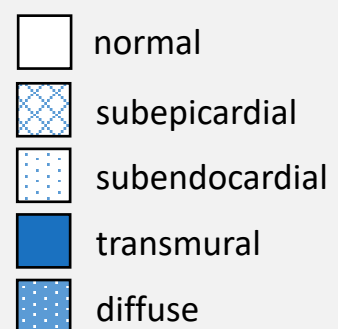
Basal not used

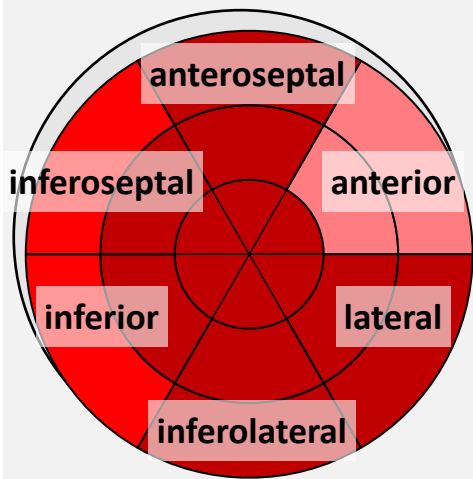
Mid not used

Apical not used



LGE





GLS

Basal $-13.37 \pm 13.2 \%$

Mid $-21.63 \pm 4.7 \%$

Apical $-31.39 \pm 3.9 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



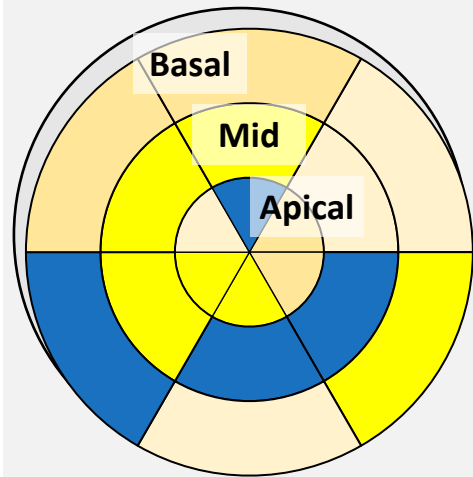
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-0.94 \pm 14.6 \%$

Mid $-8.39 \pm 13.4 \%$

Apical $-9.5 \pm 8.4 \%$



> 0 %



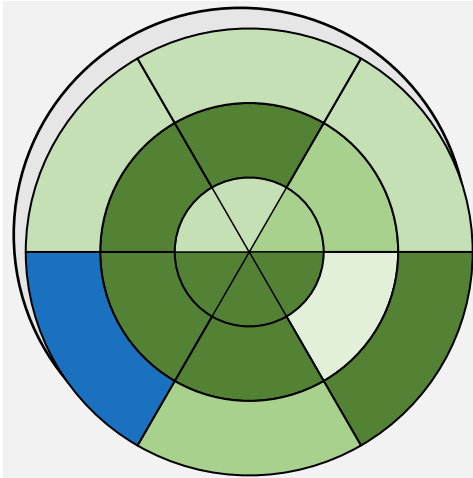
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-9.57 \pm 20.4 \%$

Mid $-27.23 \pm 13.9 \%$

Apical $-22.77 \pm 6.9 \%$



> 0 %



0 to -10.0 %



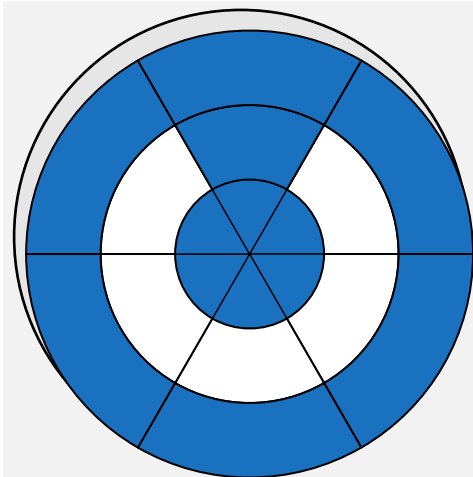
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $36.28 \pm 3.2 \%$

Mid $46.04 \pm 2.3 \%$

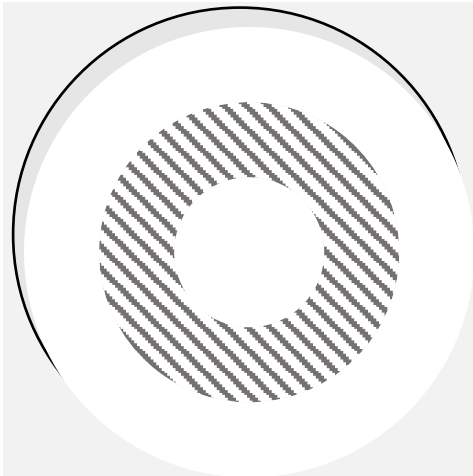
Apical $20.04 \pm 1.3 \%$



normal



pathological
> 44.2 %



Rotation

Basal $-5.7 \pm 3.8 \%$

Apical $6.41 \pm 1.3 \%$



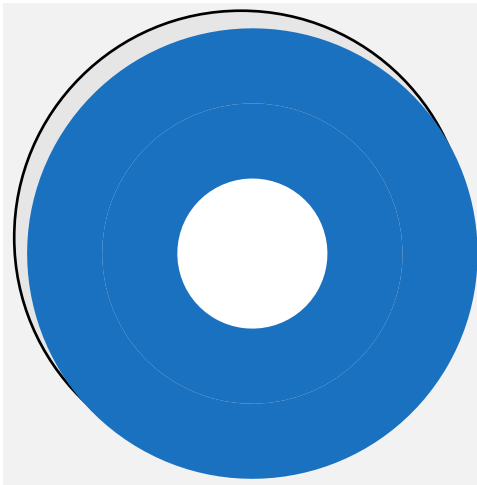
normal



pathological
basal < -3.0 %
apical < 3.0 %



not used

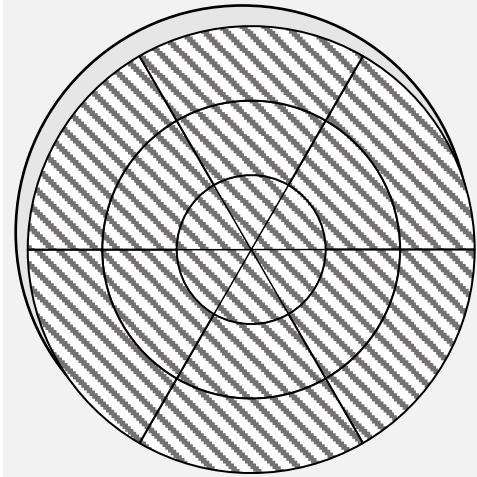
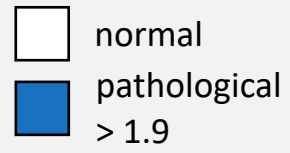


T2STIR

Caudal 2.3

Mid 2.74

Apical 1.78

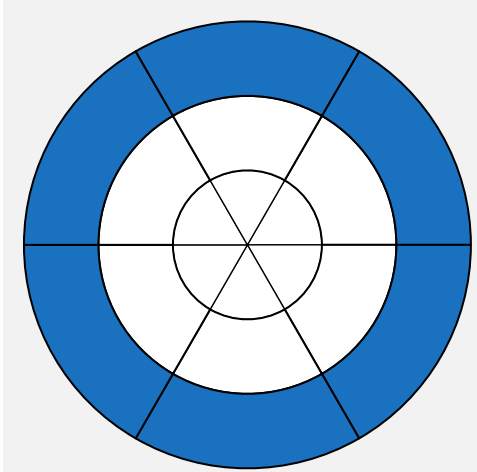
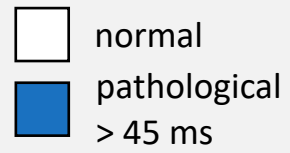


T2 Mapping

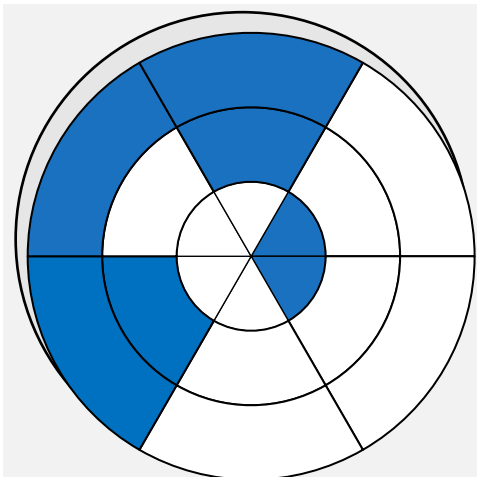
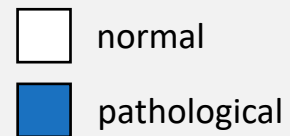
Basal not used

Mid not used

Apical not used



EGE

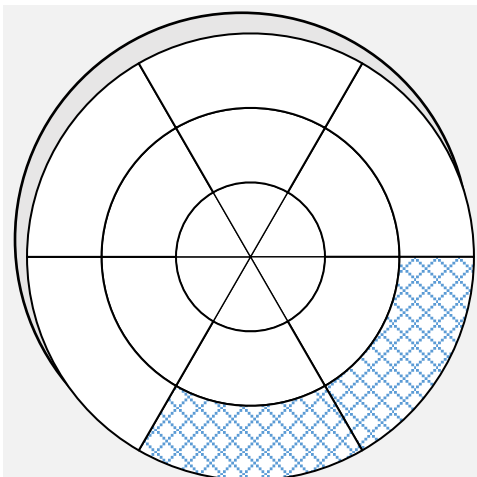
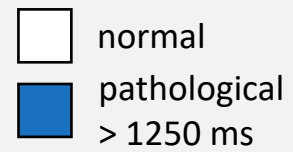


T1 Mapping

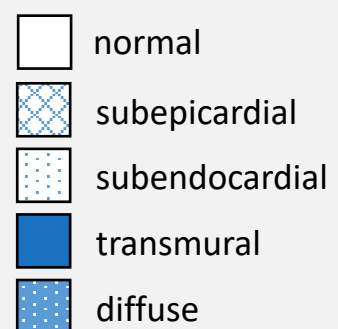
Basal 1224 ± 106 ms

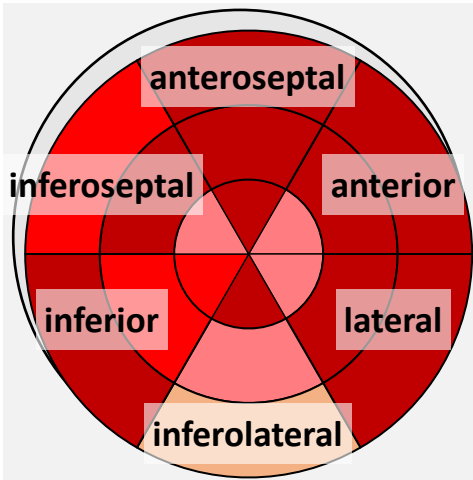
Mid 1252 ± 75 ms

Apical 1256 ± 65 ms



LGE



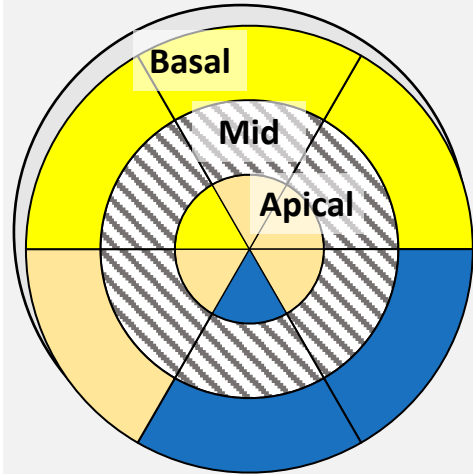
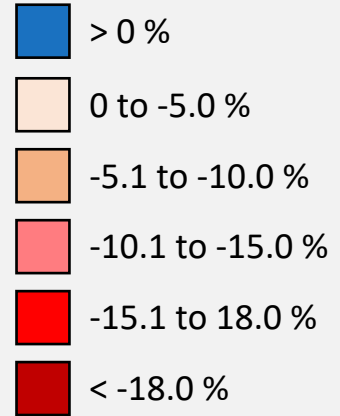


GLS

Basal $-16.46 \pm 5.1 \%$

Mid $-17.59 \pm 2.9 \%$

Apical $-15.45 \pm 3.3 \%$

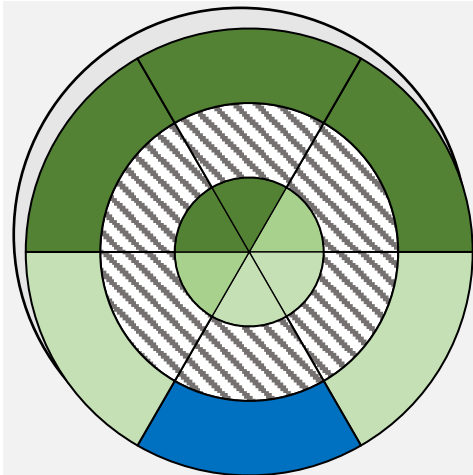
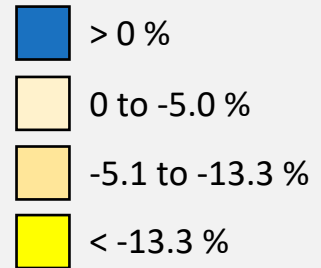


CS Epicard

Basal $-7.3 \pm 17.8 \%$

Mid not used

Apical $-7.88 \pm 6.6 \%$

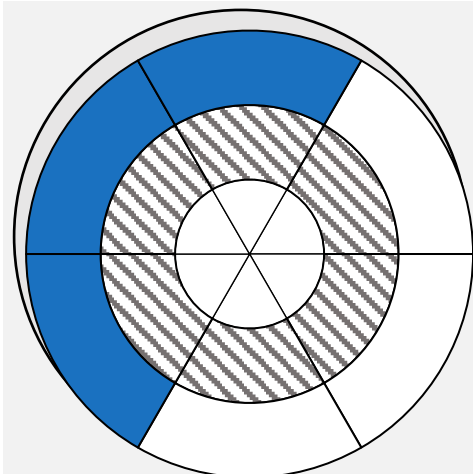
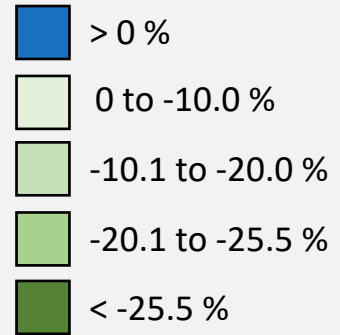


CS Endocard

Basal $-21.92 \pm 19.0 \%$

Mid not used

Apical $-22.34 \pm 7.1 \%$

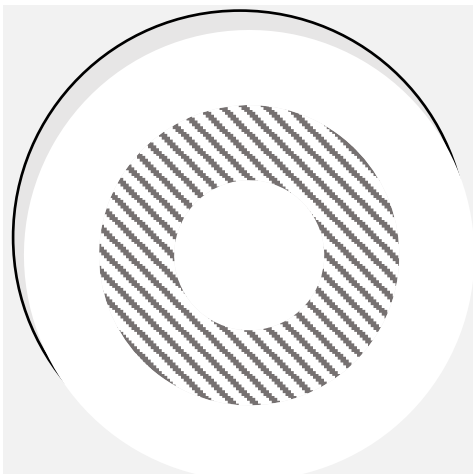
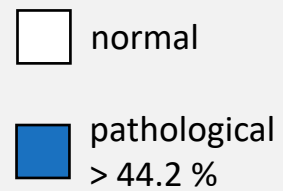


Radial

Basal $50.77 \pm 11.6 \%$

Mid not used

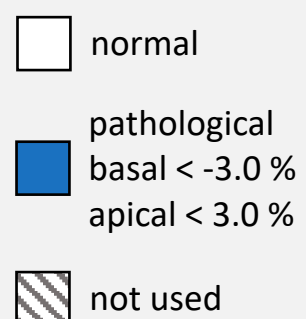
Apical $63.0 \pm 2.1 \%$



Rotation

Basal $-5.55 \pm 6.9 \%$

Apical $4.46 \pm 2.0 \%$



T2STIR

Caudal 2.33

Mid 2.27

Apical 2.13

- normal
- pathological > 1.9

T2 Mapping

Basal 49.1 ± 10.0 ms

Mid 46.6 ± 6.9 ms

Apical 47.2 ± 7.2 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1258 ± 54.0 ms

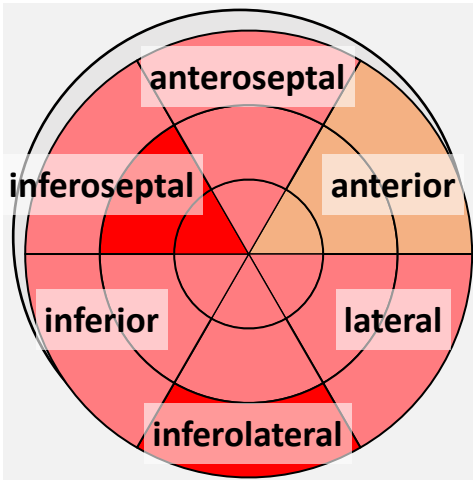
Mid 1266 ± 61.0 ms

Apical 1245 ± 64 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

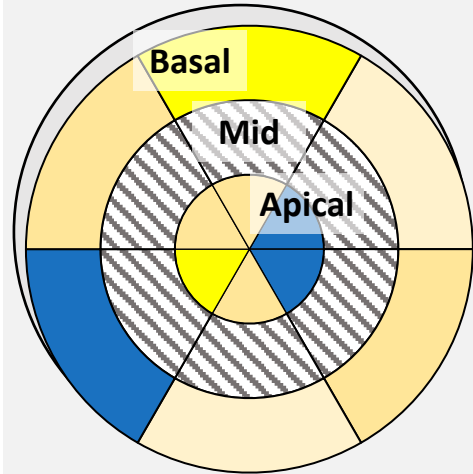
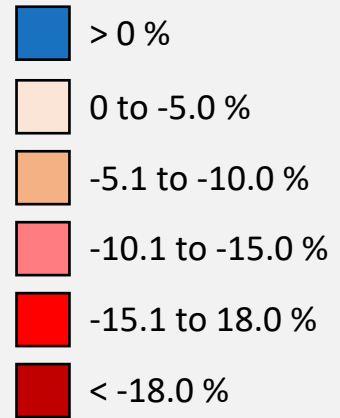


GLS

Basal $-12.7 \pm 2.1 \%$

Mid $-12.62 \pm 2.8 \%$

Apical $-13.0 \pm 2.9 \%$

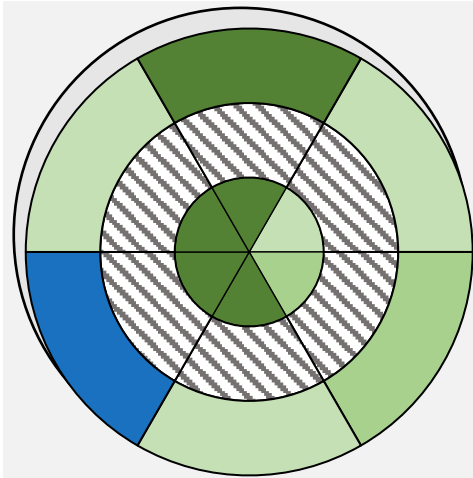
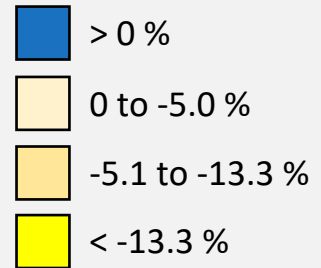


CS Epicard

Basal $-5.52 \pm 9.5 \%$

Mid not used

Apical $-8.2 \pm 12.6 \%$

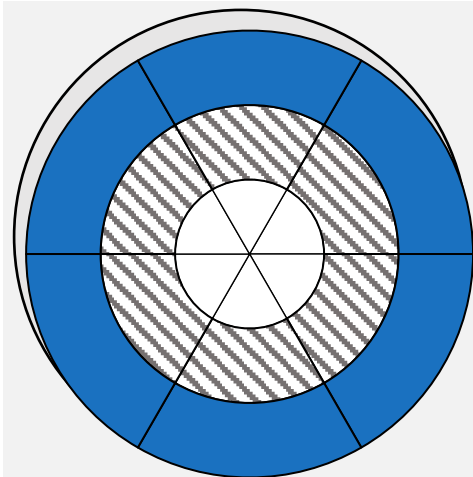
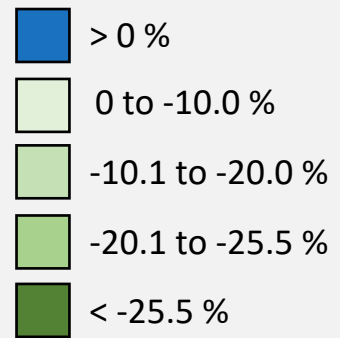


CS Endocard

Basal $-18.15 \pm 15.2 \%$

Mid not used

Apical $-29.13 \pm 8.8 \%$

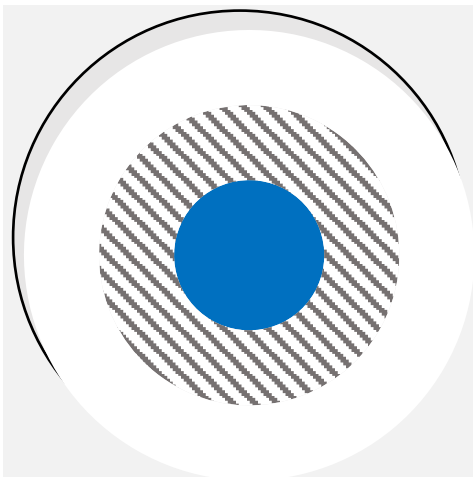
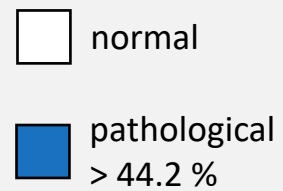


Radial

Basal $25.66 \pm 3.2 \%$

Mid not used

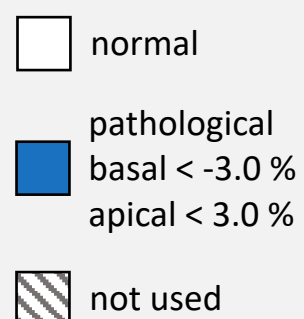
Apical $75.61 \pm 4.9 \%$



Rotation

Basal $-6.42 \pm 1.6 \%$

Apical $2.86 \pm 3.2 \%$

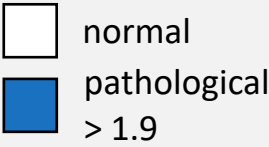


T2STIR

Caudal 2.77

Mid 2.39

Apical 2.24

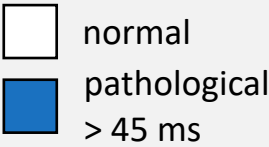


T2 Mapping

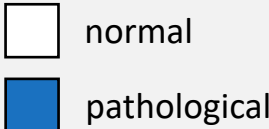
Basal 51.7 ± 7.8 ms

Mid 47.4 ± 5.3 ms

Apical 48.6 ± 5.4 ms



EGE

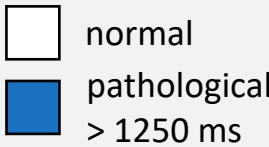


T1 Mapping

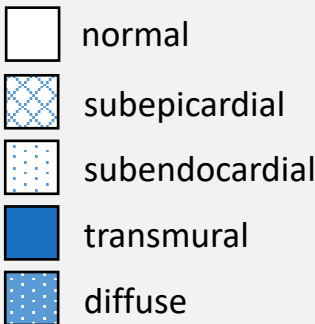
Basal 1266 ± 52.0 ms

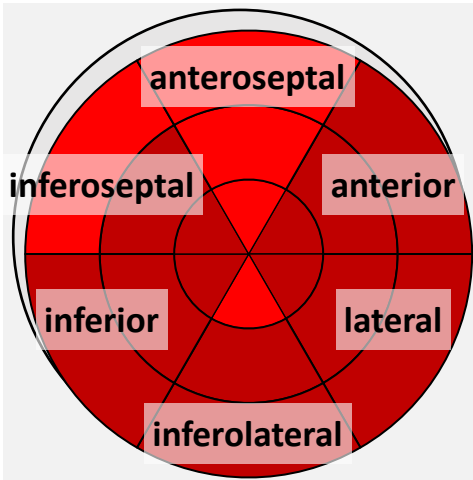
Mid 1255 ± 50.0 ms

Apical 1277 ± 46.0 ms



LGE





GLS

Basal $-19.29 \pm 2.7 \%$

Mid $-20.7 \pm 4.1 \%$

Apical $-22.68 \pm 6.1 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



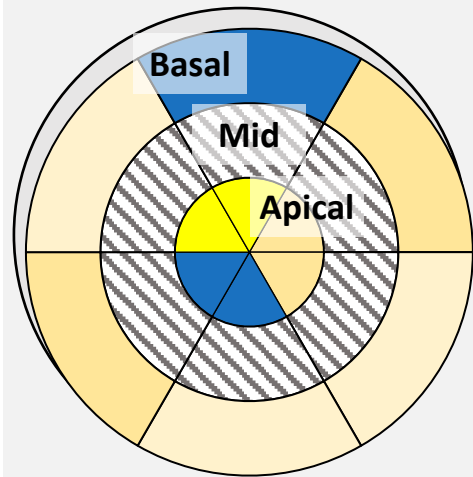
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-4.27 \pm 3.6 \%$

Mid not used

Apical $-5.79 \pm 11.1 \%$



> 0 %



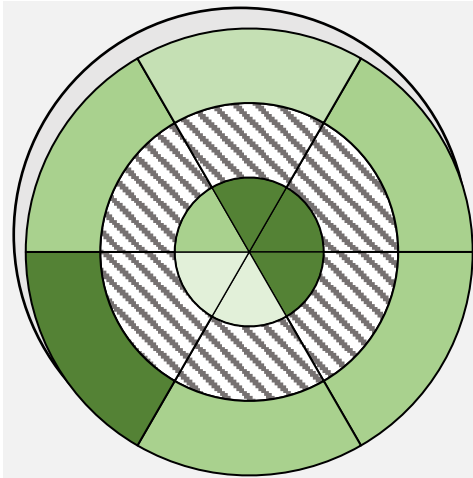
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-23.28 \pm 3.8 \%$

Mid not used

Apical $-20.11 \pm 12.7 \%$



> 0 %



0 to -10.0 %



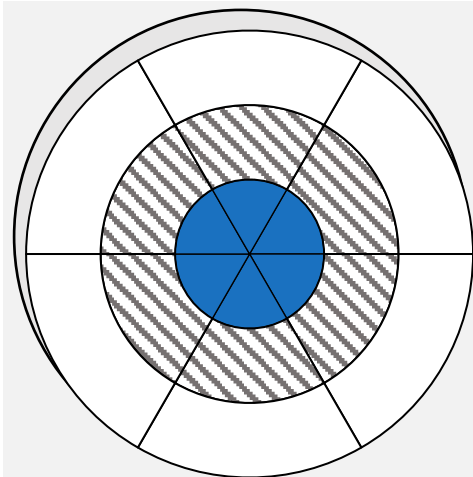
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $50.24 \pm 1.7 \%$

Mid not used

Apical $35.99 \pm 3 \%$

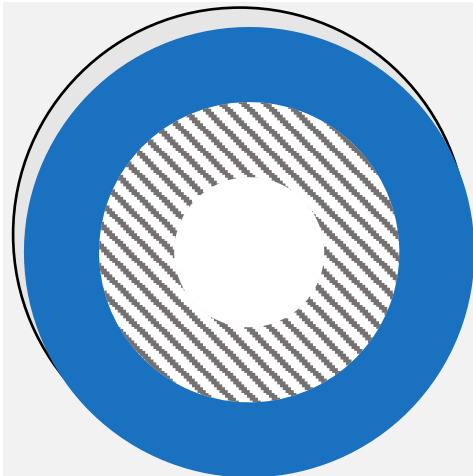


normal



pathological

> 44.2 %



Rotation

Basal $-0.53 \pm 2.2 \%$

Apical $4.29 \pm 4.3 \%$



normal



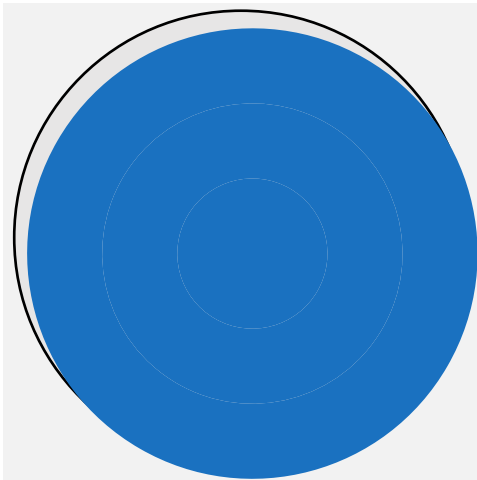
pathological

basal < -3.0 %

apical < 3.0 %



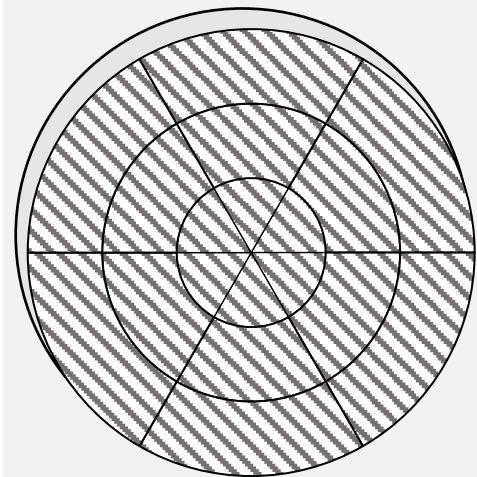
not used



T2STIR

Caudal 3.2
Mid 6.0
Apical 5.5

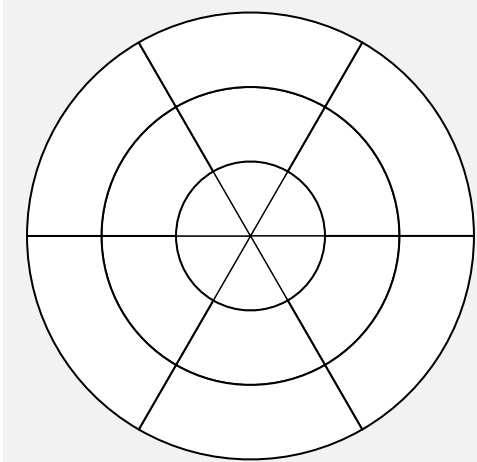
- normal
- pathological > 1.9



T2 Mapping

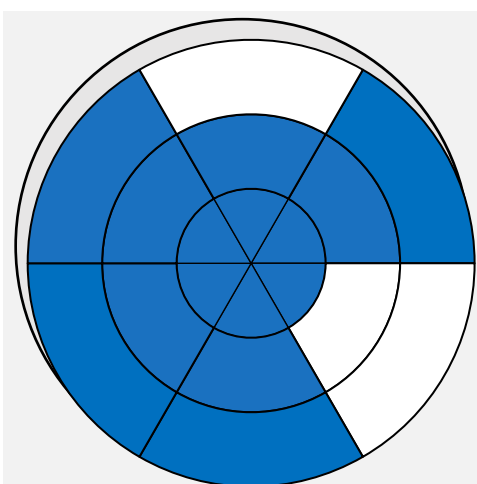
Basal not used
Mid not used
Apical not used

- normal
- pathological > 45 ms



EGE

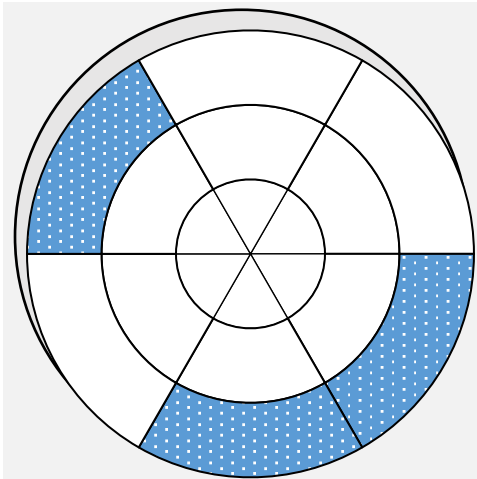
- normal
- pathological



T1 Mapping

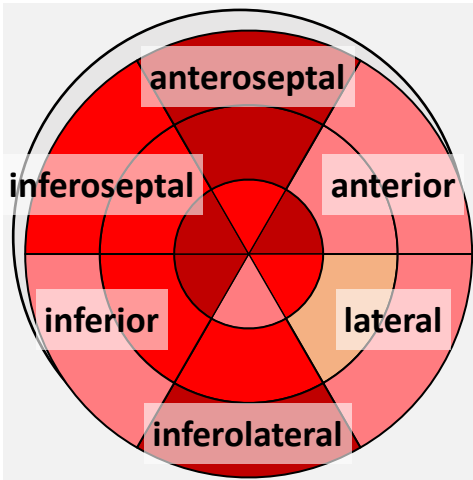
Basal 1302 ± 119.0 ms
Mid 1286 ± 99 ms
Apical 1373 ± 123 ms

- normal
- pathological > 1250 ms



LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

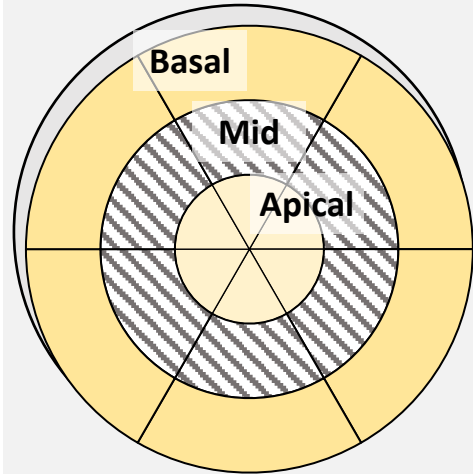
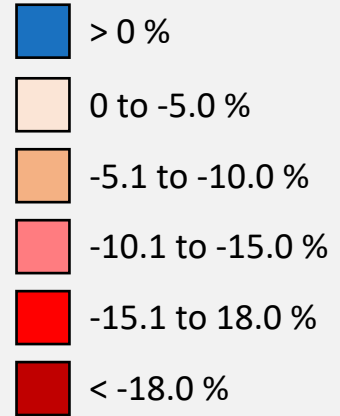


GLS

Basal $-15.4 \pm 4.4 \%$

Mid $-15.4 \pm 3.5 \%$

Apical $-17.73 \pm 3.2 \%$

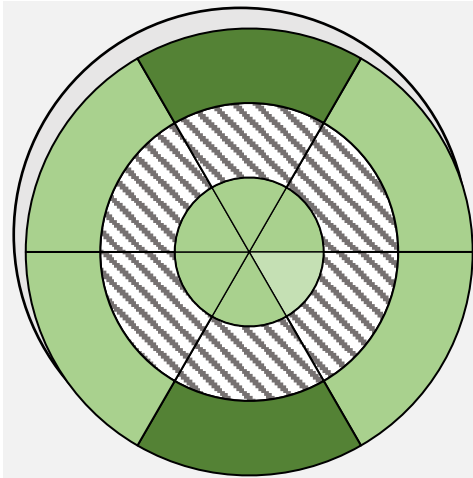
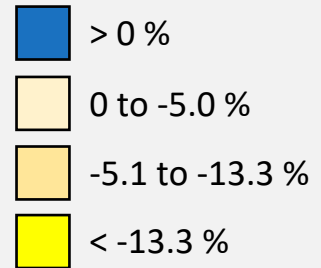


CS Epicard

Basal $-9.12 \pm 2.4 \%$

Mid not used

Apical $-2.32 \pm 1.4 \%$

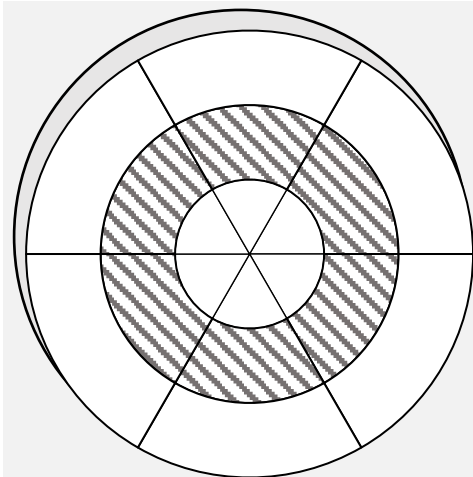
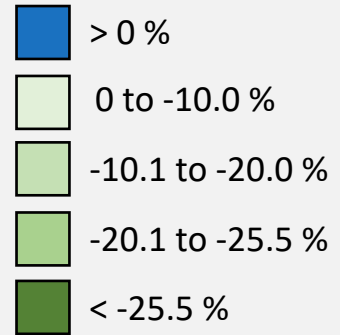


CS Endocard

Basal $-25 \pm 2.4 \%$

Mid not used

Apical $-21.9 \pm 1.9 \%$

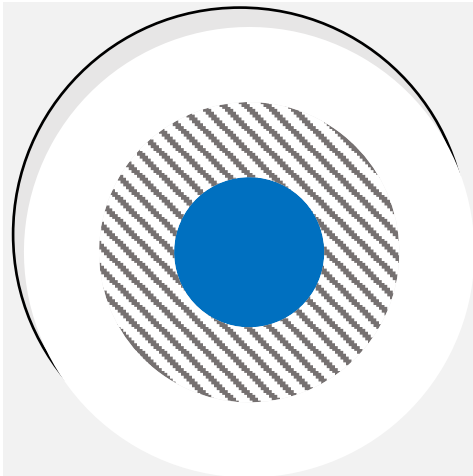
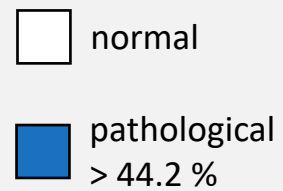


Radial

Basal $30.0 \pm 6.9 \%$

Mid not used

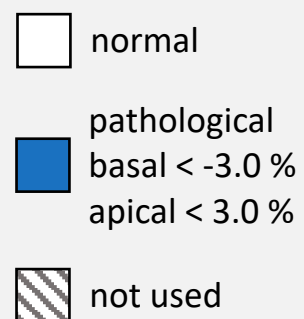
Apical $13.13 \pm 1.5 \%$



Rotation

Basal $-3.97 \pm 0.5 \%$

Apical $2.49 \pm 1.6 \%$



T2STIR

Caudal 1.05
Mid 1.22
Apical 1.8

- normal
- pathological > 1.9

T2 Mapping

Basal 42.0 ± 6.9 ms
Mid 46.3 ± 7.6 ms
Apical 50.0 ± 8.1 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

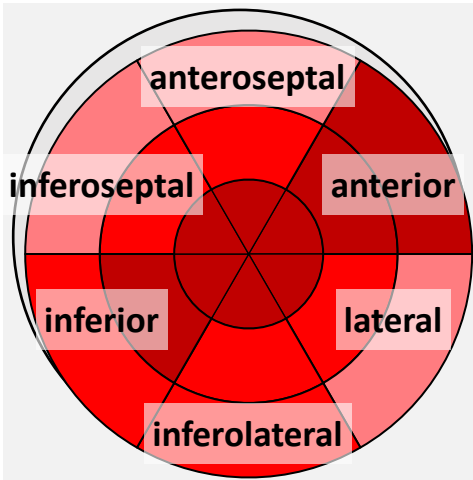
T1 Mapping

Basal 1267 ± 78.0 ms
Mid 1266 ± 69.0 ms
Apical 1377 ± 109.0 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

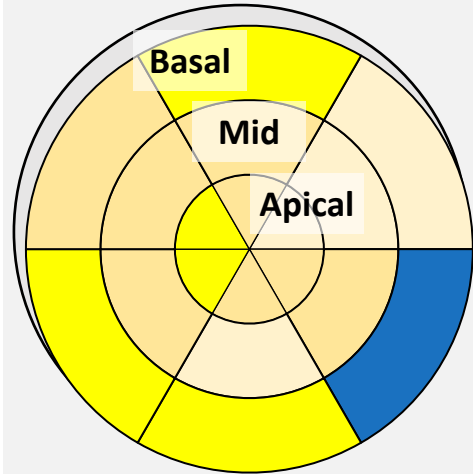
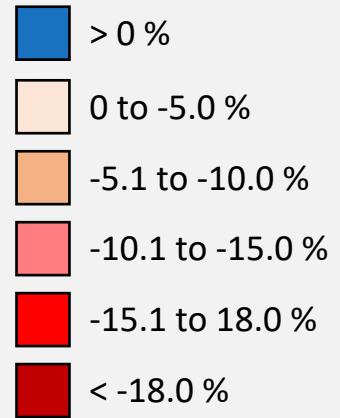


GLS

Basal $-16.15 \pm 3.2 \%$

Mid $-17.85 \pm 2.2 \%$

Apical $-21.11 \pm 2.5 \%$

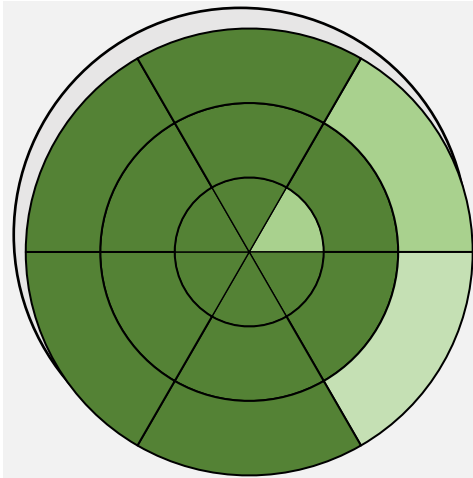
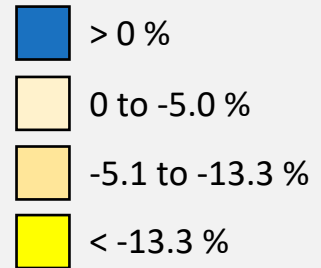


CS Epicard

Basal $-10.47 \pm 8.7 \%$

Mid $-8.24 \pm 4.9 \%$

Apical $-9.81 \pm 5.8 \%$

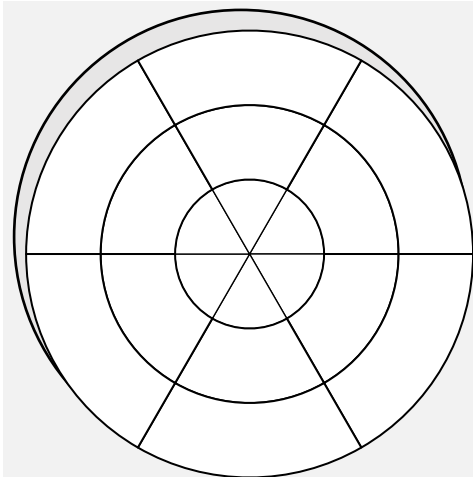
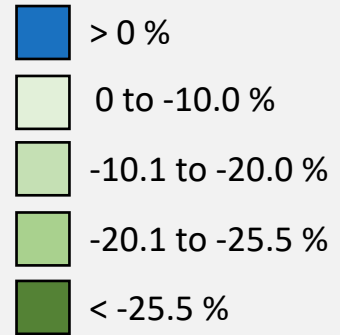


CS Endocard

Basal $-30.1 \pm 9.0 \%$

Mid $-33.19 \pm 4.8 \%$

Apical $-35.06 \pm 7.6 \%$

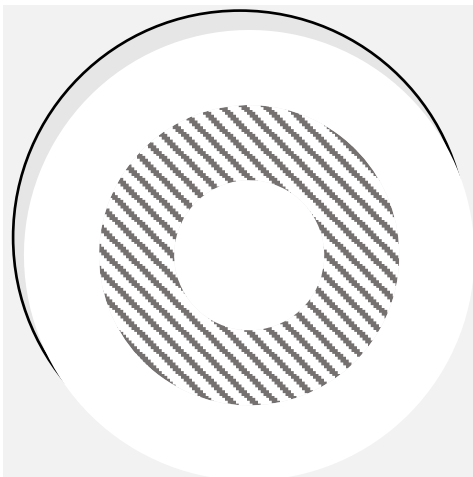
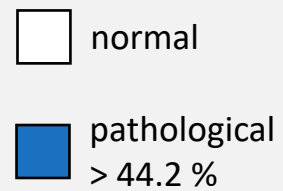


Radial

Basal $49.8 \pm 3.4 \%$

Mid $75.85 \pm 5.6 \%$

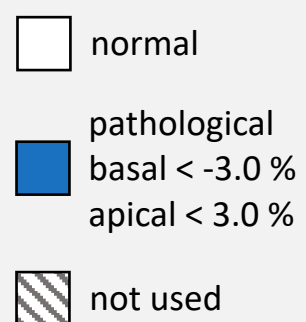
Apical $87.84 \pm 6.9 \%$



Rotation

Basal $-4.85 \pm 1.2 \%$

Apical $15.39 \pm 3.5 \%$



T2STIR

Caudal 2.16

Mid 2.7

Apical 2.9

- normal
- pathological > 1.9

T2 Mapping

Basal 51.7 ± 8.4 ms

Mid 50.5 ± 5.8 ms

Apical 54.4 ± 6.1 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1374 ± 66.0 ms

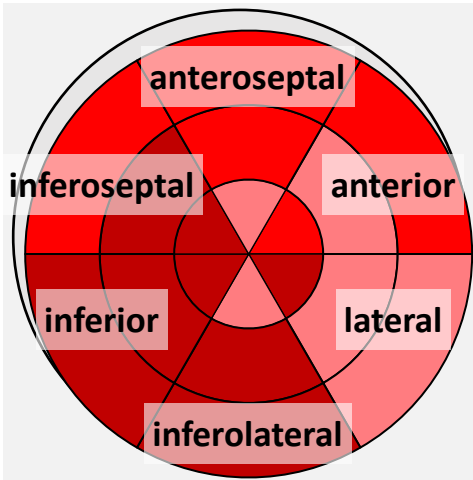
Mid 1387 ± 97.0 ms

Apical 1398 ± 56.0 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

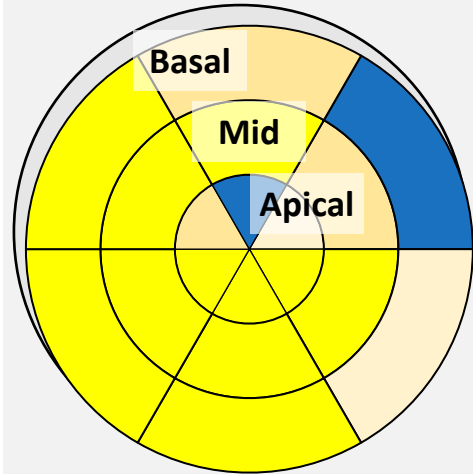
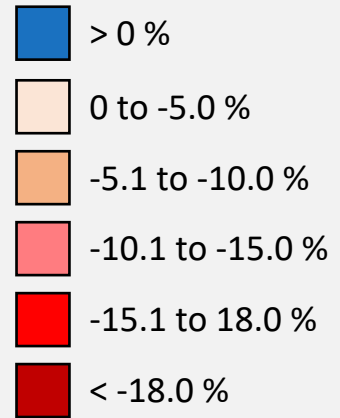


GLS

Basal $-18.65 \pm 4.4 \%$

Mid $-18.4 \pm 4.5 \%$

Apical $-19.9 \pm 6.7 \%$

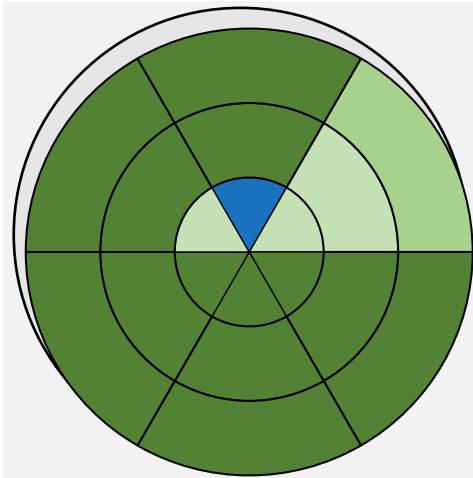
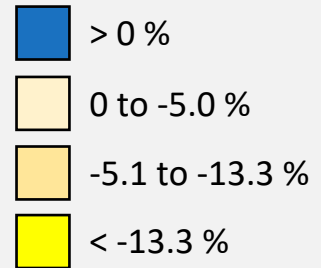


CS Epicard

Basal $-11.22 \pm 11.5 \%$

Mid $-21.53 \pm 10.2 \%$

Apical $-12.03 \pm 10.6 \%$

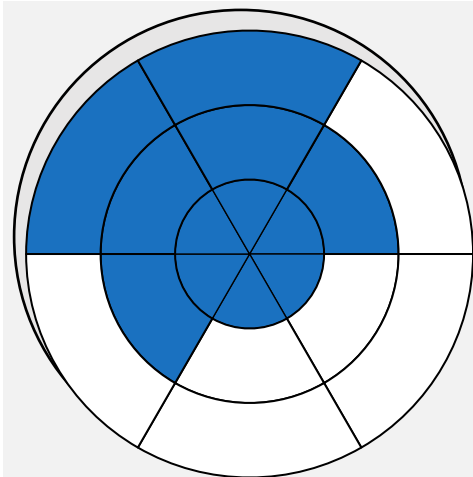
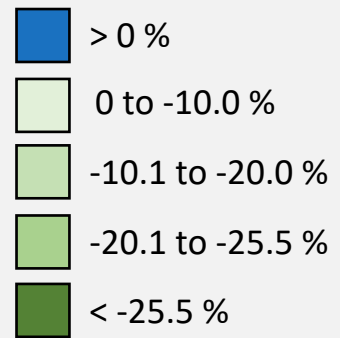


CS Endocard

Basal $-36.5 \pm 10.8 \%$

Mid $-35.6 \pm 12.5 \%$

Apical $-23.7 \pm 18.4 \%$

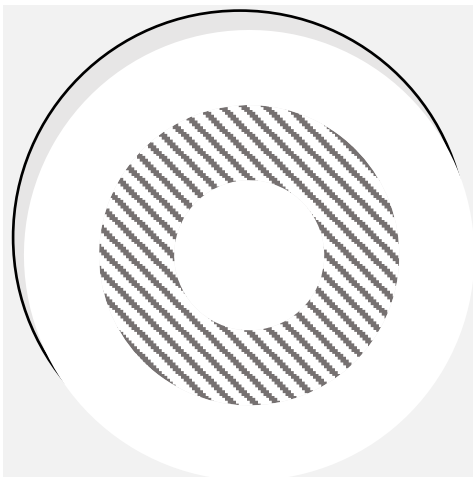
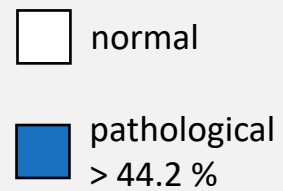


Radial

Basal $61.7 \pm 21.4 \%$

Mid $39.79 \pm 10.0 \%$

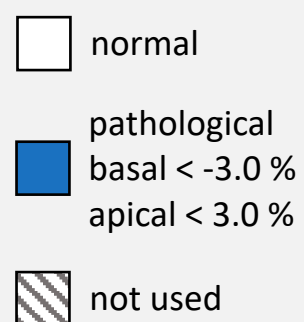
Apical $32.91 \pm 7.2 \%$



Rotation

Basal $-7.54 \pm 4.6 \%$

Apical $4.88 \pm 3.3 \%$



T2STIR

Caudal 2.9

Mid 2.65

Apical 2.55

- normal
- pathological > 1.9

T2 Mapping

Basal 59.4 ± 11.0 ms

Mid 59.9 ± 8.5 ms

Apical 54.7 ± 6.8 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological
- not used

T1 Mapping

Basal 1476 ± 115 ms

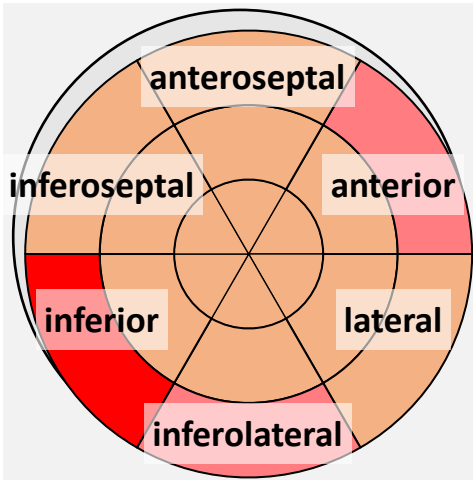
Mid 1464 ± 127 ms

Apical 1455 ± 90.0 ms

- normal
- pathological > 1250 ms

LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse

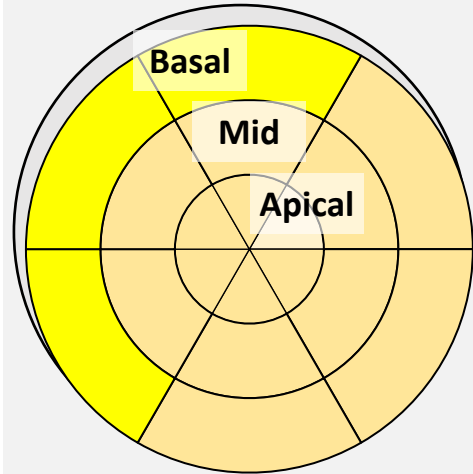
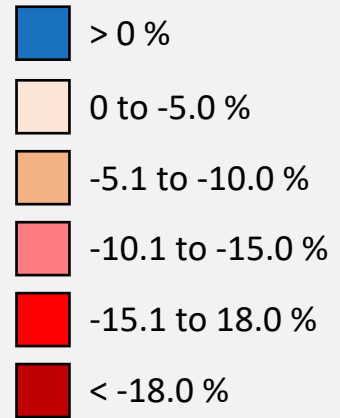


GLS

Basal $-10.4 \pm 3.5 \%$

Mid $-7.9 \pm 1.3 \%$

Apical $-7.1 \pm 1.4 \%$

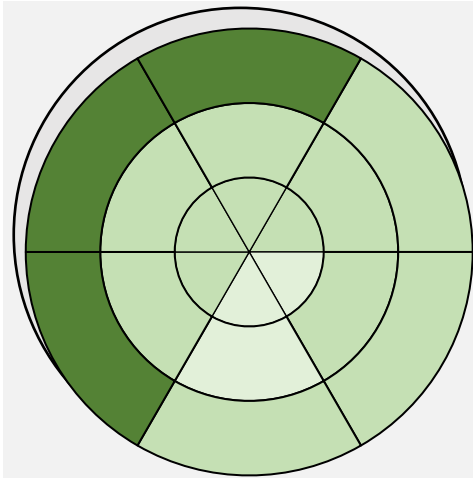
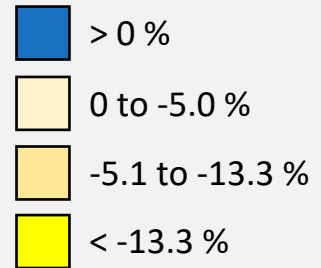


CS Epicard

Basal $-13.1 \pm 5.1 \%$

Mid $-7.5 \pm 2.6 \%$

Apical $-6.2 \pm 1.5 \%$

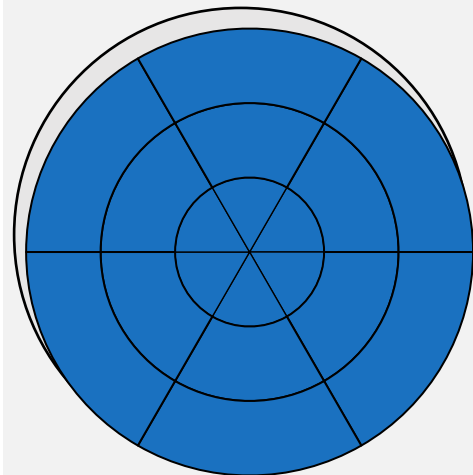
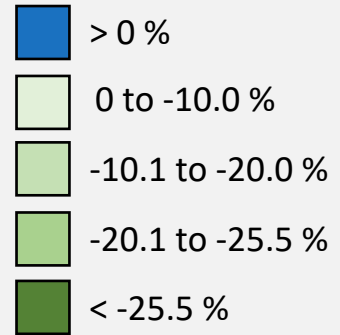


CS Endocard

Basal $-22.2 \pm 8.5 \%$

Mid $-11.7 \pm 2.3 \%$

Apical $-10.9 \pm 3.4 \%$

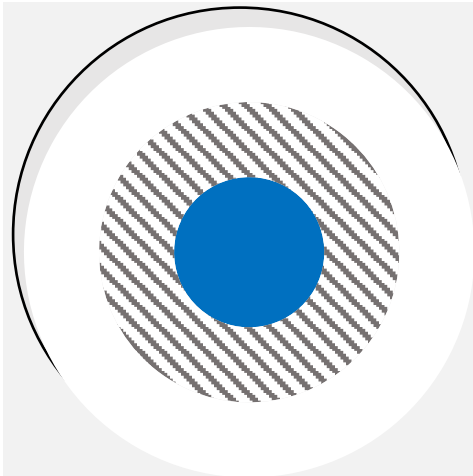
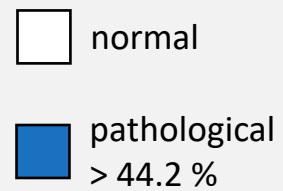


Radial

Basal $14.1 \pm 6.4 \%$

Mid $8.8 \pm 0.5 \%$

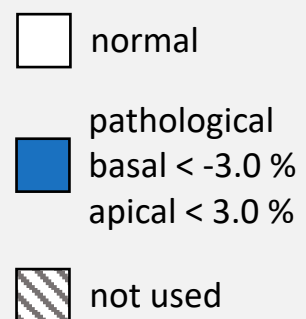
Apical $10.5 \pm 1.8 \%$



Rotation

Basal $-5.5 \pm 1.8 \%$

Apical $1.8 \pm 1.5 \%$



T2STIR

Caudal 2.2

Mid 1.4

Apical 1.5

- normal
- pathological > 1.9

T2 Mapping

Basal 56.9 ± 11.0 ms

Mid 59.0 ± 10.0 ms

Apical 58.6 ± 7.1 ms

- normal
- pathological > 45 ms

EGE

- normal
- pathological

T1 Mapping

Basal 1413 ± 56.0 ms

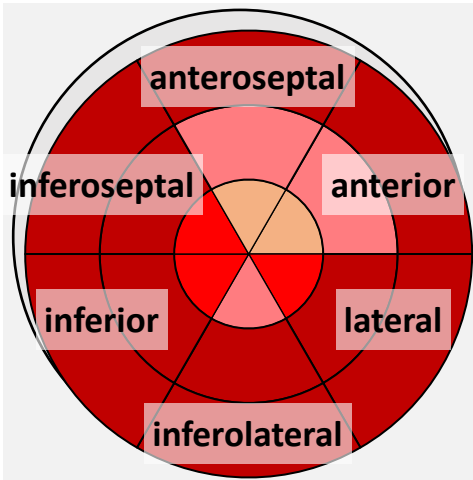
Mid 1489 ± 176.0 ms

Apical 1517 ± 130.0 ms

- normal
- pathological > 1250 ms

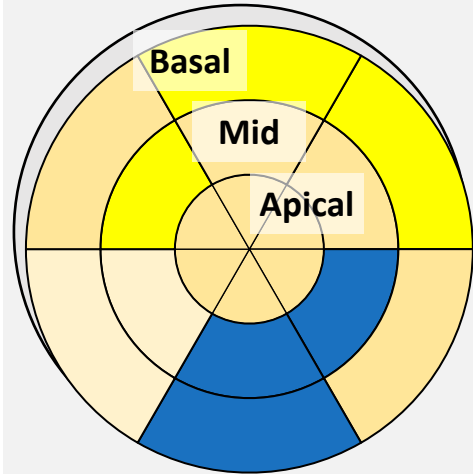
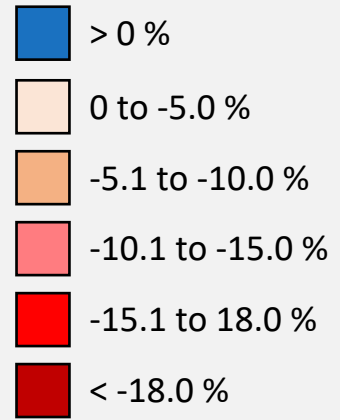
LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse



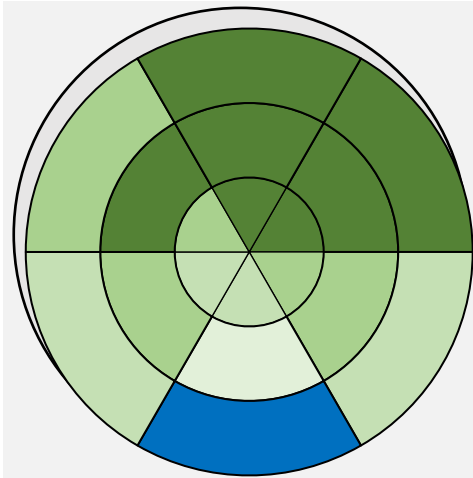
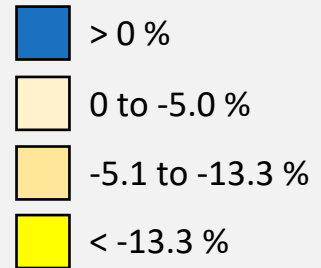
GLS

Basal $-13.01 \pm 5.4 \%$
 Mid $-18.0 \pm 3.5 \%$
 Apical $-13.01 \pm 5.4 \%$



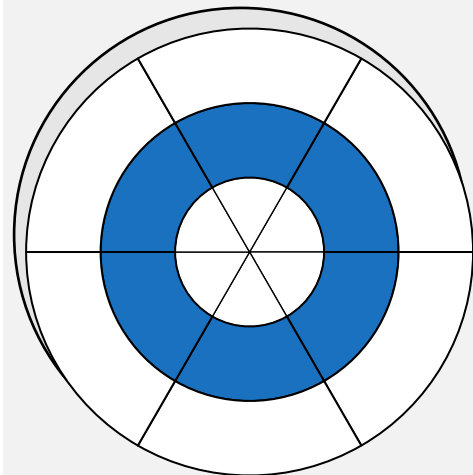
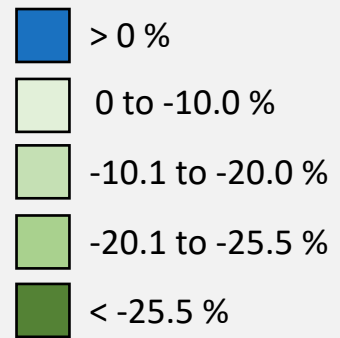
CS Epicard

Basal $-12.44 \pm 9.1 \%$
 Mid $-7 \pm 7.5 \%$
 Apical $-6.3 \pm 5.8 \%$



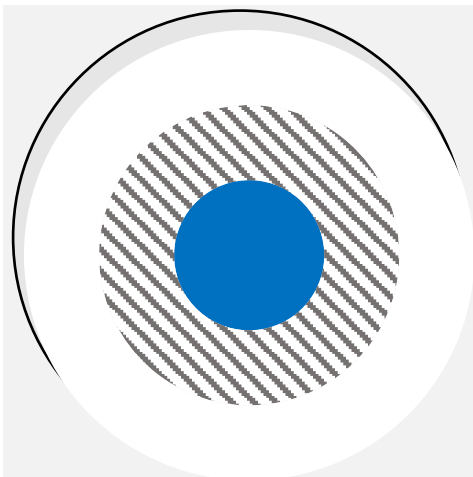
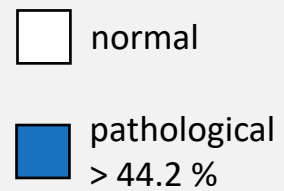
CS Endocard

Basal $-17.88 \pm 11.7 \%$
 Mid $-21.62 \pm 12.4 \%$
 Apical $-25.1 \pm 16.9 \%$



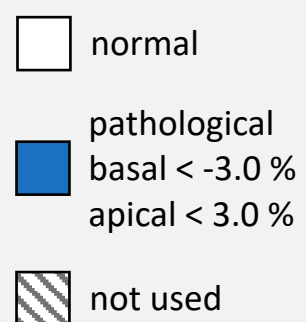
Radial

Basal $49.92 \pm 3.4 \%$
 Mid $47.03 \pm 5.3 \%$
 Apical $49.12 \pm 1.5 \%$



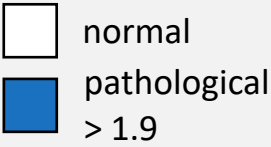
Rotation

Basal $-7.48 \pm 4.8 \%$
 Apical $-4.24 \pm 3.1 \%$



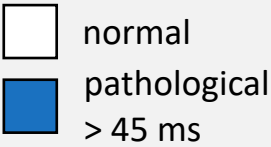
T2STIR

Caudal 1.75
Mid 2.0
Apical 1.9

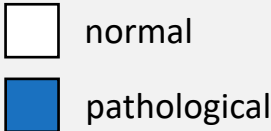


T2 Mapping

Basal not used
Mid not used
Apical not used

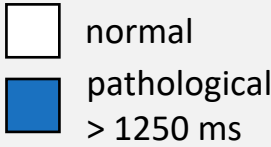


EGE

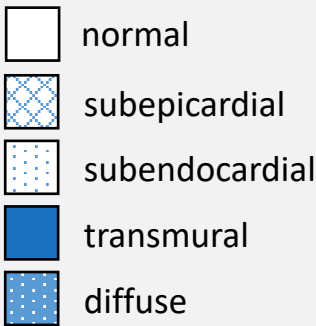


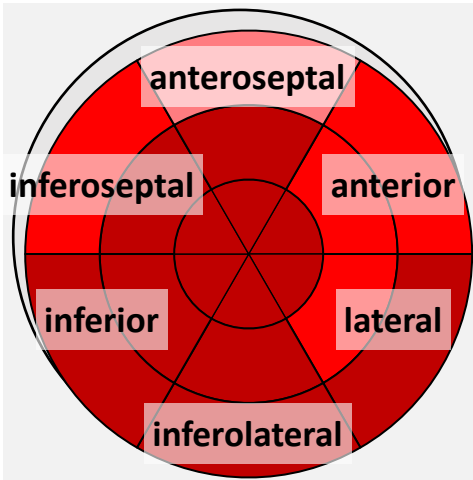
T1 Mapping

Basal 1285 ± 64.0 ms
Mid 1254 ± 45.0 ms
Apical 1250 ± 48.0 ms



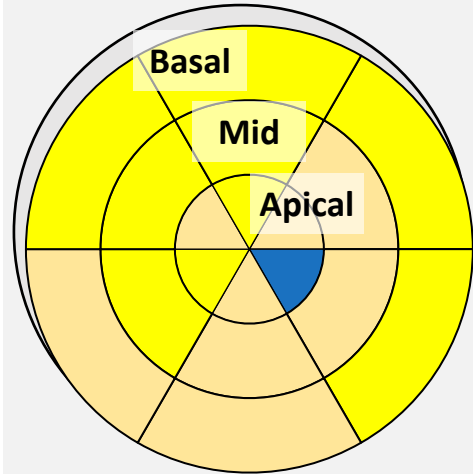
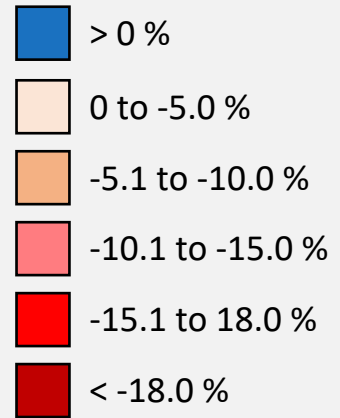
LGE





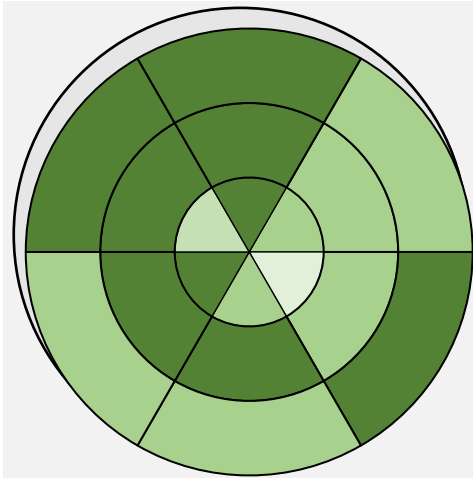
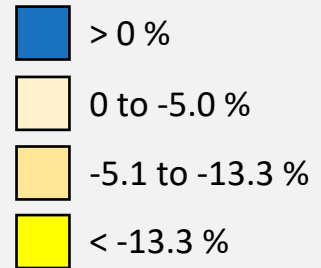
GLS

Basal $-17.45 \pm 2.0 \%$
 Mid $-18.6 \pm 1.4 \%$
 Apical $-23.53 \pm 2.4 \%$



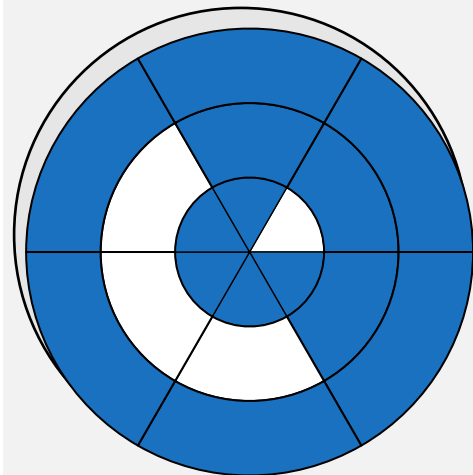
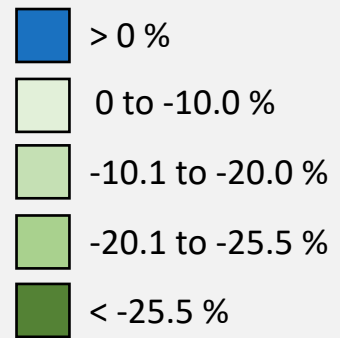
CS Epicard

Basal $-14.39 \pm 3.7 \%$
 Mid $-11.83 \pm 5.8 \%$
 Apical $-8.88 \pm 6.7 \%$



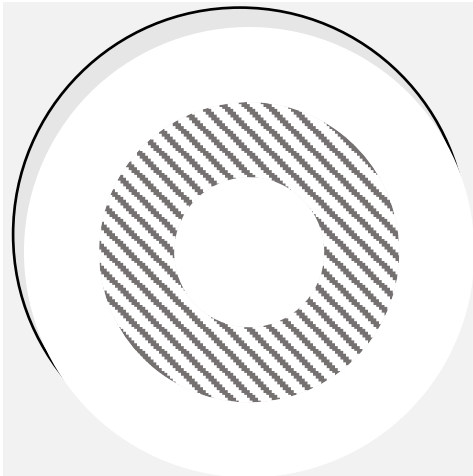
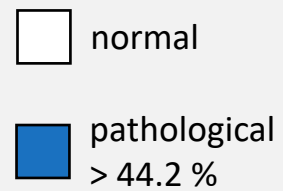
CS Endocard

Basal $-27.38 \pm 4.1 \%$
 Mid $-29.55 \pm 7.1 \%$
 Apical $-21.7 \pm 7.4 \%$



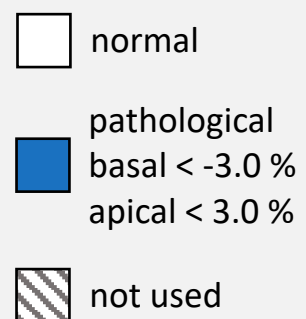
Radial

Basal $24.53 \pm 6.0 \%$
 Mid $49.66 \pm 13.6 \%$
 Apical $34.87 \pm 13.6 \%$



Rotation

Basal $-8.61 \pm 12.3 \%$
 Apical $10.2 \pm 3.0 \%$



T2STIR

Caudal 2.8

Mid 3.2

Apical 4.5



normal



pathological
> 1.9

T2 Mapping

Basal not used

Mid not used

Apical not used



normal



pathological
> 45 ms

EGE



normal



pathological

T1 Mapping

Basal 1329 ± 132.0 ms

Mid 1257.0 ± 117.0 ms

Apical 1173.0 ± 123.0 ms



normal



pathological
> 1250 ms

LGE



normal



subepicardial



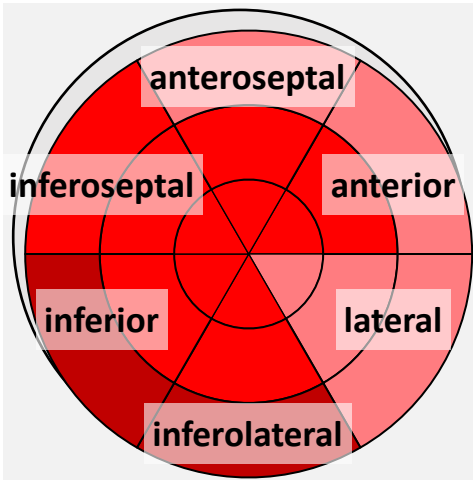
subendocardial



transmural



diffuse



GLS

Basal $-15.01 \pm 2.8 \%$

Mid $-15.6 \pm 2.6 \%$

Apical $-15.6 \pm 2.0 \%$



> 0 %



0 to -5.0 %



-5.1 to -10.0 %



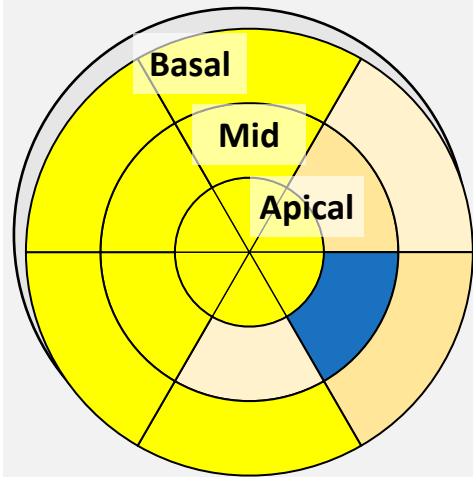
-10.1 to -15.0 %



-15.1 to 18.0 %



< -18.0 %



CS Epicard

Basal $-16.6 \pm 8.9 \%$

Mid $-8.6 \pm 5.9 \%$

Apical $-25.0 \pm 1.7 \%$



> 0 %



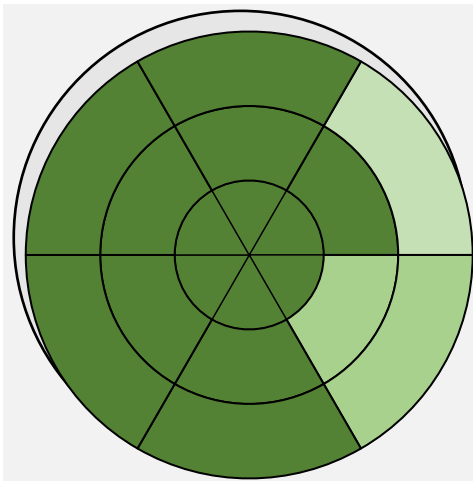
0 to -5.0 %



-5.1 to -13.3 %



< -13.3 %



CS Endocard

Basal $-30.5 \pm 9.8 \%$

Mid $-29.5 \pm 5.1 \%$

Apical $-37.7 \pm 1.9 \%$



> 0 %



0 to -10.0 %



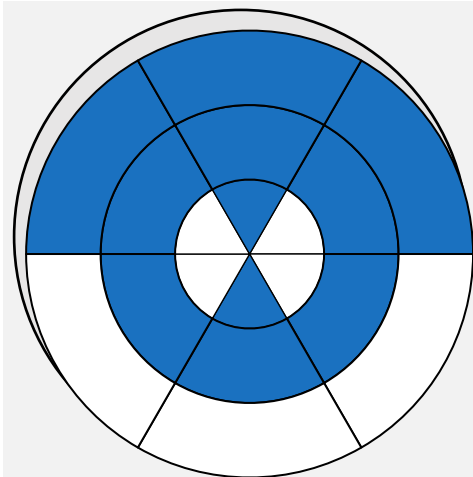
-10.1 to -20.0 %



-20.1 to -25.5 %



< -25.5 %



Radial

Basal $43.2 \pm 6.9 \%$

Mid $32.3 \pm 2.0 \%$

Apical $45.2 \pm 3.4 \%$

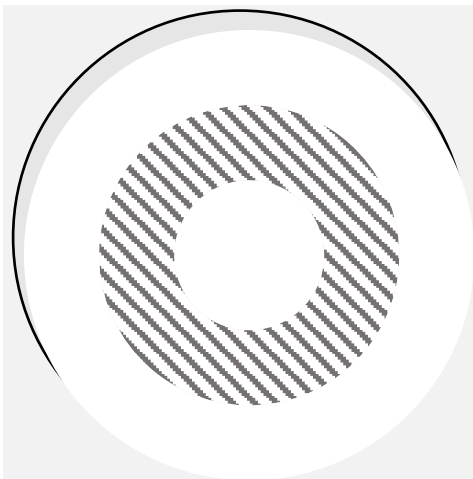


normal



pathological

> 44.2 %



Rotation

Basal $-11.7 \pm 3.7 \%$

Apical $8.4 \pm 1.9 \%$



normal



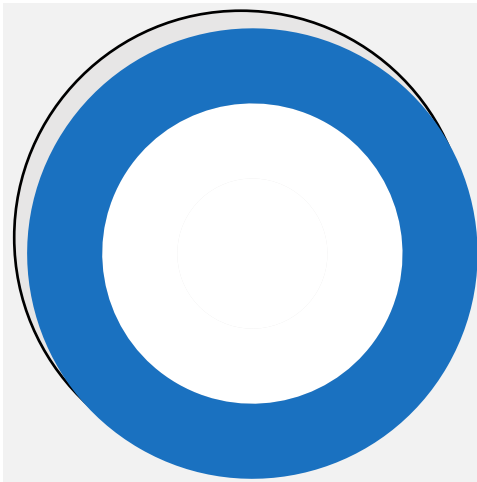
pathological

basal < -3.0 %

apical < 3.0 %



not used

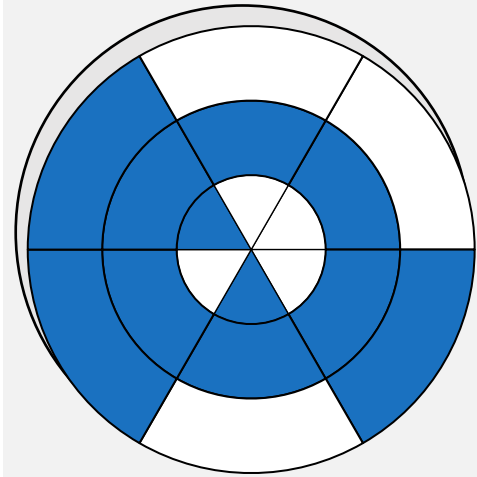
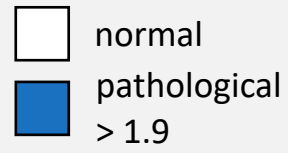


T2STIR

Caudal 2.0

Mid 1.9

Apical 1.2

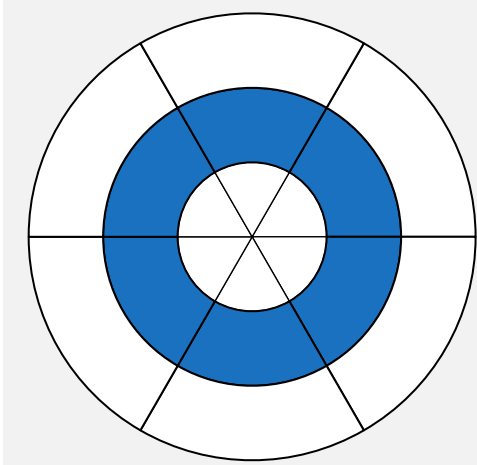
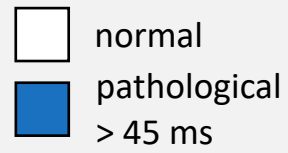


T2 Mapping

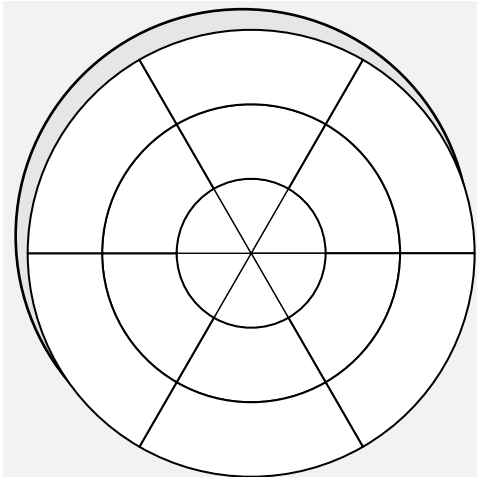
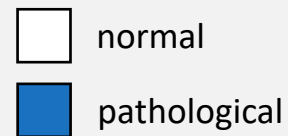
Basal 44.0 ± 3.55 ms

Mid 43.3 ± 4.6 ms

Apical 43.5 ± 8.4 ms



EGE

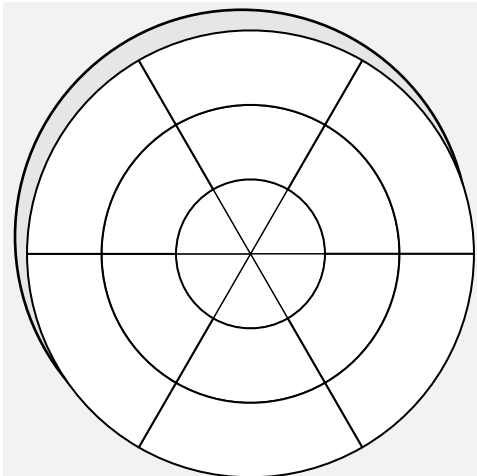
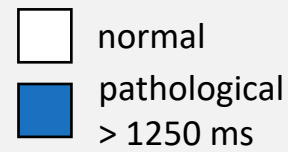


T1 Mapping

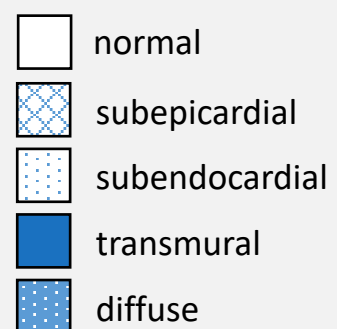
Basal 1189 ± 112.0 ms

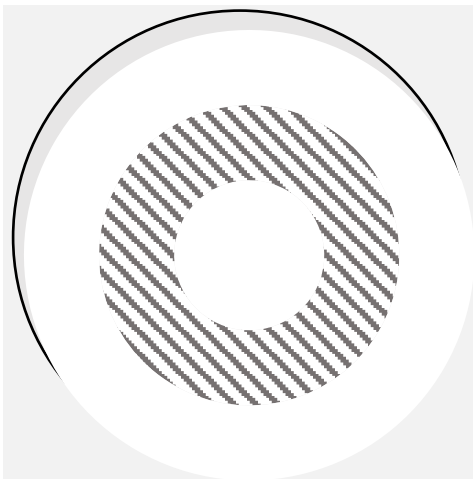
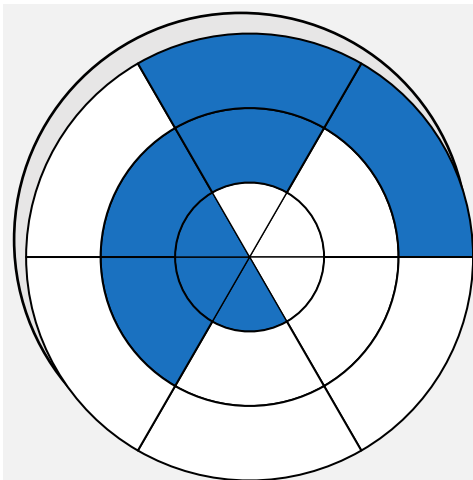
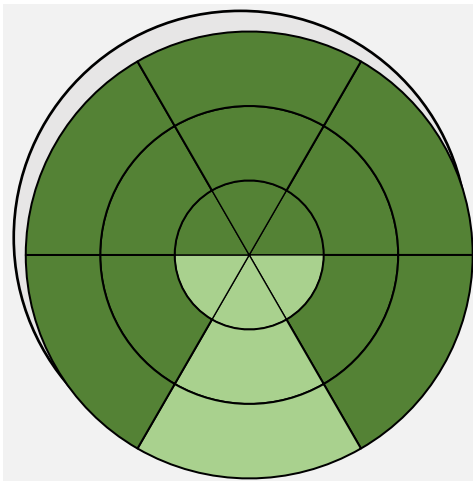
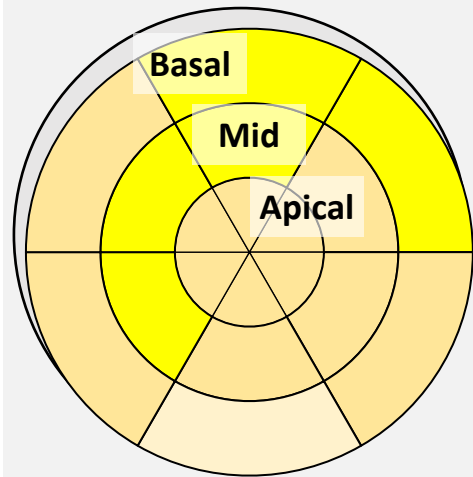
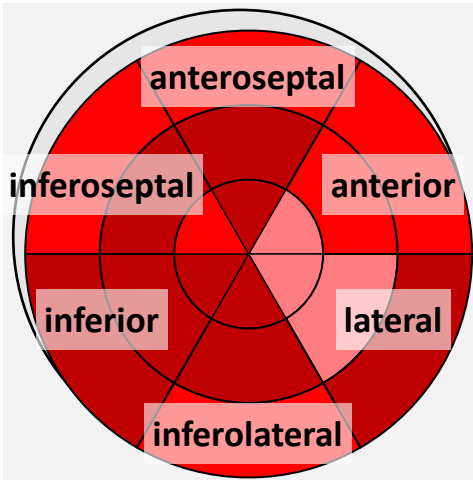
Mid 1205 ± 106.0 ms

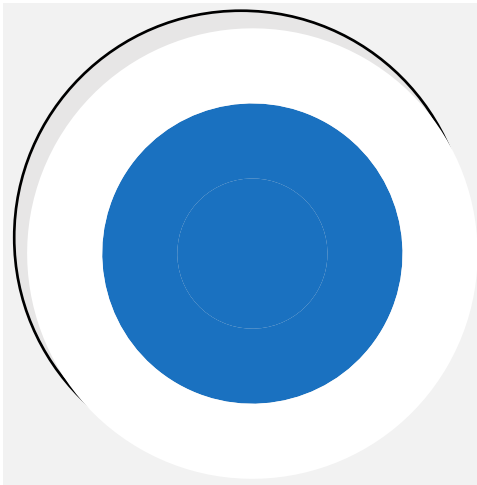
Apical 1184 ± 58.0 ms



LGE





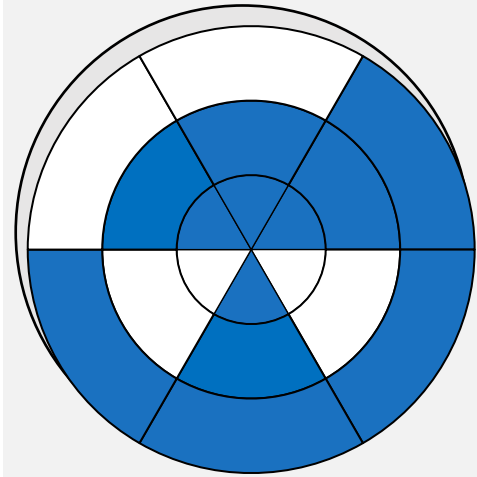
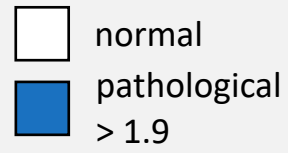


T2STIR

Caudal 1.64

Mid 2.64

Apical 3.22

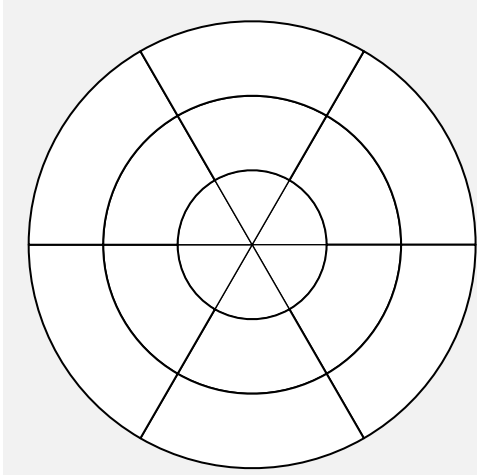
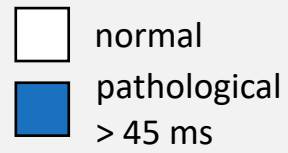


T2 Mapping

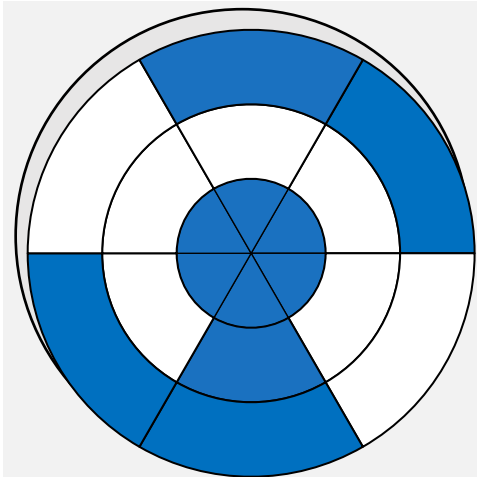
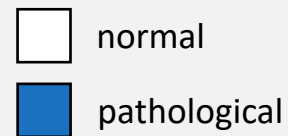
Basal 48.9 ± 8.6 ms

Mid 45.6 ± 7.0 ms

Apical 49.4 ± 6.5 ms



EGE

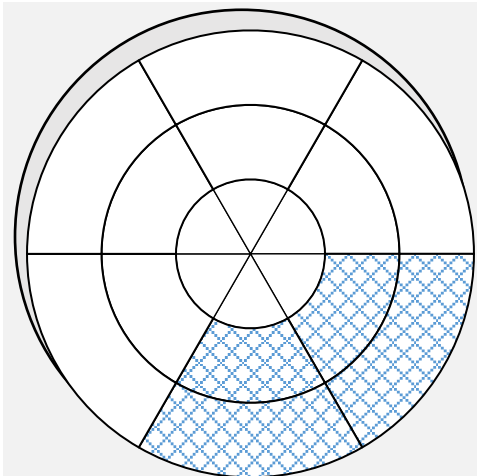
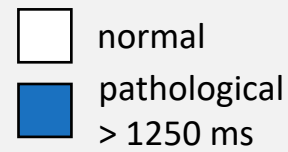


T1 Mapping

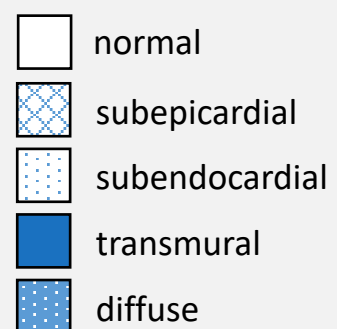
Basal 1254 ± 92 ms

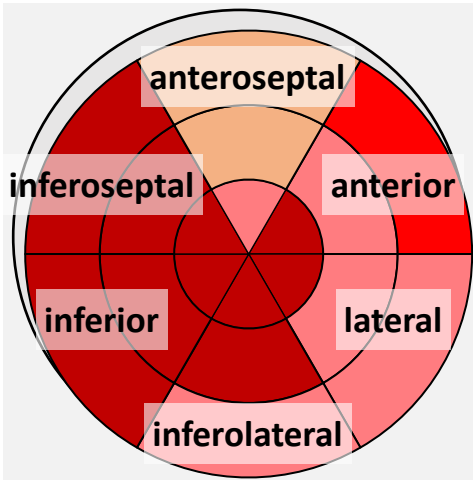
Mid 1228 ± 89.0 ms

Apical 1406 ± 79.0 ms



LGE



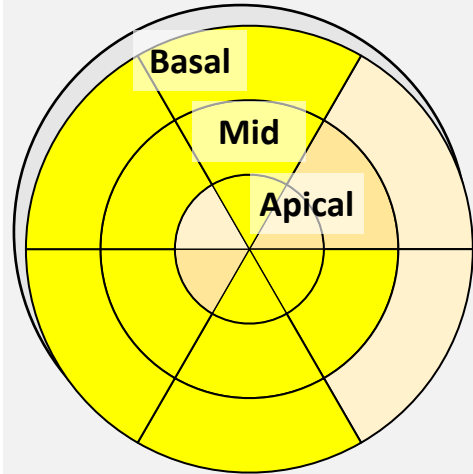
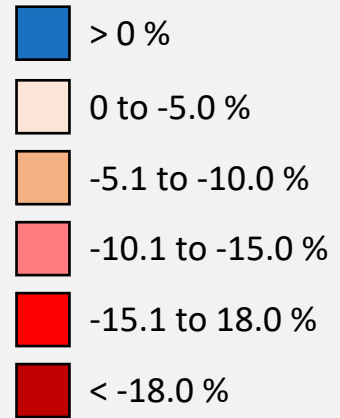


GLS

Basal $-14.4 \pm 5.1 \%$

Mid $-16.5 \pm 8.0 \%$

Apical $-20.8 \pm 8.0 \%$

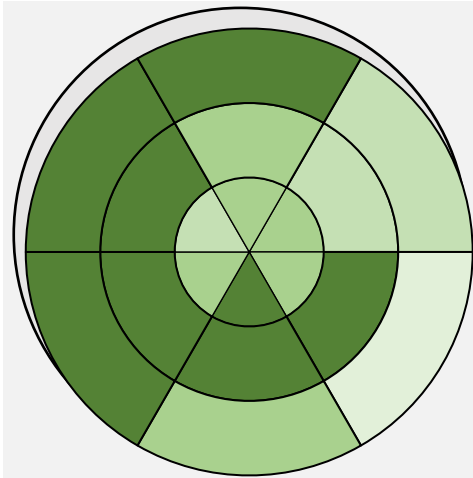
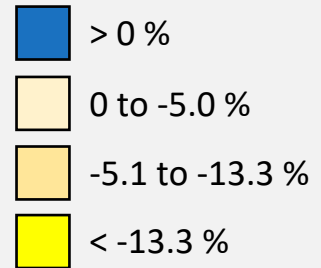


CS Epicard

Basal $-13.5 \pm 8.0 \%$

Mid $-19.4 \pm 8.5 \%$

Apical $-13.0 \pm 6.6 \%$

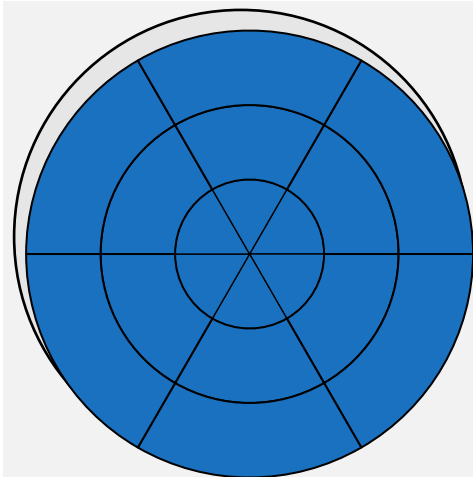
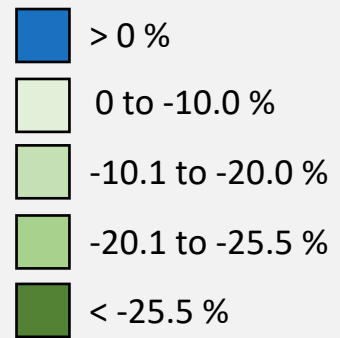


CS Endocard

Basal $-23.0 \pm 10.4 \%$

Mid $-31.0 \pm 11.7 \%$

Apical $-23.1 \pm 8.7 \%$

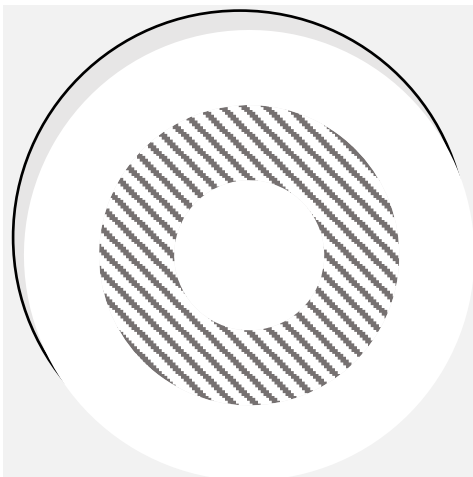
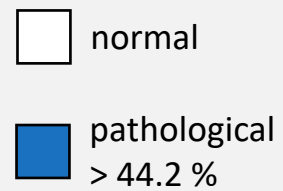


Radial

Basal $19.6 \pm 1.9 \%$

Mid $32.2 \pm 2.2 \%$

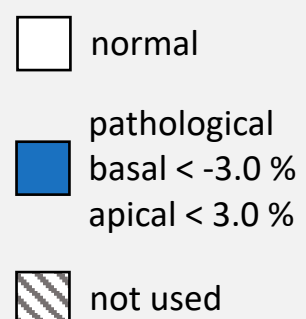
Apical $35.3 \pm 3.4 \%$



Rotation

Basal $-3.3 \pm 4.7 \%$

Apical $12.2 \pm 3.7 \%$

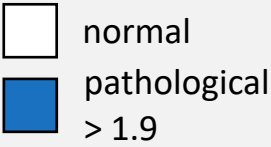


T2STIR

Caudal 1.9

Mid 2.2

Apical 2.2

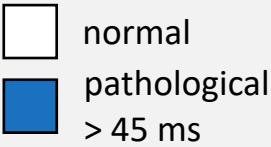


T2 Mapping

Basal 53.1 ± 13.0 ms

Mid 47.8 ± 9.2 ms

Apical 50.5 ± 7.6 ms



EGE

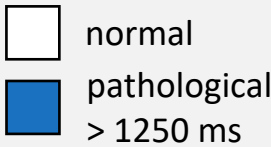


T1 Mapping

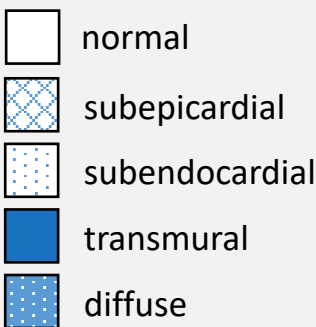
Basal 1311 ± 99.0 ms

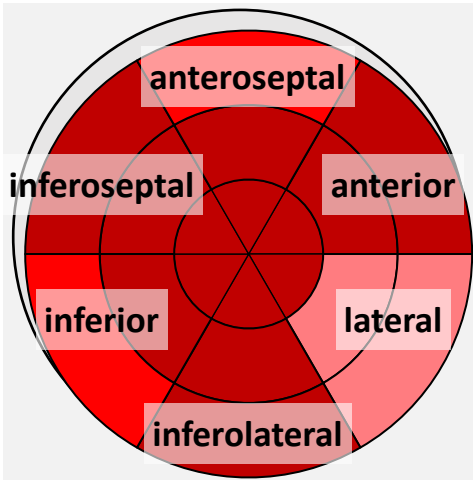
Mid 1283 ± 77.0 ms

Apical 1320 ± 89.0 ms



LGE



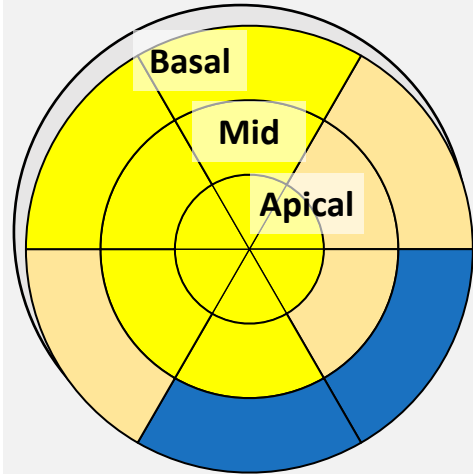
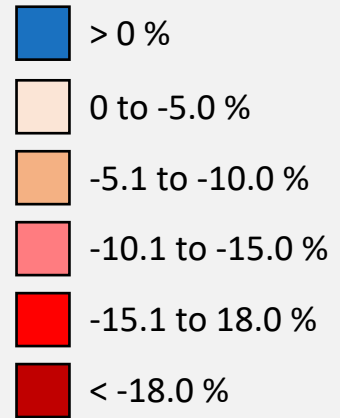


GLS

Basal $-18.4 \pm 3.7 \%$

Mid $-19.1 \pm 4.0 \%$

Apical $-24.6 \pm 2.5 \%$

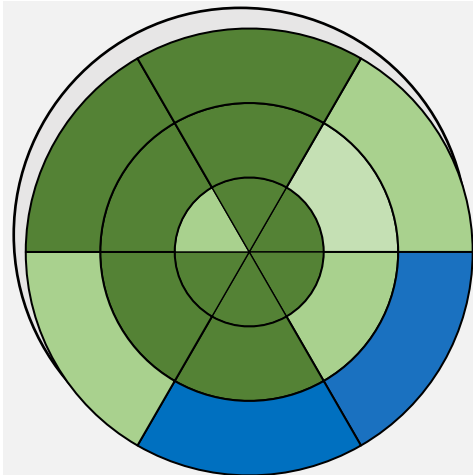
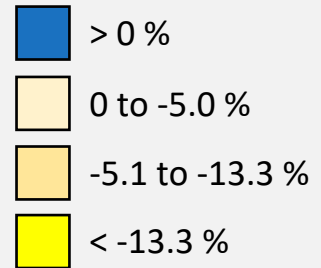


CS Epicard

Basal $-8.6 \pm 19.6 \%$

Mid $-18.1 \pm 1.9 \%$

Apical $-19.6 \pm 3.4 \%$

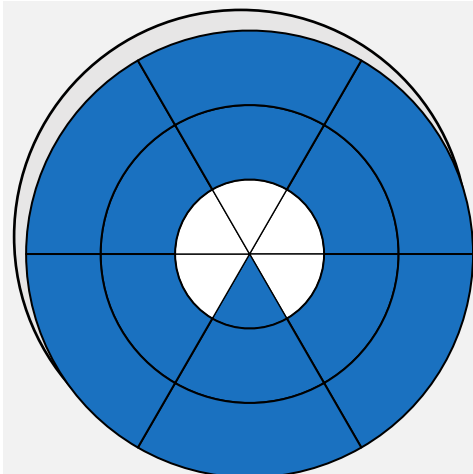
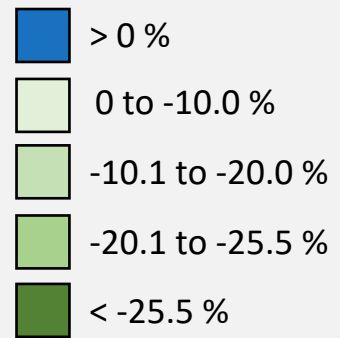


CS Endocard

Basal $-18.4 \pm 26.9 \%$

Mid $-32.4 \pm 14.2 \%$

Apical $-34.2 \pm 6.6 \%$

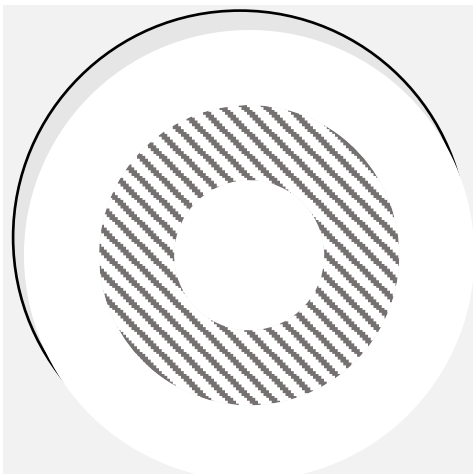
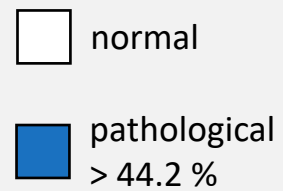


Radial

Basal $23.2 \pm 4.3 \%$

Mid $32.5 \pm 2.6 \%$

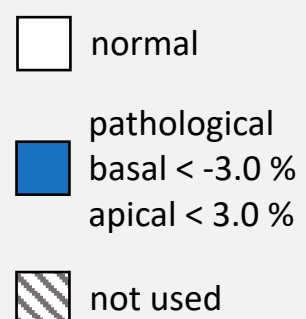
Apical $50.1 \pm 6.5 \%$



Rotation

Basal $-5.5 \pm 6.1 \%$

Apical $10.8 \pm 3.4 \%$



T2STIR

Caudal 2.38

Mid 2.32

Apical 3.87



normal



pathological
> 1.9

T2 Mapping

Basal 46.7 ± 7.7 ms

Mid 50.1 ± 11.4 ms

Apical 53.5 ± 12.0 ms



normal



pathological
> 45 ms

EGE



normal



pathological

T1 Mapping

Basal 1227 ± 159.0 ms

Mid 1263 ± 140.0 ms

Apical 1465 ± 329.0 ms



normal



pathological
> 1250 ms

LGE



normal



subepicardial



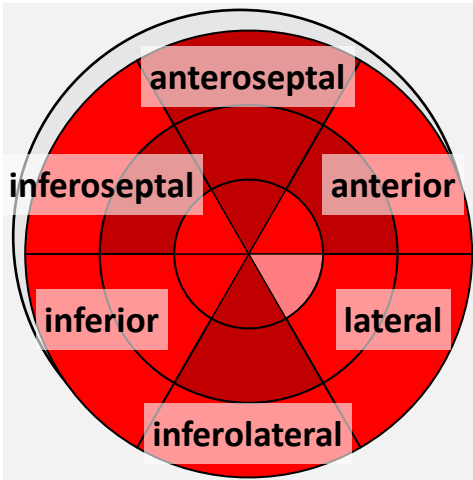
subendocardial



transmural



diffuse

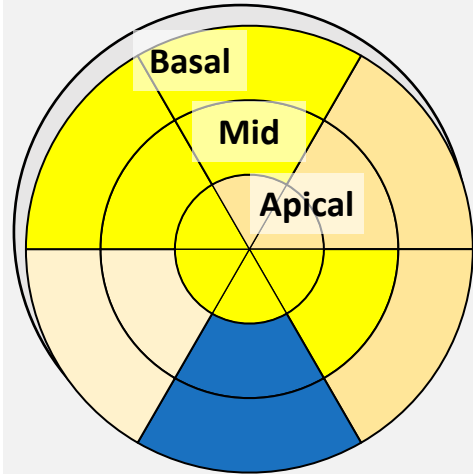
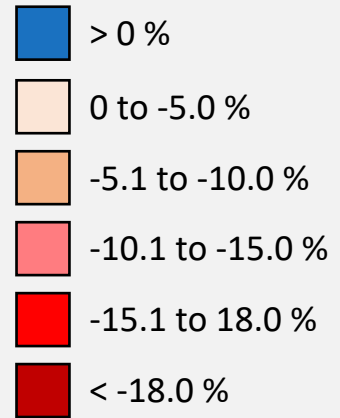


GLS

Basal $-17.1 \pm 1.5 \%$

Mid $-18.6 \pm 2.0 \%$

Apical $-18.3 \pm 4.3 \%$

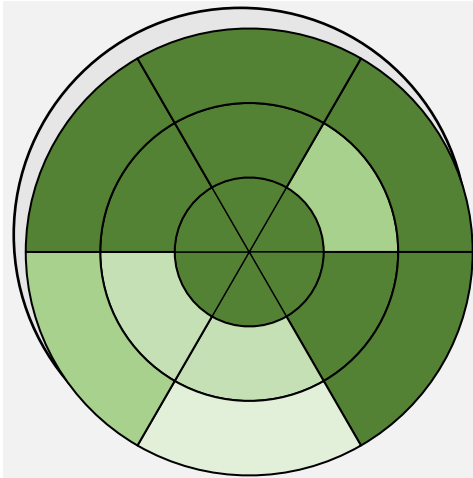
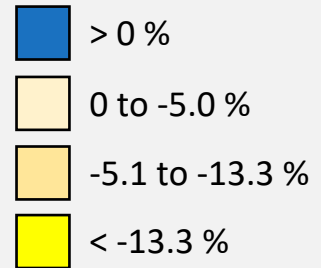


CS Epicard

Basal $-9.9 \pm 11.2 \%$

Mid $-10.9 \pm 10.3 \%$

Apical $-15.6 \pm 3.0 \%$

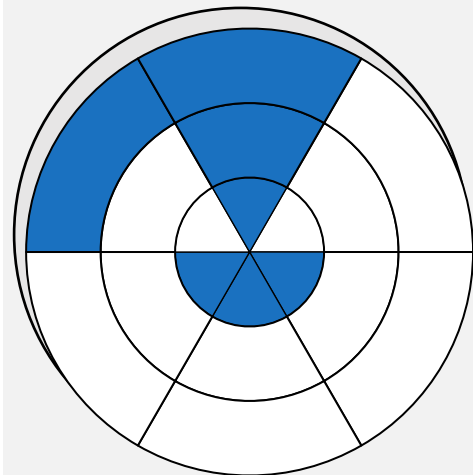
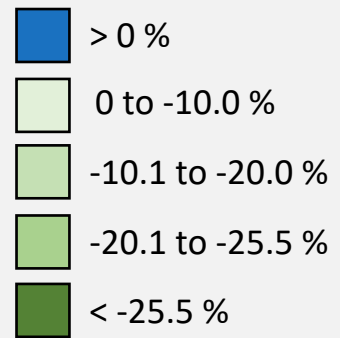


CS Endocard

Basal $-29.8 \pm 14.0 \%$

Mid $-27.3 \pm 11.1 \%$

Apical $-33.5 \pm 4.0 \%$

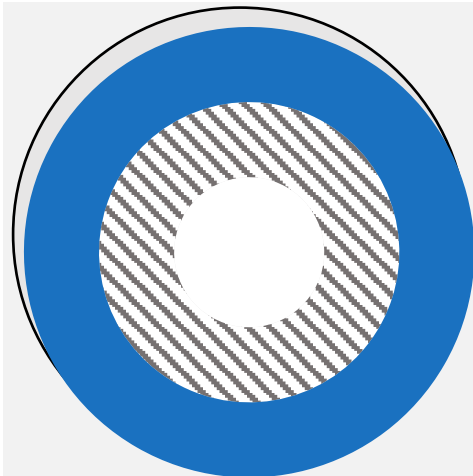
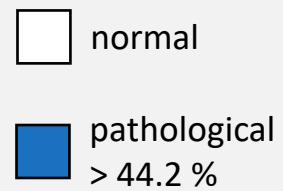


Radial

Basal $50.2 \pm 8.7 \%$

Mid $44.6 \pm 7.8 \%$

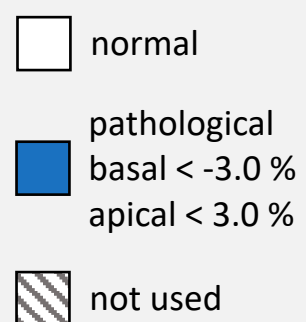
Apical $44.2 \pm 1.0 \%$



Rotation

Basal $-1.8 \pm 4.6 \%$

Apical $6.9 \pm 1.4 \%$



T2STIR

Caudal 2.49

Mid 3.3

Apical 4.4



normal



pathological
> 1.9

T2 Mapping

Basal 43.8 ± 6.4 ms

Mid 45.1 ± 4.3 ms

Apical 46.2 ± 6.9 ms



normal



pathological
> 45 ms

EGE



normal



pathological

T1 Mapping

Basal 1238 ± 86.0 ms

Mid 1276 ± 91.0 ms

Apical 1265 ± 88.0 ms



normal



pathological
> 1250 ms

LGE



normal



subepicardial



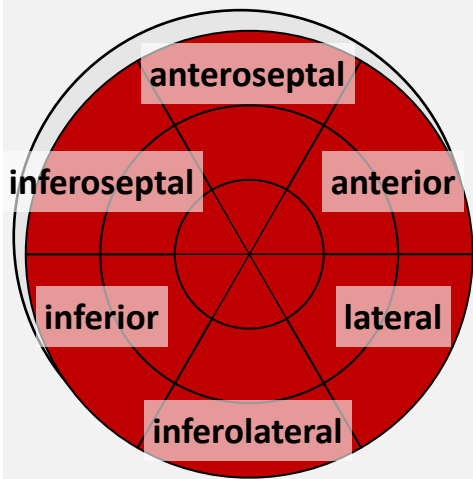
subendocardial



transmural



diffuse

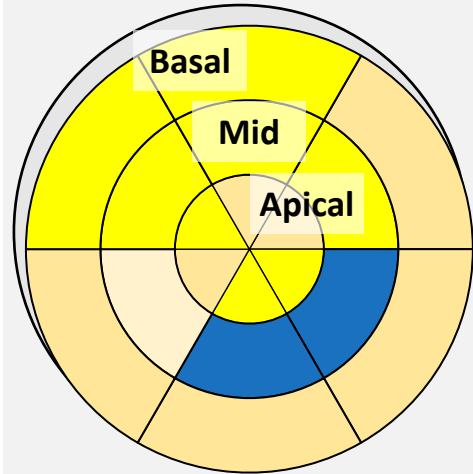
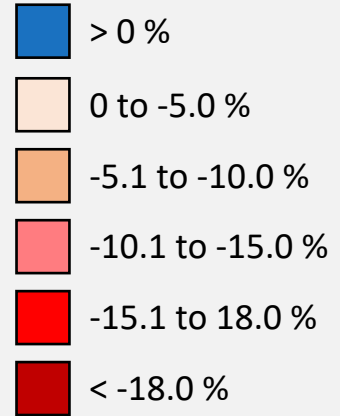


GLS

Basal $-22.4 \pm 4.0 \%$

Mid $-24.1 \pm 2.7 \%$

Apical $-30.2 \pm 1.6 \%$

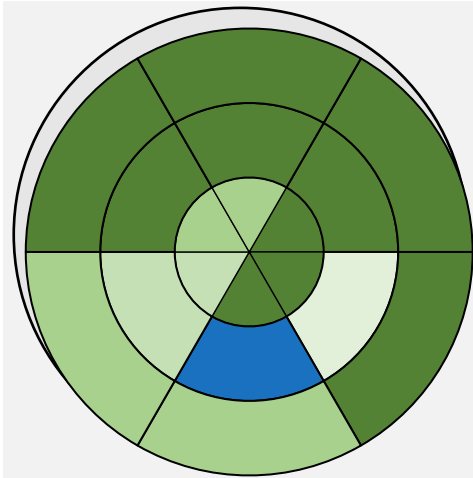
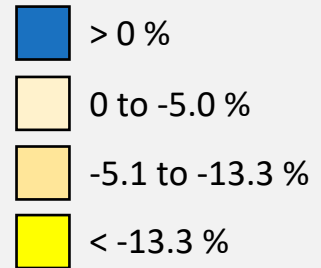


CS Epicard

Basal $-12.8 \pm 5.4 \%$

Mid $-7.32 \pm 19.53 \%$

Apical $-13.6 \pm 2.4 \%$

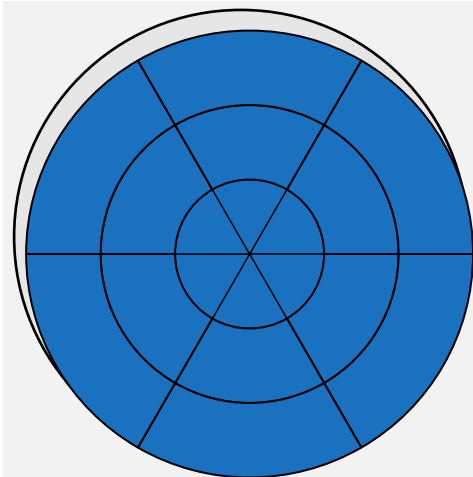
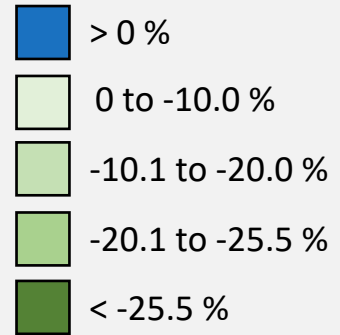


CS Endocard

Basal $-31.2 \pm 9.6 \%$

Mid $-18.01 \pm 26.33 \%$

Apical $-26.1 \pm 7.4 \%$

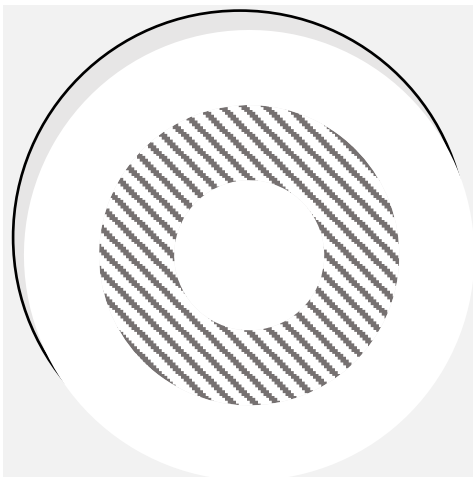
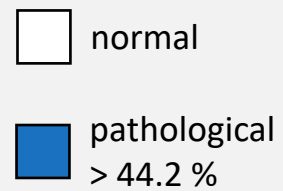


Radial

Basal $13.5 \pm 1.8 \%$

Mid $8.6 \pm 5.2 \%$

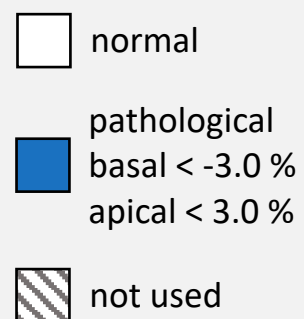
Apical $19.8 \pm 1.1 \%$

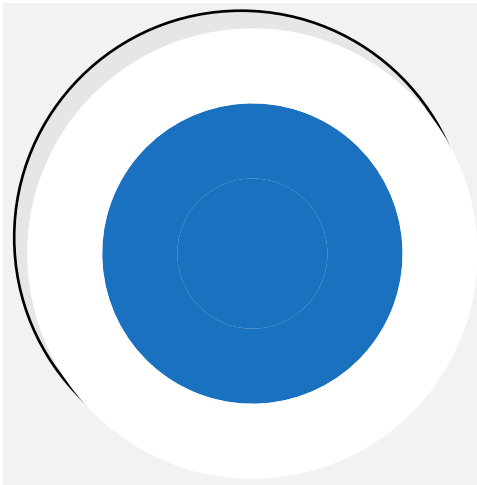


Rotation

Basal $-3.6 \pm 3.7 \%$

Apical $7.7 \pm 6.3 \%$





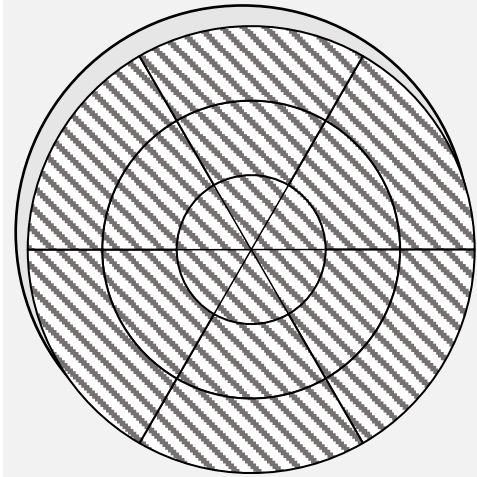
T2STIR

Caudal 1.7

Mid 2.7

Apical 3.75

- normal
- pathological > 1.9



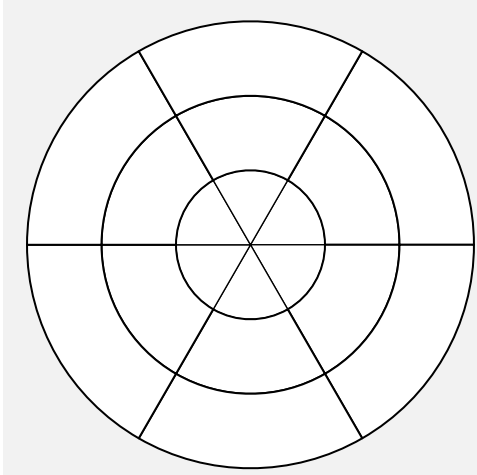
T2 Mapping

Basal not used

Mid not used

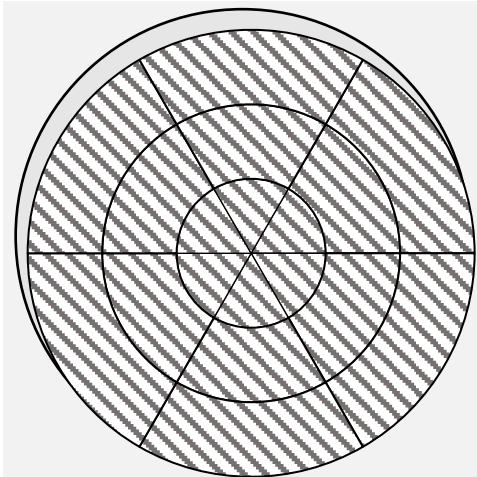
Apical not used

- normal
- pathological > 45 ms



EGE

- normal
- pathological



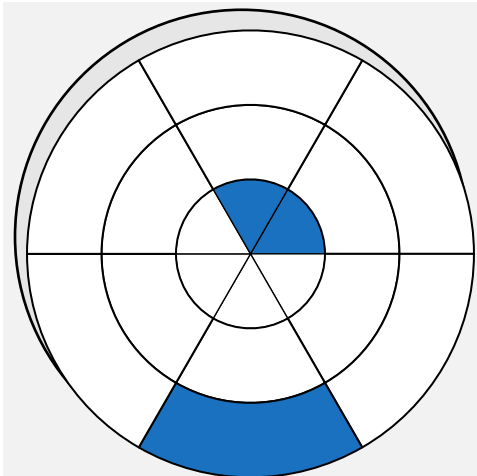
T1 Mapping

Basal not used

Mid not used

Apical not used

- normal
- pathological > 1250 ms



LGE

- normal
- subepicardial
- subendocardial
- transmural
- diffuse