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| **Supplementary Table 1** Deformation results from tissue tracking in the subgroup of patients who underwent cardiac magnetic resonance imaging ≤15 days after the acute event. |
|  | All patients (n=19) |
| Systolic TT parameters | Strain (%) | Radial | BasalMidApicalGlobal | 32.2±13.427.4±12.435.9±14.030.8±11.6 |
| Circumferential | BasalMidApicalGlobal | -17.3±4.0-15.9±4.7-19.2±5.3-17.1±4.5 |
| Longitudinal | 4-chamber2-chamber3-chamberGlobal | -16.7±4.0-16.9±3.9-16.2±3.3-16.5±3.4 |
| Strain rate (s-1) | Radial | BasalMidApicalGlobal | 2.2±0.91.7±0.82.3±0.91.9±0.7 |
| Circumferential | BasalMidApicalGlobal | -1.1±0.4-1.0±0.3-1.4±0.5-1.1±0.3 |
| Longitudinal | 4-chamber2-chamber3-chamberGlobal | -1.0±0.2-1.0±0.2-1.0±0.2-0.9±0.2 |
| Velocity (mm/s) | Radial | BasalMidApicalGlobal | 44.4±12.334.6±8.935.8±9.536.7±8.1 |
| Longitudinal | 4-chamber2-chamber3-chamberGlobal | 44.0±15.641.1±23.050.4±14.838.0±11.4 |
| Displacement (mm) | Radial | BasalMidApicalGlobal | 6.7±1.35.5±1.45.4±1.65.8±1.3 |
| Longitudinal | 4-chamber2-chamber3-chamberGlobal | 5.0±2.36.6±2.56.1±1.75.8±1.8 |
| Diastolic TT parameters | Strain rate (s-1) | Radial | BasalMidApicalGlobal | -3.0±1.2-1.9±1.2-3.0±1.2-2.2±1.0 |
| Circumferential | BasalMidApicalGlobal | 1.3±0.51.1±0.51.7±0.71.1±0.5 |
| Longitudinal | 4-chamber2-chamber3-chamberGlobal | 1.2±0.31.1±0.31.0±0.31.1±0.2 |
| Data are presented as mean ± SD. TT: tissue tracking. |

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| 1. **Supplementary Table 2** Correlations between global myocardial deformation parameters and extent of left ventricular regional wall motion abnormalities, left ventricular late gadolinium enhancement and left ventricular ejection fraction, in patients who underwent cardiac magnetic resonance imaging ≤15 days after the acute event (n=19). In this subgroup, significant correlations are still found between both LV WMA and LVEF and most myocardial deformation parameters, while LV LGE was not significantly correlated with any myocardial deformation parameter.
 |
|  | 1. % LV WMA
 | 1. % LV LGE
 | 1. LVEF
 |
| 1. Systolic TT parameters
 | 1. Strain (%)
 | 1. Radial
 | 1. r=-0.76
2. p<0.001
 | 1. r=-0.06
2. p=0.798
 | 1. r=0.81
2. p<0.001
 |
| 1. Circumferential
 | 1. r=0.78
2. p<0.001
 | 1. r=0.07
2. p=0.781
 | 1. r=-0.79
2. p<0.001
 |
| 1. Longitudinal
 | 1. r=0.68
2. p=0.001
 |  | 1. r=-0.64
2. p=0.003
 |
| 1. Strain rate (s-1)
 | 1. Radial
 | 1. r=-0.72
2. p<0.001
 | 1. r=0.07
2. p=0.790
 | 1. r=0.69
2. p=0.001
 |
| 1. Circumferential
 | 1. r=0.50
2. p=0.030
 |  | 1. r=-0.51
2. p=0.026
 |
| 1. Longitudinal
 | 1. r=0.57
2. p=0.011
 |  | 1. r=-0.39
2. p=0.100
 |
| 1. Velocity (mm/s)
 | 1. Radial
 | 1. r=-0.45
2. p=0.052
 |  | 1. r=0.38
2. p=0.105
 |
| 1. Longitudinal
 | 1. r=-0.30
2. p=0.215
 |  | 1. r=-0.30
2. p=0.215
 |
| 1. Displacement (mm)
 | 1. Radial
 | 1. r=-0.81
2. p<0.001
 | 1. r=-0.06
2. p=0.819
 | 1. r=0.81
2. p<0.001
 |
| 1. Longitudinal
 | 1. r=-0.28
2. p=0.248
 |  | 1. r=0.27
2. p=0.273
 |
| 1. Diastolic TT parameters
 | 1. Strain rate (s-1)
 | 1. Radial
 | 1. r=0.58
2. p=0.010
 |  | 1. r=-0.71
2. p=0.001
 |
| 1. Circumferential
 | 1. r=-0.40
2. p=0.094
 |  | 1. r=0.56
2. p=0.013
 |
| 1. Longitudinal
 | 1. r=-0.39
2. p=0.103
 |  | 1. r=0.48
2. p=0.039
 |
| 1. Correlation analysis was performed using Spearman’s rank correlation coefficient (r).
2. LGE: late gadolinium enhancement; LV: left ventricular; LVEF: left ventricular ejection fraction; TT: tissue tracking; WMA: wall motion abnormalities.
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