

Table Supp2: Findings of regional strain rate and myocardial velocity analysis of DD+ and DD-.

BASAL	anterior			anterolateral			inferolateral			inferior			inferoseptal			anteroseptal		
	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p
TPM																		
Vr Peak, cm/s	-3.9 ± 1.6	-3.6 ± 1.6	0.585	-2.5 ± 1.0	-2.2 ± 0.8	0.306	-3.6 ± 0.7	-2.8 ± 1.0	0.017*	-3.4 ± 1.0	-3.4 ± 2.1	0.357	-4.0 ± 1.7	-4.1 ± 1.5	0.707	-5.5 ± 1.8	-5.0 ± 2.5	0.539
Vz Peak, cm/s	-6.1 ± 2.3	-5.0 ± 2.4	0.195	-5.0 ± 1.8	-3.4 ± 1.4	0.006*	-4.7 ± 1.6	-3.7 ± 1.4	0.065	-5.3 ± 1.5	-4.4 ± 1.8	0.207	-6.8 ± 1.8	-5.7 ± 2.4	0.060	-7.2 ± 2.4	-6.9 ± 3.8	0.562
Tissue Tracking																		
Err E, %/s	-7.9 ± 5.4	-7.9 ± 3.7	0.808	-13.1 ± 6.4	-9.4 ± 4.0	0.126	-14.1 ± 6.5	-10.9 ± 5.9	0.043*	-7.0 ± 4.4	-5.9 ± 3.4	0.620	-	-	-	-	-	-
Err A, %/s	-3.9 ± 1.3	-3.4 ± 1.5	0.544	-4.2 ± 1.6	-3.1 ± 1.4	0.037*	-4.6 ± 1.3	-3.7 ± 1.4	0.054	-3.5 ± 1.3	-3.8 ± 2.3	0.967	-	-	-	-	-	-
Err max, %/s	-8.9 ± 4.9	-7.8 ± 3.5	0.587	-15.6 ± 8.0	-9.8 ± 3.9	0.019*	-14.1 ± 6.4	-11.6 ± 5.9	0.172	-7.2 ± 4.0	-6.6 ± 3.5	0.742	-3.7 ± 1.0	-3.9 ± 1.7	0.856	-4.9 ± 2.4	-4.2 ± 1.6	0.587
Ecc E, %/s	2.2 ± 0.8	2.5 ± 0.9	0.387	3.7 ± 1.9	3.6 ± 2.0	0.715	3.9 ± 2.2	3.9 ± 2.4	0.917	3.0 ± 1.2	2.6 ± 0.6	0.192	-	-	-	-	-	-
Ecc A, %/s	3.3 ± 0.8	3.0 ± 1.2	0.407	3.5 ± 1.2	2.5 ± 0.8	0.048*	3.8 ± 1.2	2.8 ± 0.8	0.007*	3.1 ± 1.2	2.5 ± 0.9	0.248	-	-	-	-	-	-
Ecc max, %/s	3.4 ± 0.8	3.2 ± 1.0	0.542	4.6 ± 1.6	3.8 ± 1.7	0.100	4.5 ± 2.0	4.4 ± 1.9	0.830	3.7 ± 1.0	3.4 ± 1.1	0.383	3.4 ± 1.4	2.9 ± 1.2	0.401	2.9 ± 0.9	3.1 ± 1.0	0.449
Tagging SPAMM																		
Ecc Peak, %/s	62.2 ± 17.6	60.3 ± 18.3	0.729	72.6 ± 29.5	59.3 ± 15.8	0.182	68.4 ± 28.7	55.9 ± 20.3	0.172	69.3 ± 23.3	62.7 ± 24.3	0.830	53.8 ± 22.0	44.8 ± 17.7	0.205	51.9 ± 20.7	43.6 ± 20.0	0.315
Tagging CSPAMM																		
Ecc Peak, %/s	75.5 ± 19.3	67.1 ± 17.3	0.312	73.2 ± 26.4	71.0 ± 19.3	0.763	67.1 ± 27.1	72.1 ± 22.8	0.710	73.6 ± 23.0	65.4 ± 26.8	0.583	56.0 ± 22.9	54.6 ± 20.9	0.958	54.2 ± 13.4	48.4 ± 17.1	0.366

MEDIAL	anterior			anterolateral			inferolateral			inferior			inferoseptal			anteroseptal		
	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p
TPM																		
Vr Peak, cm/s	-3.7 ± 0.9	-3.6 ± 1.3	0.685	-3.0 ± 1.0	-3.2 ± 1.2	0.796	-4.1 ± 0.9	-3.4 ± 1.3	0.065	-3.2 ± 0.8	-2.9 ± 0.8	0.606	-3.5 ± 1.3	-3.3 ± 0.9	0.912	-3.9 ± 0.9	-3.5 ± 1.3	0.320
Vz Peak, cm/s	-4.5 ± 1.4	-3.2 ± 1.4	0.027*	-3.7 ± 1.1	-3.1 ± 1.0	0.105	-3.4 ± 1.4	-3.0 ± 1.2	0.531	-3.9 ± 1.4	-3.2 ± 1.4	0.113	-4.6 ± 1.7	-3.8 ± 1.1	0.105	-4.6 ± 1.2	-3.8 ± 1.7	0.320
Tissue Tracking																		
Err E, %/s	-7.0 ± 2.9	-8.6 ± 5.4	0.429	-10.0 ± 5.6	-8.3 ± 3.9	0.251	-10.0 ± 5.1	-7.5 ± 3.6	0.098	-5.5 ± 2.6	-4.7 ± 1.2	0.433	-4.1 ± 1.8	-3.8 ± 1.4	0.605	-5.4 ± 2.5	-5.6 ± 1.9	0.501
Err A, %/s	-3.9 ± 1.3	-3.6 ± 1.2	0.985	-4.2 ± 1.4	-3.8 ± 1.7	0.251	-4.4 ± 1.6	-3.7 ± 1.4	0.191	-4.1 ± 1.5	-3.4 ± 0.8	0.145	-3.2 ± 1.5	-3.0 ± 1.6	0.698	-2.9 ± 0.8	-3.2 ± 1.7	0.736
Err max, %/s	-8.7 ± 3.2	-9.2 ± 4.8	0.961	-10.9 ± 5.0	-8.4 ± 3.8	0.068	-10.4 ± 4.7	-7.8 ± 3.5	0.065	-5.9 ± 2.4	-5.1 ± 1.8	0.469	-5.0 ± 2.5	-4.4 ± 1.4	0.621	-6.6 ± 2.8	-6.4 ± 1.7	0.621
Ecc E, %/s	2.7 ± 1.1	2.6 ± 0.8	0.672	3.4 ± 1.5	3.6 ± 1.7	0.754	3.1 ± 1.4	3.3 ± 0.9	0.313	2.3 ± 1.0	2.4 ± 0.4	0.354	2.3 ± 0.8	2.3 ± 0.6	0.964	2.9 ± 1.3	2.6 ± 1.0	0.606
Ecc A, %/s	3.5 ± 1.0	3.1 ± 1.2	0.508	3.7 ± 1.0	3.4 ± 1.5	0.266	3.3 ± 1.1	3.2 ± 2.0	0.614	3.5 ± 1.2	3.2 ± 1.0	0.377	2.5 ± 1.1	2.8 ± 1.2	0.637	2.7 ± 0.8	2.9 ± 1.8	0.781
Ecc max, %/s	3.9 ± 1.2	3.2 ± 0.9	0.103	4.3 ± 1.3	4.3 ± 1.6	0.693	4.0 ± 1.2	4.1 ± 1.4	0.878	3.7 ± 1.3	3.1 ± 0.9	0.217	3.2 ± 1.4	3.2 ± 1.0	0.921	3.3 ± 1.1	3.4 ± 1.5	0.908
Tagging SPAMM																		
Ecc Peak, %/s	83.2 ± 19.3	72.0 ± 22.5	0.430	69.7 ± 19.9	65.6 ± 23.7	0.610	72.9 ± 23.0	68.5 ± 26.4	0.439	77.0 ± 24.6	63.0 ± 21.6	0.134	59.1 ± 22.0	54.6 ± 18.0	0.705	51.9 ± 14.6	58.1 ± 20.9	0.420
Tagging CSPAMM																		
Ecc Peak, %/s	83.9 ± 22.9	72.0 ± 20.4	0.113	71.9 ± 24.6	66.8 ± 28.2	0.719	77.0 ± 32.4	76.8 ± 26.1	0.665	74.8 ± 28.2	66.7 ± 20.8	0.471	54.8 ± 27.1	60.0 ± 16.8	0.368	56.6 ± 23.9	54.1 ± 19.0	0.943

APICAL	anterior			lateral			inferior			septal								
	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p						
TPM																		
Vr Peak, cm/s	-3.2 ± 0.7	-3.2 ± 1.2	0.689	-3.4 ± 1.0	-3.2 ± 0.7	0.337	-2.9 ± 0.7	-3.1 ± 1.0	0.471	-3.5 ± 0.5	-3.3 ± 1.6	0.230						
Vz Peak, cm/s	-2.5 ± 0.9	-2.1 ± 0.9	0.325	-2.3 ± 0.9	-1.9 ± 1.3	0.149	-3.1 ± 1.4	-2.2 ± 1.5	0.031*	-2.9 ± 0.9	-2.7 ± 1.1	0.691						
Tissue Tracking																		
Err E, %/s	-9.1 ± 4.2	-7.6 ± 3.1	0.393	-8.4 ± 3.6	-7.1 ± 2.1	0.309	-6.9 ± 3.4	-5.7 ± 2.1	0.393	-7.0 ± 3.4	-6.4 ± 1.2	0.839						
Err A, %/s	-5.1 ± 2.0	-3.2 ± 1.2	0.012*	-5.1 ± 1.8	-4.1 ± 1.7	0.113	-3.4 ± 1.2	-3.2 ± 1.4	0.951	-3.4 ± 1.5	-4.0 ± 1.4	0.393						
Err max, %/s	-10.2 ± 4.1	-9.0 ± 2.4	0.567	-10.3 ± 3.8	-7.5 ± 2.4	0.070	-8.9 ± 4.9	-6.5 ± 1.4	0.086	-9.3 ± 6.8	-7.7 ± 1.8	0.819						
Ecc E, %/s	2.5 ± 0.9	3.1 ± 1.3	0.238	2.6 ± 0.6	3.3 ± 1.2	0.117	2.7 ± 1.1	2.7 ± 0.7	0.569	2.8 ± 0.9	2.8 ± 0.8	0.515						
Ecc A, %/s	3.7 ± 1.1	2.6 ± 0.8	0.006*	4.3 ± 1.2	3.8 ± 1.9	0.329	3.0 ± 0.9	3.0 ± 1.4	0.776	3.0 ± 1.1	3.5 ± 1.8	0.597						
Ecc max, %/s	3.9 ± 0.9	3.7 ± 1.0	0.492	4.4 ± 1.1	4.1 ± 1.6	0.445	3.3 ± 1.1	3.4 ± 1.0	0.674	3.5 ± 1.1	3.9 ± 1.6	0.674						
APICAL	anterior			anterolateral			inferolateral			inferior			inferoseptal			anteroseptal		
	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p	DD-	DD+	p
Tagging SPAMM																		
Ecc Peak, %/s	82.4 ± 25.1	84.1 ± 15.7	0.987	81.9 ± 29.5	68.1 ± 14.6	0.229	69.6 ± 24.8	68.8 ± 45.9	0.282	86.0 ± 26.1	72.4 ± 29.9	0.126	66.3 ± 23.1	66.2 ± 35.2	0.633	58.8 ± 22.1	61.3 ± 29.3	0.805
Tagging CSPAMM																		
Ecc Peak, %/s	83.0 ± 23.1	73.6 ± 22.6	0.369	81.3 ± 28.6	74.0 ± 21.4	0.575	75.6 ± 34.1	71.8 ± 27.8	0.970	87.5 ± 27.8	86.4 ± 38.5	0.653	72.9 ± 33.5	61.6 ± 30.0	0.432	62.2 ± 22.3	51.9 ± 27.8	0.525

Data are shown as mean ± standard deviation. Significant differences are highlighted as * for p<0.05. DD+ signifies patients with diastolic dysfunction, DD- patients without diastolic dysfunction, p p-value, Ecc circumferential strainrate, Err radial strainrate, Ell longitudinal strainrate, E Peak early diastole, A Peak late diastole, max maximum Peak during the whole diastolic phase, Vr radiale velocity, Vz longitudinal velocity.