

Table Supp1: strain rate, myocardial velocity, LV-, LA- and transmitral flow- analysis per slice

		DD-	DD+	p
<b>Tissue Tracking</b>				
Err preE, %/s	basal	-0.9 ± 0.8	-1.0 ± 0.6	0.533
	medial	-3.2 ± 2.2	-2.5 ± 1.2	0.339
	apical	-6.9 ± 4.0	-5.8 ± 2.3	0.918
Err E, %/s	basal	-4.8 ± 2.8	-3.7 ± 2.0	0.129
	medial	-4.2 ± 3.1	-4.0 ± 1.8	0.681
	apical	-6.0 ± 3.7	-5.4 ± 2.0	0.986
Err A, %/s	basal	-1.5 ± 0.6	-1.4 ± 0.6	0.932
	medial	-1.7 ± 0.5	-1.6 ± 0.7	0.821
	apical	-2.4 ± 1.1	-1.8 ± 0.9	0.188
Err E/A	basal	3.2 ± 1.7	5.1 ± 8.6	0.476
	medial	2.4 ± 1.3	4.5 ± 6.6	0.466
	apical	2.8 ± 1.2	4.2 ± 4.3	0.304
Ecc preE, %/s	basal	0.3 ± 0.2	0.4 ± 0.3	0.370
	medial	0.8 ± 0.3	0.7 ± 0.3	0.905
	apical	1.0 ± 0.6	1.0 ± 0.4	0.746
Ecc E, %/s	basal	1.4 ± 0.4	1.2 ± 0.4	0.172
	medial	1.5 ± 0.5	1.6 ± 0.5	0.598
	apical	2.0 ± 0.5	2.2 ± 0.8	0.633
Ecc A, %/s	basal	1.3 ± 0.5	1.1 ± 0.5	0.639
	medial	1.6 ± 0.4	1.3 ± 0.6	0.715
	apical	1.8 ± 0.7	1.6 ± 0.7	0.552
Ecc E/A	basal	1.3 ± 0.7	1.9 ± 2.7	0.862
	medial	1.1 ± 0.5	1.7 ± 1.8	0.702
	apical	1.3 ± 0.7	2.0 ± 2.4	0.368
Ell preE, %/s		0.6 ± 0.2	0.5 ± 0.3	0.330
Ell E, %/s		1.3 ± 0.3	1.2 ± 0.4	0.767
Ell A, %/s		1.3 ± 0.3	1.3 ± 0.6	0.627
Ell E/A		1.1 ± 0.4	1.4 ± 1.4	0.835
<b>Tagging-SPAMM</b>				
Ecc Peak, %/s	basal	58.4 ± 16.5	49.0 ± 13.6	0.110
	medial	65.5 ± 14.5	59.3 ± 15.8	0.270
	apical	69.2 ± 19.2	63.2 ± 23.2	0.365
Ell Peak, %/s		45.8 ± 12.0	34.8 ± 9.2	<b>0.022*</b>
<b>Tagging-CSPAMM</b>				
Ecc Peak, %/s	basal	61.8 ± 16.8	56.2 ± 18.0	0.583
	medial	65.6 ± 22.2	61.4 ± 18.8	0.564
	apical	71.2 ± 18.7	62.8 ± 19.8	0.369
Ell Peak, %/s		39.5 ± 10.1	37.4 ± 11.1	0.258
<b>TPM</b>				
Vr, cm/s	basal	-3.8 ± 0.9	-3.5 ± 1.1	0.609
	medial	-3.6 ± 0.7	-3.3 ± 0.8	0.418
	apical	-3.3 ± 0.5	-3.2 ± 0.9	0.968
Vz, cm/s	basal	-5.9 ± 1.6	-4.9 ± 2.0	0.142
	medial	-4.1 ± 1.1	-3.6 ± 1.0	0.071
	apical	-2.7 ± 0.5	-2.2 ± 1.0	<b>0.014*</b>

	DD-	DD+	p
<b>Left Ventricular Morphology</b>			
LVEDV, ml	122.6 ± 34.4	130.5 ± 32.4	0.429
LVEDV/BSA, ml/m <sup>2</sup>	63.7 ± 14.0	66.3 ± 14.9	0.639
LVEDV/H, ml/cm	0.7 ± 0.2	0.8 ± 0.2	0.320
LVESV, ml	39.3 ± 16.6	44.6 ± 15.9	0.349
LVESV/BSA, ml/m <sup>2</sup>	20.3 ± 7.4	22.6 ± 8.1	0.482
LVESV/H, ml/cm	0.2 ± 0.1	0.3 ± 0.1	0.254
SV, ml	83.3 ± 21.3	86.0 ± 22.2	0.548
EF, %	69.0 ± 7.6	66.0 ± 7.4	0.334
LVM, g	96.5 ± 29.9	110.2 ± 30.6	0.114
LVM/BSA, g/m <sup>2</sup>	49.9 ± 11.3	55.6 ± 12.3	0.079
LVM/H, g/cm	0.6 ± 0.1	0.7 ± 0.2	0.050
LVRI, g/ml	0.8 ± 0.1	0.9 ± 0.2	0.412
PapM, g	3.6 ± 1.6	3.8 ± 1.7	0.758
<b>Left Atrial Morphology</b>			
LA-EDV, ml	74.4 ± 17.2	93.3 ± 26.2	<b>0.014*</b>
LA-EDV/BSA, ml/m <sup>2</sup>	39.2 ± 8.9	46.6 ± 12.0	0.069
LA-EDV/H, ml/cm	0.4 ± 0.1	0.6 ± 0.1	<b>0.010*</b>
LA-SV, ml	38.7 ± 8.4	41.2 ± 13.0	0.578
LA-EF, %	52.67 ± 7.40	45.71 ± 13.06	0.151
LA-Area4 CV, mm <sup>2</sup>	20.1 ± 6.2	22.1 ± 5.4	0.169
LA-Area4CV/BSA, mm <sup>2</sup> /m <sup>2</sup>	10.6 ± 3.1	11.1 ± 2.6	0.578
LA-Area4CV/H, mm <sup>2</sup> /cm	0.12 ± 0.03	0.13 ± 0.03	0.195
LA-Area3CV  mm <sup>2</sup>	18.6 ± 3.8	22.3 ± 5.9	<b>0.033*</b>
LA-Area3CV/BSA  mm <sup>2</sup> /m <sup>2</sup>	9.8 ± 1.9	11.2 ± 2.6	0.135
LA-Area3CV/H   mm <sup>2</sup> /cm	0.11 ± 0.02	0.13 ± 0.03	<b>0.026*</b>
LA-Area2CV, mm <sup>2</sup>	20.4 ± 5.5	24.8 ± 5.8	<b>0.035*</b>
LA-Area2CV/BSA, mm <sup>2</sup> /m <sup>2</sup>	10.7 ± 2.9	12.5 ± 2.9	0.198
LA-Area2CV/H, mm <sup>2</sup> /cm	0.12 ± 0.03	0.15 ± 0.03	0.061
LA-Area-mean bi, mm <sup>2</sup>	20.2 ± 5.5	23.5 ± 4.8	0.084
LA-Area-mean bi/BSA, mm <sup>2</sup> /m <sup>2</sup>	10.7 ± 2.8	11.8 ± 2.4	0.334
LA-Area-mean bi/H, mm <sup>2</sup> /cm	0.12 ± 0.03	0.14 ± 0.03	0.079
LA-Area-mean tri, mm <sup>2</sup>	19.7 ± 4.6	23.1 ± 5.1	0.084
LA-Area-mean tri/BSA, mm <sup>2</sup> /m <sup>2</sup>	10.4 ± 2.3	11.6 ± 2.4	0.169
LA-Area-mean tri/H, mm <sup>2</sup> /cm	0.12 ± 0.03	0.13 ± 0.03	<b>0.046*</b>
LA-longDia4CV/BSA, mm <sup>2</sup> /m <sup>2</sup>	23.7 ± 6.1	26.0 ± 3.4	0.254
LA-longDia2CV/ BSA, mm <sup>2</sup> /m <sup>2</sup>	24.5 ± 6.1	26.6 ± 3.4	0.254
LA-transDia4CV/ BSA, mm <sup>2</sup> /m <sup>2</sup>	23.3 ± 3.7	22.0 ± 4.6	0.364
LA-transDia2CV/ BSA, mm <sup>2</sup> /m <sup>2</sup>	22.9 ± 2.6	23.1 ± 3.7	0.838
<b>PC-Flow</b>			
E, cm/s	0.50 ± 0.10	0.53 ± 0.13	0.583
A, cm/s	0.63 ± 0.15	0.59 ± 0.22	0.762
E/A	0.83 ± 0.25	1.10 ± 0.85	0.449

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, preE Peak during isovolumetric relaxation time, E Peak early diastole, A Peak late diastole, Vr radiale velocity, Vz longitudinal velocity, LV left ventricle, LA left atrium, EDV end-diastolic volume, ESV end-systolic volume, SV stroke volume, EF ejection fraction,

M mass, LVRI LV-remodelling index, LVM LV-mass, PapM papillary mass, 2-/3-/4-CV 2-/3-/4-chamber view, bi biplane, tri triplane, longDia longitudinal diameter, transDia transversal diameter, BSA body surface area, H body height