Additional file 1. Full list of measured and calculated parameters

Nr	Method	Parameter	Abbreviation	Dimension
1	PW-DMI: longitudinal axis	Peak systolic velocity Rest	S'rest	cm/s
2		Peak systolic velocity Stress	S'stress	cm/s
3		Peak systolic velocity (Stress - Rest)	S'stress - S'rest	cm/s
4		Peak systolic velocity [(Stress - Rest)/Rest]	(S'stress - S'rest)/S'rest	
5		Time to peak systolic velocity Rest	T to S'rest	ms
6		Time to peak systolic velocity Stress	T to S'stress	ms
7		Time to peak systolic velocity (Stress - Rest)	T to S'stress - T to S'rest	ms
8		Time to peak systolic velocity [(Stress - Rest)/Rest]	(T to S' _{stress} - T to S' _{rest})/T to S' _{rest}	
9		Peak post-systolic velocity Rest	PS' _{rest}	cm/s
10		Peak post-systolic velocity Stress	PS' _{stress}	cm/s
11		Peak post-systolic velocity (Stress - Rest)	PS'stress - PS'rest	cm/s
12		Peak post-systolic velocity [(Stress - Rest)/Rest]	(PS' _{stress} - PS' _{rest})/PS' _{rest}	
13		Peak E' wave velocity Rest	E'rest	cm/s
14		Peak E' wave velocity Stress	E'stress	cm/s

15		Peak A' wave velocity Rest	A'rest	cm/s
16		Peak A' wave velocity Stress	A' _{stress}	cm/s
17		E'/A' ratio Rest	E'/A' _{rest}	
18		E'/A' ratio Stress	E'/A' _{stress}	
19	CC-DMI: longitudinal axis	Peak systolic velocity Rest	S' _{rest}	cm/s
20		Peak systolic velocity Stress	S' _{stress}	cm/s
21		Peak systolic velocity (Stress - Rest)	S'stress - S'rest	cm/s
22		Peak systolic velocity [(Stress - Rest)/Rest]	(S'stress - S'rest)/S'rest	
23		Peak post-systolic velocity Rest	PS' _{rest}	cm/s
24		Peak post-systolic velocity Stress	PS'stress	cm/s
25		Peak post-systolic velocity (Stress - Rest)	PS' _{stress} - PS' _{rest}	cm/s
26		Peak post-systolic velocity [(Stress - Rest)/Rest]	(PS' _{stress} - PS' _{rest})/PS' _{rest}	
27		Peak E' wave velocity Rest	E' _{rest}	cm/s
28		Peak E' wave velocity Stress	E'stress	cm/s
29		Peak A' wave velocity Rest	A' _{rest}	cm/s
30		Peak A' wave velocity Stress	A' _{stress}	cm/s
31		E'/A' ratio Rest	E'/A' _{rest}	

32	E'/A' ratio Stress	E'/A'stress	
33	Peak systolic strain Rest	SS _{rest}	%
34	Peak systolic strain Stress	SS _{stress}	%
35	Peak systolic strain (Stress - Rest)	SS _{stress} - SS _{rest}	%
36	Peak systolic strain [(Stress - Rest)/Rest]	$(SS_{stress} - SS_{rest})/SS_{rest}$	
37	Peak post-systolic strain Rest	PSS_{rest}	%
38	Peak post-systolic strain Stress	PSS _{stress}	%
39	Peak post-systolic strain (Stress - Rest)	PSS _{stress} - PSS _{rest}	%
40	Peak post-systolic strain [(Stress - Rest)/Rest]	(PSS _{stress} - PSS _{rest})/PSS _{rest}	
41	Time to peak post-systolic strain Rest	T to PSS _{rest}	ms
42	Time to peak post-systolic strain Stress	T to PSS _{stress}	ms
43	Time to peak post-systolic strain (Stress - Rest)	T to PSS_{stress} - T to PSS_{rest}	ms
44	Time to peak post-systolic strain [(Stress - Rest)/Rest]	(T to PSS_{stress} - T to PSS_{rest})/T to PSS_{rest}	
45	Post-systolic index Rest	PSI _{rest}	%
46	Post-systolic index Stress	PSI _{stress}	%
47	Post-systolic index (Stress - Rest)	PSI _{stress} - PSI _{rest}	%

48		Post-systolic index [(Stress - Rest)/Rest]	(PSI _{stress} - PSI _{rest})/PSI _{rest}	
49		Ratio of post-systolic index to peak systolic strain Rest	PSI _{rest} /SS _{rest}	
50		Ratio of post-systolic index to peak systolic strain Stress	PSI _{stress} /SS _{stress}	
51		Ratio of post-systolic index to peak post-systolic strain Rest	PSI _{rest} /PSS _{rest}	
52		Ratio of post-systolic index to peak post-systolic strain Stress	PSI _{stress} /PSS _{stress}	
53		Peak systolic strain rate Rest	SSR _{rest}	s ⁻¹
54		Peak systolic strain rate Stress	SSR _{stress}	s ⁻¹
55		Peak systolic strain rate (Stress - Rest)	SSR _{stress} - SSR _{rest}	s ⁻¹
56		Peak systolic strain rate [(Stress - Rest)/Rest]	$(SSR_{stress} - SSR_{rest})/SSR_{rest}$	
57		Peak post-systolic strain rate Rest	PSSR _{rest}	s ⁻¹
58		Peak post-systolic strain rate Stress	PSSR _{stress}	s ⁻¹
59		Peak post-systolic strain rate (Stress - Rest)	PSSR _{stress} - PSSR _{rest}	s ⁻¹
60		Peak post-systolic strain rate [(Stress - Rest)/Rest]	(PSSR _{stress} - PSSR _{rest})/PSSR _{rest}	
61	STI: longitudinal axis	Peak systolic velocity Rest	S'rest	cm/s
62		Peak systolic velocity Stress	S'stress	cm/s
63		Peak systolic velocity (Stress - Rest)	S'stress - S'rest	cm/s
64		Peak systolic velocity [(Stress - Rest)/Rest]	(S' _{stress} - S' _{rest})/S' _{rest}	

65	Peak post-systolic velocity Rest	PS'rest	cm/s
66	Peak post-systolic velocity Stress	PS' _{stress}	cm/s
67	Peak post-systolic velocity (Stress - Rest)	PS' _{stress} - PS' _{rest}	cm/s
68	Peak post-systolic velocity [(Stress - Rest)/Rest]	(PS' _{stress} - PS' _{rest})/PS' _{rest}	
69	Peak E' wave velocity Rest	E' _{rest}	cm/s
70	Peak E' wave velocity Stress	E'stress	cm/s
71	Peak A' wave velocity Rest	A' _{rest}	cm/s
72	Peak A' wave velocity Stress	A'stress	cm/s
73	E'/A' ratio Rest	E'/A' _{rest}	
74	E'/A' ratio Stress	E'/A' _{stress}	
75	Peak systolic strain Rest	SS_{rest}	%
76	Peak systolic strain Stress	SS_{stress}	%
77	Peak systolic strain (Stress - Rest)	SS_{stress} - SS_{rest}	%
78	Peak systolic strain [(Stress - Rest)/Rest]	$(SS_{stress} - SS_{rest})/SS_{rest}$	
79	Peak post-systolic strain Rest	PSS _{rest}	%
80	Peak post-systolic strain Stress	PSS _{stress}	%
81	Peak post-systolic strain (Stress - Rest)	PSS_{stress} - PSS_{rest}	%

82	Peak post-systolic strain [(Stress - Rest)/Rest]	$(PSS_{stress} - PSS_{rest})/PSS_{rest}$	
45	Post-systolic index Rest	PSI _{rest}	%
46	Post-systolic index Stress	PSI _{stress}	%
47	Post-systolic index (Stress - Rest)	PSI _{stress} - PSI _{rest}	%
48	Post-systolic index [(Stress - Rest)/Rest]	(PSI _{stress} - PSI _{rest})/PSI _{rest}	
49	Ratio of post-systolic index to peak systolic strain Rest	PSI _{rest} /SS _{rest}	
50	Ratio of post-systolic index to peak systolic strain Stress	PSI _{stress} /SS _{stress}	
51	Ratio of post-systolic index to peak post-systolic strain Rest	PSI _{rest} /PSS _{rest}	
52	Ratio of post-systolic index to peak post-systolic strain Stress	PSI _{stress} /PSS _{stress}	
83	Peak systolic strain rate Rest	SSR _{rest}	s ⁻¹
84	Peak systolic strain rate Stress	SSR _{stress}	s ⁻¹
85	Peak systolic strain rate (Stress - Rest)	SSR _{stress} - SSR _{rest}	s ⁻¹
86	Peak systolic strain rate [(Stress - Rest)/Rest]	$(SSR_{stress} - SSR_{rest})/SSR_{rest}$	
87	Peak post-systolic strain rate Rest	PSSR _{rest}	s ⁻¹
88	Peak post-systolic strain rate Stress	PSSR _{stress}	s ⁻¹
89	Peak post-systolic strain rate (Stress - Rest)	PSSR _{stress} - PSSR _{rest}	s ⁻¹
90	Peak post-systolic strain rate [(Stress - Rest)/Rest]	(PSSR _{stress} - PSSR _{rest})/PSSR _{rest}	

91	STI: radial axis	Peak radial systolic strain rate Rest	RSSR _{rest}	s ⁻¹
92		Peak radial systolic strain rate Stress	RSSR _{stress}	s ⁻¹
93		Peak radial systolic strain rate (Stress - Rest)	RSSR _{stress} - RSSR _{rest}	s ⁻¹
94		Peak radial systolic strain rate [(Stress - Rest)/Rest]	(RSSR _{stress} - RSSR _{rest})/RSSR _{rest}	
95		Peak radial post-systolic strain rate Rest	RPSSR _{rest}	s ⁻¹
96		Peak radial post-systolic strain rate Stress	RPSSR _{stress}	s ⁻¹
97		Peak radial post-systolic strain rate (Stress - Rest)	RPSSR _{stress} - RPSSR _{rest}	s ⁻¹
98		Peak radial post-systolic strain rate [(Stress - Rest)/Rest]	(RPSSR _{stress} - RPSSR _{rest})/RPSSR _{rest}	