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Left and right ventricular longitudinal strain-volume/area relationships in elite athletes.

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Right Ventricle n = 20

Timepoint	Area CoV (%) (95% CI)	Strain CoV (%) (95% CI)
1	2.1 (1.5-3.0)	/
2	2.6 (2.0-3.8)	100.7 (71.2-181.8)
3	3.5 (2.6-5.0)	23.7 (18.0-34.7)
4	4.1 (3.1-5.9)	10.7 (8.2-15.5)
5	4.1 (3.1-6.0)	8.0 (6.1-11.5)
6	4.0 (3.1-5.8)	7.2 (5.5-10.3)
7	5.3 (4.1-7.7)	5.4 (4.1-7.8)
8	4.2 (3.2-6.1)	4.8 (3.6-6.9)
9	5.3 (4.0-7.7)	4.5 (3.5-6.6)
10	5.6 (4.3-8.1)	4.4 (3.4-6.4)
11	5.3 (4.1-7.7)	4.0 (3.1-5.8)
12	6.7 (5.1-9.7)	6.7 (5.1-9.7)
13	5.7 (4.4-8.2)	9.7 (7.4-14.0)
14	4.5 (3.4-6.5)	12.9 (9.9-18.8)
15	4.4 (3.4-6.4)	16.1 (12.2-23.3)
16	4.3 (3.3-6.2)	14.1 (10.7-20.5)
17	2.8 (2.2-4.1)	14.9 (11.3-21.6)
18	3.2 (2.4-4.6)	13.4 (10.2-19.4)
19	3.4 (2.6-4.8)	15.5 (11.9-22.6)
20	3.1 (2.4-4.4)	26.4 (20.0-38.8)
21	2.1 (1.5-3.0)	138.8 (93.5-289.6)

Vol %	Systolic strain CoV (%) (95% CI)	Diastolic strain CoV (%) (95% CI)	Sys-Dia Coup ICC (95% CI)
90	45.3 (34.0-69.0)	26.6 (20.2-39.1)	0.692 (0.221-0.878)
80	20.7 (15.8-30.3)	17.4 (13.3-25.3)	0.760 (0.393-0.905)
70	12.9 (9.8-18.7)	12.3 (12.2-17.6)	0.722 (0.298-0.890)
60	9.4 (7.2-13.6)	9.0 (6.9-13.1)	0.531 (-0.186-0.814)

50	8.3 (6.3-12.0)	8.3 (6.3-12.0)	0.372 (-0.587-0.751)
40	9.0 (6.8-13.0)	9.6 (7.4-14.0)	0.661 (0.143-0.866)
30	10.5 (8.0-15.3)	12.1 (9.3-17.6)	0.756 (0.383-0.903)
20	12.5 (9.6-18.2)	15.1 (11.6-22.0)	0.787 (0.463-0.916)
10	14.7 (11.2-21.4)	18.5 (14.1-26.9)	0.801 (0.497-0.921)

Left Ventricle n = 20

Timepoint	Volume CoV % (95% CI)	Strain CoV % (95% CI)
1	1.2 (0.9-1.7)	/
2	2.2 (1.7-3.2)	62.6 (46.2-99.6)
3	2.5 (1.9-3.7)	44.4 (33.3-67.4)
4	3.3 (2.5-4.8)	31.6 (24.0-46.9)
5	3.3 (2.5-4.8)	11.94 (9.1-17.3)
6	4.4 (3.4-6.4)	8.7 (6.6-12.6)
7	5.7 (4.4-8.3)	7.3 (5.6-10.5)
8	6.6 (5.0-9.5)	6.5 (5.0-9.5)
9	5.8 (4.4-8.4)	6.4 (4.9-9.2)
10	6.1 (4.7-8.8)	6.1 (4.7-8.9)
11	7.5 (5.7-10.8)	5.9 (4.5-8.5)
12	8.0 (6.1-11.6)	7.2 (5.5-10.5)
13	5.4 (4.1-7.7)	9.0 (6.9-13.1)
14	5.5 (4.2-7.9)	10.6 (8.1-15.4)
15	3.5 (2.7-5.0)	10.3 (7.8-14.9)
16	2.7 (2.1-4.0)	8.7 (6.7-12.6)
17	2.7 (2.1-3.9)	8.8 (6.7-12.7)
18	2.7 (2.1-3.9)	9.0 (6.9-13.0)
19	3.0 (2.3-4.3)	9.4 (7.2-13.5)
20	2.0 (1.6-2.9)	63.1 (46.6-100.6)
21	1.2 (0.9-1.7)	35.4 (26.7-52.8)

Vol %	Systolic strain CoV (%) (95% CI)	Diastolic strain CoV (%) (95% CI)	Sys-Dia Coup ICC (95% CI)
90	33.2 (25.1-49.3)	15.1 (11.5-22.0)	0.215 (-0.984-0.689)
80	19.2 (14.7-28.0)	10.6 (8.1-15.4)	0.207 (-1.003-0.686)
70	13.4 (10.2-19.4)	9.1 (7.0-13.2)	0.265 (-0.856-0.709)
60	9.7 (7.4-14.0)	7.9 (6.0-11.5)	0.372 (-0.586-0.752)
50	7.4 (5.6-10.7)	7.2 (5.5-10.5)	0.485 (-0.301-0.796)
40	6.8 (5,2-9,8)	7.2 (5.5-10.4)	0.198 (-1.026-0.683)
30	7.8 (6.0-11.3)	7.8 (6.0-11.3)	-0.141 (-1.882-0.548)
20	9.8 (7.5-14.2)	8.9 (6.8-12.9)	-0.161 (-1.933-0.541)
10	12.3 (9.4-17.8)	10.5 (8.0-15.2)	-0.128 (-1.850-0.553)