

Supplementary material

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Table S1

Tested parameter	Patient	Before treatment	Study date				P value *
			25.06. 2023	28.07. 2023	13.10. 2023	28.01. 2024	
RVDD m- mode	A.W	26	21.5	20	17	18	0.03
	P.M	21	19.3	20	20	21	
	R.K	31	25.3	22	21	17.5	
	W.A	23.5	23.6	16.5	16	22.7	
	W.F	25	19.4	19	19	16.5	
	median	25	21.5	20	19	18	
	range	21–31	19.3–25.3	16.5–22	16–21	16.5–22.7	
IQR	23.5–26	19.4–23.6	19–20	17–20	17.5–21		
RVDD 2D	A.W	30	25	27	20	25	0.24
	P.M	26	25	29	24	27	
	R.K	32	27	25	26	23	
	W.A	28	25	22	24	22	
	W.F	28	26	27	28	28	
RVEDVi (3D)	A.W	167	105	99	108	99	0.01
	P.M	123	103	78	101.5	105.7	
	R.K	124	83	72	63	71	
	W.A	109	72	67	61	104	
	W.F	109	101	83	99.5	80	

	median	123	101	78	99.5	99	
	range	109–167	72–105	67–99	61–108	71–105.7	
	IQR	109–124	83–103	72–83	63–101.5	80–104	
RV EF (3D)	A.W	52	37	55	51	54	0.09
	P.M	47	39.7	44.5	58.5	46.2	
	R.K	60	54.4	52.5	48.5	50	
	W.A	59.8	40	51	59	49.2	
	W.F	61	45.7	52	55	54	
	median	59.8	40	52	55	50	
	range	47–61	37.5–45.7	44.5–55	48.5–59	46.2–54	
	IQR	52–60	39.7–45.7	51–52.5	51–58.5	49.2–54	

*Friedman’s ANOVA for repeated measures analysis of variance by ranks;

Abbreviations: RVDD, right ventricle diastolic diameter; RVEDVi, right ventricle end-diastolic volume index; RV EF, right ventricle ejection fraction; IQR, interquartile range

Tested parameter	Patient	Before treatment	Study date				P value*
			25.06.2023	28.07.2023	13.10.2023	28.01.2024	
RV EDA	A.W	28	19.4	16.4	21.1	17	0.03
	P.M	34.5	24	21	21	20.4	
	R.K	24.5	20.8	20	18.8	16.7	
	W.A	27.4	18.7	20	19.3	27.3	
	W.F	26	22.3	24	23.5	22.5	
	median	27.4	20.8	20	21	20.4	
	range	24.5–34.5	18.7–24	16.4–24	18.8–23.5	16.7–27.3	
	IQR	26–28	19.4–22.3	20–21	19.3–21.1	17–22.5	
RV ESA	A.W	15.7	13.9	13.4	13.9	10	0.16
	P.M	21	15	11.5	11.5	8.75	
	R.K	13.5	12.9	10	9.3	8.6	
	W.A	12.6	10.9	11.5	11	24.8	

	W.F	12.7	16.7	14	14.5	12.3	
RV FAC	A.W	43.9	28.4	19	35	39	0.32
	P.M	40	37.5	45.5	45.5	57	
	R.K	44.7	38	50	50	48	
	W.A	54	41.7	42	44	41.8	
	W.F	51	45.7	42	38	45.6	

*Friedman's ANOVA for repeated measures analysis of variance by ranks;

Abbreviations: RV EDA, right ventricle end-diastolic area; RV ESA, right ventricle end-systolic area; RV FAC, right ventricle fractional area change; IQR, interquartile range

Table S2

Tested parameter	Patient	Before treatment	Study date				P value*
			25.06. 2023	28.07. 2023	13.10. 2023	28.01. 2024	
RV strain -base	A.W	23.5	9	19.1	23.3	25	0.002
	P.M	42	16	18.8	31	20	
	R.K	26.6	10.9	19	25.2	22.5	
	W.A	31	15.6	21	21.5	27.3	
	W.F	29.5	19.3	24	38	31	
RV strain -mid	A.W	21.2	9	18	22.1	22	0.005
	P.M	27.5	15	19.1	25	16	
	R.K	25	8	20	24.5	25	
	W.A	20.8	10.7	16.5	21.2	24.8	
	W.F	19.3	12.7	15.8	26	21	
RV strain -apex	A.W	19.1	9.1	17.5	17	29	0.03
	P.M	13.7	14	22	21.5	17	
	R.K	25.3	7,8	24.5	24.5	30	
	W.A	17.9	10.7	18	22	25.1	

*Friedman's ANOVA for repeated measures analysis of variance by ranks;

Abbreviations: RV, right ventricle

Table S3

Tested parameter	Patient	Before treatment	Study date				P value*
			25.06. 2023	28.07. 2023	13.10. 2023	28.01. 2024	
TAPSE	A.W	13.3	12.3	16	14,5	15	0.58
	P.M	16.5	16	23	15	23	
	R.K	18	14.3	16.5	14	15.9	
	W.A	20.6	19.6	16.5	13.5	18.7	
	W.F	16	18	16	17	16	
	median	16.5	16	16.5	14.5	16	
	range	13.3–20.6	12.3–19.6	16–23	13.5–17	15–23	
	IQR	16–18	14.3–18	16–16.5	14–15	15.9–18.7	
TDI S	A.W	7.5	6.4	7.6	6.8	8.5	0.03
	P.M	10	9.7	9	8	10.6	
	R.K	11.6	8.8	8.7	9.3	11.2	
	W.A	12.6	7.6	9.6	8	9.8	
	W.F	11	11	10	8.6	10.4	
	median	11	8.8	9	8	10.4	
	range	7.5–12.6	6.4–11	7.6–10	6.8–9.3	8.5–11.2	
	IQR	10–11.6	7.6–9.7	8.7–9.6	8–8.6	9.8–10.6	

*Friedman's ANOVA for repeated measures analysis of variance by ranks;

Abbreviations: TAPSE, tricuspid annular plane systolic excursion; TDI, tissue Doppler imaging

Tested parameter	Patient	Before treatment	Study date				P value*
			25.06. 2023	28.07. 2023	13.10. 2023	28.01. 2024	
TDI e'	A.W	10.3	10	7	12.7	14.9	0.003
	P.M	11.7	5.9	7	7.5	9.1	
	R.K	10.8	9.7	7	9	14.8	
	W.A	18.6	8.4	11	11.5	13.5	
	W.F	11.5	11	10	11	15	

	median	11.5	9.7	7	11	14.8	
	range	10.3–18.6	5.9–11	7–11	7.5–12.7	9.1–15	
	IQR	10.8–11.7	8.4–10	7–10	9–11.5	13.5–14.9	
TDI a'	A.W	3.9	3.8	5.2	4.6	4.7	0.2
	P.M	5	4.4	4.5	4	5.1	
	R.K	6.8	7.4	8	8	8.8	
	W.A	9.7	11	5.5	5.8	6.8	
	W.F	6	6.9	6.7	5	8.3	
	median	6	6.9	5.5	5	6.8	
	range	3.9–9.7	3.8–11	4.5–8	4–8	4.7–8.8	
	IQR	5–6.8	4.4–7.4	5.2–6.7	4.6–5.8	5.1–8.3	
TDI MPI	A.W	0.79	1.05	0.43	0.52	0.54	0.5
	P.M	0.74	0.74	0.45	0.78	0.52	
	R.K	0.57	0.51	0.49	0.48	0.72	
	W.A	0.66	0.47	0.66	0.45	0.48	
	W.F	0.57	0.46	0.55	0.63	0.61	
	median	0.66	0.51	0.49	0.52	0.54	

* Friedman's ANOVA for repeated measures analysis of variance by ranks;

Abbreviations: TDI, tissue Doppler imaging; TDI MPI, tissue Doppler imaging myocardial performance index; IQR, interquartile range