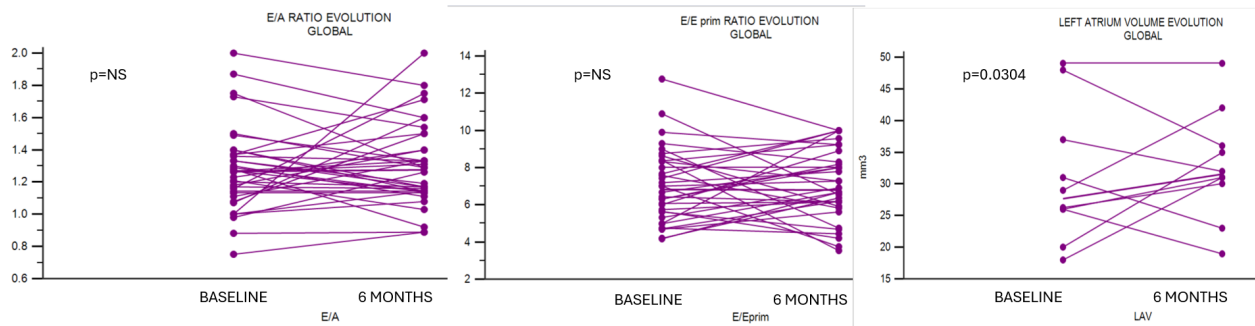
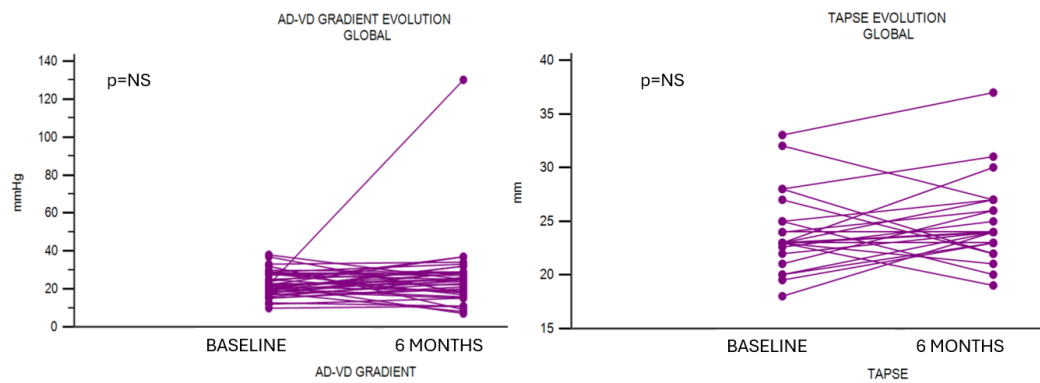


Supplementary Material

Supplementary Figure 1. Left ventricle diastolic function and left atrium volume at baseline and at 6 months in mild and moderate cases.



Supplementary Figure 2. Global AD-VD gradient evolution and TAPSE evolution at baseline and at 6 months.



Supplementary Table 1: Left ventricle diastolic function at baseline and at 6 months.

Diastolic dysfunction	Global				Male				Female			
	Vaccinated				Vaccinated				Vaccinated			
	Global	No	Yes	p	Global	No	Yes		Global	No	Yes	p
E/A baseline, median (IQR)	1.27 (1.13-1.37)	1.33 (1.02-1.64)	1.3 (1.17-1.5)	NS	1.27 (1.11-1.4)	1.17 (0.93-1.41)	1.26 (1.1-1.34)	NS	1.37 (1.2-1.75)	1.39 (1.08-1.8)	1.36 (1.23-1.75)	NS
E/A 6 months, median (IQR)	1.29 (1.14-1.4)	1.28 (1.11-1.6)	1.23 (1.14-1.4)	NS	1.23 (1.16-1.35)	1.16	1.26 (1.17-1.38)	NS	1.24 (1.13-1.5)	1.4 (1.12-1.5)	1.19 (1.13-1.45)	NS
P	NS	NS	NS		NS	NS	NS		p = 0.02	NS	p = 0.0174	
E/E prim baseline, median (IQR)	6.84 (5.55-8.34)	6.67 (5.73-7.2)	6.73 (5.63-8.13)	NS	5.94 (5.07-7.4)	5.64	6.07 (5.0-7.5)	NS	6.92 (6-8.13)	6.92 (6.30-7.58)	6.89 (5.83-8.4)	NS
E/E prim 6 months, median (IQR)	6.8 (6.09-8.21)	6.67 (4.61-8.0)	6.67 (6.09-8.45)	NS	6.67 (5.42-7.64)	6.10	6.51 (4.67-7.27)	NS	6.62 (5.98-8.13)	6.67 (5.31-8.30)	6.92 (6.15-9.0)	NS
P	NS	NS	NS		NS	NS	NS	-	NS	NS	NS	-
Left atrium volume (cm3) median (IQR) baseline	27.65 (22-33)	30.5 (28.0-31.00)	27.5 (20.50-33.0)	NS	27.5 (23-33)	34.5	27.0 (21.5-32.0)	NS	29 (21.5-32)	29 (25.0-30.5)	29 (20.5-33.5)	NS
Left atrium volume (cm3) median (IQR) 6 month	31.5 (26-37)	24.0 (22.25-41.25)	32.00 (29.25-36.75)	NS	33 (30.75-35.25)	27.50	34 (31.2-35.75)	NS	31 (23.75-40)	24.0 (21.0-46.5)	31 (27.5-39.0)	NS
P	p = 0.03	NS	0.0131		NS	-	p = 0.051		NS	NS	p = 0.09	

Supplementary Table 2: Multivariate regression analysis of predictors for GLS at 6-months.

	B	(95%CI)	p
(Intercept)	-9.78628867322943	-19.3585852018364	0.055
GLS (%) at baseline	0.49	(0.04 - 0.94)	0.041
Severity (Moderate vs. Mild)	0.5	(-1.35 - 2.35)	0.599
Vaccinated (yes/no) (Yes vs. No)	1.6	(-0.74 - 3.94)	0.19

GLS-Global longitudinal strain

Supplementary Table 3: Univariate regression analysis of predictors for PWVAo at baseline vs 6 months.

	At baseline				At 6 months			
	B	(95%CI)	p	R2	B	(95%CI)	p	R2
Age (years)	0.08	(0.06 - 0.1)	<0.001	0.354	0.07	(0.02 - 0.11)	0.005	0.201
BMI (Kg/m ²)	0.12	(0.06 - 0.19)	<0.001	0.137	0.1	(0.01 - 0.19)	0.029	0.126
Sex (Male vs. Female)	0.14	(-0.54 - 0.81)	0.689	0.002	0.52	(-0.5 - 1.55)	0.308	0.029
GLS (%)	0.23	(0.11 - 0.35)	<0.001	0.149	0.25	(0.09 - 0.41)	0.004	0.216
SBPAo	0.07	(0.05 - 0.09)	<0.001	0.399	0.05	(0.02 - 0.08)	<0.001	0.308
Severity (Moderate vs. Mild)	0.24	(-0.42 - 0.9)	0.476	0.006	0.54	(-0.41 - 1.5)	0.257	0.036

BMI- body mass index, GLS- global longitudinal strain, SBPAo- Central systolic blood pressure

Supplementary Table 4: Multivariate regression analysis of predictors for PWVAo at baseline vs 6 months.

	At baseline			At 6 months		
	B	(95%CI)	p	B	(95%CI)	p
(Intercept)	2.57941304659544	(-0.93 - 6.09)	0.148	7.27497881372858	(2.12 - 12.43)	0.007
Age (years)	0.05	(0.02 - 0.07)	<0.001	0.07	(0.02 - 0.11)	0.004
BMI (Kg/m ²)	0.03	(-0.02 - 0.09)	0.25	-0.01	(-0.1 - 0.07)	0.727
Sex (Male vs. Female)	0.16	(-0.34 - 0.65)	0.531	-0.01	(-0.95 - 0.93)	0.99
GLS (%)	0.1	(-0.01 - 0.2)	0.062	0.27	(0.09 - 0.45)	0.004
SBPAo	0.05	(0.03 - 0.06)	<0.001	0.03	(0.09 - 0.45)	0.025
Severity (Moderate vs. Mild)	-1	(-1.5 - -0.51)	<0.001	-0.6	(0.09 - 0.45)	0.151

BMI- body mass index, GLS- global longitudinal strain, SBPAo- Central systolic blood pressure

Supplementary Table 5: Right ventricle systolic function at baseline and at 6 months.

Right ventricle function	Global				Male				Female			
	Vaccinated				Vaccinated				Vaccinated			
	Global	No	Yes	p	Global	No	Yes	p	Global	No	Yes	P
RA-RV gradient (mmHg) baseline, median (IQR)	21.5 (18-27.62)	22.00 (19.2-27.3)	20.50 (17.0-25.0)	NS	21 (15.75-25)	24.0 (21.25-32.0)	20.50 (15.0-25.0)	p=0.09	20.5 (18-26)	21.0 (18-27.0)	20.50 (18-25.0)	NS
RA-RV gradient (mmHg) 6 months, median (IQR)	25 (17.75-29)	24.00 (15.75-28.0)	24.00 (17.5-29.0)	NS	25 (17.25-29.75)	25.0	24.0 (18.0-29.0)	NS	23 (17-29)	21.0 (14.5-26.5)	23.5 (17.0-29.0)	NS
	NS	NS	NS		NS	NS	NS		NS	NS	NS	
TAPSE (mm) baseline, median (IQR)	23 (22.3-25)	23.00 (22.15-26.5)	24.00 (22.4-25.5)	NS	23 (20.75-24.5)	24.0	23.0 (20.8-24.2)	NS	24 (23-26)	23 (22.3-26.5)	24 (23.0-26.0)	NS
TAPSE (mm) 6 months, median (IQR)	25 (23-27)	28.00 (24.0-32.5)	24.00 (22.0-26.0)	p=0.02	24 (23-26)	23.0	24.0 (23.0-25.5)	NS	24 (22-26.75)	29.0 (26.5-31.75)	22.5 (22.0-26.0)	p=0.0088
p	NS	p = 0.0754	NS		NS	NS	NS		NS	p = 0.0451	p = 0.068	

TAPSE- Tricuspid Annular Plane Systolic Excursion, RA-RV- Right atrium-Right ventricle