

Supplementary Materials

Table S1. Correlations between cardiac parameters and duration of the disease's acute phase.

Variables	Pearson Correlation	p-Value
nLF	0.04	0.80
nHF	-0.04	0.80
LF/HF	-0.02	0.87
SDNN	-0.02	0.88
RMSSD	-0.03	0.84
Mean HR, bpm	0.01	0.43

Table S2. Correlations between cardiac parameters and elapsed time from COVID-19 to ECG-test.

Variables	Pearson Correlation	p-Value
nLF	0.07	0.64
nHF	-0.07	0.64
LF/HF	-0.08	0.61
SDNN	-0.17	0.25
RMSSD	-0.11	0.49
Mean HR, bpm	0.02	0.91

Table S3. Subgroup analysis in recovered COVID-19 HCWs: cardiac parameters among males and females.

Variables	Male, <i>n</i> = 12	Female, <i>n</i> = 32	<i>p</i> -Value
nLF	55.2 ± 16.6	53.0 ± 21.1	0.78
nHF	44.8 ± 16.6	47 ± 21.0	0.78
LF/HF	1.57 ± 1.04	1.69 ± 1.48	0.78
SDNN ^a	1.34 (1.21–1.56)	1.39 (1.22–1.50)	0.88
RMSSD ^a	1.33 (1.06–1.50)	1.33 (1.15–1.47)	0.98
Mean HR, bpm	74 ± 10.8	73.9 ± 7.93	1.00

Values are given as mean ± standard deviation and median (IQR 25–75). Mann-Whitney U-test was used between males vs females. ^a Log transformed values.

Table S4. Subgroup analysis in recovered COVID-19 HCWs: cardiac parameters among subjects with and without cardiac symptoms and with and without palpitations during the acute phase of infection.

Variables	Subjects with Cardiac Symptoms, <i>n</i> = 22	Subjects without Cardiac Symptoms, <i>n</i> = 22	<i>p</i> -Value
nLF	54.1 ± 19.8	53.0 ± 20.3	0.89
nHF	45.8 ± 19.8	47.0 ± 20.3	0.88
LF/HF	1.72 ± 1.48	1.60 ± 1.28	0.87
SDNN ^a	1.34 (1.21–1.47)	1.42 (1.24–1.58)	0.23
RMSSD ^a	1.34 (1.09–1.44)	1.32 (1.15–1.53)	0.50
Mean HR, bpm	73.0 ± 6.97	74.7 ± 10.2	0.58

Variables	Subjects with Palpitations, <i>n</i> = 13	Subjects without Palpitations, <i>n</i> = 31	<i>p</i> -Value
nLF	51.5 ± 20.6	54.5 ± 19.8	0.63
nHF	48.4 ± 20.6	45.5 ± 19.8	0.64
LF/HF	1.49 ± 1.16	1.73 ± 1.46	0.64
SDNN ^a	1.42 (1.22–1.52)	1.35 (1.21–1.49)	0.64
RMSSD ^a	1.40 (1.15–1.55)	1.29 (1.14–1.49)	0.47
Mean HR, bpm	74.4 ± 7.33	73.7 ± 9.27	0.78

Values are given as mean \pm standard deviation and median (IQR 25–75). Mann-Whitney U-test was used between subjects with cardiac symptoms vs subjects without cardiac symptoms during the acute phase of infection. ^a Log transformed values.

Table S5. Subgroup analysis in recovered COVID-19 HCWs: cardiac parameters among night shift and workers.

Variables	Night Shift Workers, <i>n</i> = 20	Daytime Workers, <i>n</i> = 24	<i>p</i> -Value
nLF	53.2 \pm 18.7	53.9 \pm 21.1	0.90
nHF	46.7 \pm 18.7	46.0 \pm 21.0	0.90
LF/HF	1.58 \pm 1.27	1.72 \pm 1.47	0.90
SDNN ^a	1.43 (1.29–1.52)	1.31 (1.17–1.48)	0.19
RMSSD ^a	1.35 (1.21–1.47)	1.27 (1.08–1.49)	0.35
Mean HR, bpm	74.9 \pm 9.27	73.0 \pm 8.24	0.76

Values are given as mean \pm standard deviation and median (IQR 25–75). Mann-Whitney U-test was used between night shift vs daytime workers. ^a Log transformed values.

Table S6. Subgroup analysis in recovered COVID-19 HCWs: cardiac parameters among vaccinated and non-vaccinated.

Variables	Vaccinated, <i>n</i> = 21	Non-Vaccinated, <i>n</i> = 23	<i>p</i> -Value
nLF	49.5 \pm 19.9	57.3 \pm 19.4	0.21
nHF	50.4 \pm 19.9	42.7 \pm 19.4	0.21
LF/HF	1.37 \pm 1.07	1.92 \pm 1.56	0.20
SDNN ^a	1.42 (1.22–1.56)	1.34 (1.19–1.47)	0.22
RMSSD ^a	1.39 (1.19–1.55)	1.26 (1.08–1.38)	0.06
Mean HR, bpm	72.7 \pm 6.87	75.0 \pm 10.0	0.40

Values are given as mean \pm standard deviation and median (IQR 25–75). Mann-Whitney U-test was used between vaccinated vs non-vaccinated. ^a Log transformed values.

Table S7. Multiple regression analysis (model a) of the influence of SARS-COV-2 infection, age, sex, elapsed time from COVID-19 to ECG test, vaccination status, night work, body mass index, systolic blood pressure and palpitations on LF/HF.

Variables	B	R	t	<i>p</i> -Value
SARS-COV-2 infection	0.72	0.24	2.15	0.03
Age	0.03	0.27	2.51	0.01
Sex	0.05	0.02	0.17	0.87
Elapsed time from COVID-19 to ECG test	–0.003	–0.06	–0.52	0.61
Vaccination status	–0.14	–0.15	–1.38	0.17
Night work	0.05	0.02	0.19	0.84
Body mass index	–0.004	–0.01	–0.11	0.91
Systolic blood pressure	0.007	0.08	0.76	0.45
Palpitations	–0.33	–0.11	–0.94	0.34