

SUPPLEMENTARY MATERIALS

Table S1. Exploratory correlations between biomarkers and rhythm parameters in the Holter substudy.

Biomarker	Rhythm parameter	n	Spearman ρ	p-value	FDR q-value
Transferrin	AF burden	23	-0.638	0.001	0.030
Ferritin at admission	AF burden	24	-0.191	0.374	0.874
TnI	AF burden	21	-0.179	0.437	0.874
hs-cTnT	AF burden	23	-0.022	0.919	0.987
IL-6	AF burden	13	0.098	0.751	0.987
hs-CRP	AF burden	23	0.017	0.940	0.987
D-dimer	AF burden	23	-0.124	0.572	0.987
Transferrin	PVC count/24 h	23	-0.080	0.716	0.987
Ferritin at admission	PVC count/24 h	24	-0.461	0.023	0.265
TnI	PVC count/24 h	21	-0.041	0.860	0.987
hs-cTnT	PVC count/24 h	23	-0.071	0.748	0.987
IL-6	PVC count/24 h	13	-0.250	0.409	0.874
hs-CRP	PVC count/24 h	23	-0.013	0.952	0.987
D-dimer	PVC count/24 h	23	-0.088	0.691	0.987
Transferrin	PAC count/24 h	23	-0.234	0.282	0.874
Ferritin at admission	PAC count/24 h	24	-0.447	0.028	0.265
TnI	PAC count/24 h	21	0.324	0.152	0.852
hs-cTnT	PAC count/24 h	23	0.239	0.271	0.874
IL-6	PAC count/24 h	13	-0.247	0.415	0.874
hs-CRP	PAC count/24 h	23	-0.020	0.929	0.987
D-dimer	PAC count/24 h	23	-0.189	0.389	0.874
Transferrin	Maximum QTc	23	0.412	0.051	0.354
Ferritin at admission	Maximum QTc	24	-0.017	0.936	0.987
TnI	Maximum QTc	21	-0.073	0.754	0.987
hs-cTnT	Maximum QTc	23	-0.003	0.988	0.988
IL-6	Maximum QTc	13	-0.291	0.334	0.874
hs-CRP	Maximum QTc	23	-0.256	0.237	0.874
D-dimer	Maximum QTc	23	0.059	0.789	0.987

Note: Values are Spearman rank correlation coefficients (ρ). Pairwise available data were used; therefore, sample size varies according to biomarker availability. The Benjamini-Hochberg procedure was applied across the 28 exploratory correlations to control the false discovery rate. PVC and PAC counts were normalized to a 24-h recording duration. AF, atrial fibrillation; PVC, premature ventricular contractions; PAC, premature atrial contractions; QTc, corrected QT interval; hs-cTnT, high-sensitivity cardiac troponin T; TnI, troponin I; hs-CRP, high-sensitivity C-reactive protein.

Table S2. Sensitivity analyses of the association between transferrin and atrial fibrillation burden.

Analysis	n	Spearman's ρ	p-value	Bootstrap 95% CI
Unadjusted	23	-0.638	0.001	-0.795 to -0.380
Partial Spearman correlation *	23	-0.649	0.002	-0.828 to -0.336

Note: Values are Spearman rank correlation coefficients (ρ). Bootstrap 95% confidence intervals were estimated using patient-level resampling with 50,000 replicates and the percentile method (2.5th–97.5th percentiles). Of these, 49,946 and 49,945 bootstrap replicates yielded valid estimates for the unadjusted and partial correlations, respectively. The partial correlation was adjusted simultaneously for age, disease severity at the time of Holter monitoring, and the interval between hospital admission and Holter monitoring. Given the small sample size, the adjusted analysis should be considered exploratory. AF, atrial fibrillation; CI, confidence interval.*