

APPENDIX A. SUPPLEMENTARY TABLE

Association of Frontal QRS-T Angle with B-type Natriuretic Peptide and Echocardiographic Parameters on Unadjusted and Multivariable Adjusted Linear Regression Analysis after Excluding Patients with QRS Duration > 120 ms

Dependent variable	Unadjusted		Multivariable-adjusted*	
	β -Coefficient (95% CI)	P-value	β -Coefficient (95% CI)	P-value
• Log BNP, pg/ml	0.49 (0.32, 0.65)	<0.001	0.17 (0.00, 0.33)	0.048
• Tissue Doppler S' velocity, cm/s	-0.52 (-0.75, -0.28)	<0.001	-0.35 (-0.61, -0.09)	0.008
• Tissue Doppler E' velocity, cm/s	-0.53 (-0.85, -0.22)	0.001	-0.53 (-0.89, -0.17)	0.004
• E/E' ratio	1.73 (0.81, 2.66)	<0.001	1.23 (0.24, 2.22)	0.015
• Isovolumic relaxation time, ms	6.47 (3.90, 9.03)	<0.001	5.21 (2.18, 8.25)	0.001
• LV mass index, g/m ²	10.40 (6.53, 14.26)	<0.001	5.17 (0.68, 9.66)	0.024
• TAPSE, cm	-0.17 (-0.24, -0.10)	<0.001	-0.15 (-0.23, -0.07)	<0.001
• RV wall thickness, mm/m ²	0.18 (0.08, 0.23)	<0.001	0.11 (0.04, 0.18)	0.001

BNP = B-type natriuretic peptide; *TAPSE* = tricuspid annular plane systolic excursion; *RV* = right ventricular; *LV* = left ventricular; CI = confidence interval.

*Multivariable model adjusted for age, sex, body-mass index, diabetes mellitus, atrial fibrillation, coronary artery disease, estimated glomerular filtration rate, amiodarone use, diuretic use, QRS interval, and QTc interval.

APPENDIX B. SUPPLEMENTAL TABLE

Association of Frontal QRS-T Angle with Adverse Outcomes on Cox Proportional Hazards Analysis after Excluding Patients with QRS Duration > 120 ms

Outcome	Event rate (n/N, %)	Unadjusted			Multivariable-adjusted		
		HR	95% CI	P-value	HR	95% CI	P-value
Heart failure hospitalization							
• Tertile 1	19/110 (17)	—	—	—	—	—	—
• Tertile 2	28/108 (26)	1.6	0.9, 2.9	0.12	1.5	0.8, 2.8	0.22
• Tertile 3	35/114 (31)	2.1	1.2, 3.7	0.01	1.7	0.9, 3.3	0.028
Cardiovascular hospitalization							
• Tertile 1	24/110 (22)	—	—	—	—	—	—
• Tertile 2	44/108 (41)	2.1	1.2, 3.4	0.005	1.8	1.1, 3.1	0.025
• Tertile 3	43/114 (38)	2.1	1.3, 3.5	0.004	1.8	1.0, 3.3	0.046
Death							
• Tertile 1	10/110 (9)	—	—	—	—	—	—
• Tertile 2	14/108 (13)	1.4	0.6, 3.1	0.43	1.0	0.4, 2.5	0.95
• Tertile 3	20/114 (18)	2.0	0.9, 4.3	0.07	2.1	0.8, 5.0	0.11
Cardiovascular hospitalization or death							
• Tertile 1	29/110 (26)	—	—	—	—	—	—
• Tertile 2	52/108 (48)	2.1	1.3, 3.4	0.002	1.9	1.1, 3.1	0.01
• Tertile 3	58/114 (51)	2.4	1.5, 3.8	<0.001	2.1	1.2, 3.5	0.009

HR = hazard ratio; *CI* = confidence interval.

*Multivariable model adjusted for age, sex, body-mass index, diabetes mellitus, atrial fibrillation, coronary artery disease, estimated glomerular filtration rate, amiodarone use, diuretic use, QRS interval, and QTc interval.