

Supplemental Table 2. Components and Coefficients of those Primary and Secondary A-ECG Logistic Scores generated from the Training Set that Performed Best in the Test Set

A-ECG score component	Coefficients of the 7-Parameter Primary (“Healthy vs. Disease”) A-ECG score requiring ~5-min “full disclosure” ECGs	Coefficients of the 7-Parameter Primary (“Healthy vs. Disease”) A-ECG Score obtainable from 10-sec “snapshot” ECGs	Coefficients of the 5-Parameter Secondary (“Disease with vs. without LVSD”) A-ECG Score obtainable from 10-sec “snapshot” ECGs
<u>CONVENTIONAL</u>			
P duration (ms)	+0.0880089	+0.0947843	
QRS axis (°)	-0.0225851	-0.0300893	
12-lead voltage (Ln mV)			-3.985739
<u>3D ECG</u>			
<i>Spatial areas</i>			
*SVG-SM QRS (mV*ms)†		-0.7675504	
Z integral (mV*ms)			+0.1490614
<i>Spatial angles</i>			
Mean QRS-T (°)	+0.0333293		+0.0172501
Peaks QRS-T (°)		+0.0352906	
SVG elevation (°)	-0.0555467	-0.0628153	
<u>COMPLEXITY</u>			
<i>QRS complexity</i>			
†QRS NDPV (Ln μV)			+2.249326
<i>T complexity</i>			
T IDR (Ln %)	+1.301927		
T PCA (Ln %)		+1.665364	
T DPV (Ln μV)			-1.26528
<u>QTV</u>			
QTVI (II, units)	+2.685218		
IUQTV (V5, units)	+1.276661		
Constant	-4.505596	-10.094	+1.672794

A-ECG, advanced electrocardiography; LVSD, left ventricular systolic dysfunction; SVG, spatial ventricular gradient; SM, spatial mean; Z integral, the total integral of the Z-lead QRS complex filtered above 5 Hz; QRS NDPV, nondipolar voltage of the QRS wave; T IDR, intradipolar ratio of the T wave, calculated as the product of the second and third singular values divided by the square of the first singular value of the signal-averaged T wave, multiplied by 100%; T DPV, dipolar voltage of the T wave; QTV, QT interval variability; QTVI, QT variability index (in lead II); IUQTV, index of unexplained QTV (in lead V5).

*This composite parameter, which represents, in units of mV*ms, the arithmetic subtraction of the SM QRS area from the SVG area, is akin but not equivalent to the SM T area.

†Adequate reproducibility and reliability of results from this parameter in 10-sec snapshot ECG recordings remains to be proven but is assumed based on its use with snapshot recordings in the recent publications of Rautaharju et al. See for example reference [8] in the main text.