

Supplementary Materials

Table S1. Heart rate variability (HRV) features used in the analysis.

Domain	Feature name	Definition
Time-domain (17)	Mean heart rate	Average heart rate in beats per minute (bpm)
	SDNN	Standard deviation of all normal-to-normal (NN) intervals; a global HRV measure
	RMSSD	Root mean square of successive differences between RR intervals; reflects short-term HRV
	SDSD	Standard deviation of successive RR interval differences
	CVNN	Coefficient of variation of NN intervals (SDNN / mean NN interval)
	CVSD	Coefficient of variation of successive differences (SDSD / mean NN interval)
	pNN10, pNN20, pNN50	Percentage of successive NN interval pairs differing by >10 ms, >20 ms, and >50 ms
	minNN / maxNN	Minimum and maximum NN interval values
	medianNN	Median NN interval value
	prc20NN / prc80NN	20th and 80th percentiles of the NN interval distribution
	TINN	Baseline width of the NN interval histogram (triangular interpolation); a global HRV index
	HRVi	HRV triangular index: total number of NN intervals/height of the NN histogram
Frequency-domain (6)	Total power	Total variance of the HRV signal
	LF power	Power in the low-frequency band (0.04–0.15 Hz)
	HF power	Power in the high-frequency band (0.15–0.40 Hz)
	LF norm / HF norm	Normalized LF and HF values
	LF/HF ratio	Ratio of low- to high-frequency power
Non-linear (12)	SD1	Standard deviation perpendicular to the line of identity in the Poincaré plot
	SD2	Standard deviation along the line of identity in the Poincaré plot
	SD1/SD2	Ratio of SD1 to SD2
	CSI	Cardiac Sympathetic Index
	CVI	Cardiac Vagal Index
	Modified CVI	Variant of CVI
	SODP Q1–Q4	Number of RR interval differences in each of the four quadrants of the second-order difference plot

Long-term variability (6)	CTM20 / CTM50 / CTM100	Proportion of SODP points within a circle of radius 20 ms, 50 ms, or 100 ms centered at the origin
	AC	Acceleration capacity
	DC	Deceleration capacity
	AC-modified	Modified acceleration capacity
	DC-modified	Modified deceleration capacity
	Ack dDCk	Variant of AC Variant of DC
Heart rate fragmentation (5)	PIP	Percentage of inflection points
	IALS	Inverse of the average length of acceleration/deceleration segments
	PSS	Percentage of short segments
	PAS	Percentage of alternating segments