

Figure S1 Heart Rate n-Variability and definition of RR intervals (27). Reprinted with permission from the copyright owner, under the terms of the Creative Commons Attribution License.

Table S1 HRnV parameters that w Variable	SBI, median (IQR)	No SBI, median (IQR)	P value
HR ₂ V ₁ pNN50	0.00 (0.00–0.00)	0.00 (0.00–0.13)	0.008
HR_2V_1 NN50	0.00 (0.00–0.00)	0.00 (0.00–1.00)	0.008
HR₃V pNN50	0.00 (0.00–0.26)	0.00 (0.00–1.10)	0.030
HR₃V₁ pNN50	0.00 (0.00-0.00)	0.00 (0.00-0.30)	0.037
HR₃V NN50	0.00 (0.00–1.00)	0.00 (0.00–3.00)	0.037
IR ₂ V pNN50	0.00 (0.00–0.28)	0.00 (0.00–0.89)	0.038
HR₃V LF (ms)	473.89 (300.87–857.65)	718.25 (310.83–1654.17)	0.041
HR₃V Poincare' SD2 (ms)	69.79 (49.40–121.84)	89.68 (64.09–143.13)	0.042
HR₂V LF (ms)	317.31 (207.10–576.77)	494.84 (208.57–1107.65)	0.042
IR₃V₁ NN50	0.00 (0.00–0.00)	0.00 (0.00–1.00)	0.043
HR ₂ V Poincare' SD2 (ms)	47.58 (34.67–82.77)	60.87 (43.70–96.59)	0.043
HR ₃ V ₂ LF (ms)	1,412.79 (911.82–2,568.93)	2,136.07 (923.26–4,926.39)	0.044
HR ₃ V ₂ Poincare' SD2 (ms)	71.67 (52.22–124.34)	91.60 (65.49–145.02)	0.044
IR ₂ V SDNN (ms)	35.77 (25.88–59.51)	44.62 (31.04–69.69)	0.044
IR₃V SDNN (ms)	53.25 (37.04–88.61)	65.42 (46.46–103.47)	0.045
IR ₃ V₁ Poincare' SD2 (ms)	70.51 (51.46–123.95)	90.50 (65.17–144.28)	0.045
IR ₃ V₁ LF (ms)	707.26 (458.57–1380.68)	1,061.59 (460.96–2,486.16)	0.045
HR ₂ V ₁ LF (ms)	635.81 (428.80–1156.78)	975.11 (416.68–2,224.80)	0.046
HR ₂ V ₁ Poincare' SD2 (ms)	50.34 (35.54–83.49)	62.10 (43.76–98.14)	0.046
IR ₃ V ₂ SDNN (ms)	53.24 (37.34–88.24)	65.14 (46.36–103.12)	0.046
IR ₃ V₁SDNN (ms)	53.15 (37.33–88.43)	65.43 (46.36–103.48)	0.047
IR ₂ V ₁ SDNN (ms)	35.82 (25.92–59.36)	44.52 (31.01–69.50)	0.047
IR ₂ V ₁ TP (ms)	3,106.02 (1,758.79–8,860.95)	4,987.25 (2,631.89–11,820.92)	0.048
IR ₂ V TP (ms)	1,613.44 (851.36–4,423.94)	2,503.83 (1,318.70–5,965.87)	0.048
IR ₃ V TP (ms)	2,425.59 (1,281.45–6,587.07)	3,755.83 (1,968.65–9,015.68)	0.049
IR ₃ V ₂ TP (ms)	6,966.85 (3,876.32–19,847.56)	11,146.49 (5,865.69–26,330.49)	0.050
HR ₂ V NN50	0.00 (0.00–1.00)	0.00 (0.00–4.00)	0.051
HR ₃ V ₁ TP (ms)	3,530.68 (1,886.68–9,898.59)	5,614.97 (2,940.40–13,276.64)	0.052
IR ₃ V ₂ pNN50	0.00 (0.00–0.00)	0.00 (0.00–0.00)	0.060
IR ₃ V ₂ NN50	0.00 (0.00–0.00)	0.00 (0.00–0.00)	0.065
HR ₃ V ₂ VLF (ms)	4,850.13 (2,331.44–15,497.07)	8,198.39 (3,715.38–20,152.63)	0.067
HR ₂ V ₁ VLF (ms)	2,154.44 (1,037.49–6,897.84)	3,656.31 (1,652.82–8,966.29)	0.068
HR₂V VLF (ms)	1,078.23 (517.88–3,457.54)	1,833.51 (825.91–4,476.60)	0.068
IR₃V VLF (ms)	1,617.49 (776.58–5,191.72)	2,755.37 (1,234.00–6,717.32)	0.068
HR₃V₁ VLF (ms)	2,432.54 (1,146.71–7,778.92)	4,137.30 (1,852.93–10,072.15)	0.070
IR₃V SDHR (bpm)	2.58 (1.95–3.75)	3.07 (2.19–4.26)	0.117
IR ₂ V SDHR (bpm)	4.00 (3.00–5.88)	4.65 (3.35–6.42)	0.118
IR₃V₂SDHR (bpm)	2.58 (1.94–3.76)	3.06 (2.18–4.25)	0.122
HR ₂ V₁ SDHR (bpm)	3.99 (2.97–5.90)	4.65 (3.35–6.42)	0.123
IR₃V₁ SDHR (bpm)	2.58 (1.95–3.77)	3.07 (2.18–4.26)	0.123
HR₃V HF (ms)	97.80 (51.10–286.60)	155.12 (56.77–399.27)	0.125
HR₃V₂ kurtosis	0.28 (0.00–1.22)	0.48 (0.00–3.12)	0.130
HR ₂ V₁ Poincare' SD1	5.94 (4.25–9.80)	7.35 (4.52–13.32)	0.136
HR ₂ V₁ RMSSD	8.40 (6.02–13.85)	10.39 (6.39–18.82)	0.136
HR ₂ V HF (ms)	62.33 (33.88–181.06)	92.36 (38.19–248.84)	0.143
HR₃V RMSSD	22.66 (16.17–36.55)	27.67 (16.01–45.18)	0.147
HR₃V Poincare' SD1	16.04 (11.45–25.90)	19.58 (11.33–32.00)	0.148
HR₃V₁HF (ms)	124.07 (58.87–368.79)	176.91 (70.15–445.68)	0.149
HR₂V RMSSD	13.01 (10.14–22.15)	16.46 (10.37–28.52)	0.156
IR₂V Poincare' SD1	9.21 (7.17–15.68)	11.65 (7.34–20.19)	0.156
HR ₂ V RR Triangular Index	8.40 (5.90–11.40)	9.40 (6.30–14.10)	0.163
HR ₃ V ₂ HF (ms)	246.37 (117.30–674.09)	333.83 (135.20–837.68)	0.163
IR ₃ V ₁ RMSSD	16.38 (12.08–27.80)	19.74 (12.00–33.51)	0.165
HR₃V₁ Poincare' SD1	11.59 (8.55–19.68)	13.97 (8.49–23.72)	0.165
IR ₂ V₁RR Triangular Index	8.40 (6.20–12.80)	9.50 (6.40–14.20)	0.166
HR ₂ V ₁ HF (ms)	124.03 (61.37–349.70)	174.08 (69.90–434.24)	0.167
IR ₃ V ₂ skewness	3.00 (0.00–9.00)	4.00 (0.00–28.00)	0.176
IR₂V₁ kurtosis	0.17 (0.00–1.04)	0.36 (0.00–2.32)	0.187
IR ₃ V ₂ RR Triangular Index	12.00 (8.60–16.70)	13.10 (8.90–19.50)	0.187
IR₃V₂ Poincare' SD1	6.90 (5.10–11.63)	8.64 (5.32–14.51)	0.192
IR ₃ V ₂ RMSSD	9.75 (7.21–16.44)	12.21 (7.53–20.51)	0.192
IR₃V kurtosis	3.39 (1.25–15.47)	6.25 (1.39–19.66)	0.194
IR ₂ V ₁ skewness	2.00 (0.00–9.00)	3.00 (0.00–21.00)	0.216
IR₃V₁ kurtosis	1.26 (0.48–6.54)	2.70 (0.25–10.60)	0.238
IR₃V skewness	11.00 (5.00–41.00)	19.00 (5.00–58.00)	0.247
IR ₂ V kurtosis	0.85 (0.24–4.27)	1.30 (0.20–7.84)	0.255
IR ₃ V ₂ mean NN (ms)	1,110.56 (1,052.84–1,216.75)	1,122.29 (1,057.45–1,253.98)	0.284
IR ₂ V ₁ mean NN (ms)	740.33 (701.91–811.14)	748.16 (704.98–836.04)	0.285
IR ₃ V mean NN (ms)	1,110.49 (1,052.84–1,216.60)	1,122.15 (1,056.47–1,254.02)	0.285
IR ₂ V mean NN (ms)	740.31 (701.91–811.08)	748.12 (704.82–835.96)	0.285
HR₃V₁ mean NN (ms)	1,110.65 (1,053.21–1,216.54)	1,122.03 (1,057.30–1,253.93)	0.288
HR₃V₁ skewness	7.00 (2.00–29.00)	12.00 (1.00–47.00)	0.293
HR₃V AVHR	54.21 (49.34–57.12)	53.65 (47.99–57.00)	0.295
HR ₃ V ₂ AVHR	54.21 (49.34–57.12)	53.65 (48.01–56.99)	0.295
HR ₂ V ₁ AVHR	81.32 (74.01–85.68)	80.48 (72.01–85.50)	0.298
HR ₂ V AVHR	81.33 (74.01–85.68)	80.48 (72.00–85.50)	0.298
HR₃V₁ AVHR	54.21 (49.34–57.09)	53.64 (47.99–57.00)	0.299
HR ₂ V skewness	4.00 (1.00–21.00)	6.00 (1.00–32.00)	0.325
HR₃VRR Triangular Index	11.40 (8.50–15.70)	12.20 (8.50–16.50)	0.366
HR₃V₁ RR Triangular Index	11.60 (8.80–16.10)	12.30 (8.70–18.60)	0.376
$HR_3V_2DFA \alpha 1$	1.65 (1.52–1.79)	1.68 (1.56–1.78)	0.383

HRnV parameters are listed in ascending P value, up to P<0.4. NN50, The number of times that the absolute difference between 2 successive R-R intervals exceeds 50 ms; pNN50, The number of times that the absolute difference between 2 successive R-R intervals exceeds 50 ms, divided by the total number of R-R intervals; LF, Low Frequency; SDNN, Standard deviation of R-R intervals; TP, Total Power; VLF, Very low frequency; SDHR, standard deviation of mean heart rate; HF, High frequency; RMSSD, Square root of the mean squared differences between R-R intervals; R-R, interval between 2 consecutive Rs; Mean NN, Average of R-R intervals; AVHR, Average heart rate; DFA α 1, Detrended fluctuation analysis α 1.

 $\hbox{@}$ Annals of Translational Medicine. All rights reserved.

Table S2 Clinical outcomes for febrile infants with and without SBIs

Variable	Infants with SBIs (n=74)	Infants without SBIs (n=238)	P value
Admitted to ICU/high dependency, n (%)	2 (2.7)	4 (1.7)	0.813
Admitted to general ward, n (%)	70 (94.6)	229 (96.2)	
Discharged against advice or transferred, n (%)	2 (2.7)	5 (2.1)	
Received normal saline bolus resuscitation, n (%)	12 (16.2)	20 (8.4)	0.053
Received intravenous antibiotics, n (%)	72 (97.3)	181 (76.1)	<0.001
Hospital length of stay, days, median (IQR)	4.0 (3.0–5.0)	3.0 (3.0–4.0)	<0.001

SBIs, serious bacterial infections.