#### Supplement Killian, et al.

## Using heart rate variability in the longitudinal assessment of psychiatric treatment:

#### determination of the minimal detectable difference

#### Appendix

Specification of Time Domain Measures

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## **Appendix** . Specification of Time Domain Measures

Suppose there are N successive interbeat intervals denoted RR  $_1$  , RR  $_2$  , ...., RR  $_N$  recorded over an epoch of duration  $T_{Epoch}\,.$ 

$$T_{Epoch} = \sum_{i=1}^{N} RR_{i}$$

In this notation, and in the absence of removing outlying values of RR, the five time domain measures are:

Mean RR interval (Denoted in Kubios by "Mean RR")

$$RR_{Mean} = \frac{1}{N} \sum_{i=1}^{N} RR_{i}$$

Typical units are milliseconds.

Standard deviation of RR intervals (Denoted in Kubios by "STD RR (SDNN)")

SDNN = 
$$\left\{ \frac{1}{N-1} \sum_{i=1}^{N} (RR_i - RR_{Mean})^2 \right\}^{1/2}$$

Typically reported in units of milliseconds.

Mean heart rate (Denoted in Kubios by "Mean HR")

$$\overline{HR} = \frac{1}{N} \sum_{i=1}^{N} 1 / RR_i$$

A change of units is required. Interbeat intervals are typically reported in milliseconds and mean heart rate is typically reported in  $\min^{-1}$ .

Standard deviation of heart rate (Denoted in Kubios by "STD HR")

STDHR = 
$$\left\{ \frac{1}{N-1} \sum_{i=1}^{N} (1/RR_i - \overline{HR})^2 \right\}^{1/2}$$

Typically reported in units of min<sup>-1</sup>

Root mean square of successive differences (Denoted by "RMSSD" in Kubios documentation)

Given N RR intervals, define N-1 successive differences

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$$D_{1} = D_{2} - D_{1}$$

$$D_{2} = D_{3} - D_{2}$$

$$D_{3} = D_{4} - D_{3}$$

$$\vdots$$

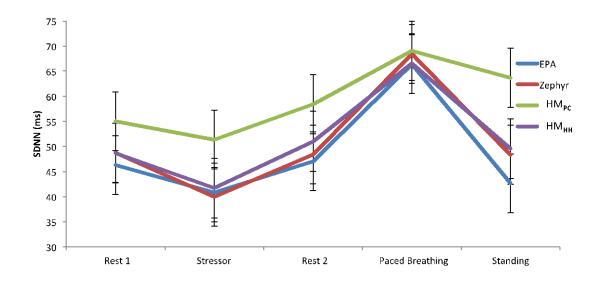
$$D_{N-1} = D_{N} - D_{N-1}$$

The root mean square of successive differences is given by:

$$RMSSD = \left\{ \frac{1}{N-1} \sum_{i=1}^{N-1} D_i^2 \right\}^{1/2}$$

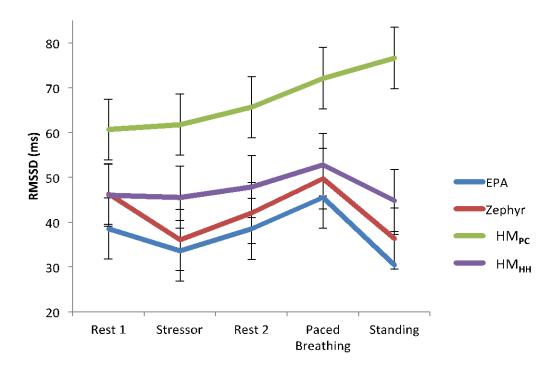
It is reported in units of milliseconds.

#### Figure 1. SDNN



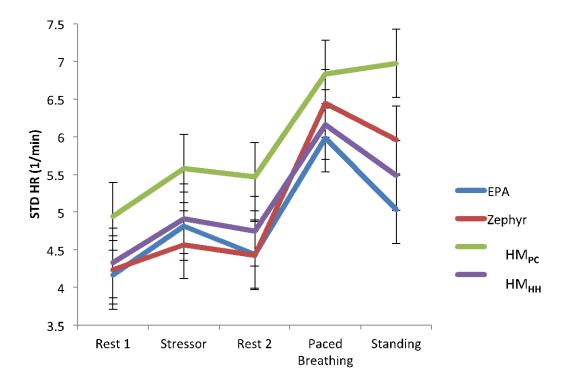
**Figure 1. Standard Deviation of RR values** (SDNN): (a) When aggregating data across both sessions, there was a main effect of segment, indicating a general decrease in SDNN from initial rest, in response to the stressor, followed by a general increase during the recovery portion of the paradigm and then a slight decrease in SDNN during the standing segment (F=26.02, p<.001); (b) There appeared to be a main effect of device, such that HM<sub>PC</sub> tended to display greater SDNN values compared to all other devices (F=9.32, p<.001), with post-hoc analyses revealing higher SDNN value at standing for the HM<sub>PC</sub> device compared to the EPA6 device; and (c) when examining the interaction between device and segment all 4 devices tended to vary in a similar pattern throughout the session (F=0.75, P=.70). Data from a linear mixed model with two fixed factors (device, segment) and a random subject effect to calculate the difference between devices and between sessions.

### Figure 2. RMSSD



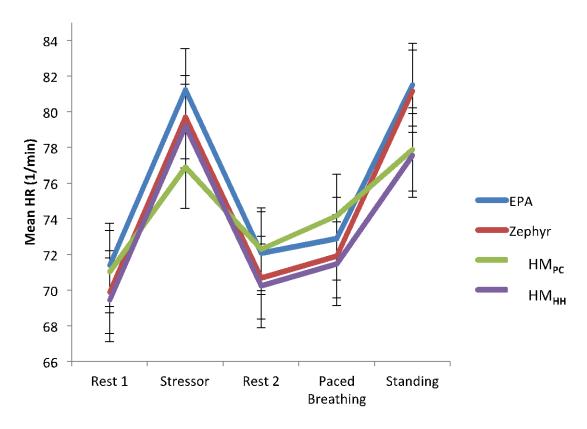
**Figure 2. Root mean square of successive differences values (RMSSD):** (a) When aggregating data across both sessions, there was a main effect of segment, indicating a general decrease in RMSSD from initial rest, in response to the stressor, followed by a general increase during the recovery portion of the paradigm and then a slight decrease in RMSSD during the standing segment (F=2.97, p=.02); (b) There appeared to be a main effect of device, such that HM<sub>PC</sub> tended to display greater RMSSD values compared to all other devices (F=41.76, p<.001), with post-hoc analyses revealing higher RMSSD value at each time segment for the HM<sub>PC</sub> device compared to EPA6; and (c) when examining the interaction between device and segment all 4 devices tended to vary in a similar pattern throughout the session (F=1.00, p=.45). Data from a linear mixed model with two fixed factors (device, segment) and a random subject effect to calculate the difference between devices and between sessions.

### Figure 3. STD HR

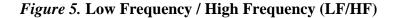


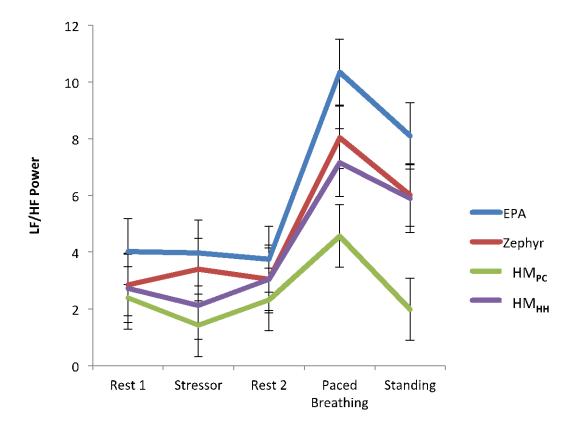
**Figure 3. Standard deviation of instantaneous heart values (STD HR):** (a) When aggregating data across both sessions, there was a main effect of segment, indicating a general increase in STD HR from initial rest, in response to the stressor, followed by a general decrease during the recovery portion of the paradigm and then a slight decrease in STD HR during the standing segment (F=19.62, p<.001); (b) There appeared to be a main effect of device, such that HM<sub>PC</sub> tended to display greater STD HR values compared to all other devices (F=8.48, p<.001), with post-hoc analyses revealing higher STD HR value at standing for the HM<sub>PC</sub> device compared to EPA6; and (c) when examining the interaction between device and segment all 4 devices tended to vary in a similar pattern throughout the session (F=.53, p=.90). Data from a linear mixed model with two fixed factors (device, segment) and a random subject effect to calculate the difference between devices and between sessions.

### Figure 4. Mean HR



**Figure 4. Mean heart rate values (Mean HR):** (a) When aggregating data across both sessions, there was a main effect of segment, indicating a general increase in Mean HR from initial rest, in response to the stressor, followed by a general decrease during the recovery portion of the paradigm and then a slight increase in Mean HR during the standing segment (F=62.04, p<.001); (b) There appeared to be a main effect of device, such that HM<sub>HH</sub> tended to display lower Mean HR values compared to the EPA6 device (F=3.32, p=.02); and (c) when examining the interaction between device and segment all 4 devices tended to vary in a similar pattern throughout the session (F=1.32, p=.20). Data from a linear mixed model with two fixed factors (device, segment) and a random subject effect to calculate the difference between devices and between sessions.





**Figure 5.** Low frequency to high frequency ratio values (LF/HF): (a) When aggregating data across both sessions, there was a main effect of segment, indicating a general increase in LF/HF from the stressor to the paced breathing portion of the paradigm and then a slight decrease in LF/HF during the standing segment (F=17.64, p<.001); (b) There appeared to be a main effect of device, such that HM<sub>PC</sub> tended to display lower LF/HF values compared to all other devices (F=10.65, p<.001) with post-hoc analyses revealing that at standing, HM<sub>PC</sub> displayed lower LF/HF compared to EPA6; and (c) when examining the interaction between device and segment all 4 devices tended to vary in a similar pattern throughout the session (F=1.01, p=.44). Data from a linear mixed model with two fixed factors (device, segment) and a random subject effect to calculate the difference between devices and between sessions.

# Table 1. Operational reliability of the four devices

Device Operational Reliability expressed numerically as probability of successful operations ( $p_s$ ) and probability of operational failures ( $p_f$ ) based upon observed recordings of 140 time segments. ( $p_s + p_f = 1$ )

Device	Successful	Probability of	Probability of
	Operations	success	failure
EPA6	140/140	1.0000	0.0000
BioPatch	140/140	1.0000	0.0000
$HM_{PC}$	113/140	0.8071	0.1929
$\mathrm{HM}_{\mathrm{HH}}$	125/140	0.8929	0.1071

**Table 2. Numerical Values of Heart Rate Variability Measures** 

Mean numerical values of six measures of heart rate variability in five conditions (Rest 1, Stressor, Rest 2, Paced Breathing, Standing) for each of four devices (EPA6, BioPatch,  $HM_{PC}$ ,  $HM_{HH}$ ). The numerical results present the mean values and the standard deviations of those means. The six measures are: mean RR interval (RR<sub>Mean</sub>), standard deviation of RR intervals (SDNN), mean heart rate (HR<sub>Mean</sub>), standard deviation of heart rate (STD HR), root mean square of successive differences (RMSSD) and the ratio of low frequency to high frequency spectral power (LF/HF Power)

	EPA6	BioPatch	НМРС	НМнн
RR <sub>Mean</sub> (ms)	859.00 ±	876.91 ±	860.18 ±	896.20 ±
Rest 1	108.19	104.78	87.87	91.65
RR <sub>Mean</sub> (ms)	754.23 ±	768.49 ±	794.14 ±	787.16 ±
Stressor	91.46	85.92	80.49	87.30
RR <sub>Mean</sub> (ms)	849.80 ±	866.55 ±	846.10 ±	886.59 ±
Rest 2	97.23	98.11	86.07	87.66
RR <sub>Mean</sub> (ms)	846.69 ±	858.76 ±	827.68 ±	878.04 ±
Paced Breath	114.02	111.53	85.66	102.99
RR <sub>Mean</sub> (ms)	750.38 ±	755.11 ±	784.05 ±	800.35 ±
Standing	78.84	82.62	57.59	69.46
	EPA6	BioPatch	НМРС	НМнн
SDNN (ms)	46.30 ±	48.75 ±	55.03 ±	50.20 ±
Rest 1	26.17	26.84	26.49	24.45
SDNN (ms)	40.81 ±	39.97 ±	51.34 ±	43.22 ±
Stressor	22.55	18.76	18.57	14.02
SDNN (ms)	47.06 ±	48.41 ±	58.38 ±	52.54 ±
Rest 2	22.76	22.80	18.73	23.48
SDNN (ms)	66.38 ±	68.41 ±	69.05 ±	68.04 ±
Paced Breath	27.98	27.11	16.19	24.60
SDNN (ms)	42.64 ±	48.33 ±	63.68 ±	51.08 ±
Standing	15.86	20.39	15.26	15.11
	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
HR <sub>Mean</sub> (1/min)	$71.40 \pm$	69.89 ±	71.03 ±	68.08 ±
Rest 1	9.27	8.36	7.52	6.64
HR <sub>Mean</sub> (1/min)	81.22 ±	79.69 ±	76.90 ±	77.82 ±
Stressor	9.69	8.99	7.96	8.90
HR <sub>Mean</sub> (1/min)	72.08 ±	70.69 ±	72.29 ±	68.89 ±
Rest 2	8.56	8.29	7.68	6.72
HR <sub>Mean</sub> (1/min)	72.88 ±	71.89 ±	74.16 ±	70.11 ±
Paced Breath	10.45	9.72	8.39	8.53
HR <sub>Mean</sub> (1/min)	81.51 ±	81.15 ±	77.89 ±	76.18 ±
Standing	8.46	8.85	5.91	6.72

**Table 2. Continued Numerical Values of Heart Rate Variability Measures** 

	EPA6	BioPatch	НМРС	НМнн
STD HR (1/min)	4.166 ±	4.236 ±	4.944 ±	4.354 ±
Rest 1	1.502	1.304	1.581	1.619
STD HR (1/min)	4.815 ±	4.569 ±	5.578 ±	4.936 ±
Stressor	2.095	1.352	1.720	1.321
STD HR (1/min)	4.442 ±	4.426 ±	5.471 ±	4.773 ±
Rest 2	1.268	1.190	1.114	1.831
STD HR (1/min)	5.986 ±	6.442 ±	6.831 ±	6.187 ±
Paced Breath	2.103	2.064	1.822	1.944
STD HR (1/min)	5.033 ±	5.958 ±	6.971 ±	5.512 ±
Standing	1.554	2.285	2.076	1.419
	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
RMSSD (ms)	38.55 ±	46.27 ±	60.68 ±	47.22 ±
Rest1	26.09	32.72	37.85	23.68
RMSSD (ms)	33.59 ±	36.04 ±	61.78 ±	46.74 ±
Stressor	25.53	24.92	27.74	17.18
RMSSD (ms)	38.53 ±	42.04 ±	65.69 ±	49.08 ±
Rest 2	24.43	24.44	29.19	24.52
RMSSD (ms)	45.46 ±	49.74 ±	72.12 ±	53.99 ±
Paced Breath	26.29	24.54	23.20	23.91
RMSSD (ms)	30.42 ±	36.35 ±	76.63 ±	45.99 ±
Standing	19.82	21.76	24.78	18.68
	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
LF/HF Power	4.021±	2.851 ±	2.392 ±	2.770 ±
Rest 1	3.626	2.151	2.960	2.456
LF/HF Power	3.969 ±	3.394 ±	1.422 ±	2.175 ±
Stressor	2.953	2.552	0.824	1.890
LF/HF Power	3.754 ±	3.043 ±	2.329 ±	3.106 ±
Rest 2	3.048	1.995	2.178	2.400
LF/HF Power	10.348 ±	8.043 ±	4.568 ±	7.213 ±
Paced Breath	7.581	6.079	5.451	5.949
LF/HF Power	8.101 ±	6.016 ±	1.986 ±	5.946 ±
Standing	8.427	4.724	2.626	6.793

**Table 3. Minimal Detectable Difference with Confidence Intervals** 

	EPA6	BioPatch	НМРС	НМнн
RR <sub>Mean</sub> (ms)	137.21	146.35	137.00	126.23
Rest1	[80.66, 219.13]	[86.74, 229.34]	[75.56, 220.89]	[66.05, 216.11]
RR <sub>Mean</sub> (ms)	136.79	132.19	105.73	140.14
Stressor	[81.64, 211.11]	79.15, 202.62]	[57.24, 178.43]	[74.71, 229.03]
RR <sub>Mean</sub> (ms)	158.55	155.00	158.07	138.83
Rest 2	[95.62, 239.43	[93.11, 236.06]	[89.48, 241.20]	[73.87, 227.90]
RR <sub>Mean</sub> (ms)	108.51	108.28	136.15	120.37
Paced Breath1	[62.75, 180.59]	[62.67, 179.80]	[75.29, 218.24]	[61.10, 214.41]
RR <sub>Mean</sub> (ms)	159.47	117.60	149.06	122.53
Standing1	[99.82, 225.12]	[69.83, 183.54]	[93.67, 194.44]	[59.89, 203.61]
	EPA6	BioPatch	<b>HM</b> <sub>PC</sub>	ННнн
SDNN (ms)	29.83	72.08	26.63	28.71
Rest 1	[17.41, 48.49]	[49.48, 90.12]	[14.14, 47.29]	[14.82, 51.09]
SDNN (ms)	SDNN (ms) 56.29 23.79		17.07	17.14
Stressor	[37.47, 72.89]	[13.98, 37.99]	[9.04, 30.69]	[8.87, 30.23]
SDNN (ms)	20.17	21.14	35.51	21.71
Rest 2	[11.63, 33.82]	[12.21, 35.28]	[20.23, 53.53]	[11.05, 40.30]
SDNN (ms)	33.04	32.01	27.67	32.20
Paced Breath	[19.33, 53.41]	[18.72, 51.75]	[15.47, 43.32]	[16.76, 55.87]
SDNN (ms)	16.60	22.63	26.21	19.61
Standing	[9.64, 27.31]	[13.19, 36.94]	[14.67, 40.97]	[9.18, 36.55]
	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
HR <sub>Mean</sub> (1/min)	11.05	11.73	10.84	9.87
Rest 1	[6.46, 17.83]	[6.95, 18.36]	[5.92, 17.87]	[5.21, 16.54]
HR <sub>Mean</sub> (1/min)	16.96	16.42	10.64	17.65
Stressor	[10.33, 25.10]	[10.08, 23.99]	[5.77, 17.88]	[9.79, 26.59]
HR <sub>Mean</sub> (1/min)	13.97	12.91	13.51	11.84
Rest 2	[8.43, 21.10]	[7.74, 19.73]	[7.59, 20.94]	[6.41, 18.71]
HR <sub>Mean</sub> (1/min)	10.14	10.15	12.36	10.72
Paced Breath	[5.87, 16.84]	[5.89, 16.70]	[6.77, 20.26]	[5.56, 18.78]
HR <sub>Mean</sub> (1/min)	17.14	12.24	15.34	12.67
Stdanding	danding [10.73, 24.18] [7.25, 19.22]		[9.65, 19.98]	[6.28, 20.41]

**Table 3. Continued Minimal Detectable Difference with Confidence Intervals** 

	EPA6	BioPatch	НМРС	НМнн
STD HR (ms)	2.101	1.515	2.860	2.085
Rest1	[1.245, 3.291]	[0.885, 2.456]	[1.615, 4.389]	[1.084, 3.632]
STD HR (ms)	5.163	2.288	2.201	2.101
Stressor	[3.420, 6.725]	[1.387, 3.421]	[1.189, 3.736]	[1.118, 3.444]
STD HR (ms)	1.710	1.863	3.092	2.989
Rest 2	[1.010, 2.699]	[1.118, 2.844]	[2.015, 3.878]	[1.597, 4.857]
STD HR (ms)	3.172	5.338	3.276	2.795
Paced Breath1	[1.895, 4.886]	[3.603, 6.798]	[1.847, 5.038]	[1.469, 4.728]
STD HR (ms)	2.269	4.862	3.789	2.291
Standing1	[1.351, 3.521]	[3.080, 6.735]	[2.142, 5.795]	[1.103, 3.954]
	EPA6	BioPatch	<b>HM</b> <sub>PC</sub>	ННнн
RMSSD (ms)	31.15	84.95	30.96	45.44
Rest 1	[18.23, 50.26]	[57.44, 107.98]	[16.32, 56.44]	[25.01, 69.41]
RMSSD (ms)	53.15	44.51	35.92	28.80
Stressor			[19.42, 60.82]	[15.46, 46.36]
RMSSD (ms)	33.27	37.40	47.51	39.55
Rest 2	[19.68, 52.42]	[22.38, 57.41]	[26.36, 75.59]	[21.10, 64.53]
RMSSD (ms)	36.11	27.22	34.09	25.95
Paced Breath	[21.37, 56.79]	[15.86, 44.43]	[18.67, 55.91]	[13.32, 46.91]
RMSSD (ms)	33.98	29.40	42.19	27.76
Standing	[20.64, 50.61]	[17.37, 46.38]	[23.57, 66.14]	[13.20, 49.95]
	EPA6	BioPatch	<b>HM</b> <sub>PC</sub>	HM <sub>HH</sub>
LF/HF Power	3.396	2.384	2.841	3.635
Rest 1	[1.962, 5.661]	[1.389, 3.891]	[1.507, 5.079]	[1.917, 6.096]
LF/HF Power	5.044	3.592	2.217	2.442
Stressor	[3.062, 7.519]	[2.131, 5.619]	[1.421, 2.831]	[1.270, 4.251]
LF/HF Power	3.754	4.016	4.430	2.902
Rest 2	[2.202, 6.026]	[2.511, 5.678]	[2.564, 6.491]	[1.501, 5.131]
LF/HF Power	14.54	13.955	7.524	13.785
Paced Breath	[9.002, 20.909]	[9.028, 18.751]	[4.092, 12.545]	[8.001, 19.283]
LF/HF Power	7.571	9.210	7.467	19.062
Standing	[4.368, 12.676]	[5.721, 13.171]	[4.938, 9.236]	[11.102,
				24.406]

**Table 4. Intraclass correlation coefficients** 

Intraclass correlation coefficients (ICC (2,1), Shrout and Fleiss, 1979) for six measures of heart rate variability (Mean RR, SDNN, Mean HR, STD HR, RMSSD, LF/HF Power), in five conditions (Rest 1, Stressor, Rest 2, Paced Breathing, Standing), for each of four devices (EPA6, BioPatch, HM<sub>PC</sub>, HM<sub>HH</sub>). Numerical results report the intraclass correlation coefficient, and the corresponding 95% confidence intervals.

	EPA6	Biopatch	HM <sub>PC</sub>	$\mathbf{H}\mathbf{M}_{\mathbf{H}\mathbf{H}}$
RR <sub>Mean</sub> (ms)	ean (1113)	0.7461	0.6836	0.7531
Rest 1		[0.3764, 0.9108]	[0.1776, 0.9038]	[0.2763, 0.9324]
RR <sub>Mean</sub> (ms)	0.7088	0.6919	0.7755	0.6646
Stressor	[0.3065, 0.8963]	[0.2761, 0.8895]	[0.3605, 0.9342]	[0.1042, 0.9047]
RR <sub>Mean</sub> (ms)	0.6540	0.6751	0.5610	0.6735
Rest 2	[0.2108, 0.8741]	[0.2468, 0.8828]	[-0.0222, 0.8593]	[0.1202, 0.9076]
RR <sub>Mean</sub> (ms)	0.8821	0.8773	0.6712	0.8222
Paced Breath	[0.6735, 0.9606]	[0.6617, 0.9589]	[0.1552, 0.8995]	[0.4359, 0.9527]
RR <sub>Mean</sub> (ms) Standing	0.4675	0.7363	0.1281	0.5950
	[-0.0611, 0.7914]	[0.3576, 0.9070]	[-0.4836, 0.6557]	[-0.1183, 0.9032]
	EPA6	Biopatch	$HM_{PC}$	$\mathrm{HM}_{\mathrm{HH}}$
SDNN (ms)	0.8309	0.0614	0.8684	0.8205
Rest 1	[0.5532, 0.9424]	[-0.4673, 0.5578]	[0.5851, 0.9628]	[0.4317, 0.9522]
SDNN (ms)	0.1890	0.7907	0.8901	0.8055
Stressor	[-0.3599, 0.6408]	[0.4662, 0.9277]	[0.6445, 0.9692]	[0.3950, 0.9479]
SDNN (ms)	0.8977 [0.7125,	0.8882 [0.6884,	0.5322	0.8887 [0.6165,
Rest 2	0.9660]	0.9627]	[-0.0631, 0.8482]	0.9711]
SDNN (ms)	0.8185	0.8185	0.6196	0.7772
Paced Breath	[0.5256, 0.9379]	[0.5257, 0.9379]	[0.0678, 0.8811]	[0.3290, 0.9396]
SDNN (ms)	0.8574	0.8397	0.6159	0.7810
Standing	[0.6140, 0.9519]	[0.5731, 0.9456]	[0.0619, 0.8798]	[0.2389, 0.9519]

**Table 4. Continued: Intraclass correlation coefficients** 

	EPA6	Biopatch	HMPC	НМНН
HR <sub>Mean</sub>	0.8152	0.7439	0.7296	0.7127
(1/min)	[0.5185, 0.9367]	[0.3722, 0.9099]	[0.2650, 0.9193]	[0.1937, 0.9200]
Rest 1				
HR <sub>Mean</sub>	0.6019	0.5656	0.7677	0.4883
(1/min)	[0.1272, 0.8522]	[0.0728, 0.8364]	[0.3437, 0.9317]	[-0.1612, 0.8426]
Stressor				
HR <sub>Mean</sub>	0.6536	0.6843	0.5966	0.5957
(1/min)	[0.2103, 0.8740]	[0.2628, 0.8865]	[0.0314, 0.8727]	[-0.0100, 0.8816]
Rest 2				
HR <sub>Mean</sub>	0.8774	0.8581	0.7173	0.7944
(1/min)	[0.6619, 0.9589]	[0.6157, 0.9521]	[0.2408, 0.9152]	[0.3687, 0.9447]
Paced Breath				
HR <sub>Mean</sub>	0.4657	0.7511	0.1233	0.5371
(1/min)	[-0.0635, 0.7905]	[0.3862, 0.9127]	[-0.4873, 0.6529]	[-0.2013, 0.8863]
Standing				
_				
	EPA6	Biopatch	$\mathbf{HM}_{\mathbf{PC}}$	$\mathbf{H}\mathbf{M}_{\mathbf{H}\mathbf{H}}$
STD HR	0.7455	0.8244	0.5739	0.7843
Rest 1	[0.3753, 0.9106]	[0.5387, 0.9401]	[-0.0031, 0.8642]	[0.3452, 0.9417]
Kest 1				
STD HR	0.2093	0.6272	0.7869	0.6709
Stressor	[-0.3414, 0.6530]	[0.1671, 0.8630]	[0.3857, 0.9378]	[0.1154, 0.9067]
STD HR	0.7636	0.6807	-0.0030	0.6534
Rest 2	[0.4109, 0.9175]	[0.2564, 0.8850]	[-0.5780, 0.5739]	[0.0845, 0.9010]
STD HR	0.7037	0.1295	0.5794	0.7309
Paced Breath	[0.2973, 0.8943]	[-0.4119, 0.6033]	[0.0052, 0.8663]	[0.2301, 0.9256]
STD HR	0.7225	0.4106	0.5665	0.6608
Standing	[0.3317, 0.9017]	[-0.1310, 0.7635]	[-0.0141, 0.8614]	[-0.0099, 0.9214]

**Table 4. Continued: Intraclass correlation coefficients** 

	EPA6	Biopatch	HM <sub>PC</sub>	$HM_{HH}$
RMSSD (ms)	0.8145	0.1224	0.9129	0.5205
Rest1	[0.5170, 0.9365]	[-0.4178, 0.5987]	[0.7106, 0.9758]	[-0.1188, 0.8547]
RMSSD (ms)	0.4361	0.5848	0.7818	0.6340
Stressor	[-0.1004, 0.7761]	[0.1013, 0.8449]	[0.3743, 0.9362]	[0.0517, 0.8946]
RMSSD (ms)	0.7587	0.6953	0.6553	0.6613
Rest 2	[0.4011, 0.9156]	[0.2822, 0.8909]	[0.1274, 0.8939]	[0.0984, 0.9036]
RMSSD (ms)	0.7544	0.8398	0.7188	0.8467
Paced Breath	[0.3926, 0.9140]	[0.5734, 0.9456]	[0.2438, 0.9157]	[0.4989, 0.9596]
RMSSD (ms)	0.6173	0.7624	0.6227	0.7124
Standing	[0.1513, 0.8588]	[0.4085, 0.9170]	[0.0728, 0.8822]	[0.0875, 0.9349]

	EPA6	Biopatch	НМРС	НМнн
LF/HF Power	0.8858	0.8401	0.8802	0.7148
Rest 1	[0.6827, 0.9619]	[0.5739, 0.9457]	[0.6169, 0.9663]	[0.1979, 0.9207]
LF/HF Power	0.6204	0.7421	0.0573	0.7827
Stressor	[0.1562, 0.8601]	[0.3688, 0.9093]	[-0.5364, 0.6131]	[0.3416, 0.9412]
LF/HF Power	0.8026	0.4725	0.4618	0.8097
Rest 2	[0.4913, 0.9321]	[-0.0547, 0.7937]	[-0.1556, 0.8197]	[0.4052, 0.9491]
LF/HF Power	0.5212	0.3141	0.7521	0.3011
Paced Breath	[0.0098, 0.8165]	[-0.2384, 0.7130]	[0.3107, 0.9267]	[-0.3676, 0.7646]
LF/HF Power	0.8950	0.5053	-0.0525	-0.0248
Standing	[0.7055, 0.9650]	[-0.0117, 0.8091]	[-0.6100, 0.5398]	[-0.6799, 0.6524]

**Table 5. Standard Error of Measurement** 

	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
RR <sub>Mean</sub> (ms)	49.50	52.80	49.42	45.54
Rest1	[29.10, 79.05]	[31.29, 82.74]	[27.26, 79.69]	[23.83, 77.97]
RR <sub>Mean</sub> (ms)	49.35	47.69	38.14	50.56
Stressor	[29.45, 76.16]	[28.56, 73.10]	[20.65, 64.37]	[26.95, 82.63]
RR <sub>Mean</sub> (ms)	57.20	55.92	57.03	50.08
Rest 2	[34.50, 86.38]	[33.59, 85.15]	[32.28, 87.02]	[26.65, 82.22]
RR <sub>Mean</sub> (ms)	39.15	39.06	49.12	43.43
Paced Breath1	[22.64, 65.15]	[22.61, 64.87]	[27.16, 78.73]	[22.41, 77.35]
RR <sub>Mean</sub> (ms)	57.53	42.43	53.78	44.21
Standing1	[36.01, 81.22]	[25.19, 66.22]	[33.79, 70.15]	[21.61, 73.46]
	EPA6	BioPatch	HM <sub>PC</sub>	ННнн
SDNN (ms)	10.76	26.00	9.61	10.36
Rest 1	[6.29, 17.49]	[17.85, 32.51]	[5.11, 17.06]	[5.35, 18.43]
SDNN (ms)	20.31	8.58	6.16	6.18
Stressor	or [13.52, 26.30] [5.04, 13.71]	[5.04, 13.71]	[3.26, 11.07]	[3.20, 10.91]
SDNN (ms)	7.28	7.63	12.81	7.83
Rest 2	[4.20, 12.20]	[4.41, 12.73]	[7.30, 19.31]	[3.99, 14.54]
SDNN (ms)	11.92	11.55	9.98	11.62
Paced Breath	[6.97, 19.27]	[6.75, 18.67]	[5.58, 15.63]	[6.05, 20.15]
SDNN (ms)	5.99	8.16	9.46	7.07
Standing	[3.48, 9.85]	[4.76, 13.33]	[5.29, 14.78]	[3.31, 13.19]
	EPA6	BioPatch	НМРС	НМнн
HR <sub>Mean</sub> (1/min)	3.99	4.23	3.91	3.56
Rest 1	[2.33, 6.43]	[2.51, 6.62]	[2.14, 6.45]	[1.88, 5.97]
HR <sub>Mean</sub> (1/min)	6.12	5.92	3.84	6.37
Stressor	[3.73, 9.06]	[3.64, 8.66]	[2.08, 6.45]	[3.53, 9.59]
HR <sub>Mean</sub> (1/min)	5.04	4.66	4.88	4.27
Rest 2	[3.04, 7.61]	[2.79, 7.12]	[2.74, 7.55]	[2.31, 6.75]
HR <sub>Mean</sub> (1/min)	3.66	3.66	4.46	3.87
Paced Breath	[2.12, 6.08]	[2.13, 6.03]	[2.44, 7.31]	[2.01, 6.78]
HR <sub>Mean</sub> (1/min)	6.18	4.42	5.53	4.57
Stdanding	[3.87, 8.72]	[2.61, 6.93]	[3.48, 7.21]	[2.27, 7.36]

**Table 5. Continued. Standard Error of Measurement** 

	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
STD HR (ms)	0.758	0.547	1.032	0.752
Rest1	[0.449, 1.187]	[0.319, 0.886]	[0.583, 1.583]	[0.391, 1.310]
STD HR (ms)	1.863	0.826	0.794	0.758
Stressor	[1.234, 2.426]	[5.501, 1.234]	[0.429, 1.348]	[0.404, 1.243]
STD HR (ms)	0.617	0.672	1.115	1.078
Rest 2	[0.364, 0.974]	[0.403, 1.026]	[0.727, 1.399]	[0.576, 1.752]
STD HR (ms)	1.145	1.926	1.182	1.009
Paced Breath1	[0.684, 1.763]	[1.300, 2.452]	[0.666, 1.818]	[0.530, 1.706]
STD HR (ms)	0.818	1.754	1.367	0.827
Standing1	[0.487, 1.270]	[1.111, 2.430]	[0.773, 2.091]	[0.398, 1.426]
	EPA6	BioPatch	HM <sub>PC</sub>	ННнн
RMSSD (ms)	11.24	30.65	11.17	16.39
Rest 1	[6.58, 18.13]	[20.72, 38.96]	[5.89, 20.36]	[9.02, 25.04]
RMSSD (ms)	19.17	16.06	12.96	10.39
Stressor	[12.08, 26.78]	[9.82, 23.63]	[7.01, 21.94]	[5.58, 16.73]
RMSSD (ms)	12.00	13.49	17.14	14.27
Rest 2	[7.09, 18.91]	[8.07, 20.71]	[9.51, 27.27]	[7.61, 23.28]
RMSSD (ms)	13.03	9.82	12.30	9.36
Paced Breath	[7.71, 20.49]	[5.72, 16.03]	[6.74, 20.17]	[4.81, 16.92]
RMSSD (ms)	12.26	10.61	15.22	10.02
Standing	[7.45, 18.26]	[6.27, 16.73]	[8.50, 23.86]	[4.76, 17.84]
	EPA6	BioPatch	HM <sub>PC</sub>	НМнн
LF/HF Power	1.225	0.860	1.025	1.312
Rest 1	[0.708, 2.042]	[0.501, 1.404]	[0.544, 1.832]	[0.692, 2.199]
LF/HF Power	1.820	1.296	0.800	0.881
Stressor	[1.105, 2.713]	[0.769, 2.027]	[0.513, 1.021]	[0.458, 1.534]
LF/HF Power	1.354	1.449	1.598	1.047
Rest 2	[0.794, 2.174]	[0.906, 2.049]	[0.925, 2.342]	[0.541, 1.851]
LF/HF Power	5.246	5.035	2.714	4.973
Paced Breath	[3.248, 7.543]	[3.257, 6.765]	[1.476, 4.526]	[2.886, 6.957]
LF/HF Power	2.731	3.323	2.694	6.877
Standing	[1.576, 4.573]	[2.064, 4.752]	[1.781, 3.332]	[4.005, 8.805]

# Table 6. Bland-Altman Limits of Agreement

Limits of Agreement and 95% Confidence Intervals of five measures of heart rate variability (Mean RR, SDNN, Mean HR, STD HR, RMSSD, LF/HF Power), in five conditions (Rest 1, Stressor, Rest 2, Paced Breathing, Standing), comparing three devices (BioPatch, HM<sub>PC</sub>, HM<sub>HH</sub>) against the EPA6. Numerical results are: (1.) mean value of the inter-device difference and the standard deviation of that mean, (2.) the lower limit of agreement and the confidence interval of that limit of agreement, (3.) the upper limit of agreement and the confidence interval of that limit of agreement.

				Mean Difference	Lower Limit of Agreement	Upper Limit of Agreement
Device 1	Device 2	Segment	Measure	(SD)	(95%CI)	(95% CI)
EPA6	BioPatch	Rest 1	Mean RR	-18.808 (13.906)	-46.063 (-59.97, -32.157)	8.447 (-5.459, 22.354)
EPA6	BioPatch	Stressor	Mean RR	-14.704 (6.82)	-28.071 (-34.892, -21.251)	-1.336 (-8.156, 5.485)
EPA6	BioPatch	Rest 2	Mean RR	-16.056 (14.131)	-43.753 (-57.885, -29.621)	11.641 (-2.491, 25.772)
EPA6	BioPatch	Paced Breathing	Mean RR	-10.495 (25.385)	-60.25 (-85.637, -34.863)	39.26 (13.873, 64.647)
EPA6	BioPatch	Standing	Mean RR	-9.946 (21.481)	-52.048 (-73.531, -30.566)	32.157 (10.675, 53.639)
EPA6	BioPatch	Rest 1	SDNN	-3.446 (4.405)	-12.079 (-16.484, -7.674)	5.188 (0.783, 9.593)
EPA6	BioPatch	Stressor	SDNN	9.118 (51.193)	-91.22 (-142.415, -40.024)	109.457 (58.261, 160.652)
EPA6	BioPatch	Rest 2	SDNN	-1.466 (3.741)	-8.799 (-12.54, -5.057)	5.867 (2.126, 9.609)
EPA6	BioPatch	Paced Breathing	SDNN	-4.571 (16.113)	-36.153 (-52.267, -20.039)	27.011 (10.897, 43.125)
EPA6	BioPatch	Standing	SDNN	-7.985 (13.05)	-33.563 (-46.614, -20.512)	17.594 (4.543, 30.645)
EPA6	BioPatch	Rest 1	Mean HR	1.734 (1.869)	-1.929 (-3.798, -0.06)	5.398 (3.528, 7.267)
EPA6	BioPatch	Stressor	Mean HR	1.486 (0.698)	0.119 (-0.579, 0.817)	2.854 (2.156, 3.551)
EPA6	BioPatch	Rest 2	Mean HR	1.391 (1.189)	-0.94 (-2.129, 0.249)	3.721 (2.532, 4.91)
EPA6	BioPatch	Paced Breathing	Mean HR	0.793 (2.723)	-4.545 (-7.268, -1.821)	6.131 (3.407, 8.854)
EPA6	BioPatch	Standing	Mean HR	1.079 (2.384)	-3.594 (-5.978, -1.209)	5.752 (3.368, 8.137)
EPA6	BioPatch	Rest 1	STD HR	-0.193 (0.503)	-1.178 (-1.681, -0.676)	0.793 (0.29, 1.295)
EPA6	BioPatch	Stressor	STD HR	0.601 (3.573)	-6.401 (-9.974, -2.829)	7.603 (4.03, 11.176)
EPA6	BioPatch	Rest 2	STD HR	0.049 (0.568)	-1.064 (-1.632, -0.497)	1.162 (0.594, 1.729)
EPA6	BioPatch	Paced Breathing	STD HR	-1.163 (4.107)	-9.213 (-13.32, -5.105)	6.887 (2.78, 10.994)
EPA6	BioPatch	Standing	STD HR	-1.331 (3.339)	-7.876 (-11.215, -4.536)	5.214 (1.875, 8.554)
EPA6	BioPatch	Rest 1	RMSSD	-6.816 (7.951)	-22.399 (-30.35, -14.448)	8.768 (0.817, 16.719)
EPA6	BioPatch	Stressor	RMSSD	0.762 (34.162)	-66.196 (-100.361, -32.032)	67.721 (33.556, 101.885)
EPA6	BioPatch	Rest 2	RMSSD	-3.634 (7.244)	-17.833 (-25.077, -10.588)	10.564 (3.32, 17.809)
EPA6	BioPatch	Paced Breathing	RMSSD	-5.775 (14.717)	-34.62 (-49.337, -19.902)	23.07 (8.352, 37.787)
EPA6	BioPatch	Standing	RMSSD	-8.03 (12.319)	-32.176 (-44.496, -19.856)	16.116 (3.796, 28.436)
EPA6	BioPatch	Rest 1	LF/HF Power	1.321 (2.363)	-3.311 (-5.674, -0.948)	5.952 (3.589, 8.315)
EPA6	BioPatch	Stressor	LF/HF Power	0.671 (2.097)	-3.44 (-5.537, -1.343)	4.781 (2.684, 6.879)

				Mean Difference	Lower Limit of Agreement	Upper Limit of Agreement
Device 1	Device 2	Segment	Measure	(SD)	(95%CI)	(95% CI)
EPA6	BioPatch	Rest 2	LF/HF Power	0.714 (2.216)	-3.629 (-5.845, -1.413)	5.057 (2.841, 7.273)
EPA6	BioPatch	Paced Breathing	LF/HF Power	1.988 (5.999)	-9.77 (-15.769, -3.771)	13.745 (7.746, 19.744)
EPA6	BioPatch	Standing	LF/HF Power	4.451 (17.015)	-28.899 (-45.915, -11.882)	37.802 (20.785, 54.818)
EPA6	HeartMath Handheld	Rest 1	Mean RR	-17.631 (8.811)	-34.901 (-45.154, -24.648)	-0.36 (-10.614, 9.893)
EPA6	HeartMath Handheld	Stressor	Mean RR	-18.97 (6.409)	-31.533 (-38.991, -24.074)	-6.407 (-13.866, 1.051)
EPA6	HeartMath Handheld	Rest 2	Mean RR	-17.96 (16.432)	-50.166 (-69.286, -31.046)	14.246 (-4.874, 33.366)
EPA6	HeartMath Handheld	Paced Breathing	Mean RR	-17.092 (26.588)	-69.205 (-100.143, -38.267)	35.021 (4.083, 65.96)
EPA6	HeartMath Handheld	Standing	Mean RR	-34.346 (69.168)	-169.914 (-255.615, -84.213)	101.222 (15.521, 186.923)
EPA6	HeartMath Handheld	Rest 1	SDNN	1.079 (5.188)	-9.09 (-15.126, -3.053)	11.247 (5.21, 17.284)
EPA6	HeartMath Handheld	Stressor	SDNN	12.783 (53.783)	-92.633 (-155.216, -30.05)	118.199 (55.616, 180.781)
EPA6	HeartMath Handheld	Rest 2	SDNN	1.925 (5.534)	-8.922 (-15.361, -2.483)	12.771 (6.332, 19.21)
EPA6	HeartMath Handheld	Paced Breathing	SDNN	1.125 (8.87)	-16.26 (-26.582, -5.939)	18.51 (8.189, 28.831)
EPA6	HeartMath Handheld	Standing	SDNN	-7.487 (8.544)	-24.234 (-34.821, -13.648)	9.259 (-1.327, 19.846)
EPA6	HeartMath Handheld	Rest 1	Mean HR	1.465 (0.767)	-0.038 (-0.931, 0.854)	2.967 (2.075, 3.86)
EPA6	HeartMath Handheld	Stressor	Mean HR	1.874 (0.527)	0.841 (0.228, 1.454)	2.906 (2.293, 3.519)
EPA6	HeartMath Handheld	Rest 2	Mean HR	1.519 (1.287)	-1.004 (-2.501, 0.494)	4.042 (2.544, 5.54)
EPA6	HeartMath Handheld	Paced Breathing	Mean HR	1.534 (2.831)	-4.014 (-7.308, -0.721)	7.081 (3.788, 10.375)
EPA6	HeartMath Handheld	Standing	Mean HR	3.702 (7.545)	-11.086 (-20.434, -1.738)	18.49 (9.142, 27.838)
EPA6	HeartMath Handheld	Rest 1	STD HR	0.136 (0.437)	-0.72 (-1.228, -0.212)	0.993 (0.484, 1.501)
EPA6	HeartMath Handheld	Stressor	STD HR	0.756 (3.569)	-6.238 (-10.391, -2.086)	7.751 (3.598, 11.904)
EPA6	HeartMath Handheld	Rest 2	STD HR	0.288 (0.597)	-0.882 (-1.576, -0.187)	1.458 (0.764, 2.153)
EPA6	HeartMath Handheld	Paced Breathing	STD HR	0.185 (1.208)	-2.182 (-3.588, -0.777)	2.552 (1.146, 3.957)
EPA6	HeartMath Handheld	Standing	STD HR	-0.634 (0.687)	-1.981 (-2.832, -1.129)	0.713 (-0.139, 1.564)
EPA6	HeartMath Handheld	Rest 1	RMSSD	-0.326 (9.738)	-19.412 (-30.743, -8.081)	18.759 (7.429, 30.09)
EPA6	HeartMath Handheld	Stressor	RMSSD	-3.251 (30.798)	-63.615 (-99.451, -27.778)	57.113 (21.276, 92.949)
EPA6	HeartMath Handheld	Rest 2	RMSSD	-0.449 (7.928)	-15.987 (-25.212, -6.763)	15.089 (5.864, 24.314)
EPA6	HeartMath Handheld	Paced Breathing	RMSSD	-4.769 (15.239)	-34.637 (-52.368, -16.905)	25.098 (7.367, 42.83)
EPA6	HeartMath Handheld	Standing	RMSSD	-14.443 (12.028)	-38.018 (-52.921, -23.115)	9.132 (-5.771, 24.035)
EPA6	HeartMath Handheld	Rest 1	LF/HF Power	0.575 (1.822)	-2.995 (-5.115, -0.875)	4.146 (2.026, 6.266)
EPA6	HeartMath Handheld	Stressor	LF/HF Power	0.99 (1.524)	-1.998 (-3.771, -0.224)	3.978 (2.204, 5.751)
EPA6	HeartMath Handheld	Rest 2	LF/HF Power	0.106 (0.939)	-1.734 (-2.827, -0.641)	1.947 (0.854, 3.039)
EPA6	HeartMath Handheld	Paced Breathing	LF/HF Power	1.704 (5.086)	-8.265 (-14.183, -2.347)	11.672 (5.754, 17.59)
EPA6	HeartMath Handheld	Standing	LF/HF Power	7.392 (18.41)	-28.691 (-51.501, -5.881)	43.475 (20.665, 66.285)
EPA6	HeartMath PC	Rest 1	Mean RR	-20.648 (32.073)	-83.511 (-118.808, -48.215)	42.215 (6.919, 77.511)
EPA6	HeartMath PC	Stressor	Mean RR	-57.94 (88.052)	-230.522 (-327.423, -133.622)	114.642 (17.742, 211.543)
EPA6	HeartMath PC	Rest 2	Mean RR	-1.017 (36.408)	-72.377 (-112.444, -32.31)	70.344 (30.277, 110.411)
EPA6	HeartMath PC	Paced Breathing	Mean RR	13.655 (74.092)	-131.565 (-213.102, -50.027)	158.875 (77.337, 240.412)
EPA6	HeartMath PC	Standing	Mean RR	-40.322 (66.252)	-170.176 (-243.086, -97.266)	89.533 (16.623, 162.443)
EPA6	HeartMath PC	Rest 1	SDNN	-7.541 (16.933)	-40.729 (-59.364, -22.095)	25.647 (7.013, 44.281)

				Mean Difference	Lower Limit of Agreement	Upper Limit of Agreement
Device 1	Device 2	Segment	Measure	(SD)	(95%CI)	(95% CI)
EPA6	HeartMath PC	Stressor	SDNN	-3.552 (60.098)	-121.343 (-187.48, -55.206)	114.239 (48.103, 180.376)
EPA6	HeartMath PC	Rest 2	SDNN	-12.03 (19.223)	-49.707 (-70.862, -28.553)	25.646 (4.492, 46.801)
EPA6	HeartMath PC	Paced Breathing	SDNN	-1.955 (22.306)	-45.675 (-70.223, -21.128)	41.765 (17.217, 66.312)
EPA6	HeartMath PC	Standing	SDNN	-22.857 (20.013)	-62.083 (-84.107, -40.058)	16.369 (-5.656, 38.393)
EPA6	HeartMath PC	Rest 1	Mean HR	2.13 (2.705)	-3.172 (-6.148, -0.195)	7.432 (4.455, 10.408)
EPA6	HeartMath PC	Stressor	Mean HR	6.516 (11.552)	-16.126 (-28.838, -3.413)	29.157 (16.445, 41.87)
EPA6	HeartMath PC	Rest 2	Mean HR	0.389 (2.685)	-4.874 (-7.828, -1.919)	5.652 (2.697, 8.607)
EPA6	HeartMath PC	Paced Breathing	Mean HR	-0.632 (5.366)	-11.15 (-17.055, -5.244)	9.886 (3.981, 15.792)
EPA6	HeartMath PC	Standing	Mean HR	4.663 (7.297)	-9.639 (-17.669, -1.609)	18.964 (10.934, 26.994)
EPA6	HeartMath PC	Rest 1	STD HR	-0.548 (1.352)	-3.199 (-4.687, -1.711)	2.102 (0.614, 3.591)
EPA6	HeartMath PC	Stressor	STD HR	-0.507 (4.147)	-8.634 (-13.197, -4.071)	7.621 (3.057, 12.184)
EPA6	HeartMath PC	Rest 2	STD HR	-0.992 (1.762)	-4.445 (-6.383, -2.506)	2.461 (0.523, 4.4)
EPA6	HeartMath PC	Paced Breathing	STD HR	-0.652 (2.135)	-4.836 (-7.185, -2.487)	3.531 (1.182, 5.88)
EPA6	HeartMath PC	Standing	STD HR	-1.996 (1.743)	-5.412 (-7.33, -3.494)	1.421 (-0.498, 3.339)
EPA6	HeartMath PC	Rest 1	RMSSD	-19.378 (27.344)	-72.972 (-103.064, -42.881)	34.216 (4.124, 64.307)
EPA6	HeartMath PC	Stressor	RMSSD	-29.231 (49.569)	-126.386 (-180.937, -71.836)	67.925 (13.374, 122.475)
EPA6	HeartMath PC	Rest 2	RMSSD	-30.065 (26.866)	-82.723 (-112.29, -53.157)	22.593 (-6.973, 52.16)
EPA6	HeartMath PC	Paced Breathing	RMSSD	-29.77 (29.396)	-87.385 (-119.735, -55.036)	27.845 (-4.504, 60.195)
EPA6	HeartMath PC	Standing	RMSSD	-48.421 (30.359)	-107.924 (-141.334, -74.514)	11.082 (-22.327, 44.492)
EPA6	HeartMath PC	Rest 1	LF/HF Power	1.877 (2.753)	-3.518 (-6.548, -0.489)	7.272 (4.243, 10.301)
EPA6	HeartMath PC	Stressor	LF/HF Power	2.768 (3.203)	-3.511 (-7.037, 0.014)	9.046 (5.521, 12.572)
EPA6	HeartMath PC	Rest 2	LF/HF Power	1.484 (1.633)	-1.717 (-3.514, 0.08)	4.685 (2.888, 6.483)
EPA6	HeartMath PC	Paced Breathing	LF/HF Power	6.028 (5.363)	-4.483 (-10.385, 1.419)	16.54 (10.638, 22.441)
EPA6	HeartMath PC	Standing	LF/HF Power	8.278 (12.387)	-16.001 (-29.633, -2.369)	32.557 (18.925, 46.189)

Supplement HRV in longitudinal psychiatric assessment 2020-12-15-C