

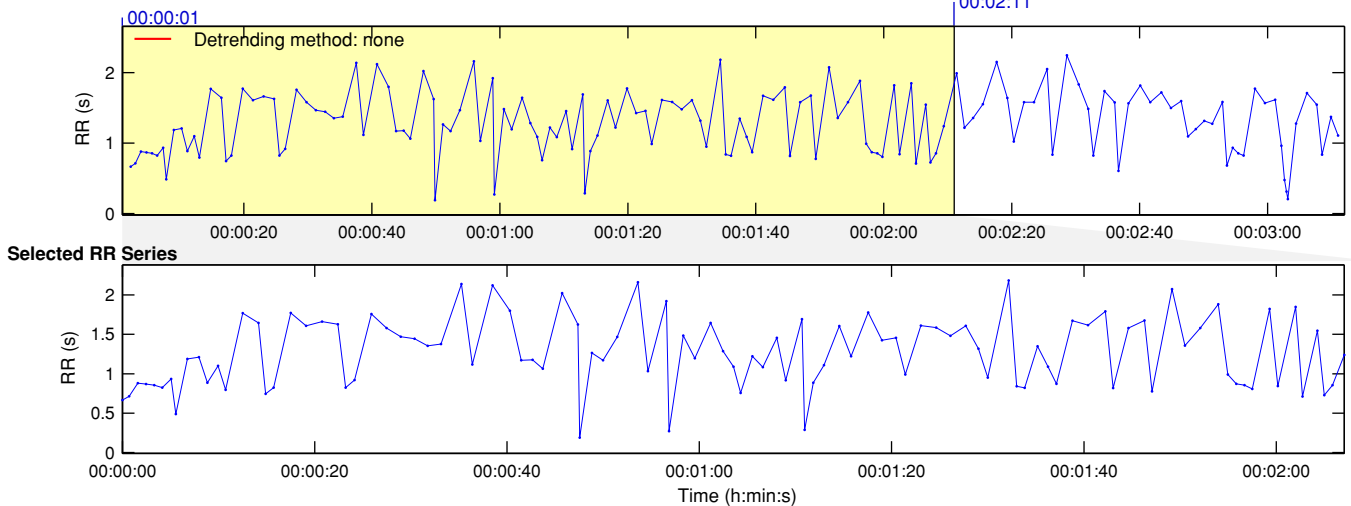
HRV Analysis Results

SPO2.txt – xx/xx/xx – xx:xx:xx

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RR Interval Time Series

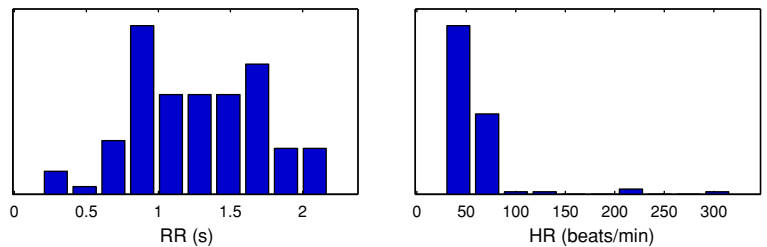
Results for a single sample



Time-Domain Results

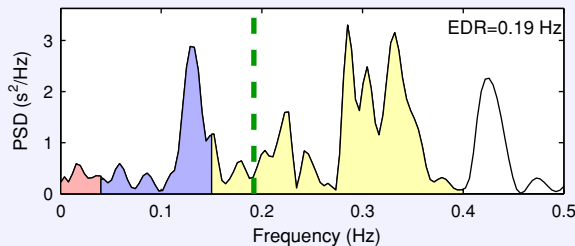
Variable	Units	Value
Mean RR*	(ms)	1264.9
STD RR (SDNN)	(ms)	446.1
Mean HR*	(1/min)	57.55
STD HR	(1/min)	39.07
RMSSD	(ms)	640.6
NN50	(count)	86
pNN50	(%)	86.0
RR triangular index		25.250
TINN	(ms)	640.0

Distributions*



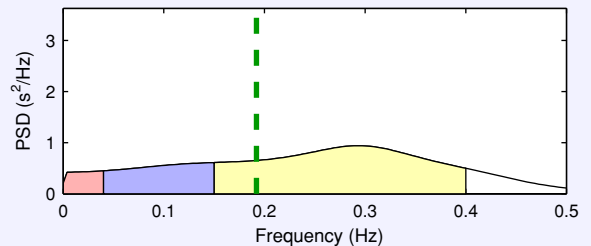
Frequency-Domain Results

FFT spectrum (Welch's periodogram: 256 s window with 50% overlap)



Frequency Band	Peak (Hz)	Power (ms ²)	Power (%)	Power (n.u.)
VLF (0–0.04 Hz)	0.0156	14823	4.1	
LF (0.04–0.15 Hz)	0.1289	87168	24.3	25.4
HF (0.15–0.4 Hz)	0.2852	256260	71.5	74.6
Total		358432		
LF/HF		0.340		

AR Spectrum (AR model order = 16, not factorized)

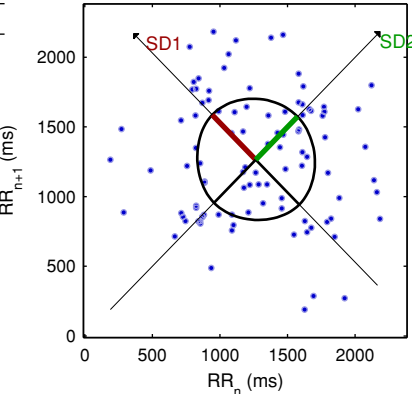


Frequency Band	Peak (Hz)	Power (ms ²)	Power (%)	Power (n.u.)
VLF (0–0.04 Hz)	0.0391	16784	6.4	
LF (0.04–0.15 Hz)	0.1484	59143	22.5	24.1
HF (0.15–0.4 Hz)	0.2930	185738	70.7	75.5
Total		262659		
LF/HF		0.318		

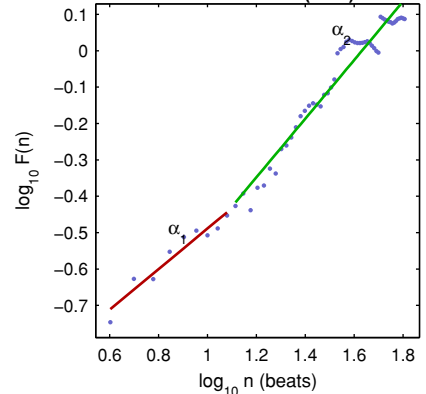
Nonlinear Results

Variable	Units	Value
Poincare plot		
SD1	(ms)	455.3
SD2	(ms)	437.2
Recurrence plot		
Mean line length (Lmean)	(beats)	4.18
Max line length (Lmax)	(beats)	19
Recurrence rate (REC)	(%)	8.03
Determinism (DET)	(%)	87.35
Shannon Entropy (ShanEn)		1.852
Other		
Approximate entropy (ApEn)		0.536
Sample entropy (SampEn)		2.031
Detrended fluctuations (DFA): α_1		0.557
Detrended fluctuations (DFA): α_2		0.806
Correlation dimension (D2)		0.000
Multiscale entropy (MSE)		0.329 – 2.031

Poincare Plot



Detrended fluctuations (DFA)



*Results are calculated from the non-detrended selected RR series.