

Additional file 1 Overview of all normal distributed and linearly independent variables. Linear backward regression was applied to the variables and R-squared was maximal with 12 variables. All 12 variables are listed in the table together with the standardized as well as non-standardized regression coefficients and standard errors. The coefficients are part of the equation in the linear regression section

no.	variables	selection (ranking)	standardized coefficient	non-standardized coefficient	
			β_{norm}	β_{1-12}	SE
1	$\ln(A_{HRV})$	4	-0.353	-2.412	0.672
2	$\ln(LF_{\text{norm}})$	3	-0.353	-6.968	1.761
3	VLF	10	0.234	0.018	0.007
4	$Resp$	7	0.337	0.841	0.242
5	$\ln(S_{Resp})$	---			
6	$\ln(\kappa_{Resp})$	5	-0.344	-9.650	2.097
7	$\ln(n_{GSR})$	---			
8	BP_{MAP}	6	-0.339	-0.359	0.088
9	BP_{pulse}	8	0.328	0.329	0.107
10	$\ln(T_{\text{peak}_{BP}})$	12	0.140	8.104	4.441
11	$T_{\text{cycle}_{BP}}$	---			
12	Amp_{Fz}	9	-0.293	-1.778	0.518
13	Amp_{Pz}	---			
14	Lat_{Fz}	---			
15	Lat_{Cz}	11	0.212	0.013	0.005
16	$\ln(Lat_{Pz})$	1	-1.000	-20.525	2.245
17	Sig_{Fz}	---			
18	Sig_{Cz}	2	0.426	4.212	0.855
19	Sig_{Pz}	---			