

Supplementary Table S5 – Model Coefficients

1. Physical activity

CAP group	Step count (% of normal level) *		
	Predictors	Estimates	CI
(Intercept)	2.21	1.60 – 2.83	<0.001
Day [1st degree]	1.99	1.24 – 2.75	<0.001
Day [2nd degree]	0.53	0.14 – 0.93	0.009
Wear time (6AM-22PM)	0.01	0.01 – 0.02	<0.001
Random Effects			
σ^2	0.36		
τ_{00} SubjectNr	0.13		
ICC	0.26		
N SubjectNr	14		
Observations	272		
Marginal R ² / Conditional R ²	0.198 / 0.410		

PW group	Step count (% of normal level) *		
	Predictors	Estimates	CI
(Intercept)	1.73	1.33 – 2.12	<0.001
Day [1st degree]	0.53	0.34 – 0.73	<0.001
Day [2nd degree]	2.45	1.86 – 3.05	<0.001
Day [3rd degree]	0.45	0.26 – 0.64	<0.001
Wear time (6AM-22PM)	0.02	0.01 – 0.02	<0.001
Random Effects			
σ^2	0.15		
τ_{00} SubjectNr	0.02		
ICC	0.10		
N SubjectNr	19		
Observations	380		
Marginal R ² / Conditional R ²	0.382 / 0.446		

AE group	Step count (% of normal level) *		
	Predictors	Estimates	CI
(Intercept)	2.35	1.62 – 3.08	<0.001
Day [1st degree]	0.82	0.51 – 1.13	<0.001
Day [2nd degree]	2.63	1.85 – 3.41	<0.001
Day [3rd degree]	0.44	0.10 – 0.78	0.012
Wear time (6AM-22PM)	0.01	0.00 – 0.02	0.008
Random Effects			
σ^2	0.17		
τ_{00} SubjectNr	0.03		
ICC	0.15		
N SubjectNr	6		
Observations	124		
Marginal R ² / Conditional R ²	0.382 / 0.474		

* log transformation was applied

2. Symptom score

CAP group		Symptom score		
Predictors	Estimates	CI	p	
(Intercept)	14.08	11.92 – 16.24	<0.001	
Day [1st degree]	-21.22	-25.91 – -16.54	<0.001	
Day [2nd degree]	-6.94	-9.52 – -4.37	<0.001	
Random Effects				
σ^2	8.80			
τ_{00} SubjectNr	1.06			
ICC	0.11			
N SubjectNr	13			
Observations	154			
Marginal R ² / Conditional R ²	0.543 / 0.593			

PW group		Symptom score		
Predictors	Estimates	CI	p	
(Intercept)	16.22	13.86 – 18.59	<0.001	
Day [1st degree]	-8.03	-10.25 – -5.81	<0.001	
Day [2nd degree]	-24.79	-30.05 – -19.54	<0.001	
Day [3rd degree]	-5.15	-7.27 – -3.02	<0.001	
Random Effects				
σ^2	7.60			
τ_{00} SubjectNr	4.39			
N SubjectNr	19			
Observations	239			
Marginal R ² / Conditional R ²	0.505 / NA			

AE group		ACD6 score		
Predictors	Estimates	CI	p	
(Intercept)	3.79	2.80 – 4.78	<0.001	
Day [1st degree]	-1.44	-2.72 – -0.15	0.029	
Day [2nd degree]	-6.02	-8.33 – -3.71	<0.001	
Day [3rd degree]	-1.06	-2.37 – 0.26	0.114	
Random Effects				
σ^2	0.79			
τ_{00} SubjectNr	0.05			
ICC	0.06			
N SubjectNr	6			
Observations	86			
Marginal R ² / Conditional R ²	0.380 / 0.414			

3. Heart rate

CAP group		Daytime heart rate			Nocturnal heart rate		
Predictors	Estimates	CI	p	Estimates	CI	p	
(Intercept)	118.77	109.28 – 128.26	<0.001	105.41	95.64 – 115.19	<0.001	
Day [1st degree]	-1.63	-7.81 – 4.55	0.603	-12.39	-25.00 – 0.22	0.054	
Day [2nd degree]	2.15	-1.04 – 5.34	0.185	-5.10	-11.54 – 1.33	0.120	
Age	-3.23	-5.46 – -1.01	0.008	-3.42	-5.37 – -1.48	0.002	
Random Effects							
σ^2	33.18			68.94			
τ_{00} SubjectNr	61.99			37.63			
N SubjectNr	14			14			
Observations	270			226			
Marginal R ²	0.603			0.482			

PW group		Daytime heart rate			Nocturnal heart rate		
Predictors	Estimates	CI	p	Estimates	CI	p	
(Intercept)	131.74	124.26 – 139.22	<0.001	120.72	107.53 – 133.92	<0.001	
Day [1st degree]	-9.87	-13.38 – -6.36	<0.001	-8.36	-14.56 – -2.16	0.008	
Day [2nd degree]	-37.28	-47.19 – -27.37	<0.001	-59.06	-75.10 – -43.02	<0.001	
Day [3rd degree]	-8.41	-11.87 – -4.95	<0.001	-11.90	-17.85 – -5.96	<0.001	
Age	-2.29	-3.97 – -0.60	0.011	-2.74	-5.82 – 0.35	0.078	
Random Effects							
σ^2	34.32			74.10			
τ_{00} SubjectNr	13.19			44.30			
N SubjectNr	18			18			
Observations	337			303			
Marginal R ²	0.386			0.345			

AE group		Daytime heart rate			Nocturnal heart rate		
Predictors	Estimates	CI	p	Estimates	CI	p	
(Intercept)	114.43	96.52 – 132.34	<0.001	116.75	88.35 – 145.15	<0.001	
Day [1st degree]	-4.74	-11.46 – 1.97	0.165	-12.38	-22.57 – -2.20	0.018	
Day [2nd degree]	-29.41	-44.71 – -14.12	<0.001	-59.23	-80.19 – -38.26	<0.001	
Day [3rd degree]	-5.75	-12.74 – 1.23	0.106	-7.31	-17.37 – 2.74	0.152	
Age	-0.64	-3.35 – 2.07	0.548	-1.32	-5.68 – 3.04	0.448	
Random Effects							
σ^2	44.98			60.35			
τ_{00} SubjectNr	4.49			10.59			
N SubjectNr	6			6			
Observations	124			112			
Marginal R ²	0.192 / NA			0.420			