Table A1SEM Summary Table for Time-domain HRV Showing Standardized and Unstandardized Regression Weights

model and paths HRV variable: IBI	Estimate	Std. Err	Std. all	P	
	Estimate	Stu. Ell	Stu. all	Г	
Aggression	0.114	0.106	0.163	0.283	
Adversity (c)	-6.864	12.498	-0.103	0.283	
IBI (e)	3.100	2.551	-0.102 0.179	0.383	
Cluster B (f) IBI	5.100	2.331	0.179	0.224	
	0.002	0.002 0.142		0.401	
Age (g)	0.002	0.002	0.142	0.401	
Adversity (a) Cluster B	0.001	0.002	0.002	0.733	
	-0.665	0.430	-0.172	0.122	
IBI (d)	0.015	0.430	0.172	0.122	
Adversity (b) Indirect path adf	-0.001	0.003	-0.002	0.856	
Indirect path ae	-0.001	0.007	-0.002 -0.006	0.838	
Indirect path bf	-0.004 0.045	0.029	-0.006 0.065	0.878	
HRV variable: SDNN	Estimate	Std. Err	Std. all	0.328 P	
	Estimate	Stu. Ell	Siu. ali	Г	
Aggression	0.105	0.112	0.151	0.344	
Adversity (c) SDNN (e)	1.950			0.344	
Cluster B (f)	3.458	73.385 0.005 2.460 0.199		0.979	
SDNN	3.436	2.400	0.199	0.100	
	-0.001	0.000	-0.297	0.028	
Age (g) Adversity (a)	-0.001	0.000	-0.297 -0.051	0.623	
Cluster B	-0.000	0.000	-0.031	0.023	
SDNN (d)	-2.365	2.816	-0.105	0.401	
• •	0.014	0.005	0.354	0.401	
Adversity (b)	0.001	0.003	0.334	0.824	
Indirect path adf	-0.001	0.003	-0.001	0.824	
Indirect path ae		0.014	-0.000 0.071	0.989	
Indirect path bf	0.049			0.263 P	
HRV variable: RMSSD	Estimate	Std. Err	Std. all	<u> </u>	
Aggression	0.102	0.104	0.147	0.227	
Adversity (c)	0.102	0.104	0.147	0.327	
RMSSD (e)	-35.203	86.199	-0.057	0.683	
Cluster B (f)	3.389	2.503	0.195	0.176	
RMSSD	0.000	0.000	0.220	0.102	
Age (g)	-0.000	0.000	-0.239	0.183	
Adversity (a)	-0.000	0.000	-0.124	0.279	
Cluster B	1.004	4.500	0.053	0.000	
RMSSD (d)	-1.824	4.599	-0.052	0.692	
Adversity (b)	0.014	0.005	0.351	0.007	

Indirect path adf	0.001	0.004	0.001	0.824
Indirect path ae	0.005	0.018	0.007	0.778
Indirect path bf	0.048	0.042	0.069	0.254

Note. IBI=Inter-beat Interval, RMSSD= Root Mean Square of the Successive Differences;

SDNN= Standard Deviation of Normal to Normal R-R intervals, Std. Err= Standard Errors; Std. all=All variables are standardized.

Table A2SEM Summary Table for Frequency-domain HRV Showing Standardized and Unstandardized Regression Weights

HRV variable included in the	2				
model and paths HRV variable: LF	Estimate	Std. Err	Std. all	P	
Aggression					
Adversity (c)	0.087	0.100 0.125		0.385	
LF (e)	0.053	0.044	0.177	0.229	
Cluster B (f)	3.525	2.472	0.203	0.154	
LF					
Age (g)	-0.844	0.379 -0.322		0.026	
Adversity (a)	0.255	0.372	0.109	0.493	
Cluster B					
LF (d)	-0.000	0.002	-0.023	0.866	
Adversity (b)	0.014	0.005	0.360	0.005	
Indirect path adf	-0.000	0.004	-0.001	0.933	
Indirect path ae	0.013	0.025	0.019	0.589	
Indirect path bf	0.051	0.045	0.073	0.260	
HRV variable: HF	Estimate	Std. Err	Std. all	P	
Aggression					
Adversity (c)	0.091	0.111	0.131	0.413	
HF (e)	-0.053	0.079	-0.098	0.500	
Cluster B (f)	3.808	2.661 0.220		0.153	
HF					
Age (g)	0.173	0.301	0.121	0.565	
Adversity (a)	-0.160	0.157 -0.125		0.309	
Cluster B					
HF (d)	0.006	0.006	0.190	0.347	
Adversity (b)	0.015	0.005			
Indirect path adf	-0.004	0.008			
Indirect path ae	0.009	0.018			
Indirect path bf	0.059	0.048	0.084	0.225	
HRV variable: LF/HF	Estimate	Std. Err	Std. all	P	
Aggression					
Adversity (c)	0.102	0.111	0.146	0.358	
LF/HF (e)	0.062	0.297	0.034	0.834	
Cluster B (f)	3.643	2.780	0.210	0.190	
LF/HF			-		
Age (g)	-0.054	0.059	-0.129	0.360	
Adversity (a)	0.008	0.051	0.021	0.874	
Cluster B				•	
LF/HF (d)	-0.032	0.012	-0.295	0.007	
Adversity (b)	0.015	0.005	0.366	0.004	

Indirect path adf	-0.001	0.008	-0.001	0.905
Indirect path ae	0.001	0.015	0.001	0.973
Indirect path bf	0.054	0.048	0.077	0.259

Note. LF=Low Frequency Power of Heart Rate Variability, HF=High Frequency Power of Heart Rate Variability; LF/HF=Ratio between Low and High Frequency Components of Heart Rate Variability; Std. Err= Standard Errors; Std. all=All variables are standardized.

Table A3Association between Different Forms of Early Childhood Adversity and SDNN Adjusted for age

	В	SE	95% CI		P
			LL	UL	_
Emotional abuse	.000	.001	002	.002	.855
Emotional neglect	.001	.001	001	.002	.294
Physical abuse	.001	.001	001	.002	.261
Physical neglect	004	.001	006	001	.004
Sexual abuse	001	.001	002	.001	.343
Age	001	.000	001	.000	.012

Note. CI = confidence interval; LL = lower limit; UL = upper limit; SDNN = Standard

Deviation of Normal to Normal R-R intervals.

 Table A4

 Association between Different Forms of Early Childhood Adversity and RMSSD Adjusted for age

	В	SE	95% CI		P
			LL	UL	_
Emotional abuse	.000	.001	001	.001	.809
Emotional neglect	.000	.000	001	.001	.492
Physical abuse	.000	.000	001	.001	.412
Physical neglect	002	.001	003	.000	.030
Sexual abuse	001	.000	001	.000	.204
Age	.000	.000	001	.000	.115

Note. CI = confidence interval; LL = lower limit; UL = upper limit; RMSSD = Root Mean Square of the Successive Differences.

Description of the Virtual Reality Aggression Prevention Training

The theoretical framework for the Virtual Reality Aggression Prevention Training (VRAPT) has been developed through the six steps of the Social Information Processing theory (SIP; Walther, 2008) that have been converted into six questions: 1) What is going on? 2) What does this mean? 3) What is the goal I'm trying to achieve in this situation? 4) How can I respond to this? 5) What am I going to do? and 6) Enacting responses: response or behavior. Each step is practiced separately during the VRAPT in the interactive threedimensional virtual environment. During the session, participants can practice, for example, recognizing facial emotions of others (i.e., What is going on?), or assessing the aggression level of the virtual character's behaviors (i.e., What does this mean?). Different interactive social scenarios are designed to help participants learn to cope with their aggression adequately. Some examples of social scenarios are the following: The participant is waiting in a row in the virtual supermarket to pay for the purchased products. When it is almost his turn, an avatar is trying to push forward and the participant is asked to respond to this inappropriate behavior of the avatar (Figure A1). In another scenario, the participant must order a drink at the coffee shop, unfortunately, the bar has just been closed and the avatar makes it aggressively clear that the bar is closed. The participant must respond assertively while being provoked and must insist on getting a drink (Figure A2). During the VRAPT, participants are wearing headphones and a head-mounted display while interacting with a virtual avatar. The trainer controls the avatar by taking on the role of it by using a microphone with voice distortion for speech, and by manually controlling the avatar's emotional facial expressions and bodily movements. Lastly, the trainer also controls the virtual environment and can immediately change and/or stop it if necessary.

Figure A1

Virtual Environment: Supermarket

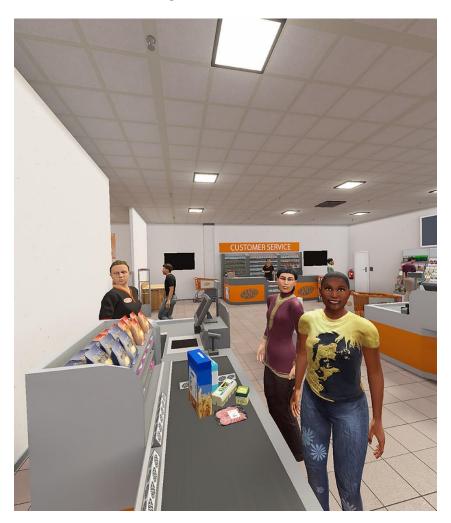


Figure A2

Virtual Environment: Coffee Shop

