Online Supplemental Materials

Table S1

Instructions provided to participants for each Condition.

Condition	Instructions
Kindness to Others Experimental Condition	Today, please do a nice thing for someone else. Tonight you will receive a survey, which will ask you questions about that act. This act of kindness can be small (leave an encouraging note for a classmate) or bigger (helping a teacher in a class) and should benefit specific individuals, like family members, friends, or even strangers. Remember that these acts of kindness should involve a little extra effort and be outside your normal routine.
Kindness to Self Active Control	 Involve a fulle extra error and be outside your normal routine. Examples of acts of kindness for others: Volunteering Helping friends, siblings, or peers with homework Complimenting someone Treating someone to lunch Checking in with a friend who may be feeling down Doing extra chores around the house Sending a kind note or a thank you to a friend, neighbor, or classmate Spending extra time with siblings Writing a friend a note Today, please do a nice thing for yourself. Tonight you will receive a survey, which will ask you questions about that act. This act of kindness can be small (treating yourself to a cup of coffee) or bigger (going out to a movie). Although these acts may involve other people, remember that they should involve a little extra effort and be outside your normal routine. Examples of acts of kindness for yourself: Treating yourself to a dessert or a snack you like Giving yourself to a dessert or a snack you like Spending time to exercise or work out Spending time to exercise or work out Meeting up with friends Listen to your favorite songs Taking time to celebrate something good that is happening
	 Taking a nap or going to sleep early Indulge in a relaxing bubble bath Asking for and accepting help from others Buying yourself something that makes you happy

Daily Report Passive Control	Today, please keep track of what you do. Tonight you will receive a survey, which will ask you to list your activities from that day.					
	There is no need to remember how you are feeling during this time. Instead, just try to remember factual information about what you are doing. <u>Do not alter your routine in any way</u> , simply keep track of what you do.					
	 Examples of daily activities: Morning: Ate breakfast, went to classes, ate lunch with friends. Afternoon: Finished classes, went to club/sports practice, went home, started homework. Evening: Ate dinner, called friends, watched TV, went to bed. 					

Example responses of acts by Condition.

Condition	Instructions
Kindness to Others	"Helped my brother clean his room"
	"Invited a new girl to go out with me and my friends"
	"Lent my friend money so she could buy lunch"
	"Gave a homeless person \$2"
Kindness to Self	"Took a nap"
	"Made free time so I could play video games"
	"Bought myself junk food that I love"
	"Got a pedicure"
Daily Report	"Morning: Went to school
	Afternoon: Ate lunch with friends, went back to class
	Evening: Got out of school, went to buy a coffee, and went to the library to do homework."
	"Ate breakfast, went to college application workshop, ate lunch
	Went home to pick up computer, went to cafe to work on college apps and hang out with a friend
	Ate dinner with friend, got home"

CONSORT 2010 Checklist of Information to Include When Reporting a Randomized Trial.

Section/Topic	Item No	Checklist item	Reported on page No
		Title and abstract	
	1a	Identification as a randomized trial in the title	1
	1b	Structured summary of trial design, methods, results, and conclusions (for specific guidance see CONSORT for abstracts)	NA
		Introduction	
Background and	2a	Scientific background and explanation of rationale	3-5
objectives	2b	Specific objectives or hypotheses	5-6
		Methods	
Trial design	3a	Description of trial design (such as parallel, factorial) including allocation ratio	6, Fig. 1
	3b	Important changes to methods after trial commencement (such as eligibility criteria), with reasons	N/A
Participants	4a	Eligibility criteria for participants	8
-	4b	Settings and locations where the data were collected	6
Interventions	5	The interventions for each group with sufficient details to allow replication, including how and when they were actually administered	6-7
Outcomes	ба	Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed	9
	6b	Any changes to trial outcomes after the trial commenced, with reasons	N/A
Sample size	7a	How sample size was determined	
	7b	When applicable, explanation of any interim analyses and stopping guidelines	N/A
Randomization:			
Sequence generation	8a	Method used to generate the random allocation sequence	N/A
	8b	Type of randomization; details of any restriction (such as blocking and block size)	10
Allocation concealment mechanism	9	Mechanism used to implement the random allocation sequence (such as sequentially numbered containers), describing any steps taken to conceal the sequence until interventions were assigned	N/A
Implementation	10	Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions	10
Blinding	11a	If done, who was blinded after assignment to interventions (for example, participants, care providers, those assessing outcomes) and how	N/A
	11b	If relevant, description of the similarity of interventions	3, 6
Statistical methods	12a	Statistical methods used to compare groups for primary and secondary outcomes	10-11
	12b	Methods for additional analyses, such as subgroup analyses	10-11

		and adjusted analyses			
		Results			
Participant flow (a diagram is strongly recommended)	13a	3a For each group, the numbers of participants who were randomly assigned, received intended treatment, and were analyzed for the primary outcome			
,	13b	For each group, losses and exclusions after randomization, together with reasons	Fig. 1		
Recruitment	14a	Dates defining the periods of recruitment and follow-up	6		
	14b	Why the trial ended or was stopped	N/A		
Baseline data	15	A table showing baseline demographic and clinical characteristics for each group	Table S4		
Numbers analyzed	16	For each group, number of participants (denominator) included in each analysis and whether the analysis was by original assigned groups	Table S4		
Outcomes and estimation	17a	For each primary and secondary outcome, results for each group, and the estimated effect size and its precision (such as 95% confidence interval)	Figs. 2-4, Tables 1-3		
	17b	For binary outcomes, presentation of both absolute and relative effect sizes is recommended	N/A		
Ancillary analyses	18	Results of any other analyses performed, including subgroup analyses and adjusted analyses, distinguishing pre-specified from exploratory	N/A		
Harms	19	All important harms or unintended effects in each group (for specific guidance see CONSORT for harms)	N/A		
		Discussion			
Limitations	20	Trial limitations, addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses	25		
Generalizability	21	Generalizability (external validity, applicability) of the trial findings	23-26		
Interpretation	22	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	N/A		
		Other information			
Registration	23	Registration number and name of trial registry	6		
Protocol	24	Where the full trial protocol can be accessed, if available	6		
Funding	25	Sources of funding and other support (such as supply of drugs), role of funders	"Funding"		

Demographic information by Condition.

Condition	п	% Female	$M_{ m age}$ $(SD_{ m age})$	Hispanic /Latino	European American	African American	Asian American	Middle Eastern	Other (multiple ethnicities)
Kindness to Others	33	54.545%	16.303 (0.810)	32.353%	23.529%	8.824%	8.824%	2.941%	23.529%
Kindness to Self	34	52.941%	16.206 (0.729)	21.212%	24.242%	15.152%	6.061%	6.061%	27.273%
Daily Report	30	53.333%	16.267 (0.740)	36.667%	20.000%	10.000%	0.000%	6.667%	26.667%
Full Sample	97	53.608%	16.258 (0.754)	29.897%	22.680%	11.340%	5.155%	5.155%	25.773%

	Kindness t	'S	Kindness to Others									
	Kindness t	Kindness to Self						Daily Report				
	Estimate	SE	95% CI	t	р	Estimate	SE	95% CI	t	р		
(Intercept)	3.714	0.222	3.280– 4.148	16.709	<.001	3.483	0.237	3.022– 3.945	14.709	<.001		
Week	0.041	0.039	-0.035– 0.118	1.055	.293	0.084	0.047	-0.007– 0.176	1.798	.074		
Condition	0.331	0.318	-0.291– 0.952	1.040	.300	0.570	0.328	-0.069– 1.209	1.741	.084		
Week * Condition	-0.014	0.056	-0.123– 0.096	-0.247	.805	-0.058	0.064	-0.184– 0.068	-0.896	.371		
Random Effec	ets											
σ^2	.49					.61						
$\tau_{00 \ ID}$	1.10					.93						
ICC	.69					.60						
$N_{\rm ID}$	67					63						
Observations	307					286						
Conditional R^2	.696					.616						

Models testing the 2-way interaction between Condition and Week predicting Positive Affect.

	Kindness to	Other	S		Kindness to Others							
	Versus Kindness to	versus Kindness to Self						versus Daily Report				
	Estimate SI	Ε	95% CI	t	р	Estimate	SE	95% CI	t	р		
(Intercept)	1.933 (0.216	1.512– 2.353	8.966	<.001	2.345	0.230	1.897– 2.794	10.189	<.001		
Week	-0.061 (0.040	-0.138– 0.017	-1.526	.128	-0.156	0.046	-0.247– -0.065	-3.368	<.001		
Condition	-0.080 (0.309	-0.683– 0.522	-0.260	.796	-0.485	0.318	-1.106– 0.135	-1.524	.130		
Week * Condition	-0.023 (0.057	-0.135– 0.087	-0.418	.676	0.071	0.064	-0.054– 0.197	1.115	.266		
Random Effec	ets											
σ^2	.50					.60						
$ au_{00\ ID}$.98					.84						
ICC	.66					.58						
$N_{\rm ID}$	67					63						
Observations	307					286						
Conditional R^2	.664					.598						

Models testing the 2-way interaction between Condition and Week predicting Negative Affect.

	Kindness versus	Kindness to Others versus						Kindness to Others versus			
	Kindness Estimate	to Self SE	95% CI	t	p	Daily Re Estimate	port SE	95% CI	t	р	
(Intercept)	1.533	0.109	1.320– 1.747	14.056	<.001	1.666	0.118	1.434– 1.897	14.106	<.001	
Week	-0.833	0.680	-2.160– 0.495	-1.224	.222	0.374	0.720	-1.030– 1.778	-1.049	.603	
Week ²	1.828	0.689	0.484– 3.172	2.654	.008	1.972	0.734	0.540– 3.402	0.520	.008	
Condition	-0.039	0.156	-0.344– 0.266	-0.248	.805	-0.172	0.164	-0.492– 0.148	2.688	.298	
Week * Condition	-0.308	0.972	-2.205– 1.587	-0.317	.751	-1.514	0.992	-3.450– 0.420	-1.526	.128	
Week ² * Condition	-0.069	0.991	-2.005– 1.862	-0.070	.945	-0.207	1.014	-2.188– 1.770	-0.204	.838	
Random Effec	ets										
σ^2	.15					.15					
$\tau_{00 \ ID}$.37					.38					
ICC	.71					.72					
Conditional R ²	.713					.730					
n	67					63					
Observations	307					286					

Models testing the 2-way interaction between Condition and Week predicting Perceived Stress.

Intervention Engagement

Participants generally showed good adherence with the intervention protocol: 63.636% of Kindness to Others and 76.471% of Kindness to Self participants performing the full 12 acts across the intervention period; 93.939% of Kindness to Others and 91.176% of Kindness to Self participants performed at least 9 acts (75% compliance); and 90.909% of Kindness to Others and 100% of Kindness to Self participants performed at least one act per week during the intervention period. See Table S8 for additional details on number of acts reported, act novelty, and time to complete acts.

Number of reported acts was not significantly correlated with age, r(67)=.114, p=.356, nor did it differ by sex, t(65)=.017, p=.987. Number of reported acts was not significantly associated with altruism for Kindness to Others participants, r(33)=.017, p=.924, nor Kindness to Self participants, r(34)=.313, p=.071.

Although participants were only asked to perform and report on 12 total acts during the intervention period, some participants reported multiple acts on a given day resulting in a total of more than 12 acts. All acts, including those beyond the parameters of the intervention instructions were included in intervention engagement analyses. There were no differences in compliance by Condition: number of reported acts (i.e., kind acts and daily reports over the course of the intervention) did not differ by Condition, F(2, 94)=1.358, p=.262, $\eta_p^2=.028$.

Condition (*n*=67, Kindness to Others and Kindness to Self) was significantly associated with act performance time such that Kindness to Others acts took significantly less time than Kindness to Self acts, Estimate=-0.975, *SE*=0.167, *t*=-5.846, *p*<.001, 95% CI[-1.302, -0.648], R^2 =.245, σ^2 =1.698, τ_{00} =.314. Altruism was not associated with average act performance time in either Condition, Kindness to Others *r*(33)=-.047, *p*=.794, Kindness to Self *r*(34)=.171, *p*=.333.

Kindness to Self acts were more novel than Kindness to Others acts, Estimate=0.332, *SE*=0.173, *t*=1.926, p=.059, 95% CI[-0.006, -0.670], R^2 =.388, σ^2 =.726, τ_{00} =.432. Altruism was not associated with average act novelty in either Condition, Kindness to Others r(33)=.177, p=.325, Kindness to Self r(34)=.022, p=.900.

Intervention Engagement by Condition.

Condition	# of acts	range of reported acts	% reporting ≥ 12 acts / <12 acts	Time to complete	Novelty
Kindness	11.455	3-17	63.636/	2.563	2.941
to Others	(2.222)		36.364%	(1.437)	(1.200)
Kindness	12.265	8-20	76.471/	3.531	2.606
to Self	(2.466)		23.529%	(1.394)	(0.941)
Daily Report	12.500 (2.460)	8-19	76.667/ 23.333%	NA	NA

Note. Participants were asked to perform 12 acts total, one act per day for three days per week for four weeks. Time to complete each act was rated on a scale from 1=less than 5 minutes to 5=more than 1 hour. Novelty was rated on a scale from 0=never to 4=almost always. Means are presented with standard deviations in parenthesis unless otherwise specified.

Pre-Intervention Individual Differences

Descriptive statistics for all variables of interest Pre-Intervention are reported in Table S9.

Younger participants demonstrated higher levels of APS, r(97)=-.261, p=.010, but APS did not significantly differ by sex, t(95)=-.809, p=.421.

Among the primary well-being measures, only positive affect showed a marginally significant trend of Pre-Intervention difference by Condition, F(2,94)=2.894, p=.060, $\eta_p^2=.058$. Tukey HSD post-hoc comparisons revealed individuals in the Kindness to Others Condition reported marginally higher positive affect than those in the Daily Report Condition, $M_{difference}=0.770$, SE=0.327, p=.053, 95% CI[-0.008, 1.549]. Kindness to Others positive affect did not differ from Kindness to Self, nor did Kindness to Self significantly differ from Daily Report. Negative affect, perceived stress, and altruism did not significantly differ by Condition: negative affect, F(2,94)=0.788, p=.458; perceived stress, F(2,94)=0.200, p=.819; APS, F(2,94)=.685, p=.507.

Condition	Ν	Altruism	Positive Affect	Negative Affect	Perceived Stress
Kindness to Others	33	1.400 (0.367)	4.212 (1.202)	1.903 (1.486)	1.959 (0.737)
Kindness to Self	34	1.534 (0.559)	3.713 (1.186)	2.300 (1.328)	1.859 (0.626)
Daily Report	30	1.443 (0.485)	3.442 (1.498)	2.200 (1.173)	1.940 (0.694)
Total Sample	97	1.460 (0.476)	3.799 (1.321)	2.134 (1.337)	1.918 (0.680)

Descriptive statistics for Pre-Intervention variables of interest by Condition.

Note. Means are presented with standard deviations in parenthesis unless otherwise specified.