

## Supplementary Materials for

# Time experience during social distancing: A longitudinal study during the first months of COVID-19 pandemic in Brazil

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		Partic	ipants			
	MIN	Q1/4	Q2/4	Q3/4	MAX	
Age (years) 18		25	34	47	86	
Isolation (days)	0	45	51	60	120	
Education (0/)	< Level 1	< Level 2	< Level 3	< College	College	
Education (%)	0.08	0.18	0.49	27.06	71.78	
In a a ma a (0/ )	0.5x	1x	2x	4x	>8x	
Income (%)	4.41	14.4	18.18	21.82	33.08	
0 (0/)	She	He	Other			
Gender (%)	74.32	25.03	0.42			
Residence in	S	SE	MW	NE	N	
Brazil (%)	7.91	80.5	2.75	7.69	1.18	
		Company during	social distancing			
	MIN	Q1/4	Q2/4	Q3/4	MAX	
People (n)	0	1	2	3	25	
Kids (n)	0	0	0	1	10	
D-4- (0/)	No	Yes				
Pets (%)	43.06	56.94				
	Housing	conditions (areas	s) during social di	stancing		
	MIN	Q1/4	Q2/4	Q3/4	MAX	
Indoor (n)	1	5	7	9	25	
Outdoor (n)	0	1	2	3	10	
Dai: 12 21 (0/ )	No	Yes				
Privacy (%)	11.11	88.89				

**Table S1. Demographic information of participants.** Participants' age in years, number of days in isolation, education levels, personal income based on minimum wage, gender, and residence in Brazil (S: South, SE: Southeast, MW: Midwest, NE: Northeast, N: North) are described in the upper panel. The middle panel illustrates participants' company during social distancing: number of people, number of kids, and whether they had pets. The bottom panel describes their housing condition during social distancing: number of indoor areas, number of outdoor areas, and whether they had a place to be on their own to have some privacy.

Yes-No Questions								
	Score (Proportion of participants)	Theoretical Range	Meaning					
COVID symptoms myself	0.08	0-1	The proportion of participants who presented COVID symptoms themselves					
COVID symptoms family	0.16	0-1	The proportion of participants who had someone of their family with COVID symptoms					
COVID symptoms friend	0.18	0-1	The proportion of participants who had a friend with COVID symptoms					
COVID hospital myself	0.00	0-1	The proportion of participants who were hospitalized due to COVID					
COVID hospital family	0.06	0-1	The proportion of participants who had someone in their family hospitalized due to COVID					
COVID hospital friend	0.11	0-1	The proportion of participants who had a friend hospitalized due to COVID					
COVID deaths family	0.02	0-1	The proportion of participants who had a family member who died of COVID					
COVID deaths friend	0.07	0-1	The proportion of participants who had a friend who died of COVID					
		Scal	e Questions					
	Score (Median and IQR)	Theoretical Range	Meaning					
Covid Total Score	0 (0 -1)	[0 8]	Sum of all yes/no COVID responses					
		Affect	(PANAS Scale)					
Positive Affect	23.0 (18.0-28.0)	[9 45]	Positive emotions (lower/higher values indicate lower/higher positive emotions)					
Negative Affect	24.0 (18.0-31.0)	[10 50]	Negative emotions (lower/higher values indicate lower/higher negative emotions)					
		Stress	and Well-Being					
PSS	21.0 (16.0-26.0)	[0 40]	Stress (lower/higher values indicate lower/higher stress levels)					
wно	12.0 (8.0-16.0)	[0 25]	Well being (lower/higher values indicate lower/higher well-being)					
		Sens	e of Isolation					
Loneliness	9.0 (-1.0-29.0)	[-50 +50]	How much participants' feeling of loneliness decreased/increased					
Distancing	26.0 (11.0-46.0)	[-50 +50]	How much participants' feeling of distancing decreased/increased					
Personal Interactions	-10.0 (-28.0-13.0)	[-50 +50]	How much participants' personal interactions decreased/increased					
Work and study interactions	-13.0 (-30.0-8.0)	[-50 +50]	How much participants' work/study interactions decreased/increased					
Personal Care	8.0 (-21.0-27.0)	[-50 +50]	How much participants' time for personal care (e.g., hobbies) decreased/increased					
		Opinion or	social distancing					
Opinion on helping	86.0 (68.0-100.0)	[0 100]	How much participants believe their social distancing is helping					
Agreement	95.0 (75.0-100.0)	[0 100]	How much participants agree with the social distancing measures					
News	78.0 (58.0-100.0)	[0 100]	How much participants were following the news about COVID					
Self Risk	56.0 (33.0-75.0)	[0 100]	How much participants believe they are in danger of being infected by COVID					
Others' Risk	77.0 (61.0-99.0)	[0 100]	How much participants believe loved ones are in danger of being infected by COVID					
		Qua	ality of Life					
Finances	-8.0 (-27.0-1.0)	[-50 +50]	How much participants' financial condition worsened/improved					
	•	•	•					

Work and study quality	-16.0 (-33.0-8.0)	[-50 +50]	How much participants' work/study conditions worsened/improved						
Leisure -31.0 (-49.010.0) [-50 +			How much participants' leisure worsened/improved						
Family	-7.0 (-29.0-14.0)	[-50 +50]	How much participants' family routine worsened/improved						
Exercises	-26.0 (-49.0-0.0)	[-50 +50]	How much participants' exercises routine worsened/improved						
Routine changes									
Hours of work and study	ork and -30.0 (-50.0-0.0) [-50 +50] How much participants' hours in their work/sidecreased/increased								
Hours of leisure	ours of leisure -49.0 (-50.035.0) [-50 +50		How much participants' hours dedicated to social events (happy hours, restaurants) decreased/increased						
Interaction with housemates	30.0 (1.0-50.0)	[-50 +50]	How much participants' hours spent with housemates decreased/increased						
Hours spent online	26.0 (10.5-43.0)	[-50 +50]	How much time participants spent in online interactions decreased/increased						
Hours spent outside	-50.0 (-50.037.0)	[-50 +50]	How much participants' hours out in cultural events decrease/increase						

Table S2. Description and summary results of the scales from the first session. Covid related questions consisted of yes/no answers about participants' contact with Covid. (2) Validated scales were used to measure emotions (PANAS), perceived stress (PSS), and well-being (WHO-5). (3) Custom visual analog scales were used to measure participants' sense of loneliness, their opinion on social distancing, and change in their quality of life and daily routine.

Feature	MAD	IQR-MAD	Median Rho	IQR	Effect size (Cohen's g)	p-value						
Affect (PANAS Scale)												
Positive Affect	2.196	[1.0, 3.0]	-0.036	[-0.463, 0.359]	-0.024	0.604						
Negative Affect	2.334	[1.0, 3.0]	-0.286	[-0.6, 0.158]	-0.179	<0.001*						
Stress and Well-Being												
PSS	2.027	[1.0, 3.0]	-0.109	[-0.527, 0.257]	-0.069	<0.001*						
WHO	1.496	[1.0, 2.0]	0.062	[-0.364, 0.463]	0.048	0.032*						
•	Sense of Isolation											
Loneliness	7.634	[1.0, 11.5]	-0.046	[-0.4, 0.371]	-0.027	0.539						
Distancing	8.242	[2.0, 12.0]	-0.188	[-0.518, 0.258]	-0.113	<0.001*						
Personal Interactions	7.43	[1.5, 11.0]	0.036	[-0.336, 0.4]	0.03	0.51						
Work and study interactions	7.003	[1.0, 10.5]	0.029	[-0.4, 0.4]	0.024	0.656						
Personal Care	8.336	[2.0, 12.0]	0	[-0.4, 0.359]	-0.004	0.818						
		Opinion	on social distan	cing								
Opinion on helping	5.711	[1.0, 8.5]	-0.348	[-0.677, 0.137]	-0.197	<0.001*						
Agreement	8.198	[1.0, 12.0]	-0.4	[-0.725, 0.0]	-0.25	<0.001*						
News	7.396	[2.0, 11.0]	-0.4	[-0.699, 0.056]	-0.223	<0.001*						
Self Risk	6.614	[2.0, 9.5]	0.167	[-0.285, 0.535]	0.106	<0.001*						
Others' Risk	5.476	[1.0, 8.0]	0.047	[-0.377, 0.426]	0.029	0.539						
		C	Quality of Life									
Finances	4.256	[0.0, 7.0]	0.027	[-0.396, 0.429]	0.019	0.656						
Work and study quality	6.197	[1.0, 9.0]	0.094	[-0.321, 0.441]	0.058	0.005*						
Leisure	6.168	[1.0, 9.5]	0.11	[-0.348, 0.516]	0.066	0.001*						
Family	6.23	[1.0, 10.0]	0.067	[-0.336, 0.467]	0.052	0.019*						
Exercises	6.414	[0.5, 10.0]	0.082	[-0.331, 0.476]	0.045	0.056						
		Ro	outine changes									
Hours of work and study	6.15	[0.0, 9.0]	0.082	[-0.318, 0.447]	0.058	0.007*						
Hours of leisure	3.463	[0.0, 4.5]	0.3	[-0.101, 0.65]	0.192	<0.001*						
Interaction with housemates	5.658	[0.0, 8.5]	-0.143	[-0.498, 0.219]	-0.098	<0.001*						
Hours spent online	7.321	[2.0, 11.0]	-0.182	[-0.516, 0.224]	-0.11	<0.001*						
Hours spent outside	3.829	[0.0, 4.5]	0.258	[-0.188, 0.61]	0.166	<0.001*						
Relaxation	7.315	[2.75, 11.75]	0.296	[-0.289, 0.701]	0.155	<0.001*						

**Table S3. Evolution of the different scales during social distancing.** Description of the groups of questions that more consistently increased/decreased during the weeks. The first two columns (MAD and IQR-MAD) show the variation of that measure across weeks. Median Rho and IQR shows the median Rho between that measure and week across participants. We used a binomial sign test across participants to test whether there was consistent increase/decrease of that measure over the weeks. Cohen's g shows the effect size (proportion of participants with a positive Rho - 0.5) and the respective p-value, corrected for multiple comparisons using Holm's method.

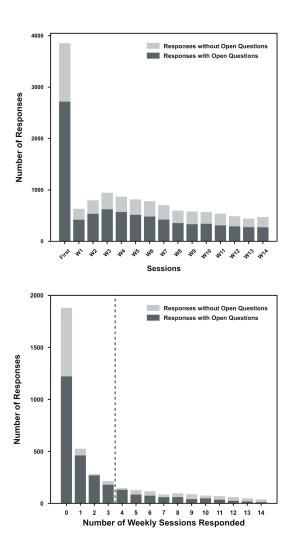
	Persona	l reports	News and external facts			
Feature	rho	p-value	rho	p-value		
	Time A	wareness		•		
Time expansion during social isolation	-0.089	<0.001*	-0.058	0.072		
Time pressure during social isolation	-0.027	1.000	-0.075	0.004*		
Time expansion before social isolation	-0.018	1.000	-0.039	0.814		
Time pressure before social isolation	-0.025	1.000	0.009	1.000		
•	Affect (PA	NAS Scale)		•		
Positive Affect	0.103	<0.001*	0.042	0.63		
Negative Affect	-0.124	<0.001*	-0.065	0.03*		
•	Stress and	d Well-Being		•		
PSS	-0.109	<0.001*	-0.072	0.01*		
WHO	0.108	<0.001*	0.086	<0.001*		
•	Sense o	f Isolation		•		
Loneliness	-0.053	0.179	-0.077	<0.001*		
Distancing	-0.055	0.140	-0.010	1.00		
Personal Interactions	0.008	1.000	-0.003	1.00		
Work and study interactions	0.023	1.000	0.025	1.00		
Personal Care	0.014	1.000	0.038	0.81		
•	Opinion on se	ocial distancing				
Opinion on helping	0.023	1.000	-0.012	1.00		
Agreement	-0.004	1.000	-0.030	1.00		
News	-0.007	1.000	-0.001	1.00		
Self Risk	0.005	1.000	-0.047	0.37		
Others' Risk	-0.024	1.000	-0.009	1.00		
·	Qualit	y of Life				
Finances	-0.002	1.000	0.012	1.00		
Work and study quality	0.051	0.225	0.002	1.00		
Leisure	-0.017	1.000	0.033	1.00		
Family	-0.003	1.000	0.060	0.06		
Exercises	0.014	1.000	0.065	0.03*		
·	Routine	changes		•		
Hours of work and study	-0.023	1.000	0.016	1.00		
Hours of leisure	-0.012	1.000	0.023	1.00		
Interaction with housemates	0.045	0.481	0.042	0.63		
Hours spent online	0.016	1.000	0.045	0.45		
Hours spent outside	0.003	1.000	0.039	0.81		

**Table S4. Correlation between the emotional valence of reports and measures scales**. A Shepherd's correlation between the estimated valence of the reports across participants. The p-values were corrected for multiple comparisons using Holm's method.

		Personal re	ports		News and external facts							
Feature	Median Rho	IQR	Effect size (Cohen's g)	p-value	Median Rho	IQR	Effect size (Cohen's g)	p-value				
		•	,	Week								
Week	0.039	[-0.307, 0.359]	0.035	1	0.073	[-0.259, 0.36]	0.075	0.056				
	Time Awareness											
Time expansion	-0.01	[-0.354, 0.289]	-0.037	1	0	[-0.321, 0.289]	0	1				
Time pressure	0	[-0.388, 0.296]	-0.015	1	0	[-0.316, 0.3]	-0.025	1				
Affect (PANAS Scale)												
Positive Affect	0.133	[-0.222, 0.415]	0.089	<0.001*	0.015	[-0.287, 0.337]	0.036	1				
Negative Affect	-0.093	[-0.435, 0.247]	-0.071	0.052	0	[-0.307, 0.293]	-0.031	1				
			Stress a	nd Well-Beir	ng							
PSS	-0.081	[-0.413, 0.258]	-0.059	0.24	0	[-0.316, 0.315]	0.003	1				
WHO	0.105	[-0.17, 0.444]	0.111	<0.001*	0.026	[-0.304, 0.333]	0.053	0.728				
			Sense	of Isolation		_						
Loneliness	-0.057	[-0.342, 0.258]	-0.065	0.15	0	[-0.333, 0.288]	-0.028	1				
Distancing	-0.024	[-0.371, 0.282]	-0.044	1	0	[-0.324, 0.316]	-0.009	1				
Personal Interactions	0.034	[-0.258, 0.333]	0.057	0.322	0	[-0.308, 0.296]	0.024	1				
Work and study interactions	0	[-0.303, 0.395]	0.032	1	0	[-0.292, 0.293]	0	1				
Personal Care	0.035	[-0.278, 0.321]	0.042	1	0	[-0.307, 0.29]	0.002	1				
			Opinion on	social dista	ncing							
Opinion on helping	-0.027	[-0.319, 0.287]	-0.036	1	0	[-0.333, 0.335]	0.015	1				
Agreement	0	[-0.333, 0.319]	-0.001	1	-0.038	[-0.332, 0.287]	-0.028	1				
News	0	[-0.289, 0.339]	-0.003	1	-0.02	[-0.361, 0.299]	-0.031	1				
Self Risk	0	[-0.316, 0.349]	0.007	1	0	[-0.287, 0.344]	0.032	1				
Others' Risk	0	[-0.324, 0.258]	-0.022	1	0	[-0.272, 0.317]	0.014	1				
			Qual	ity of Life								
Finances	0.008	[-0.304, 0.341]	0.042	1	0	[-0.344, 0.316]	-0.001	1				
Work and study quality	0	[-0.261, 0.357]	0.028	1	0.044	[-0.283, 0.374]	0.063	0.27				
Leisure	0.012	[-0.283, 0.394]	0.033	1	0	[-0.294, 0.322]	0.021	1				
Family	0	[-0.333, 0.325]	0.01	1	0	[-0.289, 0.333]	0.032	1				
Exercises	0.004	[-0.316, 0.334]	0.028	1	0.047	[-0.296, 0.359]	0.042	1				
			Routin	ne changes								
Hours of work and study	-0.055	[-0.355, 0.316]	-0.052	0.572	0	[-0.316, 0.289]	0.015	1				
Hours of leisure	0	[-0.3, 0.342]	0.03	1	0	[-0.281, 0.371]	0.014	1				
Interaction with housemates	0	[-0.32, 0.353]	0.018	1	0	[-0.288, 0.338]	0.024	1				
Hours spent online	0	[-0.289, 0.369]	0.026	1	0	[-0.306, 0.316]	0.014	1				
Hours spent outside	0.038	[-0.315, 0.329]	0.053	0.572	0	[-0.325, 0.268]	0.002	1				

 Relaxation
 0
 [-0.483, 0.474]
 0.024
 1
 0
 [-0.5, 0.447]
 0.02
 1

Table S5. Correlation of the emotional content of open ended questions and different scales. A Spearman rho was calculated for each participant between the emotional valence of the personal reports and the new and external facts that they shared with the other collected scales. We used a binomial sign test across participants to test whether there was consistent increase/decrease of that measure over the weeks. Cohen's g shows the effect size (proportion of participants with a positive Rho - 0.5) and the respective p-value, corrected for multiple comparisons using Holm's method.



**Figure S1. Number of participants and responses.** Each bar on the upper panel shows the number of responses in each weekly session. On the lower panel, each bar indicates the number of respondents who completed the correspondent number of weekly sessions - zero indicates completing the first session only. The vertical dashed line indicates the inclusion criteria for weekly session analysis (participants that responded more than three times). In both panels, the dark-filled bars represent complete responses (questionnaire and open questions). In contrast, light-filled bars represent completing the survey but not the optional open questions at the end.

### **Supplementary Text**

#### Exploratory analysis for an overlap between time awareness and wellbeing measures

One possible criticism of our findings is that the time awareness scales and other scales we have used, such as well-being, may ultimately refer to a common, higher-order construct, such as dimensions of psychopathology. Fortunately, our data allows a preliminary inquiry into this possibility. From a factor-analytic perspective, the hypothesis translates into a bifactor model where the time awareness items (Expansion and Pressure) and the well-being items (PSS and WHO) load both on a common ("G", or "Psychopathology") factor and on a specific factor for each instrument.

We ran three exploratory models with half of the data (as in the exploratory analyses in the manuscript), one extracting four factors (one for each scale), one with six factors (as suggested by a parallel analysis), and a bifactor model with four specific factors and one general factor. The four and six-factor models were run with the oblimin rotation and the bifactor model was run with Jenrich-Bentler bifactor rotation (also known as biquartimin). All extractions used the maximum likelihood algorithm. We show the patterns of factor loadings and the fit indexes for each model in Tables S6 and S7.

	Four-F	actor Sc	olution		_			Six-Fa	actor Sol	lution				Bifa	ctor-Fac	tor Solu	tion	
Item	ML1	ML4	ML2	ML3		Item	ML2	ML3	ML4	ML1	ML5	ML6	Item	ML1	ML2	ML3	ML4	ML5
p1	0.86	-0.00	-0.01	-0.04		p1	0.86	-0.04	0.01	-0.01	0.04	0.02	p1	-0.03	0.86	-0.06	0.00	0.03
p2	0.84	-0.01	0.02	0.07		p2	0.84	0.07	-0.00	0.03	-0.01	-0.03	p2	-0.00	0.84	0.05	0.01	-0.01
р3	0.87	0.02	-0.01	0.05		<b>p</b> 3	0.87	0.04	0.00	-0.03	-0.01	0.03	р3	0.00	0.87	0.02	-0.01	0.00
p4	0.93	-0.01	0.01	-0.02		p4	0.92	-0.02	0.01	0.03	0.00	-0.04	p4	-0.01	0.93	-0.04	0.00	-0.01
p5	0.80	-0.01	-0.01	0.03		<b>p</b> 5	0.80	0.03	-0.03	-0.05	-0.01	0.05	p5	-0.03	0.80	0.01	-0.01	-0.01
e1	0.08	-0.02	0.00	0.77		e1	0.08	0.77	-0.02	0.00	-0.01	0.00	e1	-0.01	0.03	0.76	0.00	-0.01
e2	-0.06	0.01	-0.01	0.69		e2	-0.06	0.69	-0.00	-0.02	-0.04	-0.01	e2	0.01	-0.10	0.69	-0.02	-0.02
e3	0.06	0.03	-0.02	0.79		e3	0.06	0.79	0.03	0.01	-0.02	-0.05	e3	0.03	0.02	0.79	-0.02	-0.00
e4	-0.50	-0.03	-0.00	0.42		e4	-0.50	0.41	-0.02	-0.03	0.04	0.07	e4	-0.03	-0.53	0.43	0.02	0.03
e5	-0.06	-0.02	0.03	0.69		e5	-0.05	0.68	-0.00	0.02	0.06	0.05	e5	-0.00	-0.10	0.69	0.04	0.04
eps1	-0.01	0.77	-0.07	-0.00		eps1	-0.00	-0.01	0.74	0.00	0.05	0.06	eps1	0.64	-0.01	-0.01	-0.06	0.40
eps2	-0.01	0.65	0.08	-0.03		eps2	-0.02	-0.02	0.48	0.04	-0.36	-0.06	eps2	0.71	-0.01	-0.03	-0.08	0.05
eps3	0.00	0.78	0.03	0.01		eps3	0.01	0.01	0.73	0.01	0.03	0.18	eps3	0.73	0.00	0.01	-0.00	0.41
eps4	-0.01	-0.31	-0.38	-0.02		eps4	-0.00	-0.02	0.00	-0.07	0.63	-0.11	eps4	-0.67	-0.01	-0.02	-0.07	0.26
eps5	-0.02	-0.25	-0.34	-0.00		eps5	-0.00	-0.01	0.07	-0.02	0.67	-0.07	eps5	-0.60	-0.02	-0.00	-0.04	0.31
eps6	0.02	0.44	0.09	-0.01		eps6	0.01	-0.01	0.32	0.08	-0.24	-0.06	eps6	0.51	0.02	-0.02	-0.02	0.03
eps7	-0.01	-0.44	-0.10	-0.03		eps7	-0.00	-0.03	-0.25	0.06	0.29	-0.14	eps7	-0.52	-0.00	-0.03	0.02	-0.02
eps8	-0.01	-0.35	-0.32	0.03		eps8	0.01	0.02	-0.05	-0.06	0.64	-0.02	eps8	-0.67	-0.01	0.03	-0.02	0.26
eps9	-0.00	0.75	-0.08	0.00		eps9	-0.00	0.01	0.73	0.05	-0.00	-0.07	eps9	0.62	0.00	-0.00	-0.09	0.33
eps10	-0.02	0.62	0.10	0.01		eps10	-0.03	0.02	0.45	0.05	-0.33	-0.04	eps10	0.69	-0.02	0.01	-0.05	0.06
who1	-0.01	0.27	0.56	0.02		who1	0.01	-0.01	0.07	0.16	-0.10	0.62	who1	0.67	-0.01	0.02	0.36	0.10
who2	-0.00	0.38	0.48	0.01		who2	0.01	-0.02	0.18	0.13	-0.14	0.53	who2	0.71	-0.00	0.01	0.29	0.13
who3	0.00	-0.03	0.85	0.00		who3	0.00	0.01	0.02	0.83	0.02	0.01	who3	0.61	0.00	0.00	0.58	-0.01
who4	0.00	-0.06	0.92	0.00		who4	-0.00	0.01	-0.02	0.92	0.00	-0.01	who4	0.64	-0.00	0.00	0.62	-0.05
who5	-0.01	0.01	0.73	-0.02		who5	-0.01	-0.02	0.00	0.62	-0.05	0.10	who5	0.56	-0.01	-0.02	0.48	-0.03

**Table S6. Factor loadings for the three models.** Four-Factor solution (one for each scale); Six-Factor solution (as suggested by a parallel analysis) and the Bifactor-Factor solution. In each table, p refers to Time Pressure Items; e to Time Expansion Items; eps to PSS items; who to WHO-5 items; and ML to the factor extracted by maximum likelihood.

#### Fit indices

factors	chi.squared	p_value	RMSEA	TLI	BIC
4	974.47	0.00	0.06	0.93	-102.76
6	303.92	0.00	0.04	0.97	-661.43
bifactor (4+G)	394.67	0.00	0.04	0.96	-576.85

**Table S7. Fit indexes for each model.** Fit indexes for the Four-Factor solution (one for each scale); Six-Factor solution (as suggested by a parallel analysis) and the Bifactor-Factor solution.

All models had a good fit. The factor loadings for the four-factor solution show some items that do not strongly load on any factor. The factors that do load preferentially are always from a single scale. The same is true for the six-factor solution, although the WHO-5 and PSS items appear divided into two factors each. The bifactor solution reveals that EPS and WHO seems to both reflect a higher-order factor. However, even in this model, the time awareness items do not load onto that same latent variable and remain distinct. Overall, we see no evidence in our data for an overlap between time awareness measures and wellbeing measures, which are closer to psychopathology constructs.