

Reducing Loneliness through the Power of Practicing Together: A Randomized Controlled Trial of Online Dyadic Socio-emotional versus Mindfulness-based Training

Supplement S1

Mental Training Intervention Protocol CovSocial Phase 2: Summary

In the following, key summary information is provided on the different weekly teaching sessions of the two intervention programs of the CovSocial project's phase 2. This standardized summary protocol document will be used as such in all publications of phase 2.

Participant Selection Process

Participant Recruitment. Participants for the phase 2 of the CovSocial project were selected from a community sample of participants from Berlin, that were recruited for the first phase of the CovSocial project (Details of the study site could be obtained from the ClinicalTrials.gov by accessing the study record at NCT04889508, 17/05/2021). Participants for the first phase of the project were recruited from the population of the city of Berlin. The main inclusion criteria involved being between 18 and 65 years of age, being able to understand the German language due to questionnaire assessment of data, and being registered as a resident of the city of Berlin at the time of the assessment. A variety of methods were used for recruitment including sampling 56,000 individuals from the Berlin registration office, flyers and posters, and advertising on social media, in addition to the chain-referral method. The recruitment led to the registration of 7214 individuals to take part in the study. Out of this, 5877 started the questionnaires, and at every block of questionnaires further dropout in the sample was observed. A total of 3,681 individuals completed the questionnaires for the first three timepoints of the first phase of the study. Lastly, participants were excluded for not meeting the inclusion criteria and for data quality reasons, leading to a final sample of 3522 individuals for the first three timepoints of the first phase of the project. All participants with completed datasets at the first three timepoints of retrospective longitudinal assessments in phase 1 (T1-T3; $n = 3522$) were invited to complete a pre-screening to assess whether they qualified to take part in the current study (phase 2) based on the inclusion and exclusion criteria. They were asked to give informed consent for this pre-screening assessment prior to completing the pre-screening questionnaire.

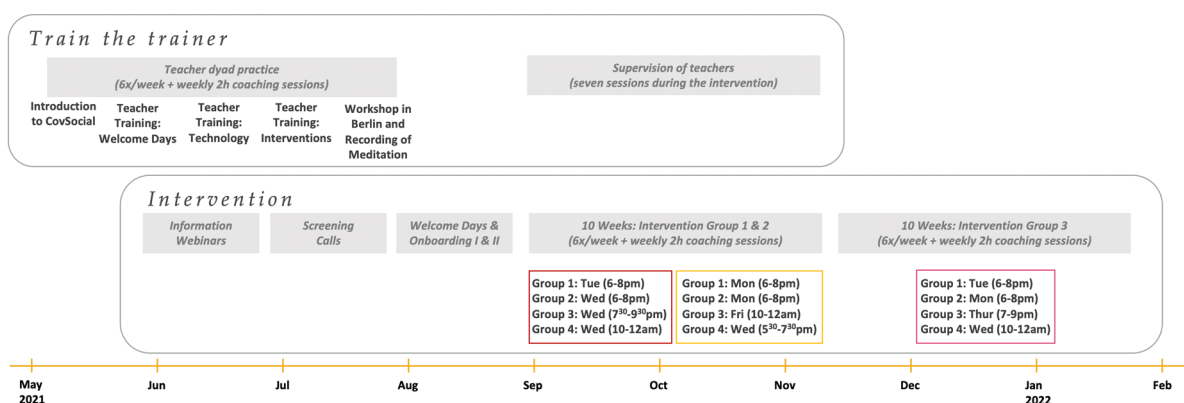
Exclusion Criteria. Based on the pre-screening, participants were selected to take part in phase 2 of the CovSocial project based on the following inclusion and exclusion criteria. Participants had to meet the following inclusion criteria: between 18- and 65-years age, resident of Berlin, and proficiency in German language due to data assessment with questionnaires and participation in an intervention program based on German language. Participants were excluded if they did not have access to internet or the necessary technical equipment, if they had an educational background in psychology, if they had regular spiritual practice (including yoga practice with meditative component), if they took medication that influences physiological markers or if they took psychiatric medication, if they had participated in stress reduction programs previously, if they suffered from chronic illness or pain, or if they had a history of or current psychiatric diagnosis. Further, participants were excluded based on the cut-off scores for the following questionnaires: Toronto Alexithymia Scale-20 (TAS-20; [1]), exclude if score greater than 60; Patient Health Questionnaire-9 (PHQ-9; [2]), exclude if scores greater than 19; and Generalized Anxiety Disorder-7 (GAD-7; [3]), exclude if scores greater than 15. Participants endorsing suicidality on the PHQ-9 were also excluded. Individuals who met all the inclusion and exclusion

criteria were randomly assigned to one of three groups. Initially, the three groups were oversampled, to ideally form $n = 100$ per group.

Teacher Training

Prior to the 10-week intervention, the four recruited mindfulness teachers underwent training on the specific format of the Affect Dyad from Prof. Dr. Tania Singer. Thus, in comparison to classic mindfulness intervention the four teachers were experts already as they were all certified in one or the other MBIs (MBCT, MBSR). The Affect Dyad as partner-based intersubjective mindfulness practice was not yet publicly available in commercial train-the-trainer programs. The four teachers practiced the Dyad daily among themselves and received weekly online coaching from Prof. Dr. Singer. Halfway through the coaching sessions, the teachers practiced the presentations themselves and received feedback from Prof. Dr. Singer. Another webinar was held to instruct the teachers in their roles and functions during the interventions. They also attended a three-day intensive in person workshop in Berlin to practice the presentation and receive in-depth information on scientific backgrounds for both intervention programs. All sessions were recorded and available to the teachers at any time.

Throughout the intervention phase, the trainers would regularly get feedback from Prof. Dr. Tania Singer or Birgit Severin who randomly attended some of the coaching sessions to ensure that the coaching material was being effectively and consistently communicated to both training groups. Additionally, supervision meetings were held at regular intervals between the teachers, Prof. Dr. Singer, and Birgit Severin to discuss any challenges or issues that arose within the groups or with the teaching materials, and to find solutions to them.



Welcome Days

The "Welcome Days" included several identical 90-minute online events via Webex, which were offered at different times of the day. The events consisted of two parts: a theoretical presentation and a practical introduction to demonstrate the trainings. Depending on whether participants were assigned to the socio-emotional or mindfulness-based training group, the presentations differed in content but followed the same overall structure. The theoretical part of the webinar introduced the team, addressed the first results of the CovSocial project phase 1, described the ReSource project and its scientific results, and built a bridge to the intervention phase 2. Detailed information on the schedule and study design was provided, and participants had the opportunity to ask questions before receiving further information in smaller, instructor-led subgroup sessions.

Socio-emotional Training. The second part of the webinar focused on the practical aspects of the socio-emotional training. Teachers who led the weekly coaching sessions briefly introduced themselves and explained the details of the Dyad exercise. The Dyad was also demonstrated with a CovSocial team member. At the end, participants had the opportunity to clarify any open questions.

Mindfulness-based Training. The second part of the webinar included a short introduction to mindfulness and meditation. Participants performed a breathing meditation under the guidance of teachers and had the opportunity to share and reflect on their experiences. They also received information on possible training effects and had time to address questions to the teachers.

Introductory Sessions („Kick-off“)

The intervention started with an information event ("kick-off") for all participants, providing an overview of mindfulness-based training techniques in a universal manner, without the need for separation by group. This event explained the contemplative context and scientific framework of classical mental training techniques like breathing meditation and body scan. Following this session, participants of the two interventions (socio-emotional training or mindfulness-based training) received individual coaching sessions tailored to each group.

Onboarding I and II

Both onboarding events (150 minutes each) took place within one week and were designed to provide participants with an understanding of the weekly coaching sessions and daily training sessions that made up the group-specific online intervention. These webinars combined theory and practical parts to help participants gain a better understanding of the training objectives and clarify any questions they may have had. These sessions were also used to introduce participants already in the app and technology they would use for answering daily questions as part of the data assessment of the study. An in-person introduction to the app functions necessary for the daily practice was provided during the pre-test in the Social Neuroscience Lab. After Onboarding II, participants attended 10 weekly coaching sessions.

Socio-emotional training (Affect Dyad)

Onboarding I. During the first onboarding webinar (150 minutes), participants received an in-depth presentation on the details of the socio-emotional training. The webinar began with an introduction to motivational psychology, followed by a discussion of the hypotheses explored in the ReSource project, which introduced the Affect Dyad as one of several practices [4, 5]. The study design and relevant results of the ReSource project were then summarized, followed by an explanation of the "data collection" during the ten-week program of the CovSocial project. Participants had the opportunity to reflect on their motivations for participating in the training in breakout rooms, which were later discussed in the large group and the session concluded with five minutes of guided silence.

Onboarding II. During the second onboarding webinar (150 minutes), the participants were given a thorough explanation of the Dyad process. The webinar highlighted the importance of distinguishing between regular conversation and the specific rules of the contemplative Dyad practice, with particular emphasis on the Affect Dyad.

Coaching Sessions. Participants attended 2-hour long weekly coaching sessions for 10 weeks, on the same day and time each week in subgroups of 15-20 people per teacher. The coaching sessions followed a consistent structure, including sharing personal experiences, insights, and difficulties with the Dyad practice, as well as short presentations on various topics in order to deepen the practice. Every session started with a minute of silence and a check-in round. Afterwards, participants were split up into smaller groups to share in so-called "breakout rooms" their experiences in regards to each weeks' topic and a sharing round with everyone. Then the teacher presented a scientific talk, followed by questions and answers as well as a second break-out room session. Each coaching ended with a minute of silence.

Coaching 1 – Framework of the Dyad. In the first weekly coaching session after participants had practiced their first week of daily Dyads at home, participants learned about the importance of establishing a routine and ritual for their daily socio-emotional practice,

as well as creating a comfortable and quiet environment. They also discussed ways to address potential difficulties and obstacles, and the importance of self-commitment and consistency in their practice. Finally, they learned about the importance of stillness and the three minutes of silence at the beginning, middle and end of the Dyad practice, along with guidance on the dos and don'ts of the Dyad practice to ensure a psychologically safe space for all.

Coaching 2 – Learning About Body Language. During the second coaching session, participants were guided through the second part of the daily Dyad questions which involves asking how an unpleasant emotion or grateful experience felt in the body. They learned about the language of the body and how to develop a deeper awareness of bodily sensations. The session focused on understanding the relationship between cognitive concepts such as "I am happy" and the accompanying bodily sensations such as "my heart rate got calmer". This knowledge provided a vital foundation for the Dyad practice, which involved describing bodily sensations related to difficult emotions and gratitude on a daily basis to increase interoceptive body awareness.

Coaching 3 – Empathic Listening. During the third coaching session, the focus was on the active role of the listener in the Dyad, with a particular emphasis on empathy. Participants were introduced to the concept of empathy and the difference between empathy and compassion. They also learned how to practice empathic listening, including being fully present, releasing judgment, and listening with openness and acceptance. The benefits of empathic listening were discussed, including its ability to create space for concentration and benevolence, leading to deeper understanding and increased perceptions and perspectives.

Coaching 4 – Gratitude. In the fourth coaching session, the topic of gratitude and its impact on our well-being was discussed, with a focus on the practical application of the Dyad practice in daily life. The following topics were covered: defining gratitude, recognizing obstacles and challenges in cultivating gratitude, exploring the positive effects of gratitude, understanding how to recognize gratitude and differentiate it from other pleasant emotion, and discussing different examples for which we can be grateful.

Coaching 5 – Difficult Emotions. During the fifth coaching session, the Dyad practice focused on exploring negative emotions. The session began with a discussion of emotions in general, including their functions and how they can lead to different adaptive or non-adaptive reactions. The importance of accepting negative emotions by becoming aware of them and neither dumping them on others nor suppressing or altering them was emphasized. The session offered coping strategies such as observing and embracing the emotions to reduce suffering.

Coaching 6 – The Dyad – a Special Form of Social Interaction. In the sixth coaching session, the focus was on the partner-based and social format of contemplative Dyads. The session covered the specificities of this interaction, which does not allow for a real dialogue. Participants were reminded of the specific behavioral rules and goals of this daily Dyad practice, such as improving attention, awareness of bodily sensations, empathetic and non-judgmental listening, and accepting difficult emotions and stress while building resilience through gratitude, shared humanity, tolerance, and calmness. Additionally, triggers for each role were discussed, and strategies for handling partner absence or other social triggers were shared.

Coaching 7 – Change, a Beginner's Mind and Unintentionality. The seventh coaching session delved into the changes that occur over time with daily practice. Topics covered included the plateau effect, the importance of maintaining a beginner's mind, practicing with non-intentionality, and deepening one's experience by changing the focus to different aspects of bodily sensations and triggers. The session emphasized the need to approach practice with an open and curious attitude, free of judgment and preconceptions, in order to continue to learn and grow.

Coaching 8 – Recurring Patterns and the Dyad Practice. In the eighth coaching session, participants learned about psychological patterns and schemas, and focused on identifying recurring patterns in their thoughts, feelings, and actions, both within and outside

of the socio-emotional Dyad training. They explored the definition of patterns and how they affect their daily Dyad practice, such as how they tend to deal with negative emotions or express gratitude. Additionally, participants reflected on their patterns when dealing with silence and throughout practicing affect Dyads in general.

Coaching 9 – How does the Dyad Transfer into my Everyday Life?. In the ninth coaching session, participants were prompted to reflect on how the socio-emotional training had impacted their daily lives and extended beyond the Dyad practice. They were encouraged to contemplate the changes they noticed in various aspects such as self-awareness, bodily sensations, coping with difficult emotions, and their ability to listen, empathize, change perspectives, and be open to others. Additionally, participants were encouraged to reflect on any shifts in their goals and priorities in life that might have emerged as a result of their practice.

Coaching 10 – The Last Time. In the tenth and final coaching session, participants engaged in a Dyad exercise and a closing ritual, in addition to a presentation. The presentation emphasized the potential positive impact of further training, and participants were encouraged to continue if they wished. To reflect on the training, participants were asked to answer questions regarding the biggest challenges and the value of the Dyad, and then shared their conclusions via Webex chat.

Mindfulness-based Training

Onboarding I. The first onboarding webinar (150 minutes) provided an in-depth introduction to the mindfulness-based training, starting with an overview of the "ReSource Project" and its findings on attention, body awareness, interoceptive accuracy, and subjective well-being. The CovSocial project's intervention phase was also introduced, along with information on data collection during the ten-week program. To clarify participants' motives for joining, they were given the opportunity to discuss their motivations in small groups. The different meditation formats in the intervention, such as breathing and open awareness meditation, were briefly explained and practiced. The session concluded with a discussion on how to handle difficulties, along with guidance of dos and don'ts.

Onboarding II. During the second onboarding webinar (150 minutes), the focus was on deepening the breathing meditation practice to prepare participants for the upcoming four-week daily practice. The importance of body awareness was emphasized through a body scan exercise. The session ended with a guided reflection on how to integrate the mindfulness training into everyday life and an introduction to the CovSocial app.

Coaching Sessions. Participants attended 2-hour long weekly coaching sessions for 10 weeks, on the same day each week. The coaching sessions followed a consistent structure with some slight variations in timing and included sharing personal experiences, and short presentations on various topics. The structure of the coaching was exactly the same as in the dyad coachings in order to making them comparable across intervention.

Coaching 1 – Breathing Meditation. During the first coaching session, common difficulties associated with the first classical mindfulness practice of breathing meditation were discussed, including challenges in maintaining focus on the breath, lack of motivation, and unrealistic expectations. Strategies for overcoming these obstacles were presented, and the importance of having a clear structure or routine for the mindfulness practice was emphasized.

Coaching 2 – Body Awareness. The second coaching session focused on how bodily sensations can be used to anchor oneself in the present moment during mindfulness practice. Participants were taught about the interconnection between the body and mind and were guided on how to deepen their body awareness by recognizing the differences between sensations, feelings, and thoughts.

Coaching 3 – Dealing with Difficulties in Mindfulness Training. In the third coaching session, participants were provided with strategies to overcome common challenges that may arise during mindfulness practice, such as restlessness, fatigue, aversion, craving, doubts, and other obstacles. The session introduced the *RAIN* concept as a helpful

tool to manage these difficulties, which involves *recognizing* the issue, *accepting* it, *investigating* it, and practicing *non-identification*.

Coaching 4 – Training Sensory Awareness – Hearing. In the fourth coaching session, participants were introduced to a new type of meditation: the meditation on sounds. The session covered various topics related to sensory stimuli and mindfulness through sense perception, including the interpretation and evaluation of auditive stimuli. The session also included guidance on how to train mindfulness of sounds (meditation on sounds) by perceiving sounds without interpretation or conceptualization. This was followed by a group discussion on participants' personal experiences.

Coaching 5 – Training Sensory Awareness – Seeing. The fifth coaching session expanded the topic of sensory perception to include vision and explored whether it is possible to observe visual stimuli without the interference of interpretations and judgments. The session emphasized the intention to stabilize the mind and increase awareness and discussed general goals such as becoming more present and focused, broadening perspective, perceiving non-judgmentally, and reducing one's own reactivity. To illustrate these concepts, a vision meditation was introduced, and a 12-minute practice session was conducted, followed by a group discussion.

Coaching 6 – Mindfulness in all Senses. The sixth coaching session focused on the five senses and included the "classic" raisin exercise, which aims to explore all senses - seeing, feeling, hearing, smelling, and tasting. Participants practiced eating a raisin with guidance from the teacher, then independently exploring it, and finally eating it normally. The session ended with a discussion of the experiences and how to apply mindfulness to everyday life or mindful eating.

Coaching 7 – Open Awareness. The seventh coaching introduced a new kind of meditation called "open awareness," where the meditator is open to all sensations without focusing on a particular object of attention (e.g., breath, sounds) or holding onto them. The focus is on open awareness itself, with the breath serving as an anchor in the present moment. Participants explored their first experiences with this type of meditation in group exercises guided by the teacher.

Coaching 8 – Stress and Mindfulness. The eighth coaching session focused on stress, including its definition, psychological reactions, causes, and consequences. The relationship between stress and breath was elaborated to highlight the benefits of mindfulness training in everyday life.

Coaching 9 – How Can We Transfer Mindfulness Training into Everyday Life? The ninth coaching emphasized on the integration of mindfulness practice into daily life. Participants were encouraged to reflect on their progress, experiences, and changes, such as how their practice has developed, the impact of the training on their daily lives, their relationships, and whether there are noticeable changes in their reactions and interpretations, which may influence their goals in life.

Coaching 10 – The Last Time. In the tenth and final coaching session of the mindfulness training, participants engaged in exchanging experiences and a closing ritual, in addition to a presentation. Participants were invited to continue their training and asked to reflect on how the mindfulness training changed over the 10 weeks and how it affected their everyday lives. They then shared their conclusions via chat, which were read out by the teachers, and ended the session with a closing ritual involving a personal object symbolic of the shared journey.

End of Intervention. After the ten weeks of intervention, participants were invited to voluntarily keep using the app for another 10 weeks without coaching sessions. In order to complete the post-test, participants underwent the same assessments as for pre-test for 2 weeks after the last coaching sessions. Participants had the option to take part in the TSST, which was conducted during an additional appointment at the lab.

Supplement S2. Power Analysis

We used G*Power [6] to perform a priori power and effect size calculations for repeated measures ANOVA including interaction terms in a 3 (groups) x 2 (timepoints)

design. Our significance level was set at $\alpha = .05$ and we aimed for a power of .80. The sample size calculated was $n = 297$. The correlation for repeated measures was constrained to the lowest retest reliability of the behavioral or biomarker measures being used in the CovSocial project's phase 2, specifically the Cortisol Awakening Response with a reliability of $r = .39$. We assumed a small effect size of $f = .10$ based on previous findings from the ReSource project, in which the mental training interventions being used in the current study were developed and validated [5]. These calculations were conducted prior to the recruitment of the sample for the CovSocial project's phase 2, which aimed to recruit approximately 300 individuals, 100 per group. Similar power analysis was also conducted for a third measurement time following the socio-emotional intervention given to the waitlist control group. This information is adapted from the phase 2 study protocol of the CovSocial project [7].

Supplement S3. Deviations from preregistration (link to preregistration: <https://osf.io/3nsjc> accessed on 23 April 2024)

In analyses of the current study, we had to refrain from including variables of the Cube of Thoughts and scores of the Social Discounting Task that might function as mediators of change in both intervention groups, since these variables will be used in other papers of the CovSocial project phase 2, which are currently in preparation.

Table S1. Descriptive statistics for loneliness (UCLA Loneliness Scale) and loneliness ratings measured with EMA, split by measurement occasion and group.

	Group	Pretest		Posttest 1		Posttest 2	
		M	SD	M	SD	M	SD
UCLA Loneliness Scale	SE	1.96	0.65	1.89	0.62		
	MB	1.83	0.66	1.83	0.62		
	WC	1.86	0.58	1.92	0.61		
	WSE			1.95	0.57	1.92	0.57
Loneliness Ratings EMA	SE	1.14	1.72	0.90	1.52		
	MB	1.14	1.80	0.97	1.65		
	WC	1.37	1.83	1.42	1.82		
	WSE			1.35	1.82	1.20	1.78

Note. SE/WSE = (waitlist) socio-emotional intervention, MB = mindfulness-based intervention, WC = waitlist control, M = mean, SD = standard deviation.

Table S2. Cronbach's alpha values for UCLA Loneliness Scale.

	Pretest	Posttest 1	Posttest 2
	($n = 221$)	($n = 217$)	($n = 57$)
Loneliness (UCLA Loneliness Scale)	0.94	0.93	0.90

Table S3. Mediation effects of slopes on change in outcome variables in the (waitlist) socio-emotional (SE and WSE) mental training compared to mindfulness-based mental training (MB).

		Group	Effect	SE	CI _{LL}	CI _{UL}
UCLA Loneliness Scale (general loneliness)						
	Fear of Compassion	SE	0.00	0.00	−0.00	0.01
		WSE	−0.00	0.01	−0.02	0.01
	Social Support	SE	0.00	0.00	−0.00	0.01
		WSE	0.00	0.01	−0.01	0.02
	Belonging to Friends	SE	0.00	0.01	−0.01	0.02
		WSE	−0.00	0.01	−0.02	0.01
	Belonging to World	SE	0.00	0.01	−0.01	0.02
		WSE	−0.00	0.01	−0.01	0.01
	Common Humanity	SE	0.00	0.00	−0.01	0.02
		WSE	−0.00	0.00	−0.01	0.01
	Frequency of Contact	SE	0.00	0.00	−0.00	0.01
		WSE	−0.00	0.00	−0.02	0.00
	Valence of Contact	SE	−0.00	0.01	−0.02	0.01
		WSE	0.00	0.01	−0.01	0.02
	Loneliness Pre-practice	SE	0.01	0.01	−0.01	0.04
		WSE	−0.01	0.01	−0.04	0.01
Loneliness Rating EMA (state loneliness)						
	Fear of Compassion	SE	0.01	0.02	−0.01	0.10
		WSE	−0.00	0.02	−0.08	0.02
	Social Support	SE	−0.00	0.02	−0.05	0.04
		WSE	0.02	0.03	−0.02	0.10
	Belonging to Friends	SE	−0.00	0.02	−0.05	0.02
		WSE	−0.00	0.02	−0.05	0.02
	Belonging to World	SE	−0.00	0.02	−0.04	0.03
		WSE	−0.00	0.01	−0.03	0.03
	Common Humanity	SE	−0.00	0.02	−0.08	0.01
		WSE	−0.00	0.02	−0.06	0.02
	Frequency of Contact	SE	0.00	0.02	−0.04	0.04
		WSE	−0.00	0.01	−0.03	0.03
	Valence of Contact	SE	−0.00	0.02	−0.04	0.03
		WSE	0.00	0.02	−0.02	0.04
	Loneliness Pre-practice	SE	0.03	0.05	−0.05	0.15
		WSE	−0.02	0.05	−0.15	0.06

Note. SE = standard error, CI_{LL} = 95% confidence intervals lower limit, CI_{UL} = 95% confidence intervals upper limit, EMA = ecological momentary assessment, UCLA = University of California Loneliness Scale.

Table S4. Mediation effects of slopes on change in outcome variables in the socio-emotional (SE) mental training compared to waitlist socio-emotional (WSE) mental training.

		Group	Effect	SE	CI _{LL}	CI _{UL}
UCLA Loneliness Scale (general loneliness)						
	Social Closeness Pre-practice	SE	0.00	0.01	−0.02	0.03
	Self-Disclosure Post-practice	SE	−0.00	0.01	−0.01	0.01
Loneliness Rating EMA (state loneliness)						
	Social Closeness Pre-practice	SE	−0.00	0.02	−0.08	0.02
	Self-Disclosure Post-practice	SE	0.00	0.02	−0.03	0.07

Note. SE = standard error, CI_{LL} = 95% confidence intervals lower limit, CI_{UL} = 95% confidence intervals upper limit, EMA = ecological momentary assessment, UCLA = University of California Loneliness Scale.

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