Study	Participants, study	Digital intervention	Engagement strategy and
Berger et al	designs and arms Participants: 81	Name: Not mentioned	comparator Engagement strategy
[39]	were randomized, six	Target health behavior/	Arm 1: guided self-help
	dropped out, 75	health condition: social	Mode of delivery: email
	were included in the	phobia	Content: the therapists
	review.	Internet-based self-help guide.	introduced themselves
	Study design: RCT	Comprised five largely text-based	through email and informed
	(three arms).	lessons, several exercises and	participants that they could contact them whenever they
	Included arms: pure self-help (n=26),	diaries and the option to	wanted to.
	guided self-help	participate in an online	Therapists also sent an
	(n=24) and step-up	discussion forum.	email with feedback to the
	of support on	Participants had to work through	participants on their
	demand (n=25).	the program in a sequential order	behavior and progress in
		but all lessons could be completed	the self- help guide. In case
		at once.	there was no activity by a
			participant during the
			week, therapists offered
			their help and assistance
			and asked if he or she was
			facing any problem with
			the program or with the
			tasks.
			Frequency, duration and
			timing: weekly contact for
			the duration of the DI (ten
			weeks).
			Sender: psychology
			therapist
			Arm 2: step-up of support
			on demand Mode of
			delivery: email+ telephone
			Content: at the end of
			each session of the DI,
			participants were
			automatically asked if they
			would like to receive
			additional support from a
			therapist. In a first step,
			and simply by clicking on a
			button, participants could ask for contact with a
			therapist via email. In a
			second step, and after the
			email contact had been
			established, participants
			were asked at the end of
			each session if they would
			like to have additional
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weekly telephone calls with their therapist. In addition, automated standardized emails were sent to participants in case they did not use the program for more than seven days. These emails informed recipients about the possibility of an additional contact with a therapist via email (in a first step) or via telephone (in a second step). Participants were able to click on a link in the email if they wanted this additional contact. Frequency, duration and timing: weekly contact (by choice) for the duration of the DI (ten weeks). Sender: psychology **Therapist** Comparator arm: pure self-help This group did not receive any engagement strategy. Berger Participants: 76 Name: Deprexis **Engagement strategy arm:** guided self-help et al were randomized, Target health behavior/health Mode of delivery: email [40] 50 were included in condition: depression **Content:** the therapists review. Internet-based self-help introduce themselves and Study design: RCT program. Consisted of ten informed participants that (three arms). content modules and a they could contact them Included arms: summary module covering a whenever they wanted to. unguided self- help variety of therapeutic content. Once a week, therapists (n=25), guided self-Participants were encouraged to wrote a short e-mail with help(n=25).work through the program in a feedback based on Excluded arm: waitsequential order. Modules were participants' program usage list control (n=26). not made available sequentially, over the previous week. The thus participants could feedback did not refer to complete the whole program at specific text passages or once. responses participants had selected. It was relatively generic in nature and did not discuss specific therapeutic strategies in detail. In case there was no activity by a participant, therapists offered their help

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Clarke et al [35]	Participants: 255 were randomized, 155 were included in the review. Study design: RCT (three arms). Included arms: mail reminders (n=75), telephone reminders (n=80). Excluded arm: treatment as usual (n=100).	Name: Overcoming Depression on the Internet (ODIN) Target health behavior/health condition: depression A pure self-help program offering training in cognitive restructuring. The intervention was organized in seven "chapters," each presenting a new technique via interactive examples and practice opportunities.	and assistance and asked if the participant was facing any problem with the program or with the tasks. Frequency, duration and timing: weekly contact for the duration of the DI (ten weeks). Sender: psychology therapist Comparator arm: unguided self-help This group did not receive any engagement strategy. Engagement strategy arm: telephone reminders Mode of delivery: telephone Content: brief (< 5 minutes) telephone reminders from non-clinician study staff where they first identified themselves and the study, then reminded participants of the ODIN website address and gave instructions for looking up forgotten passwords. They read a brief description of a feature of the website designed to entice the participant to make a return visit then concluded the call. Frequency, duration and timing: Staff called at two, eight, and 13 weeks after enrolment. Sender: The reminder staff had no mental health background, and they were prohibited from engaging in any therapy-like activity. Staff were capable of, and limited to, answering questions only about basic website troubleshooting (e.g.
			difficulty logging on).
			Comparator arm: mail
			postcard reminders

			Delivery channel: mail postcards Content: The content was
			scripted to convey information identical to that included in the
			telephone reminder calls.
			Frequency, duration and
			timing: Mail was sent at
			two, eight, and 13 weeks
			after enrolment.
			Sender: Reminder staff
			who had no mental health background.
Couper	Participants: 2513	Name: Making	Engagement strategy arm:
et al [11]	were randomized,	effective nutritional choices for	tailored DI+HOBI
	1677 were included in the review. Study design: RCT (three arms). Included arms: tailored DI (n=839), tailored DI +human online behavioral intervention (HOBI) (n=838). Excluded arm: untailored DI (n=836).	cancer prevention (MENU) Target health behavior/health condition: health promotion (intake of fruits and vegetables). The DI offered four core tailored education sessions phased over a four months period.	Mode of delivery: email Content: email counselling support sessions. Each counselling session was initiated by a study counsellor within a week after each web session was first visited. Counsellors provided additional support for dietary change and responded to any request for strategies or for nutrition information with a referral to the MENU website. Frequency, duration and timing: a maximum of four unique email discussions corresponding to each of the four web sessions were initiated by the counsellor when the sessions were accessed. Each email discussion was limited to four "back and forth" exchanges and the duration of these emails was based on the web sessions which
			was a four month period. Sender: Counsellors
			Comparator arm: tailored
			DI
			This group did not receive any engagement strategy.

Farrer et al [36]	Participants: 155 were randomized, 83 were included in the review. Study design: RCT (four arms). Included arms: web only (n=38), web with telephone tracking (n=45) Excluded arms: telephone tracking only (n=37), control (n=35).	Name: BluePages andMoodGYM Target health behavior/health condition: depression The web only intervention delivered online psychoeducation on the first week provided by BluePages (bluepages.anu.edu.au) combined with cognitive behavioral therapy on the second to sixth weeks provided by MoodGYM (moodgym.anu.edu.au.) BluePages is a freely accessible, psychoeducational website that contains information and resources related to depression. The MoodGYM program is a free to end-user, online program for	Engagement strategy arm: web with phone tracking Mode of Delivery: telephone call Content: telephone call addressing any issues associated with the participants' use of the online programs. Frequency, duration and timing: weekly ten minutes calls for six weeks. Sender: telephone counsellor Comparator arm: web only This group did not receive any engagement strategy.
Greaney et al [41]	Participants: 86 were randomized	depression. The program is divided into five modules designed to be completed sequentially. Name: Healthy Directions 2 Target health behavior/health	Engagement strategy arm:
	and included in the review. Study design: RCT (two arms and one non- randomized arm). Included arms: automated assistance (AA) (n=36), automated assistance + calls (AAC) (n=50). Excluded arm: observation only (OO) (n=14).	condition: targets self- monitoring of the following health behaviors (1) promote physical activity, (2) reduce red meat intake, (3) increase fruit and vegetable consumption, (4) promote daily multivitamin use, and (5) promote smoking cessation The website included a userfriendly section where patients could self-monitor all targeted behaviors at once. The website allowed participants to enter data for the day they logged into the website and for the two days prior. After entering data, participants received immediate feedback in the form of graphs and descriptive text. Participants could also view their data over time, to assess overall progress.	Mode of delivery: emails +telephone calls Content: participants received emails that encouraged them to track their behaviors via the study website. Email messages changed daily and included a brief message about the benefits of self- monitoring and a hyperlink to the study website. Participants also received two tailored self- monitoring reports that provided feedback to the individual about his or her frequency of tracking for each of the behaviors during the previous week. Reports were viewed as part of the prompting intervention. If participants did not self- monitor, their reports reiterated the information on the benefits of self- monitoring that was included on the daily emails and encouraged self- monitoring via the study website. Participants also received two technical assistance calls. The calls were designed to be brief (< 5 minutes) and focused on troubleshooting

technical questions (e.g.

			trouble logging in or how to self- monitor on the website). Frequency, duration and timing: participants received two weeks of daily emails during the prompting period (weeks two and three) and two tailored self- monitoring reports: the first at the end of week two and the second at the end of week three The telephone calls; the first call was made at the end of the first week of prompting (week two) and the second call took place at the end of the second week of prompting (week three). Sender: calls were made by a trained health coach. Comparator arm: AA Mode of delivery: emails Content: Emails were similar to those received by participants in the AAC condition. Frequency, duration and
			participants in the AAC condition. Frequency, duration and
			timing: participants received two weeks of daily emails during the prompting period (weeks two and three) and
			two tailored self- monitoring reports: the first at the end of week two and the second at
			the end of week three.
McClure et	Participants: 1865	Name: Q2	Engagement strategy arm:
al [37]	were randomized	Target health behavior/ health	proactive email reminders
	and included in the	condition: smoking cessation	Mode of delivery: emails
	review	The intervention was tailored to	Content: email messages
	Study design:	user's needs and delivered via the	were standardized across all
	randomized Factorial	Internet. The intervention included	individuals and encouraged
	Trial assessing four	a combination of core intervention	participants to return to the
	design intervention	content and additional special	Q2 website to view the
	features (including use of email	feature content. The core content	optional special feature
	reminders).	was accessible from the main page	content.
	Included arms:	and organized in three main drop-	Frequency, duration and timing: weekly (for two
	no proactive email	down headers or content areas,	months).
	reminders (n=932),	each targeting smokers at different stages of readiness to quit smoking.	Comparator arm: no
	proactive email	stages of reddiness to quit silloking.	proactive email reminders
	reminders (n=933).		-
			This group did not receive
		Name: Guía para Dejar de Fumar	any engagement strategy. Engagement strategy arm:
Munoz et	Particinants: 1000		
Munoz et al [42]	Participants: 1000		
Munoz et al [42]	were randomized,	(Guide to Stop Smoking, "Guía")	Guía+ ITEMs
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	Study design: Parallel-groups RCT (four arms). Included arms: Guía (n=247), Guía+ Individually Timed Educational Messages (ITEMs) (n=251) Excluded arms: Guía +ITEMs + mood management course (n=251) and Guía+ ITEMs+ mood management course+ virtual group	Web-based intervention "Guía", a National Cancer Institute evidence- based intervention initially developed for Spanish-speaking smokers. It contained an online static "Guía," a cigarette counter, and an online journal to record experiences while quitting.	Content: automated emails with links to the Guía keyed to quit date. Frequency, duration and timing: timed to quit date for approximately eight weeks. Sender: automated. Comparator arm: Guía This group did not receive any engagement strategy.
Proudfoot et al [43]	n=251). Participants: 419 were randomized , 273 were included in review. Study design: RCT (three arms). Included arms: Bipolar Education Program (BEP) (n=139), BEP+Informed Supporters (IS) (n=134). Excluded arm: control (n=134).	Name: BEP Target health behavior/ health condition: bipolar disorder The online psychoeducation program was an eight session audio—visual program. The program topics were standard for all users and presented in a sequential, non- interactive manner. Behavioral tasks for completion between online sessions were added in this study to facilitate application and practice of the content. One module per week was sent to participants over eight weeks.	Engagement strategy arm: BEP+IS Mode of delivery: emails Content: email coaching by people with bipolar disorder. Emails were designed to answer any questions participants may have had and to provide examples of how to apply the education material in the website to their everyday lives. Emails focused on effective self- management across three domains: medical management, emotional management. Emails were linked to the content of the online psycho- education program. Frequency, duration and timing: emails to a participant from an Informed Supporter were restricted to two 300-word communications per week for eight weeks. Sender: Informed Supporters, people with bipolar disorder who had been effectively managing their condition for at least two years. Comparator arm: BEP This group did not receive any engagement strategy.
Santucci et al [45]	Participants: 44 were randomized, 43	Name: Beating the Blues (BtB) Target health behavior/health condition: anxiety and depression	Engagement strategy arm: reminder Mode of delivery: emails

	were included in the review. Study design: Pilot RCT (two arms). Included arms: no reminder (n=22) and reminder (n=21).	An entirely automated and tailored web- based cognitive- behavioral intervention that consisted of eight sequential weekly sessions. The program is designed for sessions to build on one another, often providing individualization to the patient's unique needs.	Content: emails were sent to remind users to complete their BtB session for the week. Frequency, duration and timing: weekly for eight weeks. Sender: study staff. Comparator arm: no reminder This group did not receive any engagement strategy.
Schneider et al [46]	Participants: 3448 were randomized and included in the review. Study design: RCT (two arms). Included arms: no prompting (n=1658), prompting (n=1790).	Name: Not mentioned Target health behavior/health condition: multiple health behaviors: physical activity, fruit and vegetable intake, smoking cessation, and alcohol consumption. The Computer Tailored (CT) program used a dual approach to guide people toward behavior change. The first part consisted of a health risk appraisal and was aimed at increasing participants' awareness of their health behavior status and second part provided assistance in changing participants' health behavior by offering five separate CT modules. The modules used a fixed, gradual approach consisting of four steps, guiding people toward behavior change. The website was regularly updated.	Engagement strategy arm: prompting Mode of delivery: email Content: an email was sent to prompt users to revisit the program. This email opened with a personalized greeting and reminded people about their first visit to the program. Subsequently, people were invited to revisit the program to obtain information on their health status and to monitor their progress. Participants were also informed of the opportunity to receive additional, iterative health advice on the health behaviors selected at baseline or on a new behavior. The email also contained details on personal log-in information (user name and password). The email concluded with greetings from the research team and contact information. Frequency, duration and timing: email was sent three months from the baseline visit. Comparator arm: no prompting This group did not receive any engagement strategy.
Schneider et al [44]	Participants: 240 were randomized and included in review. Study design: RCT (seven arms).	Name: Internet- Delivered Computer- Tailored Lifestyle Program Target health behavior/health condition: five health behaviors: Physical activity, fruit and vegetables intake, smoking	Engagement strategies: Arms 1,2 and 3: standard prompts Mode of delivery: email Content: participants received an email that contained a reminder about

Included arms: control condition- no prompt (NP)(n=34), six experimental conditions: three groups sent prompt with standard content (SP) at two weeks (n=34), at four weeks (n=34), at six weeks (n=35) and three groups sent prompt with standard prompt and additional content (SP+) at two weeks (n=36), at four weeks (n=35) and at six weeks (n=32).

cessation and decreasing alcohol consumption.

Website with computer tailored (CT) lifestyle program embedded in it. The program used a dual approach to guide people toward behavior change. First, awareness of participants' current health behavior status was increased by comparing their status to the Dutch public health guidelines set for these health behaviors. Second, assistance was provided in changing participants' health behavior by using CT modules available per behavior. The modules used a fixed, gradual approach consisting of four steps, guiding people toward behavior change. The website was regularly updated.

user previous visit to the CT program and an invitation to visit it again to monitor their behavior change progress and obtain additional feedback and advice. This standard email opened with a personalized greeting and reminded people about their first visit to the program. Participants were also given the opportunity to receive additional iterative health advice on the health behavior(s) selected at baseline or on a new behaviour. To facilitate logging in to the program, the email also contained details about their personal log-in information (username and password). The email concluded with greetings from the research team and contact information.

Frequency, duration and timing: one email was sent to each group either on the second or fourth or the sixth week from baseline.

Arms 4,5 and 6: standard prompt and additional content (SP+)

Mode of delivery: email Content: participants received the same email content as SP with additional content.

Additional content consisted of new information that was placed on the program website since they last visited it. This information referred to nutrition and provided examples of healthy food alternatives that were available for that current season (eg, spring/summer).

Frequency, duration and timing: one email was sent to each group either on the second or fourth or the sixth week from baseline

Comparator arm: no prompt

This group did not receive any engagement strategy.

Simon et al [38]	Participants: 118 were randomized	Name: My Recovery Plan Target health behavior	Engagement strategy arm: coaching
	and included in the review. Study design: Pilot RCT (two arms). Included arms: program only (n=54), coaching (n=64).	/health condition: bipolar disorder An interactive online program to support people living with bipolar disorder in creating and using personal recovery plans. Participants received online coaching support from certified peer specialists, however, communication with those coaches was done within the website to protect participants' privacy.	Mode of delivery: email Content: emails were sent to the participants alerting them every time they received a new message from their coaches. Emails did not contain sensitive information. Frequency, duration and timing: email notifications were sent when coaches sent private messages on the website so frequency varies for different users, however those notifications were related to coaches messaging users which was for one year (the duration of the DI). Sender: automated
			Comparator arm:program only This group did not receive
Titov et al [47]	Participants: 168 were randomized, 163 were included in review Study design: Pragmatic RCT (two arms). Included arms: computerized cognitive behavior therapy (CCBT) (n=82) and CCBT+ Telephone (n=81).	Name: Not mentioned but study name was Shyness 4 Target health behavior /health condition: social phobia A computer delivered treatment that consisted of six online lessons, a summary/homework assignment for each lesson, comments by prior participants about each lesson. All participants were asked to complete the six lessons within eight weeks of starting.	Engagement strategy arm: CCBT+Telephone Mode of delivery:telephone +emails+text messages Content: participants were telephoned each week by a research assistant, at a time specified by the participant, when they were commended and encouraged to persevere but no clinical advice was offered. Each participant received four text messages and an average of 15 automated emails which were sent at specific stages of the programme (the criteria for sending an email included a participant completing a lesson, not completing a lesson within a specified time frame, or to alert participants to additional material that had been made available in relation to a specific lesson or issue). Frequency, duration and timing: weekly telephone calls, fortnightly text and variable emails for eight weeks. Sender: Research assistant

made the calls

Comparator arm: CCBT
Mode of delivery: emails
+text messages
Content: each participant
received four text messages
and an average of 15
automated emails which
were sent at specific stages
of the programme (the
criteria for sending an email
was similar to the
intervention arm).
Frequency, duration and
timing: fortnightly text and
variable emails for eight
weeks.