Trial	Random	Allocation	Incomplete	Selective	Other biases
	sequence	concealment	outcome data	reporting	
	generation				
Abroms et al	High risk	High risk	High risk	Low risk	Low risk
[53]					
	Participants	Within group	Small sample	It seems that	None
	were previously	study	size and	all outcomes	detected
	enrolled in a		response rate	were	
	similar study.		dropped by	reported.	
			35% 4< follow		
	"Pregnant		up.		
	women enrolled				
	in Text4baby"		"Of the 20		
			enrolled, 16		
			completed the		
			2-week follow-		
			up survey		
			(80% response		
			rate), and 13		
			completed the		
			4-week follow		
			up survey		
			(65% response		
			rate)."		
Abroms, Boal,	Low risk	Unclear	Low risk	Low risk	High risk
Simmens,					
Mendel &	Participants	Not reported	High	It seems that	Paid study
Windsor [54]	randomized to	within	engagement	all outcomes	
	control and	Methods	with follow up	were	"Participant
	intervention	section.	data collection	reported.	s received a

up to 6

months.

groups

"Participants

\$15 Amazon

gift card for

each

(n=503) were	"Follow-up	completed
recruited on the	rates for the	survey and a
Internet and	1-, 3-, and 6-	\$25 Amazon
randomized to	month surveys	gift card for
receive	were 85.7%,	providing a
Text2Quit or	82.9%, and	saliva
self-help	75.7%	sample."
material"	respectively."	

Buller,	Low risk	Unclear	Low risk	Low risk	Low risk
Borland,					
Bettinghaus &	Participants	Not reported.	Good	Study	None
Zimmerman	randomized to		engagement	appeared to	detected
[58]	control and		with	report results	
	intervention		intervention.	well.	
	groups				
			"Overall, 60%	"REQ-Mobile	
	"Young adult		of smokers	was feasible	
	smokers 18-30		used mobile	for delivering	
	years old (n =		services and	cessation	
	102)		75% evaluated	support but	
	participated in a		REQ-Mobile as	appeared to	
	randomized		user-friendly"	not move	
	pretest-posttest			smokers to	
	trial."			quit as quickly	
				as text	
				messaging."	
Choi, Lee,	Low risk	Low risk	Low risk	Low risk	Low risk
Vittinghoff &					
Fukuoka [59]	Randomization	Allocation was	High	All outcomes	None
	was computer	adequately	engagement	were	detected

"Randomization "Allocation

concealed.

generated.

rates. insignificant,

and follow up

including the

reported,

was computer-	was	"Twenty-nine	alongside the
generated and	concealed in	women (96.7	possibility of
stratified by	opaque	%) completed	adverse
body mass index	envelopes."	the 12-week	events.
category based		visit: 14	
on self-reported		intervention	"Although we
pre-pregnancy		and 15 control	did not find a
weight and		participants."	statistically
height"			significant
			between-
			group
			difference in
			step in the
			increases in
			step counts,
			we did find
			some
			evidence for
			beneficial
			intervention
			effects on
			selected
			barriers to
			exercise as
			well as
			pregnancy

- symptoms....T
- here were no
- serious
- adverse
- events
- (hospitalizatio
- n or
- emergency

visits) associated with the intervention."

Glynn et al Low risk Low risk Low risk Low risk Low risk Randomization Allocation was **High retention** All outcomes None was computer adequately rate over the 8 stated were detected generated. concealed. week study. reported. Only one "Randomisation "An participant occurred using independent didn't reach random investigator completion. permuted blocks was to ensure there responsible were similar for numbers of generating participants in the allocation the intervention sequence and control using the groups." Research Randomizer computer software program.... The same independent investigator was responsible for assigning participants

to the

[60]

intervention

and control
groups after
being called
at a central
site."

Harries et al [61]	Unclear	Unclear	High risk	Low risk	High risk
	Not reported	Not reported	Participant's usage of the app dropped.	All outcomes reported	Most participants male.
			"As illustrated in Figure 5, the app was opened most often in the first few days of the study, with usage thereafter declining – first rapidly and then more gently."		"Although the study could have been conducted with either men or women, it was decided to focus on men because of the need for the study phones to be carried in trouser pockets and the likelihood that women would find it

difficult to comply with this

requirement

."

Hertzberg et al [62]	Low risk	Unclear	Low risk	Low risk	High risk
[]	Participants were	Not reported	High retention	Reported all outcomes and	Paid study
	randomized.		"Two	insignificant	
			participants	results.	
	"22		(one in the		
	(participants)		mCM	"logistic	
	were		condition and	regression	
	randomized to		one in the	failed to	
	receive either		yoked	indicate a	
	mCM or to a		condition)	significant	
	yoked condition"		withdrew prior	condition	
			to the quit	effect for end-	
			date."	of-treatment	
				abstinence."	
Lee,	High risk	High risk	Low risk	Low risk	Low risk
Koopmeiners,					
Rhee, Raveis,	Within group	Within group	High retention	Reported all	None
Jasjit &	study	study	rate	outcomes	detected
Ahluwalia [55]					
McGillicuddy	Low risk	Unclear	Low risk	Low risk	High risk
et al [63]					
	Participants	Allocation	Small sample	Reported al	First study of
	were adequately	protocol not	size but high	outcomes	its kind.
	randomised.	reported.	retention rate		
			in second		"To our

"20 subjects were randomly assigned to either the mHealth intervention or to standard care." phase.

"Of the 21 subjects randomized, 1 was withdrawn for scheduling conflicts; the remainder completed the second phase

of the study."

knowledge, this is the first randomized controlled trial in kidney transplant recipients that has simultaneou sly examined the use of real time medication reminder and monitoring devices along with wireless measureme nt of relevant physiologica l indices to facilitate timely reinforceme nt based on adherence levels."

Mira et al [64] Low risk

Low risk

Low risk

Participants	Adequate	No	All outcomes	None
adequately	allocation	participants	were	detected
randomised.	concealing.	were lost at	reported.	
		the follow up		
"To evaluate	"To maintain	stage.		
ALICE we opted	the blinding			
for a single-blind	and be able to			
experimental	link the pre			
design with 2	and post			
groups (control	measurement			
and	s, patients			
experimental)	were assigned			
(NCT02071498).	codes based			
Patients were	on their date			
randomly	of birth and			
assigned to the	initials."			
control or				
experimental				
group."				
Low risk	Low risk	Low risk	Low risk	Low risk
Adequate	Adequate	Only lost 6	All data	None
random	allocation			
	allocation	participants in	reported	detected
sequence	concealment	participants in follow ups.		detected
sequence generation			reported adequately	detected
-				detected
-	concealment	follow ups.		detected
generation	concealment "The Pl	follow ups. Intervention a		detected
generation "Group	concealment "The Pl assigned	follow ups. Intervention a		detected
generation "Group assignment was	concealment "The PI assigned patients to	follow ups. Intervention a (n=2)		detected
generation "Group assignment was generated by	concealment "The PI assigned patients to their group by	follow ups. Intervention a (n=2) Intervention b		detected
generation "Group assignment was generated by random	concealment "The PI assigned patients to their group by distributing	follow ups. Intervention a (n=2) Intervention b		detected
generation "Group assignment was generated by random allocation	concealment "The PI assigned patients to their group by distributing envelopes in	follow ups. Intervention a (n=2) Intervention b (n=2)		detected

Park, Howie-

Esquivel,

Chung &

Dracup [56]

was prepared by	order."
-----------------	---------

а

numbers

generator-"

biostatistician."

Partridge et al	biostatistician." Low risk	Low risk	Low risk	Low risk	High risk
[78]					
	Independent	Adequate	No drop outs	All outcomes	Focus on
	sequence	allocation	from control	reported	strengths of
	generation	concealment	group and only	thoroughly	study and
			10 from the		not
	"A random	"-and	intervention.		limitations
	sequence was	concealed			within the
	generated by an	from those	Dropped out		discussion
	independent	responsible	immediately		section.
	researcher-"	for enrolling	(intervention,		
		participants	n=2)		
		into the			
		intervention	Dropped out		
		arm."	at 12 week		
			follow up		
			(intervention,		
			n=8)		
Turner-	Low risk	Unclear	Low risk	Low risk	Low risk
McGrievy &					
Tate [65]	Randomisation	Not stated	High retention	All outcomes	None
	was computer	within the	rate	reported	detected
	generated	study		including	
			"Participants	insignificant	
	"Participants		who did not	ones.	
	were randomly		complete the		
	assigned using a		study at 6	"The group-	
	computerized		months (n =	by-time	
	random		10)"	interaction	

was not

significant for

any of the variables. The percentage weight loss at 3 or 6 months did not differ between the groups."

Laing et al	Low risk	Low risk	High risk	Low risk	Low risk
[66]					
	Independent,	Adequate	High dropout	All outcomes	None
	unbiased	allocation	rate	reported	detected
	sequence	concealment			
	generation		"At 3 months,		
		"We printed	26% of		
	"Our statistician	the sequence	intervention		
	used R to	and placed it	group		
	generate the	in opaque	participants		
	permuted block	envelopes."	and 21% of		
	sequence."		control group		
			participants		
			were lost to		
			follow-up or		
			had		
			withdrawn		
			At 6 months,		
			32% of		
			intervention		
			group		
			participants		
			and 19% of		
			control group		
			participants		
			were lost to		

follow-up or had withdrawn."

Arean et al	Low risk	Unclear	Low risk	Low risk	High risk
[67]					
	Adequate	Not stated	Only 3	No selective	Gender split
	randomisation	within the	participants	reporting	
		study	didn't	apparent	"The
	"We randomly		complete		majority of
	assigned				the sample
	participants to 1				was female"
	of the 3 apps				
	using a random				
	number				
	generator built				
	into the				
	eligibility				
	survey."				
Kinderman et	Low risk	High risk	High risk	High risk	High risk
al [40]					-
al [68]					-
ai [00]	Within group	Within group	Low usage rate	Positive	Low uptake
ai [00]	Within group study	Within group study	Low usage rate	Positive generalisation	Low uptake
ai [00]			Low usage rate "majority of		Low uptake "absolute
ai [00]			-	generalisation	
ai [00]			"majority of	generalisation of results	"absolute
ai [00]			"majority of participants	generalisation of results from a	"absolute uptake was
ai [00]			"majority of participants only used the	generalisation of results from a relatively	"absolute uptake was low and
ai [00]			"majority of participants only used the app one or	generalisation of results from a relatively small sample	"absolute uptake was low and most users
ai [00]			"majority of participants only used the app one or two times:	generalisation of results from a relatively small sample	"absolute uptake was low and most users made few
ai [00]			"majority of participants only used the app one or two times: 65% (186/285)	generalisation of results from a relatively small sample size.	"absolute uptake was low and most users made few
ai [00]			"majority of participants only used the app one or two times: 65% (186/285) used it once	generalisation of results from a relatively small sample size. "although the	"absolute uptake was low and most users made few
ai [00]			"majority of participants only used the app one or two times: 65% (186/285) used it once with 17%	generalisation of results from a relatively small sample size. "although the absolute	"absolute uptake was low and most users made few

			time. This figure dropped to 7% (21/285) for three entries with only one participant using the app more than 13 times."	of the available population), this would, for the wider general population, represent a highly cost- effective intervention."	
Kuhn et al [69]	Low risk	High risk	Low risk	Low risk	Low risk
	Within group study	Within group study	Data from all participants analysed	All relevant data reported	None detected
Proudfoot et al [70]	Low risk	Unclear	Low risk	Low risk	Low risk
	Randomisation was carried out by an independent person.	Allocation to group was mentioned but not the concealment.	High retention rates	Both primary and secondary outcomes were reported	None detected

Pramana, Parmanto,	Low risk	High risk	Low risk	Low risk	High risk
Kendall & Silk	Within group	Within group	High	No selective	The study
[71]	study	study	compliance	reporting	gave the
			rate	detected.	potential to
					earn
			"Figure 8		rewards.
			suggests that		
			patients were		"Patients
			compliant		earn prizes
			with the		for
			protocol,		completing
			completing an		skills coach
			average of		entries."
			5.36 entries		
			out of 6.48		
			requests		
			(82.8%		
			completion		
			rate) between		
			each session		
			(standard		
			deviation=1.9		
			5)."		
Whittaker et	Unclear	Low risk	High risk	Low risk	Low risk

numbers."

al [57]	Random	Adequate	Only a fraction	All results	None
	sequence	allocation	of the sample	were reported	detected
	generation was	concealment	viewed all of	accordingly	
	not noted in the		the intended		
	study	"This research	messages.	"disappointin	
		was part of a		gly the	

Watts et al	Low risk	Low risk	High risk	Low risk	Low risk
			estimation."		
			likelihood		
			maximum		
			data in the		
		the program."	for missing		
		downloading	the routines		
	randomization"	when	analyses using		
	(1:1) individual	differentiated	group) in		
	with balanced	could not be	comparison		
	controlled study	program	in the		
	blind, attention-	comparison	group and 46		
	stratified, single-	and	intervention		
	multiregional,	intervention	(68 in the		
	multicenter,	the	participants		
	"This was a	was blinded;	all 114		
		"This process	"we included		
	generation.				
	sequence	concealment.	participants	detected	
	random	allocation	missing	reporting	detected
	Adequate	Adequate	Accounted for	No selective	None
[72]					
Kauer et al	Low risk	Low risk	Low risk	Low risk	Low risk
				for help."	
				where to go	
				to know	
				participants	
				control group	
				likely than the	
			the messages"	were no more	
			most or all of	participants	
		RCT"	123) viewing	group	
		double-blind	"29.6% (n =	intervention	
			" (0) (• • •	

[27]					
	Independent	Adequate	Low	All outcomes	None
Get Happy	persons carried	allocation	adherence	were	detected
programme	out the	concealment.	rates. If	thoroughly	
	randomisation		engagement	measured	
	process.	"Concealment	was low, data		
		of allocation	could be		
	"were	was	skewed.		
	randomised via	maintained			
	a true	until the	"8.6% (3/35)		
	randomisation	applicant met	completed		
	process	all inclusion	only the first		
	generated by a	criteria and	lesson, 2.9%		
	team member	an offer of	(1/35)		
	not involved in	participation	completed		
	the study"	made."	two lessons,		
			2.9% (1/35)		
			completed 3		
			lessons, 5.7%		
			(2/35)		
			completed 4		
			lessons, 11.4%		
			(4/35)		
			completed 5		
			lessons and		
			68.6% (24/35)		
			of participants		
			completed all		
			six lessons."		
Ben-Zeev et al [73]	Low risk	High risk	Low risk	Low risk	Low risk
	Within group	Within group	High retention	No selective	None

study

study

rate and data

collection.

reporting

detected

detected

"One participant dropped out of the study after losing 2 study smartphones in the first week."

Torous et al [74]	Low risk	High risk	Low risk	Low risk	Low risk
	Within group	Within group	High retention	No selective	None
	study	study	rate	reporting	detected
				detected	
			"Out of a total		
			of 14 patients		
			who were		
			offered the		
			opportunity to		
			participate, 13		
			(93%) enrolled		
			in the study."		
Hidalgo-	Low risk	Low risk	Low risk	Low risk	Low risk
Mazzei et al				NI I (*	
[75]	Adequate	Excellent	No incomplete	No selective	None
	random	allocation	outcome data	reporting	detected
	sequence	concealment	reported	detected	
	generation				
		"5 digits			
	"an independent	random			
	researcher	identification			
	randomize the	number (IDN)			

sample to the will be intervention generated for all the group or to the control group" participants throughout all the phases of the study. The crossreference of this identification number and the patient identity will be encrypted and stored in a database file. Those patients using the smartphone application will be identified only by the IDN, which will be also the username to access the application." Pham, Khatib, High risk Unclear/ **High risk** Low risk Low risk Stansfeld, Fox **High risk**

& Green [76] **Unblinded RCT**

Allocation

Initial participants

None

detected

No selective

reporting

"unblinded,	concealment	Intervention	detected
Web-based,	was not	n=31	
parallel-group	mentioned in	Control group	
RCT focusing on	the study but	n=32	
feasibility,	due to the		
clinical efficacy,	study being	4< weeks	
and design proof	unblended	(Post	
of concept."	high is	withdrawals)	
	assumed.	Over 4 weeks	

Intervention n=17 Control group n=25

Even after the withdrawals the initial number of participants was included in the analyses.

Ly, Asplund &	Low risk	Unclear	Low risk	Low risk	High risk
Andersson					
[77]	Unbiased	Allocation	High retention	Reported all	First study of
	persons carried	concealment		outcome	its kind.
	out the	was not noted	"Of the 74	measures and	
	randomisation.	within the	participants	were impartial	"First RCT
		study	randomized,	when	for stress
	"participants		one	reporting both	manage-
	were allocated		participant	strengths and	ment in
	using an online		decided not to	limitations of	organization
	randomization		participate in	the study	al context

tool, handled by	the study. Five	using a
an independent	out of the 73	smartphone
person who was	participants	app."
separate from	(6.8%) did not	
the staff	provide post-	
conducting the	treatment	
study"	data"	

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