Multimedia Appendix 1a. Characteristics of the interventions (message customization, personalization, delivery timing, and frequency)

Trial/	Message customization			Personalization	Delivery timing			Frequency	
Country									
(refs)	Generic v	Ability to update	Simple v		Timing	Random	Specific times	Number of	Fixed v variable
	individualized	custom settings	complex			times		messages per day	frequency
			customization					or per week	
TEXT ME/	Content was partly	Customization was	Relatively	Yes	On working days	Random	No (network latency	1 message per	Consistent
Australia [9,	generic and partly	only at baseline	simple		during working	delivery	times cannot be	day, average 4	schedule of 4
19, 32]	customized to		algorithms using		hours. Occasional	times on	measured with	messages per	messages per
	participant's		minimal		season's	random	confidence).	week	week on random
	needs.		baseline data		greetings message	weekdays			weekdays.
					on holidays				
Text4Heart/	Individualized timing	Custom settings	Simple	Yes- messages	Preferred time of	No	Yes	7 messages per	Variable: 7
New Zealand		could be updated		tailored to	day to receive			week (1 per day).	messages per
[21, 29]		but require		participants' name	messages			From weeks 13 to	week from weeks
		participants to						24, the frequency	1 - 12; 5
		phone research						of messages	messages per
		centre to request a						decreased to 5	week from weeks
		change						per week.	13-24
Islam/	Generic	Message delivery	Not applicable	Not personalized	Random	Between 10	None	One message per	Fixed
Bangladesh		software allowed to				am-5 pm		day during a 6	
[22, 33]		update custom						months period	
		settings							
Heart/ New	Individualized	Participants could	Simple	Personalised to	Random			118 messages	Six messages per
Zealand [24-	depending on	change their ex		baseline fitness level		Sent		over 24 weeks	week for the first
26, 30]	prescribed exercise	prescription but		obtained in Peak		randomly			12 weeks, five
	for each	had to phone in to		VO2 test		during			messages per
		research centre to				daytime			week for 6 weeks
	Week, including	do so				hours			and then four
	duration, frequency,								messages per
	and intensity of								week for the
	exercise								remaining 6
									weeks

StAR/ South	Messages were	Customise at	Simple	Yes, some messages	Timing according	No	Yes, timing of some	Information-only	Fixed
Africa [8, 18]	made available in	baseline, offered		included the name	to participants '		message was related	group: 1 message	
	participants'	option to change		of patients'own	preferences		to clinic appointments	sent weekly for	
	preferred language	language, timing		clinic or pharmacy			and medicine	12-months.	
	(English, isiXhosa and	after enrolment		or health care			collection (information		
	Afrikaans) and timing	using automated		worker			facilitated by secure	Interactive SMS	
	of the messages.	system					linkage to	group: SMS-text	
							computerized	message sent	
							appointment data)	weekly for 12-	
								months.	

Multimedia Appendix 1b. Characteristics of the interventions (message content, directionality, character set)

Trial/ Country (refs)		N	Directionality	Character set			
	Sender signature Readability level included in the messages		Message length	Order of message content (random v sequential)	Unique messaging v repetition	Unidirectional v bidirectional	Unicode allowed?
TEXT ME/ Australia [9, 19, 32]	A full signature was included in the first message. Subsequent messages used abbreviated signature.	5th-8th - grade reading level	120-160	Random order.	Unique	One-way	Capacity to support Unicode (but not implemented).
Text4Heart/ New Zealand [21, 29]	Yes, each message began with T4H (Text4Heart)	Appropriate reading level (rms 800 lexile: approximately age 13 years)	140 characters or less	Sequential: general informational messages regarding basic heart health sent first, followed by specific behaviour change strategies	Unique (except weekly pedometer count reminder)	Two-way interaction: bidirectional messaging was used because participants were prompted to text in their weekly pedometer step counts and to ask questions or for feedback on other behaviours.	Unclear
Islam/ Bangladesh [22, 33]	Yes	Readability level not tested, but written using language suitable for those who completed primary education	160 characters or less	Random order	Repetition (all the messages developed were sent twice during the 6 months period)	One-way	Not applicable
Heart/ New Zealand [24- 26, 30]	Yes, each message began with HEART:	Readability level not tested, but written in plain language, and pre-tested with end-users	140 characters or less	Sequential	Unique	One way	Unicode not allowed
StAR/ South Africa [8, 18]	Yes	5th-8th - grade reading level	160 characters or less	Random	Unique	Two intervention arms were included: one with information only SMS - texts, and one that included an interactive component.	Yes (used @ for example)