**Supplementary Table 1.** App Coding Rules

BCT	Rule
8.4 Habit reversal/8.2 behaviour substitution and/or 7.1 Prompts/cues	To be substitution (8.2) it would need to know that you are sitting/being inactive and only prompt you then. To add habit reversal (8.4) behavioural substitution would need to be present and then also it would have to happen repeatedly (i.e. every time it happens). To be 8.2 and 8.4, it must say you have to replace something with something else (i.e. stand up and move rather than sitting down).
1.1 Goal-setting (behaviour) or 7.1 Prompts/cues	The app would have to say your goal is to X or you need to have X number of breaks.
2.3 Self-monitoring of behaviour and 2.2 Feedback for behaviour	If it is showing you or telling you how you did it is feedback.
9.1 Credible source	Code 9.1 when it is associated with a specific person/organization. Do not code 9.1 for general statements (e.g., "research says" "according to doctors").
8.4 Habit reversal	Need to prompt you to count as 8.4
3.1 Social support (unspecified)	Code for social support that is delivered via the app (e.g., little creatures/friends giving encouragement) (in addition to social support that is foster via interaction with other app users).
6.2 Social comparison	Code when the user can also see "friends" activity on the app (i.e. not the user just sharing their own activity)
Outcome BCTs	Calories are considered as an "outcome".
General rule	Make sure that it is associated with the behaviour (i.e. sitting), if it is not specific do not code it. However, if other pieces of the description suggest that is related to the behaviour, then include (and highlight the other pieces)

Supplementary Table 2. 'By Description' Coding Free and Paid Apps

App	Store	BCTs
Free (n=36)		1 - 5 - 2
App 1: Stand up! The	iTunes	2.2 Feedback on behaviour
Work Break Timer®	Trunes	5.1 Information about health consequences
WOIK DIEAK TIIIICI		7.1 Prompts/cues
App 2: Got a Minute	iTunes	5.1 Information about health consequences
for Your Health?®	Tranes	7.2 Prompts/cues
	iTunes	2.2 Feedback on behaviour
App 3: Sitting®	Trunes	2.3 Self-monitoring of behaviour
		5.1 Information about health consequences
		7.1 Prompts/cues
App 4: OfficeHealth®	iTunes	2.4 Self-monitoring of outcome(s) of behaviour
App 4. Officertealth	Trunes	5.1 Information about health consequences
		7.1 Prompts/cues
App 5: Move Your	iTunes	2.2 Feedback on behaviour
App <sup>®</sup>	Trancs	5.1 Information about health consequences
App		7.1 Prompts/cues
App 6: Healthful®	iTunes	5.1 Information about health consequences
App o. Heatinui	Trancs	7.1 Prompts/cues
App 7: Get Moving®	iTunes	2.2 Feedback on behaviour
ripp 7. Get Moving		5.1 Information about health consequences
		7.1 Prompts/cues
App 8: Stand Up	iTunes	1.1 Goal setting (behaviour)
Tracker <sup>®</sup> a		2.3 Self-monitoring of behaviour
Trucker		2.4 Self-monitoring of outcome(s) of behaviour
		5.1 Information about health consequences
		7.1 Prompts/cues
		9.1 Credible source
App 9: Standland®	iTunes	2.2 Feedback on behaviour
FF / · · · · · · · · · · · · · · · · · ·		2.3 Self-monitoring of behaviour
		3.1 Social support (unspecified)
		5.1 Information about health consequences
		10.3 Non-specific reward
App 10: Rise &	iTunes	1.1 Goal setting (behaviour)
Recharge®		2.3 Self-monitoring of behaviour
		5.1 Information on health consequences
		7.1 Prompts/cues
		9.1 Credible source
		10.3 Non-specific reward
App 11: Healthy Break <sup>®</sup>	iTunes	None
App 12: Sitting	Google	2.2 Feedback on behaviour
Timer <sup>®</sup>	Play	2.3 Self-monitoring of behaviour
	-	5.1 Information on health consequences

		7.1 Prompts/cues
A 12 M II I ®	Google	7.1 Prompts/cues 7.1 Prompts/cues
App 13: MoveUp!®	Play	7.1 Flompts/cues
App 14: Move-Up®	Google	2.3 Self-monitoring of behaviour
лрр 14. Моче-ор	Play	5.1 Information about health consequences
		7.1 Prompts/cues
App 15: Movn	Google	2.3 Self-monitoring of behaviour
Activity <sup>®</sup>	Play	5.1 Information about health consequences
7 ictivity		7.1 Prompts/cues
App 16: Twenty:	Google	5.1 Information about health consequences
Stand Up®	Play	7.1 Prompts/cues
App 17: Stand up®	Google	2.3 Self-monitoring of behaviour
Tipp III aunu up	Play	5.1 Information about health consequences
		7.1 Prompts/cues
App 18: Stand up®	Google	7.1 Prompts/cues
	Play	
App 19: Take a	Google	2.3 Self-monitoring of behaviour
Stand®	Play	5.1 Information about health consequences
		7.1 Prompts/cues
App 20: Stand up ®	Google	5.1 Information about health consequences
	Play	7.1 Prompts/cues
		9.1 Credible source
App 21: Stand App <sup>®b</sup>	Google	5.1 Information about health consequences
	Play	7.1 Prompts/cues
		9.1 Credible source
App 22: Move it!®	Google Play	7.1 Prompts/cues
App 23: Actifit®	Google	2.3 Self-monitoring of behaviour
II	Play	6.2 Social comparison
App 24: Sedentary	Google	7.1 Prompts/cues
work <sup>®</sup> c	Play	
App 25: Activatr®	Google	2.3 Self-monitoring of behaviour
	Play	5.1 Information about health consequences
		7.1 Prompts/cues
App 26:Fitness IQ®	Google	2.3 Self-monitoring of behaviour
` `	Play	
App 27: StandUp®	Google	2.2 Feedback on behaviour
	Play	2.3 Self-monitoring of behaviour
App 28: Office	Google	5.1 Information on health consequences
exercise <sup>®d</sup>	Play	7.1 Prompts/cues
App 29: ActiMate®	Google	2.2 Feedback on behaviour
	Play	2.3 Self-monitoring of behaviour
		7.1 Prompts/cues
App 30: Up by	Google	None
Jawbone®	Play	

App 31:	Google	7.1 Prompts/cues
Movnowplus <sup>®</sup>	Play	The second secon
App 32: Office	Google	5.1 Information about health consequences
wellness®	Play	7.1 Prompts/cues
App 33: PING®	Google	7.1 Prompts/cues
прр 33.1 пло	Play	1.12 2.22
App 34: Bally total	Google	7.1 Prompts/cues
fitness®	Play	
App 35: Help the	Google	2.2 Feedback on behaviour
couch potato®	Play	2.3 Self-monitoring of behaviour
F *****		7.1 Prompts/cues
App 36: Work and	Google	7.1 Prompts/cues
stand up®	Play	9.1 Credible source
Paid (n=14)		
	T	
App 1: Move More®	iTunes	2.2 Feedback on behaviour
		2.3 Self-monitoring of behaviour
		5.1 Information about health consequences
		6.2 Social comparison
	·m	7.1 Prompts/cues
App 2: Stop Sitting®	iTunes	5.1 Information about health consequences
	:T	7.1 Prompts/cues
App 3: Get Moving®	iTunes	2.2 Feedback on behaviour
		5.1 Information about health consequences 7.1 Prompts/cues
Ann A. Chand Ann®h	iTunes	5.1 Information about health consequences
App 4: Stand App <sup>®</sup>	Trunes	7.1 Prompts/cues
		9.1 Credible source
App 5: Stand Alarm®	iTunes	5.1 Information about health consequences
App 3. Stand Alann	TT GITCS	7.1 Prompts/cues
App 6: TAYB®	iTunes	5.1 Information about health consequences
Tipp of IIII		7.1 Prompts/cues
App 7: Desk Job®	iTunes	5.1 Information about health consequences
		7.1 Prompts/cues
		9.1 Credible source
App 8: Stand Up	iTunes	1.1 Goal setting behaviour
Reminder PRO <sup>®</sup> a		2.3 Self-monitoring behaviour
		2.4 Self-monitoring of outcome(s) of behaviour
		5.1 Information about health consequences
		7.1 Prompts/cues
	ļ	9.1 Credible source
App 9: Step counter	iTunes	7.1 Prompts/cues
& Smart Reminder®		
App 10: Stand up®	iTunes	7.1 Prompts/cues

App 11: Hourly	iTunes	5.1 Information about health consequences
Fitness®		
App 12: Wear Stand-	Google	7.1 Prompts/cues
$\operatorname{Up}^{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	Play	
App 13: Sedentary	Google	7.1 Prompts/cues
work PRO <sup>®</sup> c	Play	
App 14: Office	Google	5.1 Information about health consequences
Exercises & Stretch	Play	7.1 Prompts/cues
PRO <sup>®d</sup>		

The apps that have a lettered asterisk are the paid apps which also had a free version. The matching letters indicate the matching free to paid version of the apps.