Table S1 Mean Sun Protection Habits

		4 1 6 11	
Sun Protection Habits	Baseline n=124	1 week after the	3 months after
(SPH)	11–124	intervention n=109	the intervention n=107
	Mean ^a (SE)	Mean* (SE)	Mean* (SE)
Wear a long shirt with	mean (OL)	mean (OL)	mean (OL)
sleeves			
Control	2.94 (0.14)	2.95 (0.14)	2.84 (0.14)
SunSmart App	3.04 (0.15)	2.73 (0.16)	2.89 (0.16)
UVR monitor	3.06 (0.16)	2.81 (0.18)	2.69 (0.16)
Wear Sunglasses	0.00 (0.10)	2.02 (0.20)	2100 (0120)
Control	2.34 (0.13)	2.24 (0.14)	2.67 (0.12)
SunSmart App	2.18 (0.17)	2.13 (0.18)	2.48 (0.15)
UVR monitor	2.11 (0.19)	2.34 (0.18)	2.29 (0.19)
Stay in the shade	2.11 (0.10)	2.01 (0.10)	2.20 (0.10)
Control	2.80 (0.10)	2.92 (0.10)	2.97 (0.10)
SunSmart App	2.87 (0.13)	2.86 (0.12)	3.04 (0.11)
UVR monitor	2.71 (0.11)	2.86 (0.13)	3.04 (0.12)
Use sunscreen	(0)	2.00 (0.20)	0.0 . (0.22)
Control	2.12 (0.12)	1.88 (0.11)	2.01 (0.10)
SunSmart App	2.01 (0.15)	2.18 (0.15)	2.22 (0.15)
UVR monitor	2.03 (0.16)	2.20 (0.18)	2.26 (0.17)
Limit your time in the sun	()	(**)	
during midday hours			
Control	2.67 (0.14)	2.83 (0.14)	2.77 (0.13)
SunSmart App	2.83 (0.15)	2.84 (0.15)	2.99 (0.14)
UVR monitor	2.72 (0.14)	2.86 (0.17)	2.98 (0.14)
Wear a hat	,	,	,
Control	1.61 (0.11)	1.32 (0.10)	1.66 (0.11)
SunSmart App	1.83 (0.15)	1.71 (0.14)	2.06 (0.15)
UVR monitor	1.52 (0.15)	1.48 (0.13)	1.73 (0.15)
SPH Index (above items	,	,	,
combined) `			
Control	2.42 (0.08)	2.35 (0.07)	2.48 (0.07)
SunSmart App	2.47 (0.07)	2.41 (0.08)	2.61 (0.07)
UVR monitor	2.36 (0.08)	2.42 (0.09)	2.49 (0.08)

Scale: 1=never/rarely 2=sometimes 3=often 4=always amean= Estimated Marginal Means from GEE model

Table S2 Proportion of participants who improved their use of sunscreen

Timepoint	Yesª % (n)	No % (n)	OR	(95% CI)	p-value
During Intervention ^b	70 (11)	70 (11)			
Sunscreen Use over weekday and weel	kend				
Control	19.4 (7)	80.6 (29)	1.00		ref
SunSmart App	30.6 (11)	69.4 (25)	1.491	(0.482, 4.608)	0.488
UVR monitor	13.2 (5)	86.8 (33)	0.637	(0.181, 2.238)	0.482
Sunscreen Use Weekday	. ,	` ,		,	
Control	19.4 (7)	80.6 (29)	1.00		ref
SunSmart App	33.3 (12)	66.7 (24)	1.900	(0.635, 5.684)	0.251
UVR monitor	26.3 (10)	73.7 (28)	1.480	(0.494, 4.434)	0.484
Sunscreen Use Weekend	,	` ,		,	
Control	27.8 (10)	72.2 (26)	1.00		ref
SunSmart App	36.1 (13)	63.9 (23)	1.206	(0.427, 3.408)	0.724
UVR monitor	18.4 (̇̀7) ´	81.6 (31)	0.593	(0.190, 1.850)	0.368
1 week after the intervention ^c	` '	• • • • • • • • • • • • • • • • • • • •			
Sunscreen Use over weekday and weel	kend				
Control	21.6 (8)	78.4 (29)	1.00		ref
SunSmart App	33.3 (12)	66.7 (24)	1.508	(0.513, 4.435)	0.456
UVR monitor	13.5 (5)	86.5 (32)	0.562	(0.164, 1.930)	0.360
Sunscreen Use Weekday	()	` ,		,	
Control	13.5 (5)	86.5 (32)	1.00		ref
SunSmart App	33.3 (12)	66.7 (24)	2.808	(0.854, 9.238)	0.089
UVR monitor	10.8 (4)	89.2 (33)	0.776	(0.191, 3.152)	0.723
Sunscreen Use Weekend	()	` ,		,	
Control	24.3 (9)	75.7 (28)	1.00		ref
SunSmart App	30.6 (11)	69.4 (25)	1.278	(0.445, 3.673)	0.649
UVR monitor	10.8 (4)	89.2 (33)	0.377	(0.105, 1.357)	0.135
12 weeks after the intervention ^d	. ,	` ,		,	
Sunscreen Use over weekday and weel	kend				
Control	33.3 (12)	66.7 (24)	1.00		ref
SunSmart App	37.1 (13)	62.9 (22)	0.879	(0.310, 2.491)	0.808
UVR monitor	27.8 (10)	72.2 (26)	0.756	(0.268, 2.137)	0.598
Sunscreen Use Weekday	(- /	(-)		` ' '	
Control	30.6 (11)	69.4 (25)	1.00		ref
SunSmart App	34.3 (12)	65.7 (23)	0.839	(0.286, 2.457)	0.749
UVR monitor	16.7 (6)	83.3 (30)	0.407	(0.122, 1.357)	0.144
Sunscreen Use Weekend	- (-)	- (- 7)		,,	
Control	33.3 (12)	66.7 (24)	1.00		ref
SunSmart App	31.4 (11)	68.6 (24)	0.790	(0.282, 2.211)	0.653
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 $[^]a$ Yes = increase in percentage of days sunscreen used compared to baseline b n=110 for the intervention measurement period c n=109 for the 1 week after intervention measurement period

^d n=107 for the 12 weeks after intervention measurement period

Table S3 Proportion of participants who increased their physical activity levels

Timepoint	Yesª	No	OR	(95% CI)	p-value
•	% (n)	% (n)		` ,	•
During Intervention ^b					
Control	36.1 (13)	63.9 (23)	1.00		ref
SunSmart App	30.6 (11)	69.4 (25)	0.771	(0.283, 2.098)	0.611
1 week after the intervention ^c	, ,				
Control	29.7 (11)	70.3 (26)	1.00		ref
SunSmart App	16.7 (6)	83.3 (30)	0.442	(0.140, 1.398)	0.165
12 weeks after the intervention ^d					
Control	41.7 (15)	58.3 (21)	1.00		ref
SunSmart App	28.6 (10)	71.4 (25)	0.555	(0.202, 1.527)	0.255
During Intervention ^b					
Control	36.1 (13)	63.9 (23)	1.00		ref
UVR monitor	23.7 (9)	76.3 (29)	0.547	(0.199, 1.505)	0.243
1 week after the intervention ^c					
Control	29.7 (11)	70.3 (26)	1.00		ref
UVR monitor	37.8 (14)	62.2 (23)	1.439	(0.546, 3.791)	0.462
12 weeks after the intervention ^d	, ,				
Control	41.7 (15)	58.3 (21)	1.00		ref
UVR monitor	38.9 (14)	61.1 (22)	0.891	(0.347, 2.287)	0.810

 $[^]a$ Yes = increased percentage of days any physical activity undertaken compared to baseline b n=110 for the intervention measurement period c n=109 for the 1 week after intervention measurement period d n=107 for the 12 weeks after intervention measurement period

Table S4 Proportion of participants reporting high risk unprotected torso sun exposure

	Yes ^a	No ^b	OR (95% CI) ³	p-
	% (n)	% (n)		value
Baseline		(_
Control	23.1 (9)	76.9 (30)	1.00	ref
SunSmart App	22.5 (9)	77.5 (31)	1.167 (0.398, 3.421)	0.779
End of Intervention				
Control	36.1 (13)	63.9 (23)	1.00	ref
SunSmart App	22.2 (8)	77.8 (28)	1.939 (0.532, 7.064)	0.316
1 week Follow-up				
Control	24.3 (9)	75.7 (28)	1.00	ref
SunSmart App	19.4 (7)	80.6 (29)	1.483 (0.472, 4.659)	0.500
3 month Follow-up	` ,	` ,	,	
Control	27.8 (10)	72.2 (26)	1.00	ref
SunSmart App	31.4 (11)	68.6 (24)	1.070 (0.367, 3.118)	0.901
Baseline		-		
Control	23.1 (9)	76.9 (30)	1.00	ref
UVR monitor	23.1 (9)	76.9 (30)	1.000 (0.349, 2.869)	0.999
End of Intervention				
Control	36.1 (13)	63.9 (23)	1.00	ref
UVR monitor	21.1 (8)	78.9 (30)	2.102 (0.744, 5.935)	0.161
1 week Follow-Up	` ,	` ,	,	
Control	24.3 (9)	75.7 (28)	1.00	ref
UVR monitor	13.5 (S)	86.5 (32)	2.064 (0.617, 6.906)	0.240
3 months Follow-Up	` ,	` ,	, , ,	
Control	27.8 (10)	72.2 (26)	1.00	ref
UVR monitor	16.7 (6)	83.3 (30)	2.019 (0.619, 6.590)	0.244

aYes= average daily minutes of unprotected torso exposure for the measurement period was less than baseline
bNo= average daily minutes of unprotected torso exposure for the measurement

^b No= average daily minutes of unprotected torso exposure for the measurement period was higher than baseline or did not change 5% below baseline score n=118 participants with sun diary data

Table S5 Proportion of participants who recorded a sunburn

	Yes ^d	Noe	OR (95% CI) ^c	p-value
	% (n)	% (n)	,	·
Baseline ^a				
Control	12.8 (5)	87.2 (34)	1.00	ref
SunSmart App	22.5 (9)	77.5 (31)	0.491 (0.145, 1.662)	0.253
End of Intervention ^b				
Control	30.6 (11)	69.4 (25)	1.00	ref
SunSmart App	38.9 (14)	61.1 (22)	0.691 (0.256, 1.869)	0.467
1 week Follow-Up ^a				
Control	16.2 (6)	83.8 (31)	1.00	ref
SunSmart App	22.2 (8)	77.8 (28)	0.643 (0.192, 2.153)	0.474
3 month Follow-up ^a				
Control	16.7 (6)	83.3 (30)	1.00	ref
SunSmart App	28.6 (10)	71.4 (25)	0.495 (0.153, 1.597)	0.239
Baseline ^a				
Control	12.8 (5)	87.2 (34)	1.00	ref
UVR monitor	23.1 (9)	76.9 (30)	0.488 (0.147, 1.624)	0.242
End of Intervention ^b				
Control	30.6 (11)	69.4 (25)	1.00	ref
UVR monitor	42.1 (16)	57.9 (22)	0.602 (0.230, 1.570)	0.299
1 week Follow-Up ^a				
Control	16.2 (6)	83.8 (31)	1.00	ref
UVR monitor	16.2 (6)	83.3 (31)	1.000 (0.290, 3.450)	0.999
3 months Follow-Up ^a				
Control	16.7 (6)	83.3 (30)	1.00	ref
UVR monitor	19.4 (7)	80.6 (29)	0.824 (0.243, 2.797)	0.756

a= Measurement period 2 week duration, b= Measurement period 4 week duration. codds of 1 or more sunburns in the intervention groups compared to the control group.

^dYes= 1 or more sunburns recorded during measurement period.

^e No= sunburn not recorded during measurement period.

n=118 participants with sun diary data.

Table S6 Proportion of participants who recorded intentionally seeking a suntan

	Suntan			
	Yes⁴	No ^e	OR (95% CI)°	p-value
	% (n)	% (n)	,	
Baseline ^a	, ,	, ,		
Control	7.7 (3)	92.3 (36)		ref
SunSmart App	10.0 (4)	90.0 (36)	0.955 (0.193, 4.717)	0.954
Intervention ^b				
Control	19.4 (7)	80.6 (29)		ref
SunSmart App	8.3 (3)	91.7 (33)	2.901 (0.669, 12.577)	0.155
1 week Follow-Up ^a				
Control	10.8 (4)	89.2 (33)		ref
SunSmart App	8.3 (3)	91.7 (33)	1.534 (0.309, 7.622)	0.601
3 month Follow-up ^a				
Control	8.3 (3)	91.7 (33)		ref
SunSmart App	17.1 (6)	82.9 (29)	0.575 (0.127, 2.603)	0.473
Baseline ^a				
Control	7.7 (3)	92.3 (36)		ref
UVR monitor	7.7 (3)	92.3 (36)	1.000 (0.182, 5.507)	0.999
Intervention ^b				
Control	19.4 (7)	80.6 (29)		ref
UVR monitor	21.1 (8)	78.9 (30)	0.876 (0.277, 2.770)	0.822
1 week Follow-Up ^a				
Control	10.8 (4)	89.2 (33)		ref
UVR monitor	5.4 (2)	94.6 (35)	2.142 (0.364, 12.623)	0.400
3 months Follow-Upa				
Control	8.3 (3)	91.7 (33)		ref
UVR monitor	5.6 (2)	94.4 (34)	1.575 (0.238, 10.437)	0.638

^a= Measurement period 2 week duration, ^b= Measurement period 4 week duration.

^codds of 1 or more suntans in the intervention groups compared to the control group.

dYes= seeking a suntan 1 or more times during measurement period. e No= seeking a suntan not recorded during measurement period.

n=118 participants with sun diary data.

	SunSmart App n=35		UV	R Monitor n=36
	%	(n)	%	(n)
Did you find the device helpful to guide your sun protective behaviour?		• •		
Yes	65.7	(23)	63.9	(23)
No	34.3	(12)	36.1	(13)
Did you change or modify your behaviour in response to the output				
from the device?				
Yes	54.3	(19)	47.2	(17)
No	45.7	(16)	52.8	(19)
Would you purchase or download the device after the study?				
Yes	40.0	(14)	19.4	(7)
No	60.0	(21)	80.6	(29)
Would you recommend the device to a friend or family member?				
Yes	65.7	(23)	52.8	(19)
No	34.3	(12)	47.2	(17)
The device was encouraging				
Agree/Strongly Agree	62.9	(22)	47.2	(17)
Unsure	17.1	(6)	16.7	(6)
Disagree/Strongly Disagree	20.0	(7)	36.1	(13)
The device was repeating what I already know		` '		` ,
Agree/Strongly Agree	60.0	(21)	36.1	(13)
Unsure	17.1	(6)	25.0	(9)
Disagree/Strongly Disagree	22.9	(8)	36.1	(13)
Missing	-	-	2.8	(1)

Table S7 Satisfaction with Intervention Devices