Table 2: Acceptability and usability of a mobile application of 108 AMPrEP participants included in a randomized controlled trial on PrEP adherence using an eHealth intervention and assigned to the extended mobile application, Amsterdam, 2016-2018.

	Median (IQR)[a] Likert score[b] Visit 1 (t=0 months)	Median (IQR)[a] Likert score[b] Visit 2 (t=3 months)	Median (IQR)[a] Likert score[b] Visit 3 (t=12 months)	Median (IQR)[a] Likert score[b] Visit 4 (t=24 months)
1. Total standard questionnaires, n(%)	106 (89.8)	110 (93.2)	92 (78.0)	59 (50.0)
How often do you open the app?, n(%)				
Never	2 (1.9)	1 (0.9)	8 (8.7)	12 (20.3)
<1 per month	5 (4.7)	3 (2.7)	3 (3.3)	9 (15.3)
1-5 per month	8 (7.6)	13 (11.8)	13 (14.1)	11 (18.6)
1-5 per week	25 (23.6)	33 (30.0)	27 (29.4)	10 (17.0)
5-7 per week	50 (47.2)	49 (44.6)	35 (38.0)	16 (27.1)
>1 per day	16 (15.1)	11 (10.0)	6 (6.5)	1 (1.7)
Is the app useful?[c]	6 (4-7)	5 (4-7)	5 (4-6)	5 (3-6)
Is the app pleasant?[d]	6 (4-7)	6 (5-7)	5 (4-6)	5 (3-6)
Is the app difficult?[e]	6 (6-7)	6 (5-7)	6 (5-7)	6 (4-7)
Is it difficult to fill out the app daily?	5.5 (4-7)	5 (3-6)	5 (3-6)	4 (2-6)
Is filling out the app daily pleasant?	5 (4-6)	5 (4-7)	5 (4-6)	4 (3-6)
How often do you look at the calendar?				

Table 2 - acceptability long app users_v3   1

Never	10 (9.4)	7 (6.4)	13 (14.1)	18 (30.5)
<1 per month	11 (10.4)	14 (12.7)	22 (23.9)	16 (27.1)
1-5 per month	40 (37.7)	46 (41.8)	34 (37.0)	15 (25.4)
1-5 per week	26 (24.5)	31 (28.2)	16 (17.4)	6 (10.2)
5-7 per week	13 (12.3)	11 (10.0)	7 (7.6)	4 (6.8)
>1 per day	6 (5.7)	1 (0.9)	0 (0.0)	0 (0.0)
Is the calendar useful for tracking your PrEP use?	6 (5-7)	6 (4-7)	5 (3.5-6)	5 (2-6)
Is the calendar clear?	6 (5-7)	6 (5-7)	6 (4-7)	6 (4-7)
Is the calendar pleasant?	6 (4-7)	6 (5-7)	6 (4-7)	6 (3-7)
Is the calendar useful for tracking your sexual activities?	6 (4-7)	5 (4-7)	5 (4-6)	5 (3-6)
Is the calendar clear for tracking your sexual activities?	5 (4-7)	5 (4-7)	5 (3-6)	5 (4-6)
Is the calendar pleasant for tracking your sexual activities?	5 (4-7)	5 (4-7)	5 (4-6)	5 (4-6)
Did you setup a notification?				
No	40 (37.7)	39 (35.5)	39 (42.4)	35 (59.3)
Yes	66 (62.3)	71 (64.6)	53 (57.6)	24 (40.7)
Does the app remind you to take your PrEP?[f]	5 (2-7)	5 (2-6)	4 (2-6)	3 (1-6)
Do the notifications remind you to take your PrEP?	4 (1-7)	3 (1-6)	4 (1-6)	2 (1-5)
Does the calendar remind you to take you PrEP?	3 (1-5)	4 (1-5)	3 (1-5)	2 (1-4)

Table 2 - acceptability long app users_v3

2

Do you read the general messages?					
	No	19 (17.9)	7 (6.4)	10 (10.9)	11 (18.6)
	Sometimes	41 (38.7)	39 (35.5)	34 (37.0)	19 (32.2)
	Yes	46 (43.4)	64 (58.2)	48 (52.2)	29 (49.2)
If yes, do you read the message on the day you received it?[g]					
	Rarely	4 (8.7)	1 (1.6)	3 (6.3)	1 (3.5)
	Sometimes	7 (15.2)	13 (20.3)	9 (18.8)	4 (13.8)
	Usually	17 (37.0)	22 (34.4)	14 (29.2)	11 (37.9)
	Always	18 (39.1)	28 (43.8)	22 (45.8)	13 (44.8)
Median app score, (IQR)[h]		7 (6-8)	8 (7-8)	8 (6-8)	7 (6-8)
2. Total extended questionnaires, n(%)		NA	108 (91.5)	92 (78.0)	58 (49.2)
How often do you look at the trends					
	Never	NA	22 (20.4)	21 (22.8)	21 (36.2)
	<1 per month	NA	27 (25.0)	37 (40.2)	26 (44.8)
	1-5 per month	NA	36 (33.3)	25 (27.2)	10 (17.2)
	1-5 per week	NA	18 (16.7)	8 (8.7)	0 (0)

Table 2 - acceptability long app users_v3   3

		NA		
	5-7 per week	NA	4 (3.7)	1 (1.1)	1 (1.7)
	>1 per day	NA	1 (0.9)	0 (0.0)	0 (0.0)
How often do you look at the graph?				
	Never	NA	32 (29.6)	28 (30.4)	23 (39.7)
	<1 per month	NA	24 (22.2)	32 (34.8)	21 (36.2)
	1-5 per month	NA	33 (30.6)	22 (23.9)	12 (20.7)
	1-5 per week	NA	15 (13.9)	10 (10.9)	2 (3.5)
	5-7 per week	NA	4 (3.7)	0 (0.0)	0 (0.0)
	>1 per day	NA	0 (0.0)	0 (0.0)	0 (0.0)
Do you read your personal messages?				
	No	NA	15 (13.9)	10 (10.9)	11 (19.0)
	Sometimes	NA	28 (25.9)	22 (23.9)	16 (27.6)
	Yes	NA	65 (60.2)	60 (65.2)	31 (53.5)
If yes, do you read the message on the day you received it?[i]				
	Rarely	NA	1 (1.5)	2 (3.3)	0 (0.0)
	Sometimes	NA	11 (16.9)	16 (26.7)	4 (12.9)
	Usually	NA	24 (36.9)	19 (31.7)	12 (38.7)
	Always	NA	29 (44.6)	23 (38.3)	15 (48.4)

Table 2 - acceptability long app users_v3

How often do you write in the free text field?				
	Never	NA	65 (60.2)	57 (62.0)	40 (69.0)
	<1 per month	NA	24 (22.2)	18 (19.6)	9 (15.5)
	1-5 per month	NA	9 (8.3)	10 (10.9)	7 (12.1)
	1-5 per week	NA	9 (8.3)	5 (5.4)	1 (1.7)
	5-7 per week	NA	1 (0.9)	2 (2.2)	1 (1.7)
	>1 per day	NA	0 (0.0)	0 (0.0)	0 (0.0)
Do you think the personal messages are useful?		NA	5 (4-5.5)	4 (2-6)	4 (2-5)
Do you think the personal messages are pleasant?		NA	4 (4-6)	4 (4-6)	4 (2-5)
Do you think the personal messages are clear?		NA	5 (4-6)	5 (4-6.5)	5 (4-6)
Do you think the trends are useful?		NA	4 (4-6)	4 (2-6)	4 (2-5)
Do you think the trends are pleasant?		NA	4 (4-6)	4.5 (4-6)	4 (3-5)
Do you think the trends are clear?		NA	5 (4-6)	5 (4-6)	4 (3-6)
Do you think the graphs are useful?		NA	5 (4-6)	4 (3-6)	4 (3-6)
Do you think the graphs are pleasant?		NA	5 (4-6)	4.5 (4-6)	4 (3-6)
Do you think the graphs are clear?		NA	5 (4-6)	5 (4-6)	4 (4-6)
Do you think the free text field is useful?		NA	4 (3-5)	4 (2-5)	4 (2-5)
Do you think the free text field is pleasant?		NA	4 (4-5.5)	4 (3-5)	4 (3-5)

Table 2 - acceptability long app users_v3

Do you think the free text field is clear?	NA	4 (4-6)	4 (3-6)	4 (3-6)
Did the personal messages help remind you to take your PrEP every day?	NA	1 (1-4)	2 (1-4)	1 (1-4)
Did the trends help remind you to take your PrEP every day?	NA	1 (1-3)	2 (1-4)	1 (1-3)
Did the graphs help remind you to take your PrEP every day?	NA	1 (1-4)	2 (1-4)	1 (1-3)
Did the free text field help remind you to take your PrEP every day?	NA	1 (1-3)	1 (1-3)	1 (1-2)

Abbreviations: IQR, interquartile range; NA, not applicable; PrEP, pre-exposure prophylaxis

    a. Unless otherwise indicated
    b. 7-point Likert scale, where 1 is the most negative and 7 is the most positive
    c. 1= not useful, 7=useful
    d. 1=unpleasant, 7=pleasant
    e. 1= very difficult, 7=very easy
    f. 1= not at all, 7= very much
    g. Among the participants who indicated that they read the general messages
    h. Median app score on a 1-10 scale (not a Likert scale), where 1= very bad, and 10=very good
    i. Among the participants who indicated that they read the personal messages

Table 2 - acceptability long app users_v3   6