Themes and Subthemes	Illustrative Quotes
alth Belief Model	
Perceived benefits	"I didn't lose weight but it showed in my blood tests; the
	results of my blood tests. So, I did show some improvement
	with the increasing of the exercise."
Impact on nonphysical	"Well me, I like to monitor, okay. So, I like the part the sleep
activity health behaviors	cause that's one of my things that I'm working on with my
(mood, sleep, nutrition,	health coach too. I'm still struggling with that.[] But with
etc)	this I able to see exactly what type of sleeping I'm having."
	"The one, 'Did you know exercise can elevate your mood and
	decrease your risk for depression?' I just think that's a good
	one because it does elevate your mood, for me anyway. Rathe
	than just you know sitting at my desk if I move and go outside
	I'm an outdoors person anyway, it does elevate my mood.
	Even just ten minutes."
	(Speaking about daily self-assessment) "Checking it every da
	and helping to like see where I'm at. Whether I was happy,
	sad, or whatever because some days I had pain issues and you
	know, I wasn't happy because I was dealing with pain. And
	you know just to help me keep track."
Goal setting	"The thing is they'll tell you to go 15 minutes one way then
	come back that's 30 minutes. If you walk somewhere 15
	minutes, turn around, and walk back 15 minutes. Thirty
	minutes a day and then I think you do that for about a week,
	maybe two weeks when you first start out. Then, you progress
	maybe add 15 more minutes to it or maybe you might do it a
	month. So, that's what I mean little by little. You don't want t
	go out there and try to hurt yourself."
	"I'm out there walking and I say, 'Oh, I can walk a little bit
	more. I'll make my 10,000 steps.' It tells you your steps and

**Multimedia Appendix 5**. Focus group themes, subthemes, and quotes.

	your heart rate and everything and when you're walking. So, I
	like that that it'll motivate me because I set my goal and most
	times I met my goal or went over the goal. But I went in there
	and set the goal that I want to do today or what I thought was
	manageable for me. [] 'I'm going to get my 6,000 steps that
	I said imma do today.' And then I go on the treadmill, do mine,
	and I come back and I'm like, 'I got it!' and then I just I'm
	happy, but I could do more. But I set my goal."
Education or new	"Like the proper shoes to wear. I was like shocked when I see
information	that in there. I was like, 'Okay what's wrong with my tennies?'
	That's why I said, 'Let me switch up shoes.' But, yeah that
	was really they tell you what type you should wear. You know
	so you won't really hurt yourself. Even when they did the one
	for stretching. The different stretches the one I had because
	they had one where you stand up and stretch against the wall. I
	was like, 'Oh! Okay!' Yeah."
	"I realized I don't sleep the entire night and I got less than four
	hours sometimes because you know I'm turning the television
	off and the house too quiet. So, I turn it back on and I start
	watching it but I try I sleep with blinders on. So, that I can
	still hear the television. But I go into that deep sleep early in
	the morning so I was you know I like that because I could see
	my pattern for the past three weeks and stuff. I like really like
	that. And the water. It forced me to drink more water but start
	earlier and cut it off around six. Cause you see that was a lot of
	getting up during the night. Drinking water too late so that all
Safety of global	helped." "I sort of agree with you but anybody that have a smart phone
positioning systems	or any kind of you know (P: Yeah, you're being tracked all
tracking	over.) somebody is tracking you. And if I'm abducted I want
	somebody to I'm just saying I think I've gotten used to it
	and I don't really care unless you have a stalker or something
1	

	but everybody with a cell phone they can find you So, I
	don't see that as a bigger barrier for people."
<b>Perceived Barriers</b>	"Some of our seniors have flip phones and I was one. I love
	my flip phone. So, you can't do this with a flip phone. So, it
	just depends upon what type of communication tools they
	have."
Difficulty of use (ie, la	ck "The food intake. I put in one thing and then I said, 'Oh wow,
of automation)	this is just, I don't know how much this is.' I know, I know
	how to measure like <sup>1</sup> / <sub>4</sub> cup of rice, brown rice or something
	like that because I've gone to a nutritionist in the past, but I
	looked at that and I said, 'This is a little too much.' I put I
	think I put in one chipotle black bean burger and that was it."
	"I wish, I wish it was automatic. So, when you drank the wate
	it counted it."
	"I used that a couple of days and then I kind of got off track
	and I said, 'I can't put everything down.' I felt kind of guilty
	too about some of the stuff I was eating."
Ambiguity over goals of	of "I thought I couldn't distinguish between cheerful and happy.
daily self-assessment	kept saying, 'Is this the same question? Are they asking me the
	same question twice?' So, yeah I couldn't really distinguish
	the two and the smiley facesI kept thinking, 'The questions
	are really similar. I don't know howIs that first question
	different from the second question?' They just seemed like the
	same question to me for some reason
	"'Was I supposed to be stressed?' 'Was I supposed to be
	nervous some point in time?' And I'm like oh it ain't apply to
	me. So, I'm like, 'Well, what to put? You know, how should I
	rate it?' When it's like, 'Well, that didn't even apply to me
	today.' You know, I didn't have a bad day. I didn't have a
	stressful day, I wasn't nervous about anything."

	"How to get the nervous part in. You know I was starting to
	feel like is this supposed to happen throughout the day? Or
	some point in time throughout the day? Was that supposed to
	happen to me?"
Accuracy of physical	"The only thing I didn't like was that I'm in the water and I'm
activity tracking or	doing intensive activity, but it's not really recording what I'm
ambiguity over physical	doing. But I could walk and I'm doing less intensive and I get
activity goals	more steps walking then I do vigorous activity. So, it appears
	as though I'm not reaching a goal and actually I'm exercising
	more intensely in the water than I did on land."
	"I want to see results so to me the intensity is greater than the
	steps. So, it didn't matter, it doesn't record my intensity even
	though I could run out there and walkI jumped in the house
	and I did the rest of the steps."
	"See you do 10,000 steps a day, but then it says, if you read
	more it says if you do so many hours or 2.5 hours of pro
	physical activity a week. Right? So, they're saying that 10,000
	steps a day which about 150 minutes or 2.5 hours of physical
	activity. So, if you do 2.5 activity like walking a week, so you
Technology literacy	<ul><li>don't have to do the 10,000 steps a day?"</li><li>(Discussing the manual logging of food.) "At least if they gave</li></ul>
Technology interacy	
	us clear instructions how we go in and do it. You know like
	'Step one. Push the man's face. Okay, step two. You know, do
	this. You didn't write the list of foods. Type this.' You know
	what I'm saying. I had it, but you know I was just picking and
	putting and push and wishing. So, that's how I did it."
	"Okay, so like for you, you said you weren't used to the
	technology and all of that, so education has to be a part in that
	how to use stuff. Having somebody to help them along for the

	beginning until they get used to it. So, depending on the age,
	the simplicity of it, where it's not too cumbersome, you know
	would help. So, it depends on the age group."
	"I wasn't charging it correctly it has to be upside down or
	something but anyway I saw that the Bluetooth was on so I
	turned it off. I think there should be some instructions
	because I'm not all that tech savvy. But the two work together
	you know wireless and so, I went to read my instructions and I
	said, 'Oh, the Bluetooth got to be on' and I still couldn'tThe
	Fitbit was on the charger for maybe two hours. I went out
	came back, so I asked my daughter to look at it and she looked
	and read it and she said, 'Ma, I think it's upsideyou got to
	turn it around.' As soon as she did that the battery came up."
Community or historical	"And I think one of them it should maybe come up with a
distrust of research	cyber technology maybe trust because you know I've said a
	couple of times jokingly, 'HmmI think NIH is tracking my
	steps.' And everyone says, 'Whose tracking you? What's going
	on? You're being tracked?' because I did a study earlier this
	year and they were going to people giving them a complete
	physical examAnd they did not want to go So, I kept
	saying, 'You're getting a little money, you're getting a free
	examination. Way more exams than you were going to get
	from your doctor's office.' But they, 'Uh uh, I don't trust that,
	that's the government. I'm not sure if they taking my blood,
	what do they want to know' But even having a FitBit that is
	not as invasive as those exams are it still could be some trust
	issues, 'What are they tracking?' I was in Atlanta and you
	called me to say 'You're Bluetooth isn't on,' that's a red-flag
	like how could you know what's going on with my Bluetooth
	and I'm 700 miles away from here. So, trust could be the issue
	with certain people."

	"I think it depends on how you present it and who you present
	it through because when I was here the first time, I don't
	remember the lady's name, but she seemed like the, I don't
	want to call her like that, leader for lack of a better word. She
	was the guide and was probably instrumental in bringing a lot
	of other women to the study It depends if you go to that
	person in the community, it could be the person in the church,
	it could be the person whose leading the groups to exercise. If
	you go to those individuals and have them present it to the
	community it might be better well taken."
	"I don't think it's just how it's presented but also who presents
	it, I think that that's really important. And piggybacking on the
	trust issue it's going to be really important that that trust factor
	is there for them to receive what's being said. So, I think all of
	that would come into play in terms of trying to encourage
	persons to become involved in something like that. So, its trust
	issue, how it's presented, who presents it, and maybe where
	it's presented."
Safety as a barrier to	"Cause a lot of people don't like walking by theyself. Like me,
physical activity	I exercise by myself sometimes and it doesn't bother me but
	people be telling me sometimes, 'You shouldn't be out here
	this early in the morning.' But the gym that's right close to me,
	they don't open until ten o'clock in the morning."
	"Like walking, you don't like to walk alone because it's not
Incufficient data plan or	safe nowadays." "I think to make people aware that if you have limited data
Insufficient data plan or	
memory	this is a possibility. So, I wasn't aware of that in the beginning,
	I mean it didn't matter to me but if I had known that and I had
	a limited plan then."
	[In response to " any concerns about data plans do you think

	would come up with members of the community? Like taking
	too much data on their phone plans?"] "They probably would
	be."
Perceived Susceptibility	"Within our African-American community I think it is very
	important because statistics show, you know what they show,
	that you know we are a heavier population."
	"Piggybacking on what somebody said about the photos and
	African-American women because we're like last in
	everything [health outcomes] because we don't do what we
	supposed to do, some of us."
Cues to action	"The alarms and the reminders those were really
	helpfulCause I would I realize I would sit there for three and
	four hours at a time, just doing work and not moving. So,
Push notification	those reminders were very helpful. I liked that."
	"So, educating persons about the benefits of exercising and
messaging	letting them know you know just like some of the messages
	say, 'You don't have to go to the gym. You don't have to do
	two hours a day, you could break it up you know ten minutes.'
	I mean getting that type of messaging out I think would be
	really helpful because I think if you didn't grow up with it the
	we got to educate them and like some of the messages says,
	'It's never too late.' So, getting the message out to whatever
	the age population is I think is, would be a critical piece."
	"The one that says that, 'Loving yourself means that you're
	willing to take care of yourself. Keep that in mind your body i
	the only place, your body is your temple.' And you know so
	those things are important and I know working with wellness
	centers and different things, they would be into this. That
	Vibrent app would be very good for them."
	"I would agree with that too because a lot of [the messages]

ng t t a and
t a
and
and
and
that,
ere
y
n do
n't
ome
ing
nd
lry,
You
and
t in
ıght

		stronger.' I was like, 'Yeah, yeah I can do that! Ten minutes,
		yeah!' You know when the numbers is low it's like, 'Oh yeah,
		I can do that. I can do that.'"
Emerg	ent themes	
Teo	chnical difficulties	"I think my biggest thing is to make sure people can access the
		module. Because if people can't access it, you're talking about
		all this, I never could get into 'em. So, I don't know how
		helpful, it wasn't really helpful to me because I couldn't
		access it."
		"And some days I didn't get [the daily self-assessment]. It
		didn't come up and then I'd have to do four for the days that I
		missed. Four would come up! It'd skip weeks, a week, and
		then I'd get four."
		"Same thing, after I watched the modules it shut down. I didn't
		log myself out, I kept the whole thing openThen I finally
		found the password, you know, the email and the password in
		the folder and I kept using that over and over again, but it
		wouldn't let me [log in]."
	Check-ins or IT support	"I may not callcause I don't think I ever called, but making
		sure that I know how to do it and I can do it or check in with
		me. Send me a text, 'How's it going? Are you having any
Ge	nerational differences	issues?'" "But I do know that those of us who grew up with Physical
	incrutional anterences	Education in D.C. public schools, we're used to sort of even
		though it was back then, they don't do that now. So, they don't
		have even a jump start or somewhere to start from. So, it could
		make sense. Cause it was mandatory for those of us who grew
		up in the city, you had to. If you're not getting that from a
		younger age, you know, I don't know. I see the young men on
		the basketball courts and stuff but I rarely seeLike me for
		example those of us who rode bikes as a kid, I don't see young
		girls, I'm talking teenagers riding bikes. I rode my bike up

		until I started to drive. So, it's a population of young women
		right now that I see walking around that have no physical
		activity."
		"I'm not going to say they're too busy, I think it's something
		that if you didn't grow up active, you not going to carry that
		over to adulthood."
		"You know we do like to dance. So, that that's how, you know,
		a lot of us that still hand dance, or line dance, or whatever, I
		think something like that rather than, you know, just exercise
		might Because they the young people do like music. So,
		something I don't know how you would do it but incorporate
		that into for younger people."
Rela	ationship with	
com	munity	
	Connection to fellow	"Also, the group itself has been encouraging, so I know that
	participants	after today we won't have the [group] so are we going to like
		meet once or twice a year or something to catch up, or is that
		something you all might want to do you know?"
		"I also think that, you were talking about you're competitive
		I'm like, can we get a group going where we can you know
		compete against one another even after today? If I'm in a
		group but you know you can start several others. So, if we
		could get a group going for those who want to compete with
		one another it would helpIt's not mandatory. It's for those
		who'd like to. It will definitely you know keep you motivated.
		(P: That sounds like a lot of fun.) And it's a lot of fun (P: It is,
		it is.) and it's a lot of fun to get those little messages like,
		'Mmhmm okay, [name redacted] is only a 100 steps ahead of
		you.' And I'm like, 'Okay, well get up and walk.' So, it's a lot
		of it's a lot of fun, and I think when activities that you engage

	in, I think when they're fun as well, I think you're more
	inclined to stick with it and regardless of how much activity
	you engage in, it's a benefit."
Connection to the	"Making sure that I can do it, before I go home because when
research team	I go homeI may not callcause I don't think I ever called,
	but making sure that I know how to do it and I can do it or
	check in with me. Send me a text, 'How's it going? Are you
	having any issues?""
	"Good thing about it was if we needed y'all, y'all [were]
	available [to help during the study period]."
	"I really would recommend a follow up. Because sometimes
	we start this, it's only three weeks and that's a short study you
	know but then how are these same people doing maybe six
	months down the road? You know as a follow up study so that
	then you can report back well what didn't work, was it a good
	introduction to have, how many are keeping up with it?"
Social support	"Well, you know I said senior citizens because most of us we
	might go to a center and if we all have FitBits on it'll open up
	a conversation. (P: Mmhmm/P: It does) We'll start to do
	things."
	"I know that when I started exercising I met [name redacted]
	and if I didn't show up for a few days [name redacted] was
	going to call me and say, 'Well, what's up with you? Are you
	okay?' So, it's sort of a checkingYeah, accountability
	partner."
	[Speaking about the content of the messages] "Because it
	made me feel as a part of the community of women that are
	trying to improve our health."
Preferred features	"I like it when they have this little red thing right here where

they jump up. Because it makes you move. [] You got to
move! You got what, 130 more steps to make your 250.
[Speaking about the hourly Fitbit reminders to take 250 steps]
"I liked when it captured how much sleep you had. (P: We are
on the same page.) I was like, 'Oh my God I only slept three
hours.' So, and I said, 'The next day get in the bed a little bit
early.' Because I'm wanting to do stuff around the house until
I would drop dead tired and then want to get in the bed. So, it's
like 'Okay no stop at a certain time and then get in the bed so
you could get some more sleep.' So I really liked that part."
"Well, I did like the video also. And also, with mines I could
go back to it anytime I wanted to review it. [] I could just go
back to it and watch it if I wanted encouragement or
something like that."
[Speaking about the wall of messages] "That's [the wall]
helpful because sometimes you need to see these things over
and over you know repetition helps you keep things in your
head. It'll motivate you."