APPENDICES

Appendix 1. Informed Consent Form

CONSENT FORM TO PARTICIPATE IN A RESEARCH STUDY

Study Title:

At-home Breast Oncology care Delivered with E-health solutions - The ABODE Study

Investigator/Study Doctor:

Dr. Tulin Cil

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<u>Please note</u> that the security of e-mail messages is not guaranteed. Messages may be forged, forwarded, kept indefinitely, or seen by others using the internet. Do not use e-mail to discuss information you think is sensitive. Do not use e-mail in an emergency since e-mail may be delayed.

Source of Funding:
This study is funded by the Academic Health Science Centre Alternative Funding Plan (AHSC AFP), Canadian Institutes of Health Research (CIHR) and Princess Margaret Cancer Foundation Donors.

Introduction:
You are being asked to take part in a research study. Please read the information about. You are being asked to take part in a research study. Please read the information about the study presented in this form. The form includes details on study's risks and benefits the study are study as much time as you need to make your decision. You should ask the study doctor or study staff to explain anything that you do not understand and make sure that all of your questions have been answered before signing this consent form. Before you make your

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choose to continue to communicate, the frequency can be determined jointly, according to your preference.

The E-coach can provide emotional support, offer information, and help you to navigate how to find information. They are UHN volunteers and have completed all necessary training required by the organization. In addition, your E-coach is trained through the Healing Beyond the Body group at UHN. This program makes sure that the mental, emotional, social, interpersonal and practical aspects of living with cancer are addressed. The E-coaches for this study have also received special training so that they can offer support via the Breast Cancer Treatment Application.

Y If you are randomized to the control group.

You will be registered on a limited version of the Breast Cancer Treatment Application which will be used only to collect your Fibit data for analysis. You won't have access to the app or its features and you will not download the BCTA on your device. Using your email address, the study team will create an account for you on the BCTA for Fibbit data collection only.

- During the study:

 We will ask you about

 o your knowledge, skills, and confidence in managing your own health.

 o your experiences, well-being, use of health services (for example, how many times you contact your care team),

 o your experience using the app and Filibit

You will be asked to fill out the questionnaires at the beginning of participation, at 6 and 12-months after surgery. We will e-mail you a link to complete these questionnaires. The questionnaires will have questions about:

- Your knowledge, skills, and confidence in managing your own health. The impact your breast cancer diagnosis has you.

- Any feelings of anxiety or depression. The general state of your health.

- The general state of your health.

- Gender identity, sexual orientation, race, spoken languages, disability status.

<u>Use of Health services</u>. The study fearn will collect data on participants' use of health services from the Walt Time Information System (WTIS), National Ambulatory Care Reporting System (NACRS), and Discharge Abstract Database (DAD). These databases contain information on hospital visits for patients nation-wide. We will use your MRN and year of birth to get the data from these databases.

<u>User experience.</u> If you are using the app, we will ask you about your experience in using the app.

<u>Fitbit data.</u> We will collect data from your Fitbit activity tracker, including:
- Heart-rate

- Sleep
 Activity and exercise

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decision, feel free to talk about this study with anyone you wish including your friends, family, and family doctor. Participation in this study is voluntary.

Background/Purpose:
The COVID-19 pandernic has significantly impacted healthcare service delivery, highlighting the need for high quality virtual patient care. We have customized a mobile application for patients with breast cancer to use. This app delivers patient education materials, has an instant chat with the research team, and administers surveys.

The purpose of this study is to understand how use of the app affects patient experiences of care.

You are being asked to take part in this study because you have been diagnosed with breast cancer. Up to 200 participants will participate in this study at UHN.

Study Design:
This is a randomized study. "Randomized" means that participants will be randomly assigned either to take part in an experimental or in a control group. There will be a 1:1 randomization ratio, meaning that for every one person put into the experimental group, there will be another one person put into the control group.

- ✓ The control group will receive standard care.
 ✓ The experimental group will receive standard care and will have access to the

To be in the study, you will need to have access to a mobile phone with ability to use the Breast Cancer Treatment Application (the app) and have access to Internet.

The Breast Cancer Treatment Application (BCTA) is a mobile application developed by a Canadian Company, NexJ Health Inc. ("NexJ").

Study Visits and Procedures:

You will review and you will have to agree to the Filbit Terms of Use in order to be in the study. Then, you will receive a Filbit inspire 2, which you can keep after completion of the study. You will be asked to agree that your Filbit data will be collected within the app.

Yell you are randomized to the experimental group.
You will be asked to download and use the Breast Cancer Treatment Application for 13 months after enrollment and to keep the app on your device (e.g., celliphone) until the end of the study. Before you download and access the app, you will review and you will have to agree to NexU's End User License Agreement in order to be in the study.

While you are using the Breast Cancer Treatment Application, you will be connected with an E-coach; however, continued communication with the E-coach is optional. If you

- Food, weight, and water logs

The study team will collect information from your medical chart. Only information that is needed for the study will be collected. The information collected will include dates of your appointments, information on your diagnosis, treatment, surgery, pathology, and overall health.

We will also conduct interviews. During the interviews, we will ask participants about their experience and feedback about the app. Please indicate at the end of this consent form whether you would like us to contact you about the interview part in the future.

No additional visits are required to participate in this study.

Risks:

There are no foreseeable risks to the participant that may arise from participation in this study. However, you may feel uncomfortable answering some questions. You can skip any questions in the questionnaires and still take part in the study.

Benefits:
There is no personal benefit to participating in this study. In the future, information from this study may help to develop other e-Health apps for use in clinic.

Reminders and Responsibilities:

• Do NOT participate in any other studies with an e-Health app for the duration of the study.

- the study.

 Let us know via the instant chat or email if you would like to stop participating or using the app.

 Wear the Flibit as much as possible throughout the study period. It's okay if you need to take it off sometimes.

Alternatives to Being in the Study:
You can choose not to participate in this study. This will not affect your treatment.

Confidentiality:
Your data will be shared as described in this consent form, and the terms of use of NexJ
and Fitbit. All personal information such as your name, phone number, and medical
record number will be removed from the data and replaced with a number. A list linking
the number with your name will be kept by the study team in a secure place separate
from your file.

Personal Health Information

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If you agree to join this study, the study doctor and the study team will look at your personal health information and collect only the information they need for the study Personal health information is any information that could identify you and includes a name, year of birth.

- year of birth,
 e-mail and/or telephone number and mailing address
 Fitbit User ID #
 new or existing medical records, that includes types, dates and results of medical tests or procedures, as well as complications from surgery if any
 information on which app features you use (frequency, time, function)

For participants who are using the Breast Cancer Treatment Application, the study team will also look at the information stored in the app and collect only the information they need for the study. Chat data will be stored in the app, however, these data will not be monitored, accessed, or analyzed.

Representatives of the University Health Network (UHN) including the UHN Research Ethics Board may come to the hospital to look at the study records and at your persona health information to check that the information collected for the study is correct and to make sure the study is following proper laws and guidelines:

The study doctor will keep any personal health information about you in a secure and confidential location for 15 years.

Your participation in this study will also be recorded in your medical record and the UHN computer system.

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Print Name of Person Obtaining Consent

Research Information in Shared Clinical Records
The UHN shares the patient information stored on its computers with other hospitals
and health care providers in Ontation so they can access the information if it is needed
for your clinical care. The study team can tell you what information about you stored
stored electronically and may be shared coulsade of the UHN. If you have any concerns
share law you questions, pleased contact the UHN Privacy Office at 416-3404800, x8937 (or fly email at https://doi.org/10.1007/j.ncm/

Results from this study are planned to be published in a peer-reviewed scientific journal in manuscript format. No identifying information will be included at any point during data analysis, presentation or publication.

As required by the terms of use of the PAM-13 scale, we will submit the de-identified data set (i.e. data identified by a number only) to Insignia Health at research@insigniaheatth.com Participants cannot be identified by this information. Insignia Health will not alter, share, or publish the data. However, they will compare the data to their wider data set and use this information to continually refine PAM and PAM-

You will be given a signed copy of this consent form. This study has been explained to me and any questions I had have been answered. I know that I may leave the study at any time. I agree to the use of my information as described in this form. I agree to take part in this study. Future Studies In addition, I agree to be contacted by the study team about the future interviews. $\square YES \quad \square NO$ Print Study Participant's Name Signature My signature means that I have explained the study to the participant named above. I have answered all questions.

Signature

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In addition, as required by the terms of use of the and the EORTC questionnaires, we will submit the responses to those questionnaires to the EORTC Quality of Life Group. This will include responses to questions about quality of life and about the quality of the information that was received during treatment.

Voluntary Participation:
Your participation in this study is voluntary. You may decide not to be in this study, or to be in the study now, and then change your mind later. You may leave the study at any time without affecting your care.

We will give you new information that is learned during the study that might affect your decision to stay in the study.

Withdrawal from the Study:
If you decide to leave the study, the information collected before you left the study will still be used in order to help scientific integrity of the study. No new information will be collected without your permission. If you are using the spa and wish to stop using or delete the spa, you may do so and please left the study team know.

<u>Costs and Reimbursement:</u>
There is no cost to this study. The Breast Cancer Treatment Application used in this study is a free app for you. The Fitbit device will be provided to you free of charge.

Rights as a Participant:
By signing this form, you do not give up any of your legal rights against the investigators, sponsor or involved institutions for compensation, nor does this form relieve the investigators, sponsor or involved institutions of their legal and professional responsibilities.

Conflict of Interest:
Researchers have an interest in completing this study. Their interests should not influence your decision to participate in this study.

Questions about the Study:
If you have any questions, concerns or would like to speak to the study team for any reason, please contact:

Emma Reel, Research Coordinator: emma.reel@uhnresearch.ca
Dr. Tulin Cil, Principal Investigator: tulin.cil@uhn.ca

If you have any questions about your rights as a research participant or have concerns about this study, call the Chair of the University Health Network Research Ethics Board (UHH REB) or the Research Ethics office number at 416-881-7849. The REB is a group of people who oversee the ethical conduct of research studies. The UHH REB is not part of the study team. Everything that you discuss will be kept confidential.

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Appendix 2. Other Health App Questionnaire (OHA)

Other Health App (OHA) Questionnaire

In order to understand the impact of the ABODE breast cancer treatment app, we are going to ask you a few questions about any other e-health apps you are using.

Have you used any other healthcare-related apps since starting the study? For example, fitness trackers (other than the Fitbit you were provided), apps that educate about disease/cancer, virtual e-coaching, or other health-focused apps.

Response options: Yes/No/Unsure

2. If ves:

a) Which one(s)? - Free text

b)How often? Daily, weekly, monthly, occasionally

Prompt after they complete the questions:

Thank you! As a reminder, we ask that you do not participate in any other research studies at UHN that use health-care apps. You can contact the ABODE Research Assistant at abodestudy@uhn.ca if you have any questions.

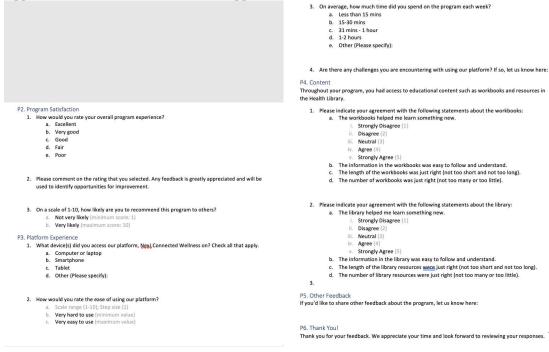
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Appendix 3. 1-10 Days Post-Operative Surveys Post-Operative Questionnaire

	NING QUESTIONS		
1.	Please confirm you've had your breast cancer surgery. (Day 1 only)	{If yes} Did you get a reply?	
□ Yes	for the state of t	□ No	
□ NO {I	if no, close the survey and send alert to RA to verify surgery date}	□Yes	
2.	Please confirm you had a {main surgery type}. (Day 1 only)	□ Prefer not to answer	
□Yes		{If yes} What was the reason for contacting your surgery team?	
□ No {	send alert to RA to verify pathway} ☐ If no, what surgery did you have?	{If no} If you need assistance with contacting your surgery team, send us a message on the chat.	
3.	Please confirm it is {number of days} past your surgery. We're asking because this survey should only be		
□ Yes	filled out on certain days. [Day 1-10]		
□ No (if no, close the survey)			
FOLLO	W UP CARE	PAIN (Day 1 to Day 10)	
		4. On a scale of 1 to 10, what is your pain score today?	
1.	Did you feel you had all your questions answered prior to your discharge home from surgery? (Day 1 AND 10 only)	0- no pain	
□ Yes	(buy 1 AND 10 only)	1	
□ No		2- mild and tolerable	
□ Prefe	er not to answer	3 4-distressing	
	(If no) What questions did you have that were not answered?	5	
		6-intense	
2.	Since your discharge, have you had an unscheduled medical visit related to your surgery? Check all that apply. (Doy 10 only)	7 8-utterly horrible	
	□ No	9	
	☐ Yes, at my family doctor {If yes} What was the date and reason?	10- the worst pain you have ever had	
	□ Yes, at a walk-in clinic {If yes} What was the date and reason?	□ Prefer not to answer	
		4.	
	☐ Yes, at an urgent care centre. (If yes) What was the date and reason?	5. How much does pain interfere with your usual or daily activities?	
	☐ Yes, at the emergency department {If yes} What was the date and reason?	□ Not at all	
	□ Prefer not to answer {If yes} What was the date and reason?	□ A little bit	
	Prefer flot to answer (ii yes) what was the date and reason:	□ Somewhat	
-		□ Very much	
3.	Since your discharge from surgery, have you tried to contact your surgery team outside of your scheduled appointments? (Daily from Day 1-10)	Completely	
□ No	Scheduled appointments.	conductive sections.	
□ Yes		□ Prefer not to answer	
6.	Have you noticed any of the following sensations: pins and needles, an electric shock sensation,	Other (including herbal/non-prescription Free text entry	
	burning sensation, numbness, the lightest touches causing pain (e.g., clothes on your skin), or	drugs)	
	painful itching?		
□ Yes		8. Do you feel that your pain is being well controlled with the medication you used?	
□ No		□ Not at all	
n Profe			
Littere	er not to answer	□ A little bit □ Somewhat	
	er not to answer	□ Somewhat □ Very much	
	(If yes) How much does this kind of pain interfere with your usual or daily activities? (pins and	□ Somewhat □ Very much □ Completely	
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□ Not at all			
□ A little bit	□ increasing		
□ Somewhat	□ decreasing □ stable		
□ Very much	□ Prefer not to answer		
□ Completely □ Prefer not to answer			
THE INCOME	(If yes) Bruising that is increasing in size is not that common and it may be worth checking in with your care team. Send us a message through the chat if you need help getting their contact information.		
INCISION (Day 1.2) It is normal to have some bruising, tenderness, and a small amount of dried blood around the incision site or on the steet strips on your incision. You may also notice a pink/red cologue to your skin. This could be on your chest, arm, neck, back and/or hip. This is the cleaner used during surgery.	①Some soft swelling is normal after surgery for a few weeks. It is normal to have swelling at the breast or chest and up to an egg-sized swelling in the armpit.		
Feel free to take a wet washcloth and gently wash away the discolouration, 13. Do you have concerns about your incision site?	17. Do you have swelling at your surgical site or armpit that is causing discomfort or bothering you? No		
	□ Yes		
□ No	□ Prefer not to answer		
□ Yes □ Prefer not to answer			
a Freier not to answer	CONSTIPATION (Day 4, 6, 8 for AUTOLOGUS Participants only)		
{If yes} What are your concerns?	constitution (buy 4, 0, 0 to Not occount and pains only)		
	18. Since your operation have you been able to look after personal toileting and hygiene unaided?		
INCISION (Day 2-10) It is normal to have some bruising, tenderness, and a small amount of dried blood around the incision site or on the <u>steri</u> strips on your incision.	□ None of the time		
14. Do you have concerns about your incision site?	□ Some of the time		
□ No	□ Usually		
□Yes	□ Most of the time		
□ Prefer not to answer	□ All of the time		
{If yes} What are your concerns?	□ Prefer not to answer		
15. Have you noticed redness around your surgical site(s) that is expanding? (Redness that is not	19. Have you had a bowel movement (pooped) in the past 2 days?		
caused by the antiseptic used in surgery.)	□ Yes		
□ No	□ No		
□ Yes	□ Prefer not to answer		
□ Prefer not to answer	Prefer not to answer		
16. Have you noticed bruising around your surgical site on your breast and/or underarm?	(If no) 20. What is the severity of your constipation at its worst?		
□ No	□ None		
□ Yes	□ Mild		
□ Prefer not to answer			
{If yes} Is the bruising:	□ Moderate		
Severe			
□ Very severe			
□ Prefer not to answer			
ANXIETY (Day 1 to Day 10)			
21. How often do you feel anxiety about your recovery from surgery?			
□ Never □ Rarely			
□ Occasionally			
Frequently			
□ Almost constantly			
□ Prefer not to answer			
OTHER (Day 1 to Day 10)			
22. Are there any other concerns you have today?			
(allow no text entry)			

Appendix 4. Breast Cancer Treatment Application Review Survey



Appendix 5. Surgery Information Survey ABODE Surgery Information Questionnaire Your responses to these questions will help us send you the right information on the app. Do you know your surgery type? * No/ Not sure Please select your surgery type: * Mastectomy Do you know the date of your Breast Surgery? * No/ Not sure Please enter the date of your Breast Surgery. * Oct 5, 2023 ABODE Surgery Information Questionnaire ABODE Surgery Information - 3 of 3 **Lymph Node Surgery Information** Your responses to these questions will help us send you the right information on the app. Are you receiving lymph node surgery? * No/ Not sure What are you receiving for lymph node surgery? Sentinel Lymph Node Biopsy (SLNB)

Appendix 6. Study Screening Form

STUDY SCREENING FORM Study Title: The ABODE Study Principal Investigator; Dr. Tulin Cil Please fill out this form before a potential participant is approached for informed consent. Date of Assessment (dd/mmm/yyyy) MRN First Name Last Name Patient has access to an electronic device with internet connection (e.g., smartphone, tablet, desktop!) Patient has been diagnosed with early stage invasive breast cancer & will have surgery as the first step in treatment? Patient can communicate in English? Patient can communicate in English? Additional Comments

Version: 2.0

Version Date: Nov. 14, 2022

Appendix 7. Recruitment Poster



Appendix 8. Consent to Contact Form

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