



Emphasis: Empowering Pharmacists in Asthma management through Interactive SMS

Pharmacist Guide for Intervention Pharmacies

To receive project assistance

If after reading this guide you have any additional questions, or you require some assistance during the course of the study, please contact:

The Research Coordinator at: 604-827-1567

Email: emphasis.core@ubc.ca FAX: 604-827-4014

Emphasis Study Website: emphasis.core.ubc.ca

Vancouver, 20 January 2015

Table of Contents

2. About the Research Team and Organisation 3 3. About the EmPhAsIS Study 4 4. Study Pharmacies 5 Intervention (EmPhAsIS) Group 5 Usual Care (Control) Group 6 5. Study Participants 7 Inclusion Criteria 7 Exclusion Criteria 7 6. Responsibilities 8 Pharmacist' Responsibilities 8 Participant's Responsibilities 9 Research Personnel Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 13 C) At the End of the Study 16 Tips for Successfully Recruiting Participants 16 7 Targets and Timeline 16 7 Timeline 17 Appendix 18	1.	Introduction	. 3
4. Study Pharmacies 5 Intervention (EmPhAsIS) Group 5 Usual Care (Control) Group 6 5. Study Participants 7 Inclusion Criteria 7 Exclusion Criteria 7 6. Responsibilities 8 Pharmacist' Responsibilities 9 Research Personnel Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Tips for Successfully Recruiting Participants 16 Targets and Timeline 16 Timeline 16 Timeline 17	2.	About the Research Team and Organisation	. 3
Intervention (EmPhAsIS) Group	3.	About the EmPhAsIS Study	4
Usual Care (Control) Group 6 5. Study Participants 7 Inclusion Criteria 7 Exclusion Criteria 7 6. Responsibilities 8 Pharmacist' Responsibilities 8 Participant's Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Tips for Successfully Recruiting Participants 16 Targets and Timeline 16 Targets 16 Timeline 16 Timeline 17	4.	Study Pharmacies	5
5. Study Participants 7 Inclusion Criteria 7 Exclusion Criteria 7 6. Responsibilities 8 Pharmacist' Responsibilities 8 Participant's Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Tips for Successfully Recruiting Participants 16 Targets and Timeline 16 Targets 16 Timeline 16 Timeline 16 Timeline 17		Intervention (EmPhAsIS) Group	5
Inclusion Criteria 7 Exclusion Criteria 7 6. Responsibilities 8 Pharmacist' Responsibilities 8 Participant's Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Tips for Successfully Recruiting Participants 16 Targets and Timeline 16 Targets 16 Timeline 16 Timeline 16 Timeline 16		Usual Care (Control) Group	6
Exclusion Criteria	5.	Study Participants	. 7
6. Responsibilities 8 Pharmacist' Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Research Tips 16 Tips for Successfully Recruiting Participants 16 Targets 16 Timeline 17		Inclusion Criteria	7
Pharmacist' Responsibilities		Exclusion Criteria	7
Participant's Responsibilities 9 Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Research Tips 16 Tips for Successfully Recruiting Participants 16 Targets 16 Targets 16 Timeline 17	6.	Responsibilities	8
Research Personnel Responsibilities 9 7. Step-by-Step Guide to Conducting the EmPhAsIS Study 10 A) At Start of the Study 10 B) During the Study 13 C) At the End of the Study 16 Research Tips 16 Tips for Successfully Recruiting Participants 16 Targets and Timeline 16 Targets 16 Timeline 17		Pharmacist' Responsibilities	8
7. Step-by-Step Guide to Conducting the EmPhAsIS Study		Participant's Responsibilities	9
A) At Start of the Study		Research Personnel Responsibilities	9
B) During the Study	7.	Step-by-Step Guide to Conducting the EmPhAsIS Study	10
C) At the End of the Study		A) At Start of the Study	10
8. Research Tips		B) During the Study	13
Tips for Successfully Recruiting Participants		C) At the End of the Study	16
9. Targets and Timeline 16 Targets 17	8.	Research Tips	16
Targets		Tips for Successfully Recruiting Participants	16
Timeline17	9.	Targets and Timeline	16
		Targets	16
Appendix18		Timeline	17
	Appe	ndix [.]	18

1. Introduction

Congratulations on being one of the pharmacies selected as a partner in the **Empowering Pharmacists** in **Asthma management through Interactive SMS (EmPhAsIS)** study. This pharmacist guide contains the information you need as a partner in helping conduct the study. Please take a moment to review its contents. If you have any questions regarding the **EmPhAsIS** study or our organization, please feel free to contact us at any time.

2. About the Research Team and Organisation

The Collaboration for Outcome Research and Evaluation [CORE] at the Faculty of Pharmaceutical Sciences at UBC is conducting this study. The research is funded by the Canadian Institutes of Health Research (CIHR) and the College of Pharmacists of British Columbia.

Principal Investigator

Mary De Vera, Ph.D.

Faculty of Pharmaceutical Sciences, UBC mdevera@mail.ubc.ca

Co-Investigators:

Mohsen Sadatsafavi, MD, PhD Faculty of Medicine, Medicine, UBC

Larry Lynd, BSP, PhD Faculty of Pharmaceutical Sciences, UBC

Carlo Marra, PharmD, PhD School of Pharmacy Memorial University

Mark FitzGerald, MD, FRCPC Faculty of Medicine, Medicine, UBC

Richard Lester, MD, Faculty of Medicine, UBC

Penelope Brasher, PhD Vancouver Coastal Health Research Institute

Nicole Tsao, BSc Pharm, MSc Pharm., Faculty of Pharmaceutical Sciences, UBC

Parkash Ragsdale, BSc. Pharm. Faculty of Pharmaceutical Sciences, UBC

3. About the EmPhAsIS Study

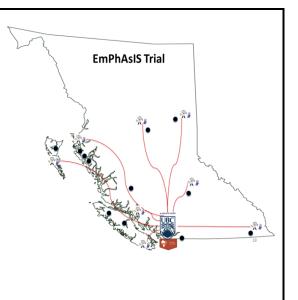
Asthma is a chronic inflammatory disease of the airways, which is characterized by recurrent, but reversible, episodes of shortness of breath, tightness of the chest, coughing, and wheezing. About 3 million Canadians suffer from asthma and it affects individuals of all ages and imposes a significant burden to the patient and the health care system. The cause of asthma is not known, and currently there is no cure. Although there are effective and inexpensive treatments, adherence (continuing taking asthma medication as prescribed) to asthma treatment is amongst the lowest among chronic diseases, causing avoidable adverse medical outcomes, costs, and reduced quality of life.

Pharmacists are ideally suited to impact medication adherence given their training, skills, and frequent contact with patients – up to eight times more than doctors. Given this context, there is great potential for improving the quality of outpatient care in asthma using a model of care that enhances the role of community **pharmacists** while supporting the practice with an accessible communication technology: **text messages**.

Patients across BC are eligible for **EmPhAsIS** study if they are 14 years old or older, have been diagnosed by a doctor as having asthma and who fill a prescription for inhaled corticosteroids (ICS).

The **EmPhAsIS** study is a 1-year pragmatic cluster randomized controlled study of an innovative intervention targeting medication adherence in patients with asthma. There are three pillars to the **EmPhAsIS** intervention:

- Participant education delivered by pharmacists
- Monthly text messages to assess and monitor adherence, centralized and coordinated at UBC
- Follow-up with participants who are non-adherent (or having challenges with medication taking) by pharmacists



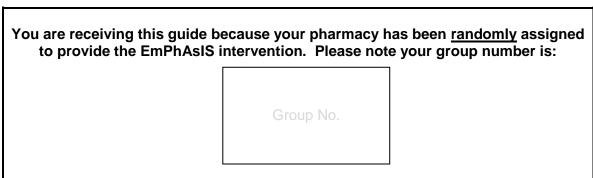
Our **objective** in the **EmPhAsIS** study is to answer the following questions regarding the **EmPhAsIS** intervention:

- Does the EmPhAsIS intervention improve adherence to asthma medications?
- Does the **EmPhAsIS** intervention improve outcomes of asthma patients?
- Is the **EmPhAsIS** intervention cost-effective?

4. Study Pharmacies

As this is a cluster RCT, it is pharmacies that will be randomized to either **EmPhAsIS** intervention group or usual care group. The study team used a random number generator to create randomization blocks of pharmacies for this study. Please note that while pharmacists and participants cannot be blinded to whether or not they are receiving the intervention, members of the research team will be blinded, ensuring the objectivity and rigor of the study.

Intervention (EmPhAsIS) Group



As part of the **EmPhAsIS** intervention group, participants that you will recruit will receive the following:

- Participant education delivered by pharmacists;
- Monthly text messages to assess and monitor adherence, centralized and coordinated at UBC; and
- Follow-up with participants who are non-adherent (or having challenges with medication taking) by **pharmacists**
- PLEASE KEEP YOUR RANDOMISATION STATUS CONFIDENTIAL

a) Participant education delivered by pharmacists:

One component of the **EmPhAsIS** intervention highlights the role of pharmacists as educators in their patients' health. The pharmacist will discuss participants' individual treatments, educate the participant on the chronic, episodic nature of asthma, provide instruction on inhaler technique, and emphasize the importance of continuous controller therapy and medication adherence.

b) Monthly text messages to assess and monitor adherence, centralized and coordinated at UBC

A principal component of the **EmPhAsIS** intervention is <u>monthly</u> text messages by which participants are asked to text their level of agreement with the following statement by keying in the corresponding number:



This statement and corresponding responses represent the first item of the Adult Asthma Adherence QuestionnaireTM (AAAQ). The AAAQ is made up of five statements (questions) and was <u>developed specifically as a screening diagnostic tool for adherence among asthma patients by care providers</u> and as well as for eliciting potential adherence barriers. The first question is a general adherence monitoring question, and questions 2-5 determine specific barriers to adherence among low-adherent individuals (forgetting, no need, adverse effects, and costs).

Pharmacists will not have to send messages themselves and all sending and receiving of text messages will be coordinated and centralized at UBC. If a participant does not respond to a scheduled monthly text assessment (or responds in error), then they will be sent a follow-up text message the following day. If a participant does not respond, then the recruiting pharmacy will be notified by the study team to initiate a pharmacist follow-up telephone call.

c) Follow-up with participants who are non-adherent (or having challenges with medication taking) by pharmacists are explained in section 7.

Usual Care (Control) Group

For your information, the following are the components of the EmPhAsIS usual care that will be provided by pharmacies randomized to this group.

Pharmacies that are assigned to provide usual care, will provide the following to their recruited participants: **a)** participant education delivered by **pharmacists**. It is imperative that the study can distinguish between the impact of the intervention itself than the necessary training that pharmacists and participants receive upon recruitment in the study (regardless of group assignment).

At the end of the 1-year **EmPhAsIS** study, participants in the usual care group will be offered the automated SMS-based monthly assessment of adherence for the next 12 months if they wish to.

5. Study Participants

Inclusion Criteria

Patients presenting at your pharmacy who meet the following criteria are eligible to participate in the **EmPhAsIS** study:

- √ 14 years of age or older
- ✓ provide an affirmative to the question: "have you ever been diagnosed by a doctor as having asthma?"
- √ fill a prescription for an inhaled corticosteroid (incident or prevalent; either as monotherapy or in combination inhaler with long-acting beta-agonists)
- ✓ possess a cell-phone with ability to send/receive text messages
- ✓ reside in BC and planning to reside in BC for the next 12 months
- ✓ registered with the BC Medical Services Plan for the past 12 months and planning to remain registered for the next 12 months
- ✓ currently not participating in another research study related to their asthma
- ✓ does not have communication difficulties such as inability to communicate in English, or significant impairment in vision, hearing, or speech
- ✓ consent to participate in the study

Exclusion Criteria

Inability to speak and write English

6. Responsibilities

Pharmacist' Responsibilities

BEFORE STUDY IS LAUNCHED

- 1. Ensure all pharmacists, pharmacy technicians, and pharmacy students at the pharmacy are informed of the decision to participate.
- 2. Review the contents of the study binder.
- 3. Display the laminated counter card and advertisement poster. A special clinic day might help encourage recruitment.
- 4. Fax the letter of courtesy provided in the study package to family physicians who practice in your community to inform them about our research study.

DURING THE STUDY

- 5. Recruit and discuss the **EmPhAsIS** study with potential participant(s).
- 6. Work <u>directly</u> with the participant to complete the *Pharmacist Screening Form* to determine whether they are eligible
- 7. If eligible, enrol participant into the study according to the Step-By-Step Guide in Section 7.
- 8. Deliver the Emphasis intervention according to the Step-By-Step Guide in Section 8.1 Registering participant to receive study text messages (via the study website, emphasis.core.ubc.ca).
 - 8.2 Providing education about asthma. Because this is a pragmatic (e.g. "real-world" study), we do not want to interfere with the way you care for your patients. We encourage our partner pharmacists to provide the medication education to participants according to your own practice
 - 8.3 Following up with participants who may be non-adherent (as determined from text messages).

AT THE END OF THE STUDY

Print the 12-month medication history for participants you recruited

Patient's Responsibilities

- 1. Provide answers to the pharmacist for the *Pharmacist Screening Intervention Form*.
- 2. Read the Subject Information and Consent Form and if agreed to the conditions mentioned sign the consent form (Two copies).
- 3. Complete the Contact Information Form.
- 4. Fill out the Baseline Demographics form.
- 5. Have a functioning cell phone and check text messages (those assigned to the **EmPhAsIS** intervention group)
- 6. Answer the questionnaires by telephone as per the study protocol (Baseline, 6 and 12months)
- 7. Arrange a follow-up call or visit with pharmacist if required (those assigned to the **EmPhAsIS** intervention group)

Research Personnel Responsibilities

- 1. Provide support throughout the duration of the study (e.g. questions, training, feedback)
- 2. Send the study binder to partner pharmacies
- 3. Ensure monthly automated text is functional
- 4. Conduct follow-up phone calls and questionnaires as per the study protocol (0 [baseline], 6, and 12 months)
- 5. Communicate with pharmacist when appropriate
- 6. Complete all data collection and analysis
- 7. Conduct knowledge translation activities including communicating study findings to partner pharmacies

7. Step-by-Step Guide to Conducting the EmPhAsIS Study

A) At Start of the Study

Step A1: Approaching potential participants

Based on our prior experiences with conducting research studies at community pharmacies, there are several ways that individuals can become informed about a research study:

TIPS:

- Information through study advertisements including posters, shelf-talkers, and bag stuffers
- Information through special clinic days (e.g., an asthma clinic day) held at the pharmacy
- With these information sources, participants mainly identify their interest in the study and then approach you for more information.

Study advertisements provided to the pharmacy

Step A2: Explaining the EmPhAsIS study to potential participants

Study ethics require that the pharmacist is ultimately responsible for the explanation of the study to the participant. The explanation about the **EmPhAsIS** study should be given in the following, standardized way, using the suggested script:

Introduction

"Are you interested in participating in a research study offered through UBC that is investigating medication adherence in asthma and text messaging?"

Pharmacy participation:

"Our pharmacy is a partner in this research, along with other pharmacies throughout BC."

Purpose of the study

"The purpose of the research is to evaluate whether pharmacist education combined with monthly text messages to monitor medication taking will help improve adherence to asthma medications and the care of patients with asthma."

What the study involves

"If you agree, you will be randomly (which is like a flip of a coin so that there is an equal chance of being in either group) assigned to either receive the pharmacist and texting intervention or no intervention. The study team at UBC will then

follow-up with you via telephone questionnaires to see how you are you doing at month 0, 6 months, and 12 months after.

What do participants receive for participating

"You will be provided with an honorarium of \$25 for participating in the study, regardless of whether you receive the pharmacist and texting intervention or no intervention. This is to offset any expenses, for example - sending and receiving texts – that you may incur as part of your participation. If we determine that you are eligible to participate and if you consent to participate, then we will enrol you and send your information to UBC who will provide you with the honorarium."

• Voluntary nature of participation

"Your participation is voluntary and in no way affects any care that you will receive. If you agree to participate but then have a change of heart, then you are free to leave the study at any time without having to provide a reason.

Importance of participants

"Your assistance and participation in this study is greatly appreciated."

After explaining the study with the participant according, one of three scenarios will likely result:

- 1. The participant agrees to complete the *Pharmacist Screening Form*
 - start completing the Pharmacist Screening Form
- 2. The participant declines to complete the *Pharmacist Screening Form*
 - the participant is excluded; this will have to be noted in the study log
- 3. The participant does not speak or read English or is cognitively impaired
 - the participant is excluded; this will have to be noted in the study log

Step A3: Completing the Pharmacist Screening Form

If the participant agrees to go to this step, please ask the participant the questions on the *Pharmacist Screening Form.* It is important that the pharmacist ask all the questions, rather than asking the participant to fill in this form, since an objective observer is needed to determine the participant's eligibility.

From the participant's responses to the screening form, you should be able to determine whether or not the participant is eligible (in both cases, fill in the study log!)

If the participant turns out to be <u>not eligible</u> for this study, file the completed screening form in the study binder provided for this purpose. (Up-date study log) If the participant is indeed <u>eligible</u>, fax the completed *Pharmacist Screening Intervention* form to the researchers and file it in the study binder provided for this purpose. (Up-date study log)

IF ELIGIBLE:

Step A4: Distributing and signing the Subject Information & Consent Form

Ask the participant to carefully read the participant information and consent form. Please be prepared to answer potential questions or refer them to our study team.

If the participant agrees to the conditions mentioned in the participant information, he/she is required to sign two study's consent forms. You should review the consent with the participant.

You can be the person obtaining consent if no other person has done so. Give a <u>signed</u> copy of the dated consent to participant. Keep the other <u>signed copy</u> and file in a secure place.

Step A5: Assigning Study ID # and Informing the participant of their assignment

Assign the next unique Study ID# for the participant and stick the corresponding label on all the documents related to this participant, you may now inform the participant that they have been assigned to the **Intervention Group**.

It is <u>only</u> after the participant has returned the *Consent Form that* you may inform him/her about his/her group assignment. It is <u>also</u> essential that you keep your randomization status confidential.

Step A6: Completing the Contact Information and Demographics Forms

If the participant is eligible for the study, the *Contact Information* and *Demographics* forms should be completed. The *Contact Information* form contains two parts: one for participant information and the other part for pharmacy information. The pharmacist is required to fill in the pharmacy section and should check that the participant has completed the form correctly.

StepA7: Adding the new participant in EmPhAsIS Website

- -Log in the EmPhAsIS Website (emphasis.core.ubc.ca) and add the participant in the system
- -Inform the participant that they will receive the text in a few minutes and that they should reply as appropriate for them.

Step A8: Providing education about asthma

Because this is a pragmatic (e.g. "real-world") study, we do not want to interfere with the way you care for your patients. We encourage our partner pharmacists to provide the medication education to participants according to your own practice.

Step A9: Informing the participant of the next steps

- -Inform the participant that he/she will be contacted by the coordinator within the next 48 hour after being included in the study to complete the study questionnaires.
- -Inform the participant that they will receive the text on every first Monday of the month for the duration of the study (12 months).

Step A10: Give participant package

The participant is given the participant package, containing their copy of the signed consent form, magnet, and Participant Guide.

Step A11: Faxing study materials to the study research team

Please submit the following documents to study researchers by fax:

Fax to: 604-827-4014	Attention to : Dr Mary De Vera
□ Pharmacist	Screening Form
☐ Contact Info	ormation Form
□ Demograph	ic Form
□ <u>Signed</u> pag	e of the Consent Form

B) During the Study

Step B 1: Automated monthly text messages to monitor participants' adherence

The participant will receive monthly text messages to assess their adherence to their asthma medication. The transmission and receipt of text messages will be centralized and automated using the UBC-designed WelTel cell-phone based support and engagement platform and you will not have do anything with respect to texting participant yourself.

Step B2: <u>Pharmacists check-in to review responses to text messages (and adherence status)</u>

Texts will be sent to all participants on the first Monday of each month. The participants' replies will be captured on the Emphasis Website (**emphasis.core.ubc.ca**) and can be viewed under the "check in" tab in WelTel.

Step B3: <u>Telephone follow-up and counselling with participants who may be</u> having adherence problems

We anticipate four possible scenarios and required actions to occur with the monthly texting (the flowchart in Appendix 1 illustrates these scenarios):

• Scenario 1: ["OK] Adherent

The response to the first question of the Adult Asthma Adherence Questionnaire (AAAQ), received through SMS, is positive ("1" which means the participant is following their asthma medication plan). The response will be transmitted to the study team and the pharmacist. The participant will not receive any other text messages until the following month.

Your Follow-up Required: no follow-up required by the pharmacist

• Scenario 2: ["NO RESPONSE"]

A participant does not respond to a scheduled monthly assessment The participant will be sent a follow-up text message the following day, and if still no response, the pharmacist will be notified to contact the participant within the next 48 hours via telephone.

• Your Follow-up Required: The pharmacist will contact the participant via telephone. The pharmacist will also administer 2

questionnaires over the telephone. The first is the AAAQ to determine barriers to adherence. The second is the Asthma Control Test (ACT) to assess whether the participant's asthma is controlled. The purpose of these questionnaires is to help guide you as you provide counselling to the participant.

 If cannot reach the participant please contact the Study Coordinator.

• Scenario 3: ["NOT OK"] Not adherent

The response to the first question of the AAAQ, received through SMS, is anything other than 1. This means that the participant may be having issues with adherence. The participant will be asked the rest of the adherence-barriers questions of the AAAQ (4 questions) via text messaging. If the participant responds to all 4 questions, then WelTel will generate an AAAQ report on barriers to adherence that will be transmitted to the recruiting pharmacy. Then the pharmacist will also be notified to contact the individual within the next 24 hours via telephone.

- Your Follow-up Required: The pharmacist will contact the individual and administer the Asthma Control Test (ACT) to assess whether the participant's asthma is controlled. The pharmacist will then use the AAAQ report with the results of the ACT to help guide counselling to the participant.
- Scenario 4: ["NOT OK"](Not Adherent and did not respond to all text messages)
 The response to first question of the AAAQ, received through SMS, is anything other than 1 ("I agree completely.") but the participant does not respond or partially responds to the following text messages on the adherence-barriers questions of the AAAQ. The pharmacist will also be notified to contact the individual within the next 24 hours via telephone.
 - Your Follow-ups required: The pharmacist will contact the participant via telephone. The pharmacist will administer 2 questionnaires over the telephone. The first is the AAAQ to determine barriers to adherence. The second is the Asthma Control Test (ACT) to assess whether the participant's asthma is controlled. The purpose of these questionnaires is to help guide you as you provide counselling to the participant.

<u>Please Note:</u> By login on the study site, you will find the 2 questionnaires online that you will need to administer over the phone with the participant. Your study package will also contain paper copies of the AAAQ and the ACT for you to use, file the completed paper questionnaires in study binder provided. For your reference, the AAAQ and the ACT are found in the pharmacists' binder.

Scenarios 2, 3, and 4 suggest that a participant may be having problems with following their asthma medication plan. It is important to determine potential reasons for these challenges.

- By login on the study site (emphasis.core.ubc.ca), you will find the 2 questionnaires that you will need to administer over the phone with the participant. (You can also find these questionnaires in your in your study binder.) The questions are brief and are important to help understand challenges the participant may be facing.
 - First, administer the *Adult Asthma Adherence Questionnaire (AAAQ)*. Identify potential barriers to adherence.

AAAQ Question Number	If response is	Potential Barrier
2	1 to 3	Management of medication taking
3	1 to 3	Perceived need for medication
4	1 to 3	Concern about side effects
5	1 to 3	Cost

- Second, administer and score the Asthma Control Test (ACT) to determine whether their asthma is well controlled or not. If total score is 19 or less than asthma is not well controlled. If the participant does not have good asthma control (score of ≤19 on the Asthma Control Test), then initiate a referral to the participant's physician
- ➤ Third, and also important, please also note, based on your professional assessment, whether the participant's non-adherence is intentional or voluntary.
- We encourage you to provide counselling to participants according to your own practice. Regardless of the scenario (2 vs 3 vs 4), based on the individual's responses, the outcome of this phone counselling may be an arrangement for a visit to the pharmacy, or a referral to the participant's physician (the care provider responsible for original prescription of the ICS).
- -You may wish to have participants come to the pharmacy for further in-person counselling, if you deem appropriate. An example scenario where a face-to-face session might help is if a participant indicates that they are having problems with their inhaler technique.
- -After the follow-up please let the participant know that they will continue to receive monthly text messages until the 1 year end of the study.

C) At the End of the Study

Step C1: Printing a Participant's Medication Profile

Once a participant has been followed to the 1 year point of the study, we will notify you. At this point, they will stop receiving text messages.

For this participant, please print a medication profile that lists all of their medications over the past 12 months. Please fax this to the research team.

Step C2: Research Data

We will collect study binders at the end of the study. We will make arrangements with individual pharmacies regarding pick-up (if in the Greater Vancouver area) or mailing. If mailing, all original research data will be picked up via a secure delivery services and directed to:

Dr Mary De Vera
University of British Columbia
Faculty of Pharmaceutical Sciences
2405 Wesbrook Mall, Vancouver, BC, V6T 1Z3

8. Research Tips

Tips for Successfully Recruiting Participants

While it is important to be truthful and thorough in providing your participants with the background information pertaining to this study, an overly technical presentation can cause participants to become overwhelmed or nervous. Below are some tips that may help you approach participants regarding the study.

- <u>Stay calm</u>: If you look or act nervous while discussing the study with them, your participants will most certainly pick up on this and will likely be reluctant to get involved
- <u>Keep it short</u>: Each participant will be provided with an informed consent that contains all of the required information; focus your verbal explanation on the pertinent points.
- <u>Rehearse</u>: It is natural to be a little awkward or nervous the first few times that you use the script. Practice your approach on your co-workers, friends or family prior to the study. This will allow you to become comfortable and confident with the study description.

9. Targets and Timeline

Targets

In order to be able to determine the impact of the **EmPhAsIS** intervention on adherence and participant outcomes, we need to have 370 asthma participants complete the study. That is 185 participants who will receive the **EmPhAsIS** intervention and 185 participants who will receive usual care.

As a pharmacy partner, we are asking for you to recruit and enroll a **minimum of 8** asthma participants.

Timeline

Our anticipated overall timeline for the **EmPhAsIS** study is 3 years according to the following:

Year	Target and Milestones			
1	Complete recruitment and enrollment of asthma participants at partner pharmacies			
2	Complete follow-up of participants (text messages, follow-ups, data collection)			
3	Complete data collection, analysis, and writing of study results			

Please do not hesitate to contact us if you have any questions or concern at:

604-827-1567

We greatly appreciate your interest and support!

Thank you

Follow-up instructions for AAAQ and ACT

(Paper version included in Binder and Online version available on Emphasis Website)

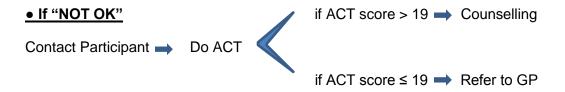
FOLLOW UPs:

Text messages are sent automatically by WelTel on the first Monday of each month to each Participant.

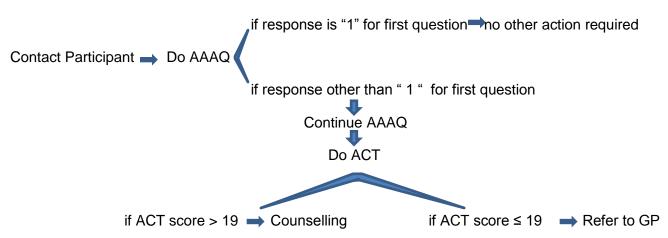
Log in on Emphasis Website under WelTel tab (first week of the month to see if there is any change) verify under "CHECK IN":

• If "OK"

→ No follow-up required



• If "NO RESPONSE" for more than 48 hours OR " NOT OK " (Not adherent and did not respond to all text messages)



In WelTel after completing follow-ups: check the "complete" box in patient profile and the exclamation mark will disappear by the side of the participant's name.