

9.0 APPENDIX A –SIGNED CONSENT FORM

Consent Form:

Consent Form: Seniors Managing Diabetes

I hereby consent to participate in a research study conducted by Jeremy Johnston, Marc de Niverville, Joseph Lee, Jhony Campanha, and Eric Siu for an assignment in University of Toronto Computer Science 318, Design of Interactive Computational Media.

I agree to participate in this study the purpose of which is to learn about the activities and use of technology by elders with diabetes.

I understand that

- The procedures to be used are interviews and observations.
- I will receive no compensation for my participation.
- I am free to withdraw before or any time during the study without the need to give any explanation.
- All materials and results will be kept confidential, and, in particular, that my name and any identifying or identified information will not be associated with the data.

PARTICIPANT

Name (please print) _____

Signature _____

Toronto, Date _____

INVESTIGATOR(s) Name MARC DE NIVERVILLE

Signature _____

10.0 APPENDIX B –PROTOCOL

Research Instruments:

1. Interview Scripts:

INTRO

- introduce yourself
- explain the goals of the interview
- reassure the participant about the ethical issues (especially privacy and anonymization of their data)
- ask for permission to record the interview
- present the informed consent form for their review and approval

WARM-UP

(It's called warm up in order to break the ice and for the situation to get comfortable.

Start a casual conversation about what technologies the person uses and what they do with them.)

- are they users of any types of technology?
(Don't just explore computers and smartphones... they may prefer other types.)
- if so what do they enjoy ?
- with what types would they prefer to extend their knowledge and learn something new?
- if they make a particular choice, why?

MAIN BODY

(This section is likely to raise the sensitive issues, if there are any. We need to be careful and considerate about our probing, but not avoid the issues. We are breaking down this enquiry into a few key parts: first to find out generally what they are supposed to be monitoring and managing; then find out what tools are provided or available to perform the monitoring and managing; then by asking about particular events, we find out innocently about what is actually used. We must be careful about not being judgemental if there is a gap between what they should be doing and what they are actually doing. In fact, we expect there to be a gap, and we need to explore it considerably.)

- what is involved in managing their diabetes ?
(attempt to obtain a full inventory of the management items: i.e. factors to manage)
- what are the tools, or systems, or aids, that are used to manage diabetes ?
- how is this management to be performed (*PROCESS question*) ?
- describe a few recent recording/decision/required management task events
- explore the difficulties or obstacles to taking greater advantage of the available tools and processes

Cool-Off Period

(The preceding questions may have made them a little uncomfortable, so we can give them an opportunity to blow off some steam and even rant a little.)

- what are the emotions that are experienced with the management of diabetes
- are there supports available from family, physician, health care agencies;

do they offer new systems, technology, and the training to use them?
 -is there something that they would like to use instead, an alternate technology?
 -what would they most like to change: about the management requirements, or about the tools, or the processes, or the environment?

Wrap-up/Closure

-thank you
 -signal the end of the interview

* follows the format presented in class
 * uses some suggestions from 'Wood-SemiStructured Interviewing1997ACM'

2. Questionnaire:

Gender:

Male	Female
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Age:

55 -	56-70	71-85	86 +
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Do you feel comfortable using the following devices?

- Computer desktop or laptop Yes/No
- Tablet Yes/No
- Smartphone Yes/No
- Other: _____

How useful do you think technology is to help in the diabetes management?

Extremely useful	Useful enough	Not so useful	Extremely Useless
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Research Protocol:

1. **Project Title:** Seniors Managing Diabetes.

2. **Investigators:** Jeremy Johnston – jeremy.johnston@mail.utoronto.ca, Eric Siu – eric.xue@utoronto.ca, Marc-Alain de Niverville – marc.deniverville@mail.utoronto.ca, Jhony Campanha – j.campanha@mail.utoronto.ca, Joseph Lee - josephy.lee@mail.utoronto.ca.

3. **Purpose:** The purpose of our research is to understand the elderly with diabetes mellitus to help us derive requirements for the design of novel interactive computational media that are intended to be useful to elders with diabetes. A brief description of our design concept is: a health app used to monitor and track daily health.

4. **Process to be followed:** We will brief the participants about the purpose of the study, explain the consent form to them, and ensure that they sign the consent form. We will then engage the participants in a roughly hour long, semi-structured interview. We will also with their permission make observations as follows: taking notes of activities, eating habits, and use of technology.

5. **Participant selection:** Participants will be chosen from elders with diabetes. They will be identified via voluntary assessment and selected according to easy of access. In general, they will be characterized by being above the age of 55 and having diabetes.

6. **Relationships:** Our relationship to the participants may be described as follows: no relationship.

7. **Risk and benefit:** There will be minimal risk to the participants, for example that they feel that they have wasted their time. The only benefit will be to contribute to the education of the investigators. Participants are free to withdraw before or at any time during the study without the need to give any explanation.

8. **Consent details:** We will brief the participants about the purpose of the study, and explain the attached consent form to them, and ensure that they consent to participate and sign the consent form.

9. **Compensation:** Participants will receive no compensation.

10. **Information sought:** The information to be sought is described in the attached interview protocol, observation plans and surveys.

11. **Confidentiality:** Information will be kept confidential by the investigators. Names or other identifying or identified information will not be kept with the data. The only other use will be to include excerpts or copies in the assignment submitted, but names and other identifying or identified information will not be submitted.