







Investigations for women with reproductive problems.

A questionnaire study.

What are patients' preferences for a novel device able to monitor the womb environment?

Introduction

Doctors and researchers at the University of Southampton in collaboration with VivoPlex Medical Ltd are developing and carrying out research into a novel monitoring device that may be offered to women with fertility issues. Whilst this device has not yet been produced, we are interested in your views about this new sensor device, and what features would be important to you. Participating in this would involve you completing the attached questionnaire. Once this questionnaire is complete and handed to a member of staff, you are not required to do anything further. Responses will be anonymous and confidential. Your views would help us to develop and tailor this novel sensor for women planning a pregnancy in the future. It is important to understand this device is not yet available to you.

We would like you to <u>imagine</u> that your doctor has given you the option of using a sensor device in order to find out more about your womb environment. Once the sensor device is inserted into the womb, you would also be asked to wear a garment close to your womb, for a number of days, that holds a small battery pack and information receiver, all supplied to you along with the sensor. The sensor works by measuring three characteristics of your womb environment continuously, and sending that information back to the receiver. Your doctor would discuss the information with you which may allow them to guide you in making decisions about your next treatment steps towards a successful pregnancy.









Patient information about the study

What is the purpose of the study?

This is a questionnaire study to help us understand what women consider the most important features of the device. By completing the following questionnaire you could help us to develop important features of this novel test.

Why have I been chosen and do I need to take part?

As you are attending the outpatient clinic and hoping to have a baby in the future, we would be interested in your opinions about this novel device. We are asking if you would be prepared to complete this questionnaire. You can decide whether or not to take part, and your decision will have no impact on your care.

What will happen to me if I decide to take part?

Completing the attached questionnaire will take around 10 minutes, and once completed you should return it to the 'questionnaire collection box' at reception. There will be no follow up after the questionnaire has been handed in, and your answers will be confidential and anonymous, and accessed only by members of the research team. The questionnaire asks questions around sensitive topics including fertility and conception and if you do not feel comfortable answering them, you can withdraw from the study at any time without your clinical care being affected.

What will happen to the results of the research?

The findings will be presented at scientific meetings, nationally and internationally, published in medical journals, and possibly in the local and national press. You will not be identified in these reports or publications. The University policy for data protection (https://www.southampton.ac.uk/about/governance/policies/privacy-policy.page) will be followed.

Who is organising and funding the research?

This study is funded by the National Institute for Health Research (NIHR) Invention for Innovation stream which supports clinical development of medical devices in areas of existing or emerging patient need. The study is being led by Professor Ying Cheong from the University of Southampton. This study has been reviewed and approved by X Ethics Committee (Ethics No.: to be confirmed).

Contact for further information.

For further information please contact Dr Bonnie Ng at the University of Southampton, email: bonnie.ng@soton.ac.uk. Or ask to speak to a member of the reproductive health research team 023 8120 6856









Information on your data

The University of Southampton is the sponsor or this study based in the United Kingdom, Southampton. We will be using information from you in order to undertake this study and will act as the data controller for this study. This means that we are responsible for looking after your information and using it properly. The University of Southampton will keep identifiable information about you for 10 years after the study has finished.

Your rights to access, change or move your information are limited, as we need to manage your information in specific ways in order for the research to be reliable and accurate. If you withdraw from the study, we will keep the information about you that we have already obtained. To safeguard your rights we will use the minimum personally identifiable information possible.

You can find more about how we use your information at:

http://www.calendar.soton.ac.uk/sectionIV/research-data-management.html

The University of Southampton will collect information from you for this research study in accordance with our instructions.

The University Hospitals Southampton NHS Foundation Trust will keep your name, and contact details confidential and will not pass this information to the University of Southampton. The University Hospitals Southampton NHS Foundation Trust will use this information as needed, to contact you about the research study, and make sure that relevant information about the study is recorded for your care, and to oversee the quality of the study. Certain individuals from the University of Southampton and regulatory organisations may look at your medical and research records to check the accuracy of the research study. The University of Southampton will only receive information without any identifying information The people who analyse the information will not be able to identify you and will not be able to find your name or contact details.

The University Hospitals Southampton NHS Foundation Trust will keep identifiable information about you from this study for 10 years after the study has finished.

Please pull off the front 2 pages and keep for future reference

















CONSENTING TO THE QUESTIONNAIRE.

If you have any further questions please ask a member of staff to contact the research team on 02381206856.
By ticking this box you confirm that:
 You have read the information at the start of this questionnaire.
 You understand who to contact with any questions.
 You understand participation in completely voluntary.
 You are over 18 and under 50 years old.
You are attending an outpatients appointment at the Princess Anne Hospital.
Study ID

When you have completed this questionnaire, please return to the 'Questionnaire collection box' at reception.

If you have partially completed the questionnaire or prefer not to take part, you can also return your questionnaire in the same box.

Thank you for your time









EXPLANATION ABOUT THE QUESTIONNAIRE.

In this questionnaire you will be presented with several $\underline{\text{hypothetical}}$ scenarios in which two sensors with different characteristics will be described. In each situation, we would like you to choose which sensor you prefer out of two options: Device $\underline{\textbf{A}}$ or Device $\underline{\textbf{B}}$.

Each sensor will be described to you in terms of four features:

- Length of time using the device. The number of days the device would remain inside your womb. Longer time in your womb could give more information to the doctor. There will be three choices, 7 days, 14 days, or 28 days
- Information obtained from the device and its use in guiding treatment.
 There are three choices, the information obtained will guide treatment in a limited number of cases, majority of cases or all cases.
- 3. **Risk of complications.** There may either be short- or long-term complications from using the device. The long-term effects of using the device are currently unknown, and further clinical trials will be conducted to explore this. The short-term complications could be an infection needing antibiotic treatment, pain or discomfort needing pain relief or expulsion (device falling out of the womb). There will be two choices, 1 in 100 women (1%, lower risk), or 10 in 100 women (10%, higher risk).
- 4. Discreteness of the information receiver. Once the sensor is inserted into the womb, you will be asked to wear a garment which holds the information receiver. This receiver is required for the data on the womb environment to be obtained and interpreted by a clinician. There are three options regarding the discreteness if the information receiver that you will be asked to wear-completely discrete (i.e. even when tight clothing is worn the receiver will not be noticeable to others), moderately discrete (i.e. the receiver will be noticeable to others when tight clothing is worn), and indiscrete (i.e. the receiver will be noticeable to others irrespective of the type of clothing worn).









HOW TO COMPLETE THIS QUESTIONNAIRE.

<u>There are no right or wrong answers</u> - we are just interested in your views. Please choose the option that in your opinion is the better device, the one that best matched your priorities.

EXAMPLE QUESTION

We will now take you through an example question. You will not need to answer the question in this section.

Consider the devices described by the following two sets of features (Device **A** and Device **B**). Please indicate which choice you would prefer by circling the column.

	Device A	Device B
Length of time using the device	7 Days	28 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in <u>all</u>	will guide treatment in <u>all</u>
use in guiding treatment	cases	cases
Risk of complications	10%	1%
Discreteness of the information receiver	Moderately discrete	Completely discrete

In this example, Device A has been selected. The person made the choice based on the features of Device A and Device B, and decided her preferred choice.

CHOICE SETS









Please answer **ALL** 9 choice sets and indicate your choice by drawing a circle around your preferred device.

Choice Set 1		
	Device A	Device B
Length of using the device	7 Days	28 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in a	will guide treatment in a
use in guiding treatment	<u>limited</u> number of cases	<u>limited</u> number of cases
Risk of complications	1%	10%
Discreteness of the information receiver	Completely discrete	Indiscrete

Choice Set 2		
	Device A	Device B
Length of using the	28 Days	7 Days
device	20 Days	/ Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in the	will guide treatment in the
use in guiding treatment	<u>majority</u> of cases	<u>majority</u> of cases
Risk of complications	10%	1%
Discreteness of the	Completely discrete	Moderately discrete
information receiver	Completely discrete	ivioueratery discrete

Choice Set 3		
	Device A	Device B
Length of using the device	7 Days	14 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in a	will guide treatment in a
use in guiding treatment	<u>limited</u> number of cases	<u>limited</u> number of cases
Risk of complications	1%	10%
Discreteness of the information receiver	Indiscrete	Completely discrete

Choice Set 4		
	Device A	Device B









Length of using the device	28 Days	14 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in a	will guide treatment in <u>all</u>
use in guiding treatment	<u>limited</u> number of cases	cases
Risk of complications	10%	10%
Discreteness of the information receiver	Moderately discrete	Completely discrete

Choice Set 5		
	Device A	Device B
Length of using the	14 Days	28 Days
device	14 Days	20 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in <u>all</u>	will guide treatment in <u>all</u>
use in guiding treatment	cases	cases
Risk of complications	1%	10%
Discreteness of the	Moderately discrete	Completely discrete
information receiver	Woderatery discrete	Completely discrete

Choice Set 6		
	Device A	Device B
Length of using the	7 Days	28 Days
device	1 Days	20 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in <u>all</u>	will guide treatment in <u>all</u>
use in guiding treatment	cases	cases
Risk of complications	10%	1%
Discreteness of the	Moderately discrete	Indiscrete
information receiver	wioderatery discrete	muisciele









Choice Set 7		
	Device A	Device B
Length of using the	14 Days	28 Days
device	14 Days	20 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in the	will guide treatment in the
use in guiding treatment	<u>majority</u> of cases	<u>majority</u> of cases
Risk of complications	10%	1%
Discreteness of the	Indiscrete	Moderately discrete
information receiver	indiscrete	wioderatery discrete

Choice Set 8		
	Device A	Device B
Length of using the device	14 Days	7 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in a	will guide treatment in a
use in guiding treatment	<u>limited</u> number of cases	<u>limited</u> number of cases
Risk of complications	1%	10%
Discreteness of the information receiver	Moderately discrete	Completely discrete

Choice Set 9		
	Device A	Device B
Length of using the	14 Days	14 Days
device	14 Days	14 Days
Information obtained	The information obtained	The information obtained
from the device and its	will guide treatment in a	will guide treatment in <u>all</u>
use in guiding treatment	limited number of cases	cases
Risk of complications	1%	1%
Discreteness of the	Indiscrete	Completely discrete
information receiver	Huisciele	Completely discrete









Section 4: ABOUT YOURSELF		
Age First 4 character	rs of your postcode	
Relationship status		
Single		
In a relationship and living apart		
In a relationship and living together		
Engaged		
Married		
Civil partnership		
Other		
Please state		
Education attainment		
Education attainment Higher education & professional/voca	tional oquivalents	
·	•	_
A levels, vocational level 3 and equiva		
GCSE/O level grade A*-C, vocational	ievei z and equivalents	
Qualifications at level 1 and below	and and an extraction and the second	·
Other qualifications: level unknown (ir	ncluding foreign qualificat	· <u>_</u>
No qualifications		
What is your ethnic group?		
White		
Mixed/multiple ethnic groups		
Asian/Asian British		
Black/African/Caribbean/Black British		
Other Ethnic group		
Please state		
And was a saling to a top out for infa-	w4:1:4/ab.f.a.w4:1:42	
Are you needing treatment for infer Yes □ No □	runty/subterunty ?.	
Tes - No -		
Are you needing treatment for recuearly miscarriages)?	ırrent miscarriages (3 o	r more consecutive
Yes □ No □		
_		
Do you or your partner have childre	en?	
Yes □ No □		
	11	
Questionnaire-A V4 30-7-19	11	









Have you had any of the following treatment? Hysteroscopy (procedure to look inside the womb) Diagnostic laparoscopy (keyhole procedure to look inside the abdomen only)							
pathology)		ceyhole proce	edure to look	inside the abdomer	ı AND treat		
NHS funded Privately fun							
Do you qua	lify for NHS	funded IVF	?				
Yes		No		Don't know			
Section 5: F	FEEDBACK	(optional)					
How easy o		d you find it	to answer	these questions?	Please put a	an	
Very easy							
Quite easy							
Neither eas	y nor difficul	t					
Quite difficu	ult						
Very difficu	lt						
Please write	any comm	ents you wo	ould like to r	make about this qu	estionnair	e:	
Do you hav	e any ideas	on how to i	mprove the	questionnaire or th	e product	?	
					•		

will help us determine how to better develop a novel sensor device designed

for women planning a pregnancy.

Thank you for taking the time to complete this questionnaire. Your answers