## PEER REVIEW HISTORY

BMJ Open publishes all reviews undertaken for accepted manuscripts. Reviewers are asked to complete a checklist review form (http://bmjopen.bmj.com/site/about/resources/checklist.pdf) and are provided with free text boxes to elaborate on their assessment. These free text comments are reproduced below.

#### ARTICLE DETAILS

TITLE (PROVISIONAL)	Innovative models of care for the health facility of the future: a protocol for a mixed-methods study to elicit consumer and provider views
AUTHORS	Carrigan, Ann; Roberts, Natalie; Clay-Williams, Robyn; Hibbert, Peter; Pomare, Chiara; Mahmoud, Zeyad; Maka, Katherine; Mitchell, Rebecca; Zurynski, Yvonne; Long, Janet; Rapport, Frances; Arnolda, Gaston; Loy, Graeme; Braithwaite, Jeffrey

#### **VERSION 1 – REVIEW**

REVIEWER	Ozair, Ahmad
	King George's Medical University, Faculty of Medicine
REVIEW RETURNED	08-Apr-2022
GENERAL COMMENTS	The authors have submitted a protocol for a study that aims to utilize mixed-methods analysis to study consumer/healthcare provider needs and expectations for the development of innovative care models for the future.
	The protocol is well-written and free of major errors. The planned work's results will likely be valuable for healthcare leaders.
	1. Kindly reduce the introduction of the abstract. Instead, provide greater detail in the methods section of the abstract.
	2. If possible, kindly attach the questionnaires (if ready) to be used as supplementary material as well.
	3. There are some minor errors throughout the manuscript (for instance EIGHTS PAIRS). Please run Grammarly, a free online tool, to rid the manuscript of the same.
	4. Limitations section should be expanded further. For instance, one limitation would be study enrollment - discuss also how would low rates of enrollment be tackled.
	5. Within the text, software (like SPSS) needs to be cited appropriately.
REVIEWER	Burns Diane

REVIEWER	Burns, Diane
	The University of Sheffield, Management School
REVIEW RETURNED	27-Jun-2022
GENERAL COMMENTS	Please see attached.

# VERSION 1 – AUTHOR RESPONSE

Reviewer 1's comments	Author's response	Location in track changed document P2
Kindly reduce the introduction of the abstract. Instead, provide greater detail in the methods section of the abstract.	Thank you for your comments. The abstract introduction has been shortened and the methods expanded.	P2
If possible, kindly attach the questionnaires (if ready) to be used as supplementary material as well.	The EOI questionnaire, workshop and interview questions have been added as a supplementary file.	Supplementary file 1
There are some minor errors throughout the manuscript (for instance EIGHTS PAIRS). Please run Grammarly, a free online tool, to rid the manuscript of the same.	Thank you for pointing this out, these errors have been amended using Grammarly.	Throughout
Limitations section should be expanded further. For instance, one limitation would be study enrolment - discuss also how would low rates of enrolment be tackled.	The limitations sections has been updated; specifically, how we will address low study enrolment.	P19
Within the text, software (like SPSS) needs to be cited appropriately.	This citation has been added.	P17

Reviewer 2's comments	Author's response	Location
		in updates document
Imbalance: The abstract Is clearly	Thank you for your comments. We have	P2
written. However, there is some	removed this section in the abstract and	
imbalance as you give greater focus	updated with a more general sentence	
to digital technologies as shown by	about the models	
your decision to include examples of		
different types of digital		
technology. However, other		
components important to innovative		
care models are not exemplified.		
On page 4 of the introduction you	We have changed this section to	P4
write 'Digital services allow care to be	suggest digital services have potential	
more personalised, integrated with	benefit, rather than a factual statement.	
existing models, and delivered		
remotely (e.g.) telemedicine.' This		
sentence is written as if this is a fact,		
without citing a source of supporting		
evidence from the literature and		
without any		

acknowledgement that digital services		
can also have negative		
consequences.	The literature review everents that	DC and DZ
Seven models are identified through the review of the literature as shown	The literature review suggests that consumer focus care is a common	P6 and P7
in Table 1. In table 2, however, there	theme that underpins the other six	
are only 6 models listed – Virtual	models. As such, this will be	
and Consumer Focused Care have	incorporated into the other models. The	
been combined. The combination of	introduction and Table 1 have been	
these two models is not explained in	updated.	
the protocol. It is important to clarify		
why		
you have taken this decision		
particularly as consumer focused care		
is not contingent on the use of digital		
technologies and vice versa.	These ways for poticing this surger As	
The models used in the Facilitator	, ,	P6
Scripts for 'Consumer Focused Care'	above, consumer focused care was	
	-	Supplementary File 2.
in Table 2 and Table 1 Digital	rationale for this has been included in	
Hospital is a separate model. An	the introduction.	
explanation for how and why you have combined some of the	The corinte have been undeted	
	The scripts have been updated.	
care models is required. What is your		
rationale for combining these models;		
and why are other combinations not utilised? Are the combinations		
informed by the literature review you		
completed and if so, please clearly		
explain the rationale used?		
	While this true, when discussing the	ΝΙΔ
There is a lack of consistency within	While this true, when discussing the	NA
the Facilitator Scripts – you have	model, the risks and barriers/safety will be discussed in detail and will	
written descriptions for 5 of the care		
models but for models using digital	be highlighted by many	
technology a positive evaluative statement is provided. The use of	participants during the workshops (See script). Our goal is to present a model	
evaluative statements could be	that is tangible and viable that includes	
criticised for leading participant	information about improved patient care.	
responses.		
In the protocol (and as shown in the	We have added a sentence to the	P12 and
Facilitator Scripts) you will ask the	protocol explaining the rationale for	Supplementary File 2.
participants questions	asking about digital literacy. We have	Supplementary The 2.
about how confortable they are using	also added a sentence to the script prior	
digital technology. An explanation for	to the questions.	
why you are asking these questions is	-	
not provided in the paper or in the		
Facilitator Script. A rationale for		
asking these		
questions needs to be included in the		
paper and I would also expect these		
questions to be contextualised for the		

	T	
participants and therefore included in		
the Facilitator Script.		
My concern in highlighting the above	As addressed above, many of the	NA
issues, is that the protocol is written in	questions asked about each model will	
a way that risks suggesting or	probe the barriers, safety concerns and	
uncritically assuming the beneficial	risks. The digital model of care is	
use of digital technologies. There are	presented in a positive light as an	
criticisms in the literature of a 'pro-	example only.	
innovation bias' in policy and		
research where positive effects of		
digital		
technology are often assumed or		
become the focus of research while		
the more negative consequences for		
<b>o</b> 1		
care workers and people receiving care are overlooked. it is		
important that any potential pro-digital		
technology bias should be		
reduced/removed from your protocol.		
Need: The rationale for the study	We have clarified what we mean by	P5
includes 'capturing the needs' of	needs to include physical,	
consumer and provider groups.	psychosocial, rapid access to care for	
The paper does not expand or clarify	consumers and adequate resources and	
how 'needs' are defined for the	infrastructure for providers.	
purpose of this research. Can		P14 and 15
you provide your definition of need for	We have also expanded the section	
the purpose of this study as this will	about how the workshops will help us to	
increase the clarity of the	understand consumer and provider	
protocol, particularly as the needs	needs.	
within consumer and provider groups		
are likely to differ?		
It would also strengthen the protocol if		
you explain how your understanding		
of need has informed the questions		
you will ask each group of participants		
in the workshops and interviews. This		
addition would offer a stronger		
rationale for the design of the study		
and help with replicability.		
Participants: This sub-section is a	Thank you for noticing this error. This	P11
little hard to follow and contains new	section has been updated: 12	
information not mentioned earlier in	workshops (6 consumers, 6 providers)	
the paper. Earlier on page 11, under	and an additional 2-4 for CALD and	
the sub-heading Workshops you state		
- · · ·	-	
16 workshops will be undertaken,	consumers.	
eight in each stream. However, in the		
Participants section you refer to six		
workshops		
when discussing the potential results		
and then introduce for the first time an		

aligned wave of data collection to		
include consultation with Aboriginal		
and Torres Strait Islander Elders.		
The strategy for recruiting participants		P 13, P 17
of the six specific health	how those reporting specific conditions	
conditions/services is	will be allocated to the one group.	
usefully included. Can you also	Providers with a similar role (e.g.,	
include a few lines here on how	nurses, general practitioners) will also	
people's health condition/services will		
inform which models will be discussed		
in the workshops?	will be counterbalanced to minimise	
	biases (e.g., 1 2 3, 4 5 6; 2 3 1, 5 6 4	
	etc.).	
Interviews: The description under this		P 11, Figure 2
0 1 0	Figure 2 has also been updated to	
page 11, does not fully align with what	-	
is presented in Figure 2. I interpreted	offered at the workshops.	
from Figure 2 that all participants at		
workshops will be contacted and		
invited to take part in a follow up		
interview and given the opportunity to		
decide		
whether to participate. This differs to		
what is written in this section where		
you explain you will invite participants		
who indicate an interest in taking part		
in an interview during the workshop		<b>-</b>
The purpose of the interviews	We have added a section that explains	P17
includes expanding on areas of	this: the focus of the interviews will be	
interest and to verify the findings from	-	
the workshop data. Can you provide	example, if a consumer has experience	
•	with a model (e.g., hospital in the home	
	for renal dialysis) one-on-one interviews	
researchers or the participants and for	-	
what purpose?	specific barriers and enablers of the	
	model while maintaining participant	
	privacy.	D47
You also say the interviews will verify	As above, the interviews will allow us	P17
the findings. Can you provide more	to clarify the findings and probe more	
details on what the purpose of the	deeply into a specific issue or	
verification will be, as this will	experience that the participant reports in	
determine who should be taking part in an interview?	the workshop.	
	For	D10
Analysis: Please can you expand on	For	P18
how the proposed method of analysis	the qualitative analyses, two researchers	
to triangulate and synthesise data will	will analyse individually and then work	
remain sensitive to varying and likely	together to resolve any discrepancies.	
conflicting views and needs of	Common themes will be reported and	
consumers and providers?	any differing views and needs of	
	consumers and providers will also be	
	reported.	

	Triangulation will start at the data level (literature review and quantitative analysis), then be informed by the qualitative analysis, thereby integrating the findings.	
Scenarios. Please explain in more detail how the scenarios were identified/produced?	Topics were driven by the local health district's demographic data, and developed with a clinical subject matter expert. A sentence has been added.	P12
Page 3, 4th bullet point is written in the past tense.	This has been corrected.	P3
Page 9 describes the population of the catchment area and that 37% of the population was born outside Australia and 0.9% identified as Aboriginal and/or Torres Strait Islander. Perhaps this would be an appropriate place to signal that the study design discussed later in the paper includes parallel data collection and why?	A sentence has been added.	P9
Page 10, line 6, you refer to community members when describing the recruitment strategy for providers. Please clarify who the community members are.	We agree this is confusing and this term has been removed.	P10
Page 17, 1st para under sub heading Planned data analyses, the term 'focus group' (rather than workshop) is used.	This has been updated to "workshop".	P18

### **VERSION 2 – REVIEW**

REVIEWER	Burns, Diane The University of Sheffield, Management School
REVIEW RETURNED	14-Oct-2022

GENERAL COMMENTS	Thank you for the opportunity to read the revised version of this paper. The author's have fully addressed my comments and
	queries.