# 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)	Guidance for virtual mental health services: a rapid review of
	guidelines and recommendations from high income countries
AUTHORS	Ekeleme, Ngozichukwuka; Yusuf, Abban; Kastner, Monika; Waite, Karen; Montesanti, SR; Atherton, Helen; Salvaggio, Ginetta; Langford, Lucie; Sediqzadah, Saadia; Ziegler, Carolyn; Do Amaral, Tamara; Melamed, Osnat; Selby, Peter; Kelly, Martina; Anderson, Elizabeth; O'Neill, Braden

# **VERSION 1 – REVIEW**

REVIEWER	Ballard, Jaime
	University of Minnesota
REVIEW RETURNED	03-Oct-2023

GENERAL COMMENTS	Thank you for the opportunity to review this rapid review of guidelines for virtual mental health sevicse in primary care. The rapid response screening criteria and coding process are rigorous and thoroughly explained. The search process is described in clearly replicable detail, particularly via the appendices. The results are clearly displayed. Overall, this article was informative and easy to read.
	ABSTRACT & ARTICLE SUMMARY The abstract is currently difficult to follow, and seems better suited to an intervention study than a rapid review. It could be improved by providing a more brief and targeted objective (without background or conclusions), and by listing data sources, inclusion criteria, and coding methodology rather than setting and interventions.
	OBJECTIVE The objective of the study is clearly to systematically identify recommendations for virtual mental health care. However, the discussion section suggests a further aim was to assess whether there were recommendations within each Quadruple Aim component. Is this correct? If so, please state it in the objectives.
	METHODS Please provide more detail about how you conducted member-checking, and how people with lived experience informed the research question and keywords. In the strengths section, you state, "Strengths include our engagement of individuals with lived experience of mental illness throughout the review process," however, only one person is identified in the methods (e.g.m "the abstracts were taken to the project advisory group including one person with

lived experience") or in the author list.

#### DISCUSSION

Some comments in the discussion present results that are not included in the results section or methodology. For example, the authors state, "Overall, most of the articles reviewed were generally positive in tone while discussing the

510 future of virtual mental health care and services," but tone was not described as systematically coded. Similarly, the authors state that "almost all of our included manuscripts reporting standards for virtual mental health

493 care provided recommendations related to improving either population health or patient

494 experience, none of them reported patient inclusion or feedback within their work." At what point was this coded?

The discussion section currently does not present an overview of the recommendations or how they will inform Canadian policies.

#### **EDITING**

Additionally, some minor editing required (e.g., repeated word in "then conducted directed directed content analysis")

REVIEWER	Hayes, Karen
	Charles Sturt University, School of Allied Health & Exercise Science
REVIEW RETURNED	23-Nov-2023

## **GENERAL COMMENTS**

This is a great body of work which will significantly support the continued roll out of virtual care with people who have mental health needs. There are opportunities to improve the manuscript to clarify outcomes and increase impact.

Clearly stating the review question in your introduction will support the reader to understand the purpose of this review.

The aim of any type of systematic review is to synthesise the results in a way that supports the understanding of the reader/clinician/policy maker. At present this article reads more like a list than a synthesis. The use of the Quadruple Aim framework to analyse and synthesise results is useful approach, and drawing a simple diagram such as a matrix of how QA and the themes interlink would help to clarify synthesis for the reader. This is likely to increase readership of people with limited time.

In terms of the themes themselves, the tenses of the terms tend to jump around and the meaning is not always immediately clear. Since these themes all relate to guidelines and are aiming to support future guideline development, consider writing the themes in an instructional voice by including verbs. For example, instead of 'Emergency contacts', a more instructional theme would be something like 'Obtain emergency contact details'; instead of 'Accessibility' consider 'Improve marginalised patient access to service'. Rewriting all your themes into guideline style instructions will likely support readers to use them when developing local guidelines and increase the impact of your paper.

Your abstract is unlikely to attract the attention of potential readers. It is disjointed and does not outline the most exciting

aspects of your study. The headings in the abstract outlined by BMJ Open do not all need to be included, just the most relevant ones. You need to re-write the abstract to better represent your paper and interest the reader in reading it. For example, 'Cost reduction aspect needs attention' is unclear and not all that interesting. However, your finding that the articles cite that virtual care will reduce costs, but don't explain how, is really interesting.

The strengths and limitations of the study are unclear as to whether and how they are a strength or limitation - you need to explain them. Why is "Rapid review of virtual mental health service guidelines" a strength? Is it more that it this review will provide valuable information for policy and guideline development? Is it because you used a systematic process? Is it because the focus on QA is relevant to healthcare settings?

Good luck with your review of the manuscript.

#### **VERSION 1 – AUTHOR RESPONSE**

Response to editor and reviewer comments for *Guidance for virtual mental health services: a rapid review of guidelines and recommendations from high income countries* 

#### 21 December 2023

Thank you for the opportunity to revise our manuscript. We believe it is now substantially improved as a result of these changes, guided by your helpful questions and suggestions.

Feedback	Response
- Reference 13 (for the overall project) is an	We have updated and fixed the reference
incomplete reference. Also, please provide a brief	section, and we have added in the
summary of the overall project and how this first	following description of the overall project
phase ties in with any subsequent steps.	at the start of 'Methods': "We chose this
	over a traditional systematic or scoping
	review because we wanted to quickly
	generate evidence that could be used in
	a policymaking
	process to develop national standards for
	virtual delivery of mental health services
	in Canadian primary care; this
	manuscript reports results of the first
	phase of that rapid-cycle project (13),
	which subsequently went on to conduct
	focus groups and interviews and
	extensive policy review to generate a list
	of standards."
- In the abstract's section on objectives, please refrain	Thanks, we have changed this.
from including results.	
- A rapid review would be expected to have a short	Thank you for this comment. The timeline
time frame between running the searches and	for the entire project was one year. We

presenting the findings. The rapid nature of your review could be questioned as your search is over a year old.	had hoped to conduct the rapid review and submit it for publication immediately after completion. Because of our limited timeline and resources we ended up needing to prioritize resources to the completion of the entire original project, instead of to publication of one phase of the project.  We have described this in more detail in the limitation section as follows: "In addition, despite our best efforts, the timeline of this review took longer than expected in order to prioritize resources to the completion of the entire grant project instead of to one individual article."
- Please justify your limitations of scope to high-income countries only.	We have now addressed this in the methods section, stating: "In addition, the search was limited to high income countries to maximize the generalizability to the Canadian healthcare setting."
Thank you for the opportunity to review this rapid review of guidelines for virtual mental health services in primary care. The rapid response screening criteria and coding process are rigorous and thoroughly explained. The search process is described in clearly replicable detail, particularly via the appendices. The results are clearly displayed.	Thank you very much for your feedback.
Overall, this article was informative and easy to read.	Thank you.
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ABSTRACT & ARTICLE SUMMARY  The abstract is currently difficult to follow, and seems better suited to an intervention study than a rapid review. It could be improved by providing a more brief and targeted objective (without background or conclusions), and by listing data sources, inclusion criteria, and coding methodology rather than setting and interventions.	Thank you. We have substantively rewritten the abstract.
OBJECTIVE	
The objective of the study is clearly to systematically identify recommendations for virtual mental health care. However, the discussion section suggests a further aim was to assess whether there were recommendations within each Quadruple Aim component. Is this correct? If so, please state it in the objectives.	This project was funded to generate evidence on how to align virtual care or mental health issues more closely in Canadian primary care settings with the Quadruple Aim. For that reason, we used the Quadruple Aim as a lens for data collection to link our findings to this existing quality framework.  We have made this more explicit in the
	abstract by stating, "This study rapidly reviewed existing recommendations for

virtual mental healthcare services through the Quadruple Aim framework to create a set of recommendations on virtual healthcare delivery to guide the development of Canadian policies on virtual mental healthcare."

### **METHODS**

Please provide more detail about how you conducted member-checking, and how people with lived experience informed the research question and keywords. In the strengths section, you state, "Strengths include our engagement of individuals with lived experience of mental illness throughout the review process," however, only one person is identified in the methods (e.g.m "the abstracts were taken to the project advisory group including one person with lived experience") or in the author list.

Thank you. We revised the methods section to more clearly state the roles of people with lived experience in this study as follows:

"Two people with lived experience of mental health concerns (EA and another team member who chose not to be identified) were members of the study team and involved in a series of team meeting where we developed and approved the research question and search keywords. As themes were being developed, findings were regularly reviewed with the study team, which at that point included one person with lived experience of mental health concerns (EA) who provided substantive input on the final themes."

#### **DISCUSSION**

Some comments in the discussion present results that are not included in the results section or methodology. For example, the authors state, "Overall, most of the articles reviewed were generally positive in tone while discussing the future of virtual mental health care and services," but tone was not described as systematically coded. Similarly, the authors state that "almost all of our included manuscripts reporting standards for virtual mental health care provided recommendations related to improving either population health or patient experience, none of them reported patient inclusion or feedback within their work." At what point was this coded?

Thank you for this comment. We deleted the first point you noted, since it described our subjective impression of the literature and was not an extracted variable.

For the second point, upon reviewing the manuscript and associated documents, we realised we did not include one column in the table that kept record of whether patients were involved in each study. We have now added that column in and corrected this statement to: "Surprisingly, although almost all of our included manuscripts reporting standards for virtual mental health care provided recommendations related to improving either population health or patient experience, only one article reported patient inclusion or feedback within their work (46)."

The discussion section currently does not present an	Thank you for this feedback. We have
The discussion section currently does not present an	-
overview of the recommendations or how they will	added the following section to the
inform Canadian policies.	discussion section:
	"Our work expands on other resources
	developed by provincial, territorial and
	federal healthcare associations on how to
	incorporate virtual care into mental
	healthcare-based settings and could be
	used to further guide policy development
	on virtual mental healthcare. For
	example, in parallel to this project,
	Ontario Health – a provincial healthcare
	association- developed ad released a
	guidance reference document on using
	virtual care for treating depression and
	anxiety (69). This document summarized
	literature reviews on virtual care and
	cognitive behavioural therapy as well as
	the needs of First Nations,
	Métis, Inuit and other Indigenous
	peoples. While there were numerous
	similarities to the themes we found,
	particularly those emphasizing the need
	1, ,
	for patient screening and privacy policies,
	there was little guidance regarding
	training healthcare providers to deliver
	virtual care, setting professional
	boundaries with patients or assessing the
	cost-effectiveness of virtual health
	services (69). In general, the guidance
	from provincial medical associations
	tended to also be somewhat vague (we
	reviewed these documents as part of our
	project, available
	at: https://pcmhstandards.ca/policy-
	overview/). Several guidance documents
	focused more on describing the potential
	usefulness of virtual healthcare for
	improving health equity (70,71). Others
	did not provide an outline of what is
	needed for effective delivery of virtual
	mental healthcare services (72,73).
	"
EDITING	
Additionally, some minor editing required (e.g.,	Thank you. This has been fixed.
repeated word in "then conducted	
directed directed content analysis")	
and the distribution of the distribution of	
Reviewer: 2	
This is a great body of work which will significantly	Thank you very much for your feedback.
support the continued roll out of virtual care with	, , ,
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people who have mental health needs. There are	
opportunities to improve the manuscript to clarify	
outcomes and increase impact.	
Clearly stating the review question in your introduction	Thank you. We have inputted our
will support the reader to understand the purpose of	research question into the last paragraph
this review.	of the introduction.
The aim of any type of systematic review is to	Thank you for your feedback. We have
synthesise the results in a way that supports the	made a diagram to illustrate the links
understanding of the reader/clinician/policy maker. At	between the QA and the themes and
present this article reads more like a list than a	labelled it Figure 2.
synthesis. The use of the Quadruple Aim framework to	
analyse and synthesise results is useful approach,	
and drawing a simple diagram such as a matrix of how	
QA and the themes interlink would help to clarify	
synthesis for the reader. This is likely to increase	
readership of people with limited time.	
In terms of the themes themselves, the tenses of the	Thank you for this advice. We have
terms tend to jump around and the meaning is not	changed all of the themes so that they
always immediately clear. Since these themes all	are written like guideline style
relate to guidelines and are aiming to support future	instructions and agree that it is much
guideline development, consider writing the themes in	improved with this modification.
an instructional voice by including verbs. For example,	
instead of 'Emergency contacts', a more instructional	
theme would be something like 'Obtain emergency	
contact details'; instead of 'Accessibility' consider	
'Improve marginalised patient access to	
service'. Rewriting all your themes into guideline style	
instructions will likely support readers to use them	
when developing local guidelines and increase the	
impact of your paper.	
Your abstract is unlikely to attract the attention of	Thank you for pointing this out. We have
potential readers. It is disjointed and does not outline	rewritten our abstract.
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to re-write the abstract to better represent your paper	
and interest the reader in reading it. For example,	
'Cost reduction aspect needs attention' is unclear and	
not all that interesting. However, your finding that the	
articles cite that virtual care will reduce costs, but don't	
explain how, is really interesting.	Thonk you for bringing offerships to the con-
The strengths and limitations of the study are unclear	Thank you for bringing attention to these
as to whether and how they are a strength or limitation	points. We have changed them to better
- you need to explain them. Why is "Rapid review of	reflect our manuscript. The new strengths
virtual mental health service guidelines" a strength? Is	and limitations are as follows:
it more that it this review will provide valuable	"Extraction of data on virtual
information for policy and guideline development? Is it	
because you used a systematic process? Is it	healthcare from wide range of

because the focus on QA is relevant to healthcare settings?	sources that were analyzed using the Quadruple Aim framework  • Engagement of people with lived experience with mental illness in study design  • Recommendations for patient/provider experience and population health  • Omission of non-English resources and research discussing asynchronous care  • 'Rapid' nature of review may have left some pertinent resources unexplored
Good luck with your review of the manuscript.	Thank you.

# **VERSION 2 – REVIEW**

REVIEWER	Hayes, Karen Charles Sturt University, School of Allied Health & Exercise Science
REVIEW RETURNED	11-Jan-2024
GENERAL COMMENTS	Thank you for the work that you have put into this resubmission. Your abstract, aim and results are much clearer and will be very useful to others who are developing guidelines for telehealth provision of mental health services.