LETTER Open Access

Response to letter to the editor



Rosmin Esmail^{1,2,3,4}, Heather M. Hanson^{1,2}, Jayna Holroyd-Leduc^{1,2,3,4,5}, Sage Brown^{1,6}, Lisa Strifler^{7,8}, Sharon E. Straus^{7,9}, Daniel J. Niven^{1,2,3,10} and Fiona M. Clement^{1,3,6*}

Dear Editor,

We would like to thank you for the opportunity to respond to Dr. Glasgow's letter and clarify issues regarding our scoping review. We also want to thank Dr. Glasgow and his colleagues for taking an interest in our publication and expressing their concerns.

The focus of our scoping review was to provide clarity through the categorization of knowledge translation (KT) theories, models, and frameworks (TMFs) to help navigate the sometimes confusing and challenging field [1]. In the scoping review, we used the approach categorization definitions provided by Nilsen to categorize each original KT TMF [2]; within this framework, RE-AIM was categorized and described as an evaluation framework; and thus, following the protocol outlined in our paper, we have not mischaracterized RE-AIM. As we and Nilsen note, these categorizations are meant to be a guideline; the distinctions among the categories are imprecise and these categories are not always recognized as separate types of approaches in the literature [2]. However, this categorization provides a starting point for users attempting to search for and select KT TMFs.

We appreciate the further clarification that has been provided by Dr. Glasgow and colleagues as developers of RE-AIM on its application as a qualitative tool, its dimensions, time intervals, and how these have evolved over time with references to the subsequent publications, presentations, and the RE-AIM website. Unfortunately, the 20-year review paper on RE-AIM was

This reply refers to the comment available at https://doi.org/10.1186/s13012-020-01009-8.

Full list of author information is available at the end of the article

published in March 2019 after the scoping review search strategy and was not captured in the search [3]. Further, the Practical, Robust, Implementation and Sustainability Model (PRISM) was identified in the scoping review by Strifler et al. but did not fit the definition of "full-spectrum" [4]. It was therefore not included in the scoping review.

We agree that it is important to consider any subsequent iterations on KT TMFs. Papers citing further refinements to KT TMFs were captured within the limits of our search strategy and included in the relevant categories of the scoping review. To that point, the scoping review does state that there may be more updated versions of KT TMFs or variations of KT TMFs to contemplate and select from. This comment does address the issue raised by Glasgow and colleagues to ensure that readers retrieve and evaluate any subsequent papers on KT TMFs since their original publication.

We share similar goals with Dr. Glasgow and colleagues in the effort to provide further clarity to KT TMFs and their evolvement over time. Dr. Glasgow and colleagues themselves have indicated that it is not possible to review the entire literature on each KT TMF. Given the depth and breadth of KT TMFs that are available to users, it may be useful to develop a "living" repository/catalog of KT TMFs that provide the seminal paper, subsequent iterations of the KT TMF, and papers that cite its application. We invite the Implementation Science community to consider the development of such a resource.

Sincerely,

Rosmin Esmail, Heather M Hanson, Jayna Holroyd-Leduc, Sage Brown, Lisa Strifler, Sharon E Straus, Daniel J. Niven and Fiona M. Clement.

Authors' contributions

The authors read and approved the final manuscript.



© The Author(s). 2020 **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

^{*} Correspondence: fclement@ucalgary.ca

¹Department of Community Health Sciences, Cumming School of Medicine, University of Calgary, 3D14A Teaching and Wellness Building, 3280 Hospital Drive NW, Calgary, Alberta T2N 4Z6, Canada

³O'Brien Institute for Public Health, University of Calgary, Calgary, Alberta, Canada

Competing interest

The authors declare that they have no competing interests.

Author details

¹Department of Community Health Sciences, Cumming School of Medicine, University of Calgary, 3D14A Teaching and Wellness Building, 3280 Hospital Drive NW, Calgary, Alberta T2N 4Z6, Canada. ²Alberta Health Services, Calgary, Alberta, Canada. ³O'Brien Institute for Public Health, University of Calgary, Calgary, Calgary, Calgary, Calgary, Canada. ⁵Hotchkiss Brain Institute, University of Calgary, Calgary, Canada. ⁶Health Technology Assessment Unit, University of Calgary, Calgary, Alberta, Canada. ⁷Li Ka Shing Knowledge Institute, St. Michael's Hospital, Toronto, Ontario, Canada. ⁸Institute of Health Policy Management and Evaluation, University of Toronto, Toronto, Ontario, Canada. ¹⁰Department of Medicine, University of Toronto, Toronto, Ontario, Canada. ¹⁰Department of Critical Care Medicine, CummingSchool of Medicine, University of Calgary, Calgary, Alberta, Canada.

Received: 2 June 2020 Accepted: 12 June 2020 Published online: 02 July 2020

References

- Esmail R, Hanson HM, Holroyd-Leduc J, Brown S, Strifler L, Straus SE, et al. A scoping review of full-spectrum knowledge translation theories, models, and frameworks. Implement Sci. 2020;15(1):11.
- Nilsen P. Making sense of implementation theories, models and frameworks. Implement Sci. 2015;10:53.
- Glasgow RE, Harden SM, Gaglio B, Rabin B, Smith ML, Porter GC, et al. RE-AIM planning and evaluation framework: adapting to new science and practice with a 20-year review. Frontiers in Public Health. 2019;7(64).
- Strifler L, Cardoso R, McGowan J, Cogo E, Nincic V, Khan PA, et al. Scoping review identifies number of knowledge translation theories, models and frameworks with limited use. J Clin Epidemiol. 2018;100:92–102.

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Ready to submit your research? Choose BMC and benefit from:

- fast, convenient online submission
- thorough peer review by experienced researchers in your field
- rapid publication on acceptance
- support for research data, including large and complex data types
- gold Open Access which fosters wider collaboration and increased citations
- maximum visibility for your research: over 100M website views per year

At BMC, research is always in progress.

Learn more biomedcentral.com/submissions

