# Canadian Medical Education Journal Revue canadienne de l'éducation médicale



# Reviewers' views on the editorial review processes of the Canadian Medical Education Journal Points de vue des évaluateurs sur les processus de révision éditoriale de la Revue canadienne d'éducation médicale

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#### Article abstract

Background: Peer review is an integral part of the scientific process, ongoing efforts are needed to improve this process for both the reviewer and the scientific journal conducting peer review. This work describes the Canadian Medical Education Journal (CMEJ) peer reviewers' experiences in accepting or declining invitations to review.

Methods: We deployed questionnaires between December 2020 and May 2022. We calculated descriptive statistics for each response group (accepted or declined invitations). We analyzed open-ended comments using conventional content analysis.

Results: CMEJ Reviewers described their experiences within three broad categories of factors: individual, contextual, and journal. Participants strongly agreed or agreed to review an article (n = 95) because the article was: within their area of expertise (84/95 = 88.4%); within a topic of interest (n = 83, 87.4%); an appropriate length (n = 79, 83.2%); relevant to their work and/or interests (n = 77, 81.1%); of sufficient quality (n = 75, 78.9%); educational (n = 72, 75.8%); and provided the opportunity to remain up-to-date on current research (n = 69, 72.6%). Participants' (n = 17) most cited reason for declining their invitation to review for CMEJ was competing workloads (n = 14, 82.4%). Reviewers appreciated reviewer instructions, knowing the article's outcome, and seeing what other reviewers had to say.

Conclusion: This work describes the enablers and barriers of CMEJ reviewers and highlights the need to acknowledge peer reviewers' work, while challenging institutions and journals to support peer review activities.

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# Reviewers' views on the editorial review processes of the Canadian Medical Education Journal

Points de vue des évaluateurs sur les processus de révision éditoriale de la Revue canadienne d'éducation médicale

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#### **Abstract**

**Background:** Peer review is an integral part of the scientific process, ongoing efforts are needed to improve this process for both the reviewer and the scientific journal conducting peer review. This work describes the Canadian Medical Education Journal (CMEJ) peer reviewers' experiences in accepting or declining invitations to review.

**Methods:** We deployed questionnaires between December 2020 and May 2022. We calculated descriptive statistics for each response group (accepted or declined invitations). We analyzed open-ended comments using conventional content analysis.

**Results:** CMEJ Reviewers described their experiences within three broad categories of factors: individual, contextual, and journal. Participants strongly agreed or agreed to review an article (n = 95) because the article was: within their area of expertise (84/95 = 88.4%); within a topic of interest (n = 83, 87.4%); an appropriate length (n = 79, 83.2%); relevant to their work and/or interests (n = 77, 81.1%); of sufficient quality (n = 75, 78.9%); educational (n = 72, 75.8%); and provided the opportunity to remain up-to-date on current research (n = 69, 72.6%). Participants' (n = 17) most cited reason for declining their invitation to review for CMEJ was competing workloads (n = 14, 82.4%). Reviewers appreciated reviewer instructions, knowing the article's outcome, and seeing what other reviewers had to say.

**Conclusion:** This work describes the enablers and barriers of CMEJ reviewers and highlights the need to acknowledge peer reviewers' work, while challenging institutions and journals to support peer review activities.

### Résumé

**Contexte**: L'évaluation par les pairs fait partie intégrante du processus scientifique. Des efforts continus sont nécessaires pour améliorer ce processus, tant pour l'évaluateur que pour la revue scientifique qui procède à l'évaluation par les pairs. Ce travail décrit les expériences des réviseurs de la Revue canadienne d'éducation médicale (CMEJ) qui acceptent ou refusent les invitations à évaluer.

**Méthodes :** Nous avons déployé des questionnaires entre décembre 2020 et mai 2022. Nous avons calculé des statistiques descriptives pour chaque groupe de réponse (invitations acceptées ou refusées). Nous avons analysé les commentaires à l'aide d'une analyse de contenu conventionnelle.

**Résultats**: Les évaluateurs de la CMEJ ont décrit leurs expériences dans trois grandes catégories de facteurs : individuels, contextuels et journaliers. Les participants étaient tout à fait d'accord ou d'accord pour réviser un article (n = 95) parce que l'article était : dans leur domaine d'expertise (84/95 = 88,4 %); dans un sujet d'intérêt (n = 83, 87,4 %); d'une longueur appropriée (n = 79, 83,2 %); pertinent pour leur travail et/ou leurs intérêts (n = 77, 81,1 %); de qualité suffisante (n = 75, 78,9 %); éducatif (n = 72, 75,8 %) et offrait l'occasion de rester à jour sur la recherche actuelle (n = 69, 72,6 %). La raison la plus souvent invoquée par les participants (n = 17) pour décliner leur invitation à procéder à une évaluation pour la CMEJ était une charge de travail concurrente (n = 14, 82,4 %). Les évaluateurs ont apprécié les instructions des évaluateurs, le fait de connaître le résultat de l'article et de voir ce que les autres évaluateurs avaient à dire.

Conclusion: Ce travail décrit les facilitateurs et les obstacles rencontrés par les évaluateurs de la CMEJ et souligne la nécessité de reconnaître le travail des évaluateurs, tout en incitant les institutions et les revues à soutenir les activités d'évaluation par les pairs.

# Introduction

The scholarly peer review process is essential to publishing good evidence. With peer reviewers spending about three hours on each review,<sup>1–3</sup> the peer review process is a substantial investment of time and intellectual capital. There is evidence and support for a motivational approach that includes both intrinsic and extrinsic rewards.<sup>4</sup> Given the importance and cost of peer review, the Canadian Medical Education Journal (CMEJ) launched initiatives to improve their peer review process for authors, reviewers, and editors. These initiatives include the encouragement of team reviews<sup>5</sup> and recognition of prior high-quality peer reviews as part of an expedited review process.<sup>6</sup>

Peer review is an integral part of the scientific process, and ongoing effort is needed to improve this process for both the peer reviewer and the scientific journal<sup>7</sup>. By describing CMEJ peer reviewers' experiences in populations who accepted or declined their invitation to review, we sought to expand on the work performed by Tite and Schroter (2007).<sup>7</sup> The present study addressed two research questions: (1) What were the reasons invited reviewers accepted or declined their invitation? and (2) based on their decision to review, what were their experiences and perspectives with the CMEJ review process?

# Methods

#### Study design

The University of Saskatchewan's Behavioural Research Ethics Board (BEH-2055, August 6, 2020) approved this cross-sectional survey study. Implied consent was received from all participants using the SurveyMonkey Audience (<a href="https://www.surveymonkey.com/mp/audience">www.surveymonkey.com/mp/audience</a>) online survey platform.

#### Context

First published in 2010, the CMEJ is an online open-access peer-reviewed journal exploring new developments and critical commentary that may influence institutional, regional, and national policy and/or practices in medical education.

The CMEJ uses a single-blind review process. Peer reviewers remain anonymous to authors unless they choose to sign their review.

The CMEJ website is hosted by the University of Calgary's Journal Hosting service

(https://journalhosting.ucalgary.ca/).

Prospective reviewers are asked to respond within one week and complete their review within two weeks of receiving the invitation. Automated email reminders are sent on the day following each deadline. All invitation and reminder emails are designed to allow for one-click acceptance to minimize user burden.

# Population of reference, study population, and participant eligibility

The population of reference consisted of all the reviewers listed in the CMEJ reviewer database. The study population comprised individuals who accepted or declined an invitation to review for CMEJ between December 2020 and May 2022. We only invited reviewers to participate once over the course of the study period. Over this period, 848 peer review invitations were accepted, declined, or ignored by 357 prospective reviewers eligible to participate in this study. (Appendix A; Suppl Figure 1).

#### Recruitment

We invited CMEJ reviewers to respond to the online survey using the SurveyMonkey Audience (<a href="https://www.surveymonkey.com/mp/audience">www.surveymonkey.com/mp/audience</a>) using the inapplication email invitation system.

## Reviewer's experiences and perspectives questionnaire

This study used a 26-item questionnaire titled, "The experiences and perspectives of individuals providing peer review for the Canadian Medical Education Journal," with 5-point Likert scale responses. We adapted items exploring reasons for accepting or declining invitations to review and overall experience from work by Tite and Schroder 20077 and Gibson et al. 2008,8 respectively. The authors of this study developed the remaining items. We tested and further adapted all questionnaire items using open-ended feedback collected in a pre-test (Sept 2020, n = 8) and pilot study (Oct 2020, n = 66) cohort of CMEJ reviewers from 2018-2019. The questionnaire contained six main domains tailored to two audiences: potential reviewers who declined or accepted invitations to review for the CMEJ. We describe domains, items, and adaptation sources in detail in Appendix A; Suppl Table 1.

We developed open-ended questions *de novo* to gain insight into reviewer experiences in their own words that might influence their decision to accept or decline an invitation to review (items 7-9, 11, 16a-16e, 20, 25, Appendix A; Suppl Table 1).

#### Data analysis

The response group calculated descriptive statistics (accepted or declined invitations to review). We performed all statistical analyses using R Core Team (2018). R: A language and environment for statistical computing (R Foundation for Statistical Computing, Vienna, Austria, URL <a href="https://www.R-project.org/">https://www.R-project.org/</a>). Packages critical for analysis included dplyr, ggplot2, lubridate, la readxl, stringr, stringr, tidyverse, la tidy. Is

We analyzed open-ended comments using conventional content analysis, a systematic and inductive process of coding to identify patterns and meaning within the data. 16 JO read through the qualitative data to inductively develop an initial set of codes, which were discussed and approved by the other two authors. We iteratively collapsed and combined codes into categories and grouped them into clusters until all textual responses could be categorized into the coding framework using NVivo 12 (QSR International). We developed the final coding tree with code descriptions and exemplars (Appendix A; Suppl Table 2).

## Results

#### Participant Characteristics.

The final study sample included 112 (31.4%) CMEJ reviewers (95 accepted invitation to review (26.6%); 17 declined an invitation to review (4.8%)) of the 357 eligible CMEJ reviewers who accepted or declined an invitation to review within the study time frame. The study population subsets (accepted or declined an invitation to review) did not differ significantly by occupation, country of residence, peer review experience, or CMEJ membership length (Appendix A; Table 1 and Suppl Figure 1).

# What were the reasons invited reviewers accepted or declined their invitation?

Almost all of the 95 participants who accepted their invitation to review and responded to our survey cited the assigned article as being within their area of expertise (strongly agreed plus agreed n=84, 88.4%) or a topic of interest (n=82, 86.3%) (Figure 1). Survey respondents' most cited reason for declining their invitation to review for CMEJ was a conflict with competing workloads (n=14, 82.4%). Respondents described a lack of interest in the submission's topic (n=4, 23.5%), receiving too many invitations to review from all journals (n=5, 29.4%), a lack of qualification (n=3, 17.6%), and a lack of submission quality (n=2, 11.8%) as other reasons for declining their invitation to review (Figure 2, Appendix A; Suppl Table 2).

# What were the experiences and perspectives of reviewers who accepted or declined?

Respondents who accepted the invitation to review rated the given article as an appropriate length (n=79, 83.2%), relevant to their work and/or interests (n=77, 81.1%), of sufficient quality (n=75, 78.9%), educational (n=72, 75.8%) and providing the opportunity to remain up-to-date on current research (n=69, 72.6%). Sixty-one percent (n=54, 56.8%) of respondents agreed that the article presented could make a significant contribution to existing research (Figure 1).

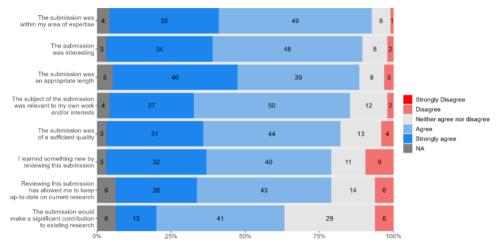


Figure 1. Reasons for accepting a CMEJ peer review invitation (n=95). NA – Not applicable includes 'choose not to answer' and 'not applicable' responses and missing data.

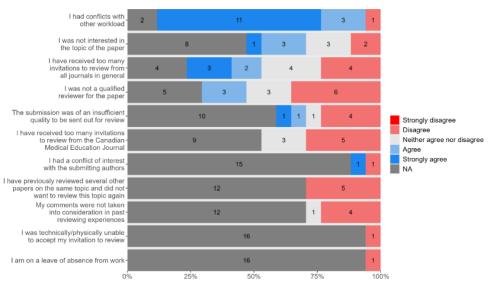


Figure 2. Reasons for declining a CMEJ peer review invitation (n = 17). NA – Not applicable includes 'choose not to answer' and 'not applicable' responses and missing data.

Those accepting their invitation to review agreed that they were provided with sufficient time to accept and complete their invitation to review (seven days to accept an invitation to review, n = 88, 92.6%; 14 days to complete a review, n = 80, 84.2%). Individuals declining their invitation to review similarly agreed they were provided with sufficient time (n = 16, 94.1%) and an appropriate number of reminders (n = 13, 76.5%) to decline to review.

Reviewers described their experiences with the CMEJ review process within three broad categories: individual, contextual, and journal factors (Figure 3).

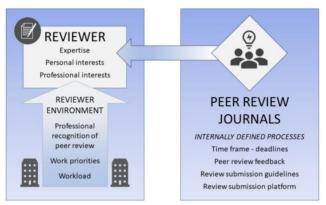


Figure 3. A theoretical framework describing facilitators and barriers to participating in scientific peer review.

Individual factors. We noticed through our content analysis that individual reviewers were motivated by manuscript content that aligned with their interests and expertise. When reviewers did not receive feedback about the final decision and comments from other reviewers, it contributed to a negative experience (Figures 1 and 2).

**Contextual/environmental factors.** Respondents described workload, conflicting work demands and reviewing for other journals as the most common reasons for declining an invitation to review. Conversely, a reasonable workload at the time was twice mentioned as a reason for accepting an invitation to review (Figure 1, Suppl Table 2).

Journal factors. Technical aspects of the review process, such as instructions to reviewers, the invitation and review form, additional support/instructions offered by the editor or journal staff, and deadlines, influenced reviewers' satisfaction. Most comments were positive toward the instructions (clear expectations, helpful, accessible), guidelines, and resources provided. However, some respondents felt the instructions should specify the journal section, and be more clear and concise. In contrast to questionnaire responses, most respondents commented that the deadlines to complete a review were too short. However, they appreciated the editors' flexibility with deadlines when they requested extensions. Respondents identified interactions with the journal team/staff as a contributing factor to their positive experiences. When further information was required from the journal, the timeliness of the response was very important (Figure 1, Suppl Table 2).

### Discussion

This work aimed to define the reasons invited reviewers accepted or declined their invitation to review. Reviewers accepting an invitation for peer review did so when the submission matched their area of expertise and was

relevant to the reviewer's interest and work. These findings align with those of Tite and Schroter 2007.<sup>7</sup> When reviewers declined their invitation to review, it was for reasons beyond the control of the journal–competing work interests, lack of appropriate expertise and the absence of professional and institutional recognition of review contributions, all of which align with previous work.<sup>7,17,18</sup> Specific resources (reviewer guidelines and instructions), system designs (deadline requirements, automated reminders, exposure to other reviewers' comments, etc.), and editorial board communication style (e.g. editorial decision notifications, etc.) may enhance reviewers' experiences.

Our work highlights the need to support reviewers using automated invitation and submission reminders and provide clear and concise section-specific guidelines. The importance of reviewer guidelines has not been empirically measured but is likely critical in producing high-quality reviews. Almost 40% of Publons Global State of Peer Review respondents reported never receiving any formal peer review training, and the majority agreed that training is both necessary (88%) and would have positive impacts on the peer review process (80%).<sup>19</sup> Clear and concise reviewer guidelines would likely support reviewers.

We used both quantitative and qualitative data in this work, providing strength to our findings. Our study population was limited to a sample of reviewers from a single journal. This study included fewer individuals declining their invitation to review than those who accepted their invitation.

Reviewers accepted or declined their invitations to review based on individual-, contextual-, and journal-level factors. Only one-third of these reasons were under the journal's control. Journals can work with academic and funding organizations to increase reviewers' willingness to review.

# Conclusion

This work describes the motivators and barriers of those invited to the peer review process at the CMEJ, highlights the need to acknowledge peer reviewers' work, and challenges institutions and journals to support reviewers in this labourious endeavour. Future research should investigate reviewer experiences at multiple journals to allow comparative effectiveness of journal resources, policies, and systems.

**Conflicts of Interest:** Marcel D'Eon is the editor-in-chief for the CMEJ. He adhered to the CMEJ policy on editors as authors. Larisa Lotoski and Jennifer O'Brien have no conflicts to declare.

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**Edited by:** Charo Rodriguez (section editor); Cindy Schmidt (senior section editor)

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# Appendix A. Supplemental Tables and Figures. Supplemental Table 1. Reviewers' views on the editorial review processes of the Canadian Medical Education Journal questionnaire

| ltem<br>Number | Item  | Response Options                          | Survey Group         | Source the item was adapted from |
|----------------|---|---|----------------------|----------------------------------|
|                | STUD  | Y IDENTIFICATION                          |                      | -                                |
|                | Please enter your study ID number. This nine-digit          |   |                      |                                  |
| 1              | number is listed in the e-mail inviting you to this survey. | ########                                  | All Respondents      | NA                               |
|                | Please indicate if you chose to accept or decline your last |   |                      |                                  |
|                | invitation to review for the Canadian Medical Education     |   |                      |                                  |
| 2              | Journal.  | Accepted Invitation, Declined Invitation  | All Respondents      | NA                               |
|                | DECLINED INVITATION   | N: OVERALL REVIEWER EXPERIENCE            |                      |                                  |
|                |   |   |                      |                                  |
|                | How would you rate your most recent reviewing               | Excellent, Very good, Neutral, Poor, Very | Declined Invitation  |                                  |
| 3              | experience with the Canadian Medical Education Journal?     | Poor, Choose not to answer                | to Review            | Gibson et al. 2008               |
|                | Please indicate your level of agreement or disagreement     | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                | with the following statement: declining my invitation to    | disagree, Disagree, Strongly Disagree,    | Declined Invitation  |                                  |
| 1              | review was easy.  | Choose not to answer                      | to Review            | NA                               |
|                | Please fill in the blank: I was provided with               | Far too long, Too long, Appropriate, Too  |                      |                                  |
|                | a/an amount of time to decline my                           | short, Far too short, Choose not to       | Declined Invitation  |                                  |
| 5              | invitation to review.                                       | answer                                    | to Review            | NA                               |
|                |   | No, Far too few, Too few, An              | to neview            |                                  |
|                | Please fill in the blank: I received                        | appropriate number of, Too many, Far      | Declined Invitation  |                                  |
| 6              | reminders to respond to my invitation to review.            | too many, Choose not to answer            | to Review            | NA                               |
|                | Please tell us more about why you chose the following       | too many, encose not to unswer            | to neview            | 10.                              |
|                | response to the statement, "declining my invitation to      |   | Declined Invitation  |                                  |
| 7              | review was easy."   | Open ended. Text box.                     | to Review            | NA                               |
| /              | Please tell us more about your response to, "I was          | Open ended. Text box.                     | to review            | INA                              |
|                |   |   | Dealined Invitation  |                                  |
|                | provided with a amount of time to decline                   | Ones and ad Tauthan                       | Declined Invitation  |                                  |
| 3              | my invitation to review."                                   | Open ended. Text box.                     | to Review            | NA                               |
|                | Please tell us more about your response to, "I received     |   | Daaliaad Issaisasiaa |                                  |
| _              | reminders to respond to my invitation to                    | _ , , _ , ,                               | Declined Invitation  | l                                |
| 9              | review."  | Open ended. Text box.                     | to Review            | NA                               |
|                |   | FOR DECLINING THE INVITATION TO REV       | IEW                  |                                  |
|                | Please think about the reason you declined your most        |   |                      |                                  |
|                | recent invitation to review for the Canadian Medical        |   |                      |                                  |
|                | Education Journal. Indicate your level of agreement or      |   |                      |                                  |
|                | disagreement with the following statements:                 |   |                      |                                  |
|                |   | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                |   | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10a            | I was not interested in the topic of the paper.             | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
|                |   | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                | I have received too many invitations to review from the     | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10b            | Canadian Medical Education Journal.                         | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
|                |   | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                | I have received too many invitations to review from all     | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10c            | journals in general.  | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
|                | The submission was of an insufficient quality to be sent    |   |                      |                                  |
|                | out for review (e.g. technical errors such as a lack of     | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                | research ethics board approval, an abundance of             | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10d            | grammatical errors, etc.).                                  | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
|                |   | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                |   | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10e            | I had conflicts with other workload.                        | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
|                |   | Strongly agree, Agree, Neither agree nor  |                      |                                  |
|                |   | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10f            | I was not a qualified reviewer for the paper.               | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
| *              | I have previously reviewed several other papers on the      | Strongly agree, Agree, Neither agree nor  |                      | , , ====                         |
|                | same topic and did not want to review another one like      | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10g            | the others.   | Choose not to answer                      | to Review            | Schroter, S. 2007.               |
| - 45           |   | Strongly agree, Agree, Neither agree nor  |                      | 55111 5101, 5. 2007.             |
|                | My comments were not taken into consideration in past       | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10h            |   |   |                      | Schroter, S. 2007.               |
| 10h            | reviewing experiences.                                      | Choose not to answer                      | to Review            | Junuter, 3. 2007.                |
|                | lam on a lague of absence from white a result               | Strongly agree, Agree, Neither agree nor  |                      | Tito I amid                      |
|                | I am on a leave of absence from work (e.g. personal or      | disagree, Disagree, Strongly Disagree,    | Declined Invitation  | Tite, L. and                     |
| 10i            | medical leave, sabbatical, etc.).                           | Choose not to answer                      | to Review            | Schroter, S. 2007                |

| ltem   |   |   |                     | Source the item    |
|--------|---|---|---------------------|--------------------|
| Number | Item  | Response Options                          | Survey Group        | was adapted from   |
|        | I was technically/physically unable to accept my invitation |   | our rey croup       |                    |
|        | to review (e.g. technical difficultly logging into my       | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | account, downloading the submission, navigating the         | disagree, Disagree, Strongly Disagree,    | Declined Invitation |                    |
| 10j    | website, etc.)  | Choose not to answer                      | to Review           | NA                 |
| ,      |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        |   | disagree, Disagree, Strongly Disagree,    | Declined Invitation | Tite, L. and       |
| 10k    | I had a conflict of interest with the submitting authors.   | Choose not to answer                      | to Review           | Schroter, S. 2007. |
|        | Are there any other reasons why you did not accept your     |   | Declined Invitation | ,                  |
| 11     | invitation to review?                                       | Open ended. Text box.                     | to Review           | NA                 |
|        | ACCEPTED INVITATION   | I: OVERALL REVIEWER EXPERIENCE            |                     | ·                  |
|        |   |   |                     |                    |
|        | How would you rate your most recent reviewing               | Excellent, Very good, Neutral, Poor, Very | Accepted Invitation |                    |
| 12     | experience with the Canadian Medical Education Journal?     | Poor, Choose not to answer                | to Review           | Gibson et al. 2008 |
|        | Were you able to complete your review of the article        |   | Accepted Invitation |                    |
| 13     | presented?  | Yes, No, Choose not to answer             | to Review           | NA                 |
|        | Please indicate your level of agreement or disagreement     |   |                     |                    |
|        | with the following statements:                              |   |                     |                    |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        |   | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 14a    | Accepting my invitation to review was easy                  | Choose not to answer                      | to Review           | NA                 |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | I was provided with a sufficient period of time to accept   | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 14b    | my invitation to review                                     | Choose not to answer                      | to Review           | NA                 |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | I was provided with a sufficient period of time to          | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 14c    | complete my review  | Choose not to answer                      | to Review           | NA                 |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | I was provided with an appropriate number of reminders      | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 14d    | to accept my invitation and/or complete my review           | Choose not to answer                      | to Review           | NA                 |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        |   | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 14e    | Overall, the review process met my expectations.            | Choose not to answer                      | to Review           | NA                 |
|        |   | No, Far too few, Too few, An              |                     |                    |
|        | Please fill in the blank.I received reminders               | appropriate number of, Too many, Far      | Accepted Invitation |                    |
| 15     | to accept my invitation and/or complete my review.          | too many, Choose not to answer            | to Review           | NA                 |
|        | Please tell us more about why you chose "{{ Q14.R5 }}"      |   |                     |                    |
|        | when presented with the following statement:                |   |                     |                    |
|        |   |   | Accepted Invitation |                    |
| 16a    | Accepting my invitation to review was easy                  | Open ended. Text box.                     | to Review           | NA                 |
|        | I was provided with a sufficient period of time to accept   |   | Accepted Invitation |                    |
| 16b    | my invitation to review                                     | Open ended. Text box.                     | to Review           | NA                 |
|        | I was provided with a sufficient period of time to          |   | Accepted Invitation |                    |
| 16c    | complete my review  | Open ended. Text box.                     | to Review           | NA                 |
|        |   |   |                     |                    |
|        | I was provided with an appropriate number of reminders      |   | Accepted Invitation |                    |
| 16d    | to accept my invitation and/or complete my review           | Open ended. Text box.                     | to Review           | NA                 |
|        |   |   | Accepted Invitation |                    |
| 16e    | Overall, the review process met my expectations.            | Open ended. Text box.                     | to Review           | NA                 |
|        |   | N: REVIEW SUBMISSION PROCESS              |                     |                    |
|        | Please indicate your level of agreement or disagreement     |   |                     |                    |
|        | with the following statement:                               |   |                     |                    |
|        |   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | Accessing the article I was invited to review was           | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 17a    | straightforward.  | Choose not to answer                      | to Review           | NA                 |
|        | The reviewer guidelines were easy to follow. The reviewer   | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | guidelines are a set of guidelines and resources presented  | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 17b    | during the review submission process.                       | Choose not to answer                      | to Review           | NA                 |
|        |   |   |                     |                    |
|        | The reviewer form was easy to use. When available, the      |   |                     |                    |
|        | reviewer form is presented during the review submission     | Strongly agree, Agree, Neither agree nor  |                     |                    |
|        | process. It provides a series of structured questions to    | disagree, Disagree, Strongly Disagree,    | Accepted Invitation |                    |
| 17d    | guide the reviewer through the peer review process.         | Choose not to answer                      | to Review           | NA                 |

| ltem   |   |   |                               | Source the item    |
|--------|---|---|-------------------------------|--------------------|
| Number | Item  | Response Options  | Survey Group                  | was adapted from   |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
|        |   | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           |                    |
| 17e    | Submitting my review was easy.                              | Choose not to answer  | to Review                     | NA                 |
|        | ACCEPTED INVITATION: REASONS                                | FOR ACCEPTING THE INVITATION TO RE  | VIEW                          |                    |
|        | Please think about the reasons you chose to review the      |   |                               |                    |
|        | article submitted to the Canadian Medical Education         |   |                               |                    |
|        | Journal. Indicate your level of agreement or disagreement   |   |                               |                    |
|        | with the following statements. I chose to review this       |   | Accepted Invitation           |                    |
|        | article because   | 0. 1 4 41.71  | to Review                     |                    |
|        |   | Strongly agree, Agree, Neither agree nor  | A                             | The Level          |
| 18a    | The submission was within my area of expertise.             | disagree, Disagree, Strongly Disagree,<br>Choose not to answer                  | Accepted Invitation to Review | Schroter, S. 2007. |
| 100    | The submission was of a sufficient quality to be sent out   | Choose not to answer  | to keview                     | 3GITOLET, 3. 2007. |
|        | for review (e.g. void of technical errors such as a lack of | Strongly agree, Agree, Neither agree nor  |                               |                    |
|        | research ethics board approval, an abundance of             | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite, L. and       |
| 18b    | grammatical errors, etc.).                                  | Choose not to answer  | to Review                     | Schroter, S. 2007. |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
|        |   | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           |                    |
| 18c    | The submission was an appropriate length.                   | Choose not to answer  | to Review                     | NA                 |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
|        |   | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite, L. and       |
| 18d    | I learned something new by reviewing this submission.       | Choose not to answer  | to Review                     | Schroter, S. 2007. |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
|        |   | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite, L. and       |
| 18e    | The submission was interesting.                             | Choose not to answer  | to Review                     | Schroter, S. 2007. |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
| 105    | The submission would make a significant contribution to     | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite, L. and       |
| 18f    | existing research.  | Choose not to answer Strongly agree, Agree, Neither agree nor                   | to Review                     | Schroter, S. 2007. |
|        | The subject of the submission was relevant to my own        | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite I and         |
| 18g    | work and/or interests.                                      | Choose not to answer  | to Review                     | Schroter, S. 2007. |
| 108    | work driay of interests.                                    | Strongly agree, Agree, Neither agree nor  | to neview                     | 36110161, 3. 2007. |
|        | Reviewing this submission has allowed me to keep up-to-     | disagree, Disagree, Strongly Disagree,  | Accepted Invitation           | Tite, L. and       |
| 18f    | date on current research.                                   | Choose not to answer  | to Review                     | Schroter, S. 2007. |
|        | WORKING WITH EDITORS AND STAFF                              | AT THE CANADIAN MEDICAL EDUCATION   | JOURNAL                       |                    |
|        | To what extent do you agree or disagree with the            |   |                               |                    |
|        | following statements regarding communication with the       |   |                               |                    |
|        | Journal's editorial team?                                   |   |                               |                    |
|        |   | Strongly agree, Agree, Neither agree nor  |                               |                    |
| 40     | The editors were polite and professional in their           | disagree, Disagree, Strongly Disagree,  | All D                         |                    |
| 19a    | communication with me/us.                                   | Choose not to answer  | All Respondents               | NA                 |
|        | I was satisfied with the depth of information provided in   | Strongly agree, Agree, Neither agree nor disagree, Disagree, Strongly Disagree, |                               |                    |
| 19b    | answers to my inquiries.                                    | Choose not to answer  | All Respondents               | NA                 |
| 130    | answers to my inquiries.                                    | Strongly agree, Agree, Neither agree nor  | All Nespondents               | INA                |
|        |   | disagree, Disagree, Strongly Disagree,  |                               |                    |
| 19c    | My inquiries were answered in a timely manner.              | Choose not to answer  | All Respondents               | NA                 |
|        | Please leave any comments you have about your               |   | ·                             |                    |
| 20     | experience submitting a review in the box below.            | Open ended. Text box.   | All Respondents               | NA                 |
|        | DEMOGRA   | PHIC CHARACTERISTICS  |                               |                    |
|        |   | Africa, Asia, Australia, Europe, North  |                               |                    |
|        |   | American, South America, Choose not   |                               |                    |
| 21     | What continent do you live in?                              | to answer   | All Respondents               | NA                 |
|        |   | And the Profession College  |                               |                    |
|        |   | Assistant Professor (Clinical), Assistant                                       |                               |                    |
|        |   | Professor (PhD), Associate Professor  |                               |                    |
|        |   | (Clinical), Associate Professor (PhD),<br>Fellow, Lecturer/Instructor, MD/PhD,  |                               |                    |
|        |   | Physician, Professor (Clinical), Professor                                      |                               |                    |
| 22     | Which one of the following job titles best applies to you?  | (PhD), Resident, Other (Please specify)   | All Respondents               | NA                 |
|        | Please estimate the number of reviews you have provided     | Less than or equal to 3, 4 to 9, Greater  | neoponuenta                   |                    |
|        | for this and all other peer reviewed journals in the past   | than or equal to 10, Choose not to  |                               |                    |
| 23     | five years.   | answer  | All Respondents               | NA                 |
|        |   |   |                               |                    |

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| Item   |   |                                       |                 | Source the item  |
|--------|---|---------------------------------------|-----------------|------------------|
| Number | Item  | Response Options                      | Survey Group    | was adapted from |
|        |   | Female, Male, Non- binary, Prefer not |                 |                  |
| 24     | To which gender identity do you most identify?              | to answer                             | All Respondents | NA               |
|        |   |                                       |                 |                  |
|        | Please think of your most recent invitation to review       |                                       |                 |                  |
|        | from the Canadian Medical Education Journal. Is there       |                                       |                 |                  |
|        | anything else you'd like us to know about your experience   |                                       |                 |                  |
| 25     | with the Canadian Medical Education Journal?                | Open ended. Text box.                 | All Respondents | NA               |
|        | OPTIONAL: If you would like this study's final results sent |                                       |                 |                  |
|        | to you please enter your e-mail address in the text box     |                                       |                 |                  |
|        | below. Your e-mail address will not be used for any other   |                                       |                 |                  |
|        | purpose other than communicating the results of this        |                                       |                 |                  |
| 26     | study.  | Open ended. Text box.                 | All Respondents | NA               |

 $NA-not\ applicable.$  Items and response options were developed by the research team and were not adapted from an existing source.

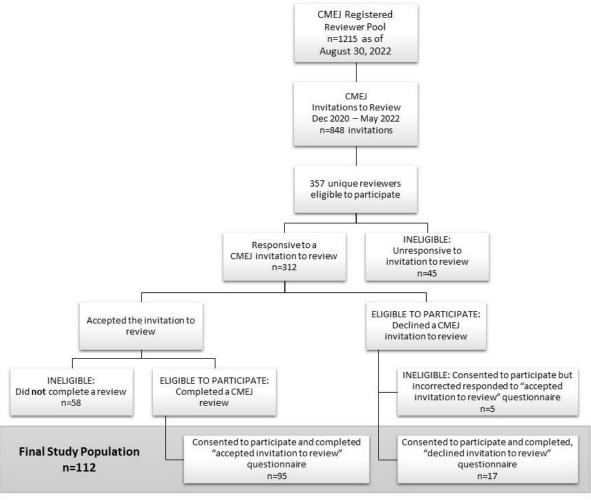
# Supplemental Table 2. Open ended questionnaire item responses

|                          | 2. Open ended questionnaire item r  |   |                                       |
|--------------------------|---|---|---------------------------------------|
| Name                     | Description   | Exemplar                                    | References                            |
| 1. Content               | Reviewers were motivated by content that was  | the manuscript's topic was one I felt       | 17                                    |
|                          | well-matched to their interests and expertise   | qualified to review and the authors had     |                                       |
|                          | and was of high quality.  | submitted a fine document (in other         |                                       |
|                          | This was often a reason for accepting an  | words, they did their homework to make      |                                       |
|                          | invitation to review; less often, unfamiliarity   | sure they met the CMEJ standards).          |                                       |
|                          | with the methodology was cited as a reason for  |   |                                       |
|                          | declining the review.   |   |                                       |
| 1.1 Interest & Expertise | Reviewers who accepted an invitation to   | The match of article content to my          | 13                                    |
|                          | review often cited the manuscript topic as one  | interests was done well                     |                                       |
|                          | the reviewer felt qualified to review, the paper  | the continued of a continued for a 22 and   |                                       |
|                          | as well-matched to the reviewer's interests and   | the methodology was not familiar            |                                       |
|                          | expertise, and the topic as relevant to   | enough to me to feel comfortable            |                                       |
|                          | experience and in the reviewer's field. Less  | reviewing                                   |                                       |
|                          | often, unfamiliarity with the methodology was   |   |                                       |
| 100 10                   | cited as a reason for declining the review.   | 519 111 19                                  | _                                     |
| 1.2 Quality              | Comments on the quality of the manuscript –   | Editors could be a bit more selective       | 7                                     |
|                          | sometimes when it was good quality, but most  | about reviews at the point of submission.   |                                       |
|                          | often when the reviewer felt the editor should  |   |                                       |
|                          | be more selective or the submission should not  | the only issue is the quality of papers     |                                       |
|                          | have moved forward for review.  | forwarded.                                  |                                       |
| 2. Deadline              | Pertains to the length of time a reviewer has to  |   | 37                                    |
|                          | accept an invitation to review or to complete   |   |                                       |
|                          | the review. This was the second most-   |   |                                       |
| 0.451 11.1               | commented category.   |   |                                       |
| 2.1 Flexible             | Reviewers appreciated the editors/Journal's   | I needed extra time to complete my          | 8                                     |
|                          | flexibility with deadlines.   | review - the team was very                  |                                       |
| 222                      |   | accommodating.                              | _                                     |
| 2.2 Reasonable           | Reviewers commented that deadlines were   | One week period to review the abstract      | 5                                     |
|                          | reasonable.   | and two-week period to review the article   |                                       |
| 2.2.0                    | 2   | was reasonable.                             | 10                                    |
| 2.3 Short                | Reviewers commented the deadlines to  | I wanted to look up references for          | 12                                    |
|                          | complete a review were too short. This was  | reviewing the paper in depth, but due to    |                                       |
|                          | accompanied by comments pertaining to   | the lack of sufficient time, I could only   |                                       |
|                          | wanting to complete a quality, in-depth review,   | overview the paper. And even then, I was    |                                       |
|                          | including looking up references cited, or   | late in submitting the review. So, I think  |                                       |
|                          | reviewing potentially controversial topics.   | reviewers should be given more time.        |                                       |
|                          | Reviewers noted the time to review doesn't  | 2 weeks was a short time Three weeks        |                                       |
|                          | start from when the review is accepted, but from when the invitation was sent.          | would have been better.                     |                                       |
|                          | from when the invitation was sent.  | would have been better.                     |                                       |
| 3. Feedback, learning    | Paviawara annyasiata knowing the automa   | I always learn a lot from it [reviewing for | 15                                    |
| 5. reeuback, learning    | Reviewers appreciate knowing the outcome and seeing what other reviewers had to say and | CMEJ] and I have important insights as a    | 15                                    |
|                          | find reviewing for the CMEJ to be a positive  | researcher.                                 |                                       |
|                          | learning experience.  | researcher.                                 |                                       |
|                          | learning experience.  | I have asked for constructive feedback      |                                       |
|                          | When they do not receive this feedback, it  | and not really gotten any.                  |                                       |
|                          | contributes to a negative experience.   | and not really gotten any.                  |                                       |
|                          | contributes to a negative experience.   | it would be nice to remain in the loop      |                                       |
|                          |   | about papers I review, in terms of what     |                                       |
|                          |   | aspects were incorporated or whatever       |                                       |
|                          |   | became of the studies. As of now, neither   |                                       |
|                          |   | of these things occur,which creates a       |                                       |
|                          |   | bit of a gap that leaves me wanting more    |                                       |
|                          |   | as a reviewer.                              |                                       |
| 4. Journal team, staff   | Relating to interactions with the editorial team,                                       | You have an excellent team - smart,         | 11                                    |
| Journal Coult, Juli      | editor, or administrative staff.  | personable, effective, efficient,           |                                       |
|                          | I I I I I I I I I I I I I I I I I I I   | understanding. I recommend CMEJ to          |                                       |
|                          |   | everyone I work with                        |                                       |
| 5. Policy issues         |   | ,   | 7                                     |
| 3. 1 Jiley 133ue3        |   |   | , , , , , , , , , , , , , , , , , , , |

| Name                    | Description   | Exemplar  | References |
|-------------------------|---|---|------------|
| 5.1 Future research     | One respondent suggested future research.   | would be interesting to know if the COVID-19pandemic has made any difference in the CMEJ's ability to have peer reviews done on time.   | 1          |
| 5.2 Indexing            | One respondent noted the CMEJ is not well-indexed.  | it's not well indexed   | 1          |
| 5.3 Learners            | Comments pertaining to the student reviewing experience, engaging new reviewers, and creation of a section for learners to encourage submissions from medical students and residents.   | I felt more competent to provide a comprehensive review as an intern reviewer and was provided reassurance that I can complete more reviewing tasks independently.  I commend the editors [sic] courage to engage reviewers that are not normally considered reviewers.   | 3          |
| 5.4 Mandatory review    | Comments pertaining to a Special Issue policy to contribute to peer review of other submissions prior to an author's own manuscript moving forward.   | Looked like it was mandatory to review a particular number of articles before getting review on my own submission.  | 1          |
| 5.5 Publishing policies | Comments pertaining to journal publishing policies (e.g. open-access, publishing charges, and publishing online).   | I appreciate that the journal is online and open access without publication charges.  | 1          |
| 6. Technical            | Comments pertaining to the technical aspects of the review process such as instructions to reviewers, the Open Journal Systems platform, and the workflow process.  |   | 118        |
| 6.1 Instructions        | Comments pertaining to the instructions provided to reviewers, including in the invitation to review, the review form, and additional support/instructions offered by the editor or journal staff.  Most comments were positive towards the instructions (clear expectations, helpful, accessible), guidelines, and resources provided. However, some respondents felt the instructions should specify the journal section, and be more direct, less convoluted, shorter, and clearer about whether the review should be done in Word with Tracked Changes or in the review form. One reviewer wondered why the author names were contained within the manuscript file. | It was a straightforward process. Clearly outlined. Information that I required was available to me. Timelines were reasonable. editors should recommend critical appraisal checklists for the reviewers to use.  make it clearer that the review is for a commentary versus regular article.   | 35         |
| 6.1.1 Review form       | Respondents made suggestions for improving the review form(s). It highlights that some reviewers are receiving the review request in different formats – some are receiving a structured review form and others are not.  | make more explicit what is communicated to the authors and what is not  consider developing a review framework applicable to specific article types  The form on this last submission was greatly improved. It provided a muchimproved way of framing the review  structure the reviews, so that people with less experience providing constructive reviews can still contribute meaningful feedbackproviding separate boxes for comments for the author and editor that refer to different facets of the paper and | 6          |

| Name           | Description                                     | Exemplar                                  | References |
|----------------|---|---|------------|
|                |   | are cued by questions, e.g., "Was the     |            |
|                |   | analysis appropriate?", "Do the results   |            |
|                |   | support the conclusion?", "Are the Tables |            |
|                |   | and Figures appropriate?", etc.           |            |
| 6.1.2 Support  | Reviewers described situations where further    | I requested clarification for one of the  | 6          |
|                | information was required. Timeliness of the     | review components, but I received the     |            |
|                | response matters.                               | answer more than one week after that      |            |
|                |   | The invitation to review referred to a    |            |
|                |   | section that the manuscript was aligned   |            |
|                |   | with, but I could not decipher what       |            |
|                |   | section that wasLuckily, [the section     |            |
|                |   | editor] was able to clarify for me right  |            |
|                |   | away.                                     |            |
| 6.2 Platform   | Comments about the user-friendliness of the     | The platform was easy to use              | 18         |
|                | online platform used for the review process.    |   |            |
|                |   | user friendliness of the online dashboard |            |
|                | These were clearly/evenly divided between       |   |            |
|                | positive and negative perspectives.             | The platform for reviews is confusing and |            |
|                |   | cumbersome                                |            |
|                | Negative comments included too many clicks      |   |            |
|                | and examples of trouble with access, uploading  | The manuscript review web portal system   |            |
|                | files, and failed submissions.                  | is a bit awkward to use                   |            |
| 6.3 Process    | Comments about the overall process of           | Downloading of the article and uploading  | 65         |
|                | completing a review for the CMEJ. Most          | of the review were simple, straight       |            |
|                | comments were positive (43/60), some were       | forward processes.                        |            |
|                | negative (11/60) and a few were neutral (6/60). |   |            |
|                |   | I also review manuscripts for Academic    |            |
|                | Most comments were about the Process of         | Medicine and their communications are a   |            |
|                | completing a review (probably due to the        | little clearerfor example reminders and   |            |
|                | wording of 2/4 open-ended questions: "Non-      | acknowledgement of receipt of review      |            |
|                | agreement with: 'Overall, the review process    |   |            |
|                | met my expectations'" and "Comments you         |   |            |
|                | have about your experience submitting a         |   |            |
|                | review in the box below."                       |   |            |
|                | Positive comments were largely "easy,"          |   |            |
|                | "seamless," "efficient," and "straightforward." |   |            |
|                | One reviewer noted the process has improved     |   |            |
|                | over the past couple of years.                  |   |            |
|                | over the past escapic or years.                 |   |            |
|                | Negative experiences were due to difficulties   |   |            |
|                | receiving or accepting the invitation to review |   |            |
|                | (due to different email/log in details),        |   |            |
|                | challenges accessing the article text file, bad |   |            |
|                | timing of the request (shortly after having a   |   |            |
|                | paper declined), multiple reminder emails       |   |            |
|                | (although other respondents appreciated         |   |            |
|                | these), and clearer communication from other    |   |            |
|                | journals re: reminders and acknowledgement      |   |            |
|                | of receipt. One respondent wondered if there    |   |            |
|                | was an appeal process for reviews that are too  |   |            |
|                | dogmatic or incorrect. One respondent noted     |   |            |
|                | CMEJ emails consistently end up in their junk   |   |            |
|                | mail.   |   |            |
| 6.3.1 Familiar | Reviewers who have prior experience reviewing   | Have reviewed many articles before, no    | 4          |
|                | for the CMEJ reported a familiar process/no     | surprises here                            |            |
|                | surprises.                                      | Luca unable to surfeed a BBS - 344 - 3 ft |            |
|                | One recognition to the description of the de    | I was unable to upload a PDF or Word file |            |
|                | One respondent noted consistently bad           | of my review on the review website.       |            |
|                | experiences.                                    | İ   | 1          |

| Name                         | Description                                  | Exemplar                                      | References |
|------------------------------|--|---|------------|
|                              |  | This is the 2nd time I have had the same      |            |
|                              |  | problem.                                      |            |
| 7. Workload                  | The most common reason for declining an      | Pandemic exhaustion and overwork. I am        | 10         |
|                              | invitation to review was Workload, described | being careful of my health and limiting my    |            |
|                              | as conflicting work demands and sometimes as | commitments. My employers no longer           |            |
|                              | prioritizing reviewing for other journals.   | support this activity as it is not part of my |            |
|                              |  | job description. Given the first point I      |            |
|                              | A reasonable Workload was twice mentioned    | choose (hopefully temporarily) no longer      |            |
|                              | as a reason for accepting an invitation to   | to devote my weekends and evenings to         |            |
|                              | review.                                      | reviews.                                      |            |
| 7.1 Conflicting work demands | Comments pertaining to balancing the request | I think the most challenging aspects of       | 7          |
|                              | to review with other commitments.            | deciding to review or not concern 1)          |            |
|                              |  | timing with other personal/professional       |            |
|                              |  | commitments                                   |            |
| 7.2 Reviews for other        | Comments pertaining to prioritizing work for | Again, too busy - stretched too thin. I am    | 1          |
| journals                     | other journals.                              | on a board of editors for another journal.    |            |
|                              |  | Those reviews take priority and I am not      |            |
|                              |  | really able to review for any other           |            |
|                              |  | journals because I review so much for         |            |
|                              |  | them.   |            |



Supplemental Figure 1. Study eligibility, consent and participation