

## Background

Physician engagement in research is generally low. One way to encourage providers to participate more is to reward them with an incentive or a “nudge”. Typical financial incentives offer sub-optimal solutions. An alternative option available to physicians is to participate in research studies, and to reflect on how that participation might influence practice, in exchange for credits toward annual recertification.

## Research questions

RQ1: Can non-financial incentives, such as CME credits, increase physician recruitment?

RQ2: Does highlighting of non-financial incentives in recruitment differentially increase participation rates by physicians?

## Methods

Participants:

- N = 200 family physicians
- Ontario, Canada; including participating physicians in TRANSFORMATION project

Recruitment:

- Email and snowball sampling from Local Health Integration Networks (LHINs)
- In person and conference booths

Manipulations (“nudges”): within recruitment email (Figure 1)

- MAINPRO eligibility in Times New Roman 12-point font (Control), OR
- Times New Roman 14-point font, in bold (Bold).

Analysis:

- Comparison of recruitment rates across conditions; independent samples t-test

## The use of MAINPRO credits to increase participation among physicians

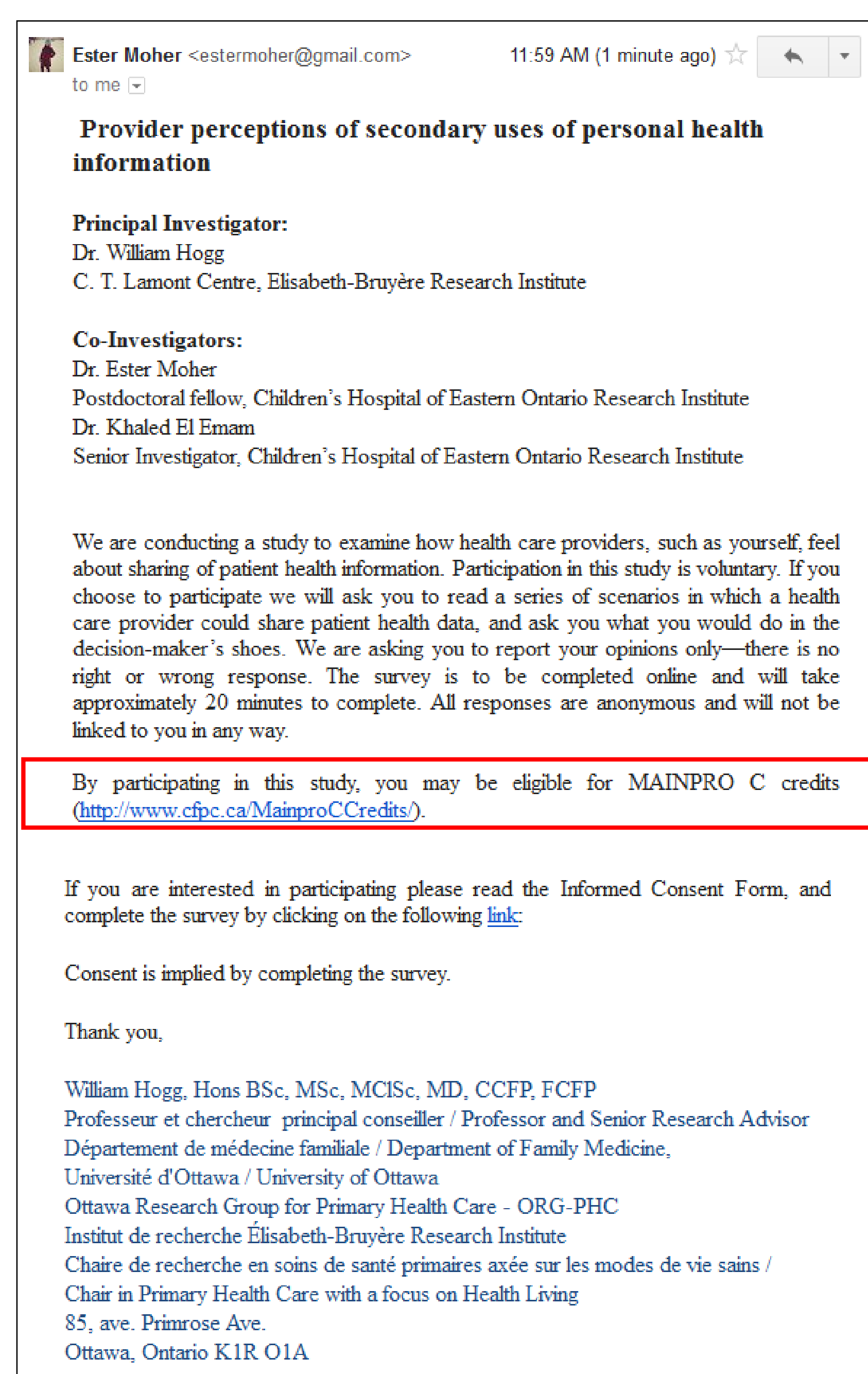
### Nudges and incentives with physicians

Nudges are any form of manipulation that reinforces a particular action over it’s alternative, without forbidding the alternative outright (Thaler & Sunstein, 2008). Financial incentives can act as nudges. Even small incentives can have a large effect; however, they may “crowd out” intrinsic motivations to participate (Kreps, 1997), making future recruitment more difficult. Further, physicians may be most concerned with the interests of their patients and on practice-related learning (Page et al, 2011; Gunn & Rhodes, 1981), rather than on financial incentives. As such, extrinsic and intrinsic benefits of using incentives with physicians may be complicated by unique trade-offs and interests.

### MAINPRO credits

Non-financial incentives are generally not as successful in recruitment (VanGeest et al, 2007), except in the case of continuing medical education (CME) credits (McDermott et al, 2003; Johnston et al, 2010). This strategy may be especially effective because incentive and survey are both designed to help providers improve care. MAINPRO, or MAINTenance of PROficiency credits, are required to maintain membership and designation with the College of Family Physicians of Canada. Family physicians must complete 250 credits every 5 years (see Figure 2), half of which may be from programs that provide the opportunity to reflect on, and improve, care. Physicians are able to participate in a research study, and submit a report (see Figure 3) in exchange for two credits. This accreditation is equivalent to 4 hours (one half-day) in a more traditional course.

Figure 1. Recruitment email



## References

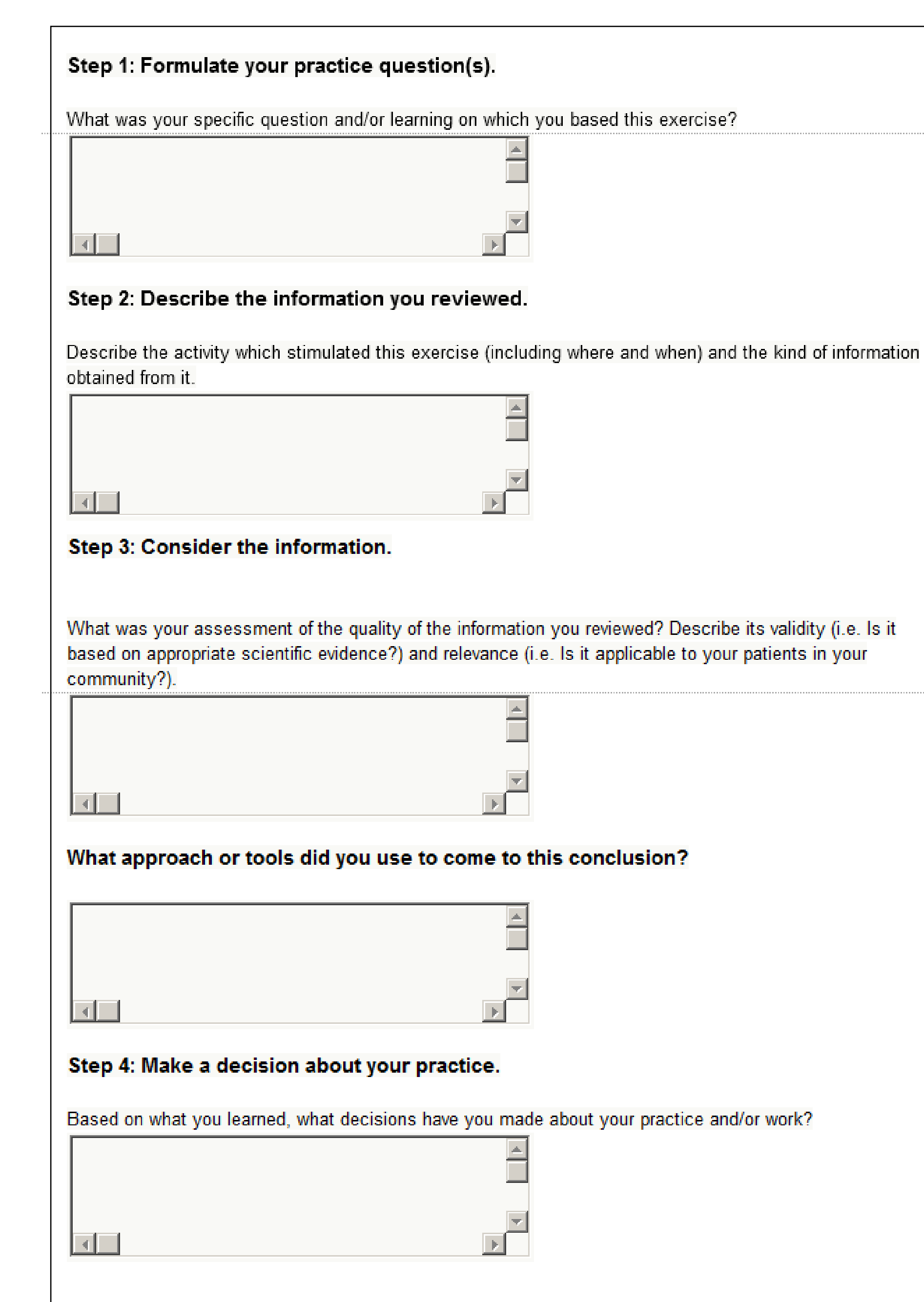
Cook, Heath & Thompson (2000). A meta analysis of response rates in web or internet-based studies. Gunn & Rhodes (1981). Physician response rates to a telephone study. Johnston et al (2010). Barriers & facilitators to recruitment of physicians & practices for primary care health services research at one centre. Kreps (1997). Intrinsic motivation and extrinsic incentives. MAINPRO website. <http://www.cfpc.ca/MainproWorks/>.

Figure 2. MAINPRO-eligible activities



\*used by participants in this study

Figure 3. MAINPRO-C report form



## Anticipated results

MAINPRO eligibility should encourage participation

- Especially robust when notice is bold

The majority of respondents should elect to apply for MAINPRO credits for participation

- Especially robust when notice is bold
- Facilitates knowledge translation of our work: more reflection → more employment in practice

## Conclusions

Given the preliminary stages of this work, no conclusions have been derived. Incorporating CME with research could act superadditively, maximizing recruitment and knowledge translation of findings.

Conflict of interest:

Khaled El Emam is the CEO of Privacy Analytics, a software company. Affiliation with Privacy Analytics Inc. does not influence our objective presentation of the research conducted in this submission.

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