Cochrane Effective Practice and Organisation of Care (EPOC) Qualitative Evidence Syntheses, Differences From Reviews of Intervention Effectiveness and Implications for Guidance

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Abstract
Systematic reviews of qualitative research (‘qualitative evidence syntheses’) are increasingly popular and represent a potentially important source of information about people’s views, needs and experiences. Since 2013, Cochrane has published qualitative evidence syntheses, and the Cochrane Effective Practice and Organisation of Care group has been involved in the majority of these reviews. But more guidance is needed on how to prepare these reviews in an environment that is more familiar with reviews of quantitative research. In this paper, we describe and reflect on how Cochrane qualitative evidence syntheses differ from reviews of intervention effectiveness and how these differences have influenced the guidance developed by the EPOC group. In particular, we discuss how it has been important to display to end users, firstly, that qualitative evidence syntheses are carried out with rigour and transparency, and secondly, that these quality standards need to reflect qualitative research traditions. We also discuss lessons that reviews of effectiveness might learn from qualitative research.

Keywords
qualitative evidence synthesis, systematic reviews of qualitative research, Cochrane, study language, purposive sampling, reflexivity, conflict of interest

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Introduction

Cochrane has existed for over 25 years and is considered a leader in the preparation of systematic reviews of the effectiveness of healthcare interventions. Over the past few years, Cochrane has also started to publish other types of reviews, and in 2013, Cochrane published its first systematic review of qualitative research (or ‘qualitative evidence synthesis’) (Glenton et al., 2013). By September 2021, The Cochrane Library had published 32 qualitative evidence syntheses and synthesis protocols. Most of these reviews address questions related to the views and experiences of patients and the public, healthcare workers and other stakeholders of healthcare interventions, their acceptability, feasibility and implementation. In addition, Cochrane has published a number of mixed methods reviews that address these types of questions alongside questions of intervention effectiveness (e.g. (Hurley et al., 2018; Vasudevan et al., 2018).

While the number of qualitative evidence syntheses increase each year, these still make up a small proportion of the over 8000 Cochrane Reviews in the Cochrane Library. Cochrane’s methodological guidance, editorial support and publication processes are still very much focused on reviews of intervention effectiveness, and the skills and competencies present within most Cochrane Review Groups reflect this focus. Cochrane Review Groups may therefore struggle to support the preparation of qualitative evidence syntheses and many Review Groups have not extended their work to include this type of review. But the growing popularity of qualitative evidence syntheses indicates a need for more guidance.

Guidance on how to prepare and report qualitative evidence syntheses has increased rapidly over the past few years, due to the efforts of Cochrane’s Qualitative and Implementation Methods Group (J. Noyes, Booth, Cargo, et al., 2018; J. Noyes et al., 2019) and initiatives outside of Cochrane, such as the EMERGE reporting guide for meta-ethnographies (France et al., 2019). However, as noted in an accompanying paper (Glenton et al., 2021), guidance is still lacking for a number of topics, including the use of sampling approaches, dealing with studies published in multiple languages, addressing review author reflexivity and conflict of interest issues, developing implications for practice and for future research and preparing abstracts and plain language summaries. Where guidance does exist, our review authors sometimes find it difficult to interpret or apply it in practice, often because the methods are difficult to operationalise (Tricco et al., 2016) or because some review authors are relatively new to the field of qualitative evidence synthesis.

Cochrane has 51 Review Groups, each focusing on a specific topic area, and each with its own editorial team that is responsible for managing and publishing reviews within this topic area. Many Cochrane Reviews are commissioned by decision makers such as governments and international agencies. The reviews are then prepared by review authors from universities and organisations around the world, with support from the editorial team. Cochrane Reviews are generally considered to be of high quality, in part because they are expected to meet specific quality standards for conduct and reporting. Cochrane’s Effective Practice and Organisation of Care Group (EPOC) is one of the Cochrane Review Groups that is most active in supporting the production of qualitative evidence syntheses. This is partly because the editorial team already included people with relevant methodological experience and is also a consequence of requests for this type of evidence from review commissioners such as the World Health Organization (Glenton et al., 2016).

To further guide EPOC’s editorial team and its review authors and to support consistent standards of conduct and reporting, EPOC recently developed a template and supporting guidance for their qualitative evidence syntheses (Glenton, Bohren, et al., 2020). As an editorial team working within an organisation that mainly focuses on effectiveness reviews, this also provided us with the opportunity to discuss where, how and why qualitative evidence syntheses differ from reviews of effectiveness.

Objective

The objective of this paper is to describe and reflect on how Cochrane qualitative evidence syntheses differ from reviews of intervention effectiveness, and how these differences have influenced our guidance for Cochrane EPOC qualitative evidence syntheses.

Materials and Methods

In 2019, members of Cochrane EPOC’s editorial team developed a template for EPOC qualitative evidence syntheses (Glenton, Bohren, et al., 2020). By ‘template’ we mean a structure for writing a protocol or full qualitative evidence synthesis. Our template includes suggested subheadings and standardised text for key sections of a protocol and review; short explanations regarding key content for a protocol and review; examples; and links to further resources. In other parallel processes, we also developed supporting guidance that focused specifically on sampling approaches and on preparing plain language summaries in the context of qualitative evidence synthesis approaches (Ames et al., 2019; EPOC, 2019; Glenton, Nilsen, & Fønhus, 2020).

The template and guidance were further developed and refined through discussions and feedback from EPOC’s information specialist and from Cochrane review authors working on qualitative evidence syntheses. Throughout the preparation of each review, the editorial team and review authors discussed challenges and explored solutions on a regular basis through email or teleconference. Most of the review teams also had 2- to 3-day face-to-face meetings with the EPOC editorial team, and the editorial team kept notes of emerging challenges and solutions. We describe the process
by which the template and guidance were developed in more
detail in another paper (Glenton et al., 2021).

Throughout the development of the template and guidance,
the editorial team and review authors discussed how qualitative
evidence synthesizes differed from reviews of effectiveness and
how we could find solutions that followed the principles of
qualitative research while meeting Cochrane reporting stan-
dards. The editorial team also kept notes of these discussions
and of the solutions we identified. During these discussions, we
turned to other sources of guidance for qualitative evidence
syntheses, including guidance developed by the Cochrane
Qualitative and Implementation Methods Group and the
EMERGE reporting guidance for meta-ethnographies (France
et al., 2019). In this paper, we focus on topics that have received
less attention in other existing guidance.

Discussion
In the following, we discuss several areas where qualitative
evidence synthesizes differ from reviews of effectiveness and
we describe how the guidance we have developed reflects
these differences. This includes issues tied to the inclusion of
studies in multiple languages, study sampling approaches,
review author reflexivity, development of implications for
practice and implications for future research, potential con-
flicts of interest, and the preparation of abstracts and plain
language summaries. We start by discussing an overarching
issue: how the epistemological perspectives that underpin
qualitative research differ from the perspectives reflected in
quantitative research traditions more broadly and reviews of
effectiveness specifically, and how this is reflected in the
methodological responsiveness and flexibility of qualitative
evidence synthesizes.

Acknowledging the need for methodological
responsiveness and flexibility

Authors of Cochrane effectiveness reviews are required to
publish a protocol where they describe the methods they plan to
use. By requiring this from review authors, Cochrane aims to
reduce the impact of review author bias and promote trans-
parency (Lasserson et al., 2019). Review authors can make
changes after their work has begun, and frequently do so.
However, this is not encouraged and changes that are made after
the protocol is published need to be documented and justified in
the final review. Within qualitative inquiry, on the other hand,
the researcher is actively encouraged to respond to the data
throughout the research journey. While qualitative researchers
also start with a research question, they expect this question or
sub-questions to evolve, which again is likely to have impli-
cations for data collection and analysis (Agee, 2009).

In our guidance, we acknowledge this qualitative research
tradition by highlighting areas where changes from the pro-
tocol to the review are likely. In particular, we point out that
the review authors’ planned sampling and data analysis
approach may change once they have familiarised themselves
with the data available to them. Similarly, where they plan to
link their review findings to the results of related effectiveness
reviews – a practice promoted within Cochrane (J. Noyes
et al., 2019) – we indicate that they are not expected to make a
decision regarding how to do this until after they have de-
veloped their own review findings. Methodological flexibility
does not imply, however, that reporting should be any less
rigorous than for reviews of effectiveness. As is the case for
effectiveness research, qualitative research traditions en-
courage clear and auditable reporting to demonstrate de-
pendability and confirmability and thereby trustworthiness
(Lincoln & Guba, 1986). We therefore specify the type of
information we expect the review authors to report and offer
examples of text from other reviews and protocols. And as for
all Cochrane Reviews (Page et al., 2019), we require that
review authors describe any changes from the protocol to the
review and provide the rationale for the changes.

Dealing with studies in multiple languages

Cochrane encourages authors of effectiveness reviews to
search for and include studies published in any language
(Higgins et al., 2019). This is driven by concerns about
language bias, particularly the concern that some types of
results may be excluded if we limit our reviews to (typically)
English-language studies, although the research on this topic
is inconsistent (Lefebvre et al., 2019).

There is no reason to believe that the potential for language
bias is any less for qualitative evidence synthesizes, and issues
related to language of publication may also contribute to dis-
semination bias in qualitative evidence synthesizes (Toews et al.,
2016, 2017). However, the practical implications of including
studies in any language are likely to be more serious. First,
because of the textual nature of qualitative findings, the volume
of data that review authors need to translate is likely to be larger
in a qualitative study than in a quantitative study. In addition, a
good translation of a qualitative study is likely to require an
understanding of study context. This is not to say that study
context does not matter for quantitative studies. For instance,
descriptions of the intervention and outcomes can also be
context-specific and open to interpretation. However, much of
the data in these studies is numerical, and translation is therefore
more straightforward. In qualitative research, on the other hand,
data may have been gathered in one language, translated to
another language for publication, and then translated again for
use in the review. Translation of qualitative studies involves
interpreting and precisely portraying the contextual and cultural
meaning of textual data such as study authors’ interpretations and
participant quotations that may include idioms and metaphors in
addition to descriptions of the context, data collection and anal-
ysis methods. Capturing these nuances is challenging, and re-
quires resources, skills, an understanding of the cultural and
linguistic context and reflexive engagement with the translation
process and outputs (Helmich et al., 2017; van Nes et al., 2010).
In our guidance, we try to balance the potential for language bias with these practical and interpretive problems. We encourage language inclusivity, stating that eligible primary studies should be included irrespective of their language of publication. At the same time, we offer practical solutions, suggesting that review authors limit themselves initially to one quick and superficial level of translation to assess studies for inclusion at the title/abstract level (e.g. using Google Translate), and only carry out a higher quality translation (i.e. formal verbatim translation) if the study is included for full text assessment (Box 1). We also suggest, as we do for reviews of effectiveness, that Cochrane’s network can be used to identify native speakers of the language in question. Further work is needed to explore how this second level can be carried out efficiently, drawing on experiences and methodological recommendations from primary qualitative research (van Nes et al., 2010) (Squires, 2009).

**Using sampling approaches**

Authors of effectiveness reviews aim to identify and analyse all studies that meet the eligibility criteria. By identifying as many relevant studies as possible, review authors aim to avoid selection bias and achieve a reliable estimate of effects (Lefebvre et al., 2019). While the Cochrane Handbook acknowledges that review authors may need to adapt to time or resource constraints, the handbook also underlines that the aim is to identify and include as many relevant studies as possible (Lefebvre et al., 2019).

In contrast, qualitative evidence synthesis aims for variations in concepts rather than including all eligible studies. Study quantity and data richness is not unimportant in a qualitative evidence synthesis, and small numbers of studies or participants and thin data can threaten our ability to make broad claims and can lead us to downgrade our confidence in a review finding (Glenton et al., 2018). However, as review authors are expected to familiarise and immerse themselves in the study data and context, large numbers of studies can also prevent us from carrying out a thorough analysis that explores and explains a phenomenon comprehensively (Glenton et al., 2018). In syntheses where many studies meet the eligibility criteria, one approach is therefore to purposively sample a selection of these studies (Suri, 2011). Within primary qualitative research, purposive sampling (i.e. selecting cases that are likely to be information-rich in relation to our research question) is a familiar approach (Miles & Huberman, 1994; Patton, 2002). Several strategies have been suggested for how to apply this approach in the context of qualitative evidence synthesis (J. Noyes, Booth, Flemming, et al., 2018; Suri, 2011). We have referred to some of these strategies in the EPOC template and have also prepared additional guidance on how to develop a purposive sampling frame in the context of a qualitative evidence synthesis (EPOC, 2019). In some of our reviews, review authors have used a sampling frame approach to sample studies based on their relevance to the review topic or their data richness (Ames et al., 2019). Others have used this approach to sample studies based on their geographical setting, type of participant group or type of condition in order to achieve maximum variation (S. Downe et al., 2019; Houghton et al., 2020; Karimi-Shahankanri et al., 2019). Theory-based sampling and sampling based on confirming and disconfirming cases (Suri, 2011) are approaches that may also be helpful where a synthesis aims to explore theoretical constructs in relation to the review question. These approaches have not yet been sufficiently explored in EPOC qualitative evidence syntheses, and a number of questions remain about applying these approaches within such syntheses (Dixon-Woods et al., 2006).

So far, in the syntheses in which we have been involved, we have only applied a sampling approach before carrying out our data synthesis. We would also like to explore further whether it makes sense to sample studies more iteratively. For instance, we could return to eligible but un-sampled studies to search for additional data after we have synthesised the data from the initial group of studies and assessed our confidence in the draft findings. In Cochrane qualitative evidence syntheses, we use the GRADE-CERQual approach to assess our confidence in each review finding (Lewin et al., 2018). Where we have downgraded our assessment because of concerns about data adequacy (one of GRADE-CERQual’s four components (Glenton et al., 2018), it may make sense to go to the studies that were eligible but not sampled to see if this lack of data can be addressed. Similarly, where we have downgraded draft findings because of concerns about the coherence of the data (Colvin et al., 2018), the relevance of the studies (J. Noyes,
Qualitative evidence synthesis aims for variation in concepts rather than an exhaustive sample, and large amounts of study data can impair the quality of the analysis. If you anticipate that you will identify a large amount of data and that a sampling approach is likely, describe this here.

What constitutes a ‘large amount of data’ is a judgment and depends on the number of studies that you identify as eligible and the amount of data within these studies. For instance, a few lengthy dissertations with rich data may be the limit for what you reasonably can synthesise, while a higher number of journal papers with less rich data may be a reasonable amount. (In addition, some review topics may require in-depth, rich data that can only be found in longer papers or dissertations, while other review topics may be sufficiently covered in shorter papers.)

In addition to avoiding large amounts of data, you may also want to ensure that you achieve a variation in concepts. For instance, if your review focuses on children of different age groups, you may want to avoid a situation where one age group dominates your analysis. Refer to studies that you identify as eligible as ‘eligible studies’ or ‘studies that meet our inclusion criteria’. Refer to studies that you include in your review after purposive sampling as ‘sampled studies’.

Describe all of the eligible studies in your Characteristics of Included Studies table, regardless of whether they were sampled. But make it clear in the table whether they were sampled or not.

Booth, Lewin, et al., 2018), or their methodological limitations (Munthe-Kaas et al., 2018), we may want to go back to the wider group of eligible studies.

Another question that needs further discussion regards when review authors should consider a sampling approach. In some of our earlier review protocols, we suggested that we would apply sampling approaches where we had identified a specific number of eligible articles. Typically, we suggested using a threshold of approximately 40–50 studies (e.g. Odendaal et al., 2015; Xyrichtis et al., 2017). However, this number was relatively arbitrary. In our guidance, we now suggest that the amount of studies that represents ‘too many’ studies for a comprehensive analysis is likely to depend on a number of factors, including the amount of data in each study (sometimes described as ‘information richness’), the topic under discussion and the variety of concepts identified. We also note that this is a judgement that needs to be made by the review authors and described in the review text (Box 2).

Another topic of discussion, particularly in an environment more familiar with effectiveness research, is that sampling may lead review authors to give preference to studies that are in alignment with their world views, which could be described as a form of ‘groupthink’ (Schippers & Rus, 2021). While purposive sampling is an accepted approach in qualitative research traditions, clear reporting, transparency and reflexivity about these processes is therefore important, a topic we discuss further below.

**Encouraging review author reflexivity**

Many of the methodological recommendations made for Cochrane Reviews of effectiveness are there to protect the data from the personal biases of the review authors. This reflects a view of evidence as something that can be achieved in its ‘pure state’, once all sources of bias have been removed, including the perspective of the review author (a standpoint sometimes described with reference to the phrase ‘a view from nowhere’ (Nagel, 1986)). However, most qualitative research belongs to an epistemological tradition that sees evidence as a co-production between researchers and their informants (or, in our case, between the review authors and their included studies). Here, data is always a ‘view from somewhere’ (Haraway, 1988), and the data are seen as inextricably linked with the perspective of the researcher. But while the influence of the researcher is seen as unavoidable, qualitative researchers are encouraged to consider and describe how they and their research have interacted with and influenced each other, a concept referred to as ‘researcher reflexivity’ (Edge, 2011).

Despite this ideal, the primary qualitative studies included in our reviews typically show a lack of such discussions or descriptions of reflexivity. This problem has also been noted by others (Newton et al., 2012). In Cochrane’s first qualitative evidence (Glenton et al., 2013), we as review authors reported this problem with the included studies. But, ironically, we also failed to practice any type of researcher reflexivity ourselves. EPOC’s review authors first started applying the concept of review author reflexivity within our protocols in 2016 (S. Downe et al., 2016).

Since then, we have explored how review authors can practice reflexivity throughout the review process and encourage them to report on their positions and practices in the final review. In our guidance, we use Edge’s description of reflexivity as ‘concerned with the ongoing, mutually-shaping interaction between the researcher and the research’ (Edge, 2011) and suggest that review authors consider both ‘prospective’ and ‘retrospective’ reflexivity (Edge, 2011) (Box 3). In other words, we encourage the review authors to consider not only how the researcher influences the research, but also how the research influences the researcher. However, we are still exploring how best to operationalise these concepts in our reviews. The examples we have included in the template guidance are likely to change as we gain more experience in this area.

**Developing implications for practice**

The ‘Implications for practice’ section is mandatory for all Cochrane Reviews, and a reminder of Cochrane’s primary goal
Box 3. Excerpt from EPOC’s qualitative evidence synthesis template (Glenton C et al., 2019).

Review author reflexivity

Reflexivity is concerned with the ongoing, mutually-shaping interaction between the researcher (in this case, the review team) and the research (in this case, the review) (Edge, 2011). It can be useful to distinguish between prospective and retrospective reflexivity (Edge, 2011):

- ‘Prospective reflexivity’ refers to the influence that the review authors have on the review. It involves considering how your views and beliefs could influence the choices you make in terms of the scope of the review and your review methods; your interpretation of the data; and your interpretation of your own findings (for instance when developing implications for practice and implications for future research). This gives you an opportunity to reflect on and acknowledge this influence and to describe this influence to readers of the review, for instance by using a range of review authors with different perspectives.

- ‘Retrospective reflexivity’, on the other hand, refers to the influence that your review has on you as review authors, and gives you an opportunity to reflect on how the review process and findings can have influenced your prior positions.

We suggest that you:

1. include a reflexive statement in the Methods section of your protocol where you describe your review team’s prior positions; how they may influence the decisions you make at various points of the review; and, where relevant, any strategies you will use to address these issues

2. include a reflexive statement in your Results section, summarising how you think your positions influenced the review; and whether your positions changed during the review

Box 4. Excerpt from EPOC’s qualitative evidence synthesis template (Glenton C et al., 2019).

Implications for practice

Implications for practice are meant as prompts or suggestions to people responsible for designing or delivering the intervention in question or otherwise affected by the topic. You can refer to other sources of evidence when developing this section. However, your own findings are likely to provide the best starting point when preparing this section.

We suggest the following approach when developing this section: Examine each of your findings. This includes the output emerging from integrating your findings with the intervention review findings. Assess the extent to which they represent factors that might affect practice. For instance, think through whether your findings point to:

- aspects of a healthcare service that stakeholders may like or want
- aspects that they may find unacceptable or difficult to use
- particular problems that implementers may need to overcome, and any solutions

Think through how this information could be useful to people designing or delivering health services:

- Present prompts, questions or suggestions, not recommendations
- Consider basing these suggestions on findings that have high or moderate confidence assessments. Be more cautious with low or very low confidence findings
- Keep in mind that Cochrane reviews are intended for a broad international audience - avoid making suggestions that are intended for specific settings

Once you have prepared this section, read through it critically. Would you be able to print this and hand it to a person responsible for designing or delivering the intervention?

(If you are collaborating with a team preparing a linked intervention review, you may want to suggest that your ‘implications for practice’ section, or parts of it, are re-used in the intervention review. If so, this needs to be done thoughtfully. For instance, you need to think through whether the two reviews covered the same scope.)

– to support people in making decisions about healthcare (Cochrane, 2019a). However, review authors need to balance this with Cochrane’s policy of not making recommendations. This policy is an acknowledgement that people’s decisions should be based on a wide array of evidence and also depend on their settings and individual circumstances (Page et al., 2019).

When authors of effectiveness reviews prepare this section, EPOC suggests that review authors focus on helping the end user think through a range of factors in addition to the effects of the intervention, including the intervention’s cost, equity implications, acceptability and feasibility (EPOC, 2017). This can be difficult to do well and requires authors of effectiveness reviews to go beyond their own review results and to consider aspects such as the management and organisation of care that they may not have knowledge or experience of. Qualitative evidence syntheses, on the other hand, can be particularly useful sources of information when it comes to several of these factors, and the implications for practice section can therefore be more straightforward to prepare without having to go beyond the findings of the review (Glenton et al., 2019).

In our guidance, we suggest that review authors revisit their findings and assess the extent to which the findings represent an issue that might affect practice, for instance, the extent to which an intervention is feasible to implement and regarded by stakeholders as acceptable (Box 4). We then suggest that review authors present these findings as prompts or suggestions, but
not as recommendations, and we provide some guidance for this. We also suggest that review authors should consider sending this particular section of the review to a selection of stakeholders with first-hand implementation experience to gather their feedback about the relevance of these prompts and the manner in which they are phrased and presented.

These sections have been shown to be important sources of information when developing implementation considerations for WHO guideline recommendations, and we have recently described the use of qualitative evidence syntheses for this purpose in more detail (Glenton et al., 2019). In addition, authors of intervention effectiveness reviews linked to the topic of the qualitative evidence synthesis could also use this information in their own Implications for practice section, and this is already being done in our mixed methods reviews, which include both effectiveness and qualitative studies (Agarwal et al., 2020; Vasudevan et al., 2021). Further exploration is needed of how different stakeholders in different contexts use these prompts, including the extent to which they are able to bring them together with local experience and evidence to inform decisions, and whether applicability checklists may be useful in this process (Booth et al., 2019; Lewin et al., 2009).

**Developing implications for future research**

In addition to supporting decision makers, Cochrane Reviews aim to provide researchers and research funders with an overview of any gaps or limitations in the existing research. As Brown et al. point out, “More research is needed” is a conclusion that fits most systematic reviews. But authors need to be more specific about what exactly is required (Brown et al., 2006).

Approaches such as EPICOT+ (Brown et al., 2006) help authors of effectiveness reviews be more explicit by thinking through aspects such as study design, populations, interventions, outcomes or time points when developing suggestions for future research. In our guidance, we encourage review authors to think through similar issues when assessing the extent to which they found studies that covered the scope of their review (Box 5).

We also suggest that review authors use their GRADE-CERQual assessments to identify gaps in and limitations of the existing research. For instance, where review authors’ GRADE-CERQual assessments of confidence in the review findings commonly point to concerns about data adequacy, coherence or relevance, this may suggest a need for more data around certain topics or from specific population groups or settings. Similarly, the review authors’ assessments of the studies’ methodological limitations can help identify room for improvement in the design or conduct of future studies.

In reviews of effectiveness, review authors commonly identify gaps in the evidence by pointing to pre-defined outcomes for which eligible studies were not found. While authors of qualitative evidence syntheses do not pre-define outcomes, their reviews often aim to test or develop models, frameworks or hypotheses (Harris et al., 2018). In these cases, we encourage review authors to identify types of data that could have helped them test or build these models.

Authors of effectiveness reviews also consider whether some types of research findings may be systematically under-represented because of the nature and direction of the results (Sterne et al., 2011). So-called ‘publication bias’ or ‘dissemination bias’ is one of the GRADE components when assessing our confidence in findings from effectiveness reviews (Schunemann et al., 2013). However, this component is not currently included in the GRADE-CERQual approach as we have large gaps in our understanding of whether and how dissemination bias might impact on the findings of qualitative evidence syntheses and on assessments of confidence in these findings (Booth et al., 2018). The GRADE-CERQual group has initiated research activities that we hope will move forward this field (Toews et al., 2016, 2017).

**Declaring potential conflicts of interest**

As previously mentioned, many of Cochrane’s standards are designed to safeguard reviews from the personal biases of the

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**Box 5. Excerpt from EPOC’s qualitative evidence synthesis template (Glenton C et al., 2019).**

**Implications for future research**

Describe any important gaps in the research that your review has identified as well as limitations of the existing research. To do this:

- Assess the extent to which you found studies that covered the scope of your review. For instance, did you find studies that covered the topic, populations, settings or time points that you were interested in or were there gaps?

- Assess whether your confidence in the findings was often downgraded for the same reasons across findings. For instance, was there often a lack of data, were certain perspectives often missing; were studies mostly conducted in very specific settings or with particular population groups, or were they often poorly designed or conducted?

- Assess your judgements in the table of methodological limitations of included studies. Were there methodological issues that occurred commonly in the included studies (even if these didn’t always lead you to downgrade the confidence in a finding)? For instance, did most of the included studies display poor reporting of study author reflexivity?

- If your review aimed to test or create models, frameworks or hypotheses, are you missing certain types of data that could have helped you test or build these models?

Then consider and describe what the implications of these issues are for future researchers.

Once you have prepared this section, read through it critically. Does it contain the main messages that you would want to hand to a researcher or a research funder?
review authors. In addition, all Cochrane Reviews are expected to include a declaration of interest statement from each review author (Cochrane, 2014a). Cochrane’s editorial and publishing policies also indicate when a person’s declaration of interest statement is serious enough to prohibit him or her from participating in the review team (Cochrane, 2014b).

These statements, and decisions to exclude potential authors from a review team, have focused primarily on financial interests and ties. But there is a growing interest within Cochrane in exploring non-financial conflicts of interest, including academic, professional and personal interests. This new focus is reflected in the organisation’s work to update its conflict of interest policies (Cochrane, 2019b).

One challenge with this new approach is that it is far more difficult to introduce clear cut-offs for review authorship when it comes to non-financial conflicts of interest. Cochrane acknowledges that this type of conflict ‘is impossible to avoid and affects everybody – even those who believe themselves to be immune for any type of outside influence’ (Cochrane, 2019b). Cochrane is now discussing the type of non-financial conflicts of interests that should be included in a Cochrane policy, and whether these conflicts should simply be declared or whether they should prevent authorship (Cochrane, 2019b).

We would argue that there are alternative approaches to authorship exclusion or declaration. The concept of reflexivity represents a possible third solution for all review authors, including authors of effectiveness reviews, whereby review authors are not only encouraged to ‘declare’ their non-financial ‘interests’, but are also expected to discuss and respond to them actively throughout the review process.

Our qualitative evidence synthesis template includes the obligatory declaration of interest statement, and also requires that authors of qualitative evidence syntheses include a section on reflexivity (Box 6). We would like to explore how these two aspects can be merged, both for qualitative evidence syntheses and other types of Cochrane Reviews.

### Preparing abstracts and plain language summaries

EPOC staff have for several years been involved in research and development around summarising reviews of effectiveness, for instance, in plain language summaries, abstracts and review summaries for policy makers (Glenton, Nilsen, Fønhus, Goudie, & Noonan, 2020; Glenton et al., 2010; Glenton et al., 2006; Rosenbaum, Glenton, Nylund, & Oxman, 2010; Rosenbaum, Glenton, & Oxman, 2010; Rosenbaum et al., 2011). An overarching aim of this work has been to ensure that summaries give a brief and accessible but also reasonably precise summary of a review’s most important findings. EPOC recommends that authors of effectiveness reviews present the most important outcomes in the review abstract and plain language summary, including outcomes where no studies were found, as well as the GRADE assessment of our confidence in this evidence (EPOC, 2018). EPOC suggests that review authors use the Summary of Findings table as the basis for these summaries as this table contains the most important outcomes as well as the GRADE assessment. EPOC also encourages review authors to use standardised plain language statements that reflect both the magnitude of effect and our confidence in the evidence (Glenton, Nilsen, Fønhus, et al., 2020; Glenton et al., 2010).

There are a number of reasons why these recommendations cannot be directly transferred to summaries of qualitative evidence syntheses. Qualitative evidence synthesis authors also present their findings and their confidence in each finding in Summaries of Qualitative Findings tables. However, many syntheses also use these findings to develop other ‘higher level’ findings, including models, lines of arguments and hypotheses. The review authors also often link their findings to findings from a Cochrane Review of effectiveness, thereby creating yet another type of output. It is

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**Box 6. Excerpt from EPOC’s qualitative evidence synthesis template (Glenton C et al., 2019).**

**Declarations of interest**

Report any conflict of interest that might be perceived by others as being capable of influencing your judgments (see Cochrane’s conflict of interest policy [https://community.cochrane.org/editorial-and-publishing-policy-resource/ethical-considerations/conflicts-interest-and-cochrane-reviews]).

Each review author should, in the protocol and in the review, declare their interests in relation to the following:

- Financial conflicts of interest, and how these have been addressed
- Whether you have been involved in a study included in the review and how you have dealt with this

You will also be asked to complete a separate declaration of interest statement required by all Cochrane review authors. The information you provide in this statement should be consistent with the information you provide here.

In addition:

Other potential interests to declare include personal, political, academic and other issues that may influence judgements made in a review (concerning, for example, the inclusion or exclusion of studies, assessments of the validity of included studies or the interpretation of results). You are likely to have provided much of this information earlier, when discussing review author reflexivity. We therefore suggest that you refer to your sections on reflexivity when referring to these types of non-financial issues.
Box 7. Excerpt from EPOC’s Plain Language Summary template (Glenton, Nilsen, & Fønhus, 2020).

Reporting the main findings

All EPOC qualitative evidence syntheses should include a Summary of Qualitative Findings table. You are also likely to have presented these findings in more detail in the main text. In addition, you may have developed a model, a line of argument, a theory or similar. Finally, your review may have included some form of analysis where you link your findings with the findings from the related Cochrane Intervention Review(s). Because of word limits in the abstract and Plain Language Summary, you may need to focus on one or two of these elements when presenting your findings.

If you decide to focus on the findings presented in the Summary of Qualitative Findings tables, you may have to further summarise these. One option is to focus on those findings that have high or moderate confidence (Example 1). However, this may interrupt the logical flow of your results or your line of argument, and the extent to which this is a good option is likely to be review-specific. Another option is to focus on those findings that your readers are likely to regard as the most important. This is a judgment.

Other issues when presenting your findings

- Always refer to the level of confidence in your findings (i.e. the GRADE-CERQual assessments). The first time you refer to confidence, write it in full (i.e. ‘high/moderate/low confidence in the evidence’). After that, you can shorten this (i.e. ‘high/moderate/low confidence’)
- Where your confidence in a finding is high, your statements can be straightforward (e.g. ‘Patients were concerned about stigma…’). However, where your confidence in a finding is less than high, avoid strong statements, and consider using modifying terms (e.g. ‘The evidence suggests that patients were concerned about stigma…’)
- Where your confidence in a finding is very low, avoid presenting this finding in the Plain Language Summary or, where the topic is likely to be important to readers, make it clear that your confidence in the evidence is very low
- Consider whether you want to highlight gaps in the findings, for instance perspectives or settings that the included studies did not cover
- When you have finalised the Plain Language Summary version of the findings, use the same information in the abstract
- Do not present recommendations!

neither realistic nor desirable to include all of these elements in a Plain Language Summary or abstract as the aim of these summaries is to be brief and accessible to users. In the plain language summary guidance for qualitative evidence syntheses, we therefore suggest that review authors present summaries of one or two of these elements only and we have developed guidance to support this (Glenton, Nilsen, & Fønhus, 2020) (Box 7).

Lessons for reviews of effectiveness

As Booth argues (Booth, 2019), qualitative evidence syntheses can be said to have a ‘dual heritage’ in the sense that they draw on methods from both qualitative primary research and systematic reviews of effectiveness. Authors of Cochrane qualitative evidence syntheses also need to find solutions that ‘satisfy the rigor required by review methods, coupled with sensitivity to the qualitative paradigm’ (Booth, 2019). In this paper, we have focused on the differences between qualitative evidence syntheses and reviews of effectiveness, and how the design and conduct of these two types of reviews reflect different methodological and philosophical traditions. The EPOC template for qualitative evidence syntheses has attempted to reflect these differences and to clarify how qualitative evidence syntheses can and should differ from reviews of effectiveness. However, we would argue that qualitative evidence syntheses, and the qualitative traditions and methods on which these draw, also provide learning for reviews of intervention effectiveness.

One such aspect is the acknowledgement that effectiveness reviews inevitably evolve between the protocol and review stages. It is not uncommon for review authors to continue to refine their scope and methods after the protocol has been published. For instance, early searches may identify studies that challenge the review authors’ understanding of a topic and the inclusion criteria they have agreed upon with regard to populations, interventions, outcomes or comparisons (Lefebvre et al., 2019). Reviews that deal with particularly complex topics and questions, or that focus on a particular outcome rather than an intervention, may be especially challenging (Lorenc et al., 2016; Petticrew et al., 2013, 2019; Shepperd et al., 2009) and changes to inclusion criteria are likely to occur. Further discussion is needed regarding where the line should go between an acceptable refinement of review methods and ‘cherry picking’ and ‘review author bias’.

Another area where lessons could be learnt is the reflexivity tradition within qualitative research. Despite the ideal of equipoise, it is reasonable to assume that most authors of effectiveness studies do not undertake their work from a position of complete neutrality, and the same is true for authors of effectiveness reviews. Decisions about the topics, focus, and design of primary effectiveness studies and subsequent reviews, and about the outcomes that matter, the analytic strategy, and, critically, the interpretation of the data, are all value laden. Proper, rigorous reflexive accounting goes some way to reveal these biases. This is one particular area where effectiveness review methodology could benefit from long-standing practices from qualitative research and review techniques (Babones, 2016; Newton et al., 2012; Perez-Brumer et al., 2016). We would also suggest that the discussion around conflict of interest in effectiveness reviews (Cochrane, 2019b) could benefit from this qualitative tradition.
Conclusion

Qualitative evidence syntheses represent a potentially important source of information about people’s views and experiences. This evidence can help decision makers assess the acceptability and feasibility of healthcare and other services and design appropriate implementation strategies. However, methods for these types of syntheses are still evolving. Systematic reviews of effectiveness studies, on the other hand, have established methods and standards and are far more integrated into many decision-making processes.

In this paper, we have described how EPOC has developed guidance for qualitative evidence syntheses within this quantitative review environment. We have also pointed to areas where further work is needed. When developing this guidance, it has been important to display to end users that qualitative evidence syntheses are carried out with rigour and transparency. At the same time, we have strived to ensure that the quality standards we emphasise reflect qualitative research traditions. This includes acknowledging the need for methodological responsiveness and flexibility.

While qualitative evidence synthesis is a relatively new method, qualitative research in general has a well-established history, and we have pointed to areas that we believe quantitative research in general and systematic reviews of effectiveness in particular could learn from.

Decision makers increasingly turn to systematic reviews of all kinds when making decisions. This has led to an increased interest in how to develop living reviews and rapid reviews, how to encourage co-production of reviews with relevant stakeholders and how to ensure that reviews reach and are used by relevant end users. These are all areas where the systematic review community as a whole could benefit from working together and learning from each other.

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Author contributions

C Glenton led the writing with input and final approval from all other authors.

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The author(s) declared the following potential conflicts of interest with respect to the research, authorship, and/or publication of this article: The authors of this paper all have formal training in qualitative research and have educational backgrounds in sociology, social anthropology, medicine and other health sciences. Several of us work or have worked as healthcare professionals and all are researchers in public health, health systems or related fields. We all work within environments dominated by the needs and values of quantitative research and applied research. We believe that qualitative research can make an important contribution to applied sciences and can complement quantitative research by providing decision makers with valuable information about people’s needs, views and experiences. However, our experiences within these environments have shown the need to emphasise and be transparent about the processes and rigour that qualitative research involves.

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