Barriers to the implementation of sexual and reproductive health education programmes in low-income and middle-income countries: a scoping review protocol

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ABSTRACT

Introduction Health education programmes (HEPs) have been associated with a number of benefits. These include providing individuals with information on matters related to their mental, social, physical as well as emotional health. HEPs also play a major role in preventing diseases and reducing the level of engagement of individuals in risky behaviours. While this is the case, there are barriers to the effective implementation of HEPs, especially in low-income and middle-income countries (LMICs) where resources are scarce. Available evidence has revealed socioeconomic challenges ranging from literacy issues, discomfort about issues of sexuality, and cultural barriers to financial constraints as key barriers to the implementation of sexual and reproductive health HEPs in LMICs. We will focus on HEPs related to sexual and reproductive health; all age groups will be considered with no restrictions on geographical setting nor model of HEP delivery. This review will map literature on the barriers to the effective implementation of HEPs in LMICs to guide future implementation research.

Methods Arksey and O’Malley’s 2005 scoping methodological framework will act as the guide for this review. We will search the following electronic databases: EBSCOhost (Academic search complete, PsycINFO, Health Sources, CINAHL, and MEDLINE with full text), Google Scholar, PubMed, SCOPUS, Science Direct and Web of Science. Grey literature from Mount Kenya University theses and dissertations, government’s as well as international organisations’ reports, such as WHO, and reference lists of included studies will be searched for eligible studies. We will limit our search to publications from 1 January 2000 to 30 September 2019. Using thematic content analysis, we will employ NVivo V.12 to extract the relevant outcomes from the included articles. We will conduct a quality appraisal of the included articles using the mixed methods appraisal tool (MMAT) version 2018.

Ethics and dissemination No ethical approval is needed for the study as it will not include animal nor human participants. The results of the proposed scoping review will be disseminated electronically, in print and through conference presentation as well as at key stakeholder meetings.

Strengths and limitations of the study

The results of this review will establish a baseline understanding of barriers to the implementation of sexual and reproductive health education programmes in low-income and middle-income countries and will discuss potential strategies to ensure effective implementation.

Here, we propose the use of an established scoping review methodology with a comprehensive search strategy that includes grey literature.

The study will conduct a formal quality assessment of included studies guided by an established mixed methods appraisal tool.

A limitation of this review is its potential to miss relevant articles, given that the findings will be limited to articles written in English.

BACKGROUND

One of the Sustainable Development Goals set forth by the United Nations for 2030 is ensuring healthy lives and promoting well-being for all, at all ages. Health should be promoted through the provision of a decent living standard, education, good labour conditions, physical exercise, and means of rest and recreation. Historically, health education programmes (HEPs) are aimed at providing the requisite skills and competencies to ensure that people are in a good position to embrace healthy behaviours voluntarily. HEPs have been shown to ensure the prevention of illness and improve outcomes among different populations.

Available literature shows benefits linked to HEPs through increases in the skills and knowledge of individuals on matters related to health. HEPs have been used to provide individuals with information concerning mental health, social health, physical health
as well as emotional health.7–9 The other notable benefits that are associated with HEPs include the prevention of diseases and the reduction of the level of engagement of individuals in highly risky behaviours.10–11 When there are well-implemented HEPs, there can be various positive changes in behaviour. This has been shown to have the ability to significantly lower the risks that are associated with alcohol, tobacco as well as other types of drugs.6–11

Various scholars have investigated the benefits of HEPs for sexual and reproductive health. Poor health-seeking behaviour is a major factor leading to preventable morbidity and mortality. HEPs for sexual and reproductive health implemented in Uganda, Kenya and Zimbabwe have reported improved health-seeking behaviour as an outcome.12–15 In Uganda, improved health-seeking behaviour resulted in an improved uptake of HIV services12 and an improved attendance to clinic appointments or routine check-ups.13 Similar findings were reported in Kenya and Zimbabwe.14 15 Further, a notable decrease in risky sexual behaviour was also reported.12 15 In the context of couples, improved accompanying of partners to health services and improved communication with partners on health issues have been reported as notable benefits of HEPs in sexual and reproductive health.12 13

While HEPs have a number of benefits linked to them, there are various challenges that hinder the effective implementation of HEPs in low-income and middle-income countries (LMICs). To the researchers’ best knowledge, there is no published scoping review reporting evidence on barriers to the implementation of HEPs in LMICs. We will use a scoping review to map literature on reported barriers to the effective implementation of HEPs in LMICs, with the aim of guiding future research to provide strategies that can be used to counter such barriers.

METHODS AND ANALYSIS

Through systematic searching, selection and synthesis of existing knowledge, a scoping review will be used for synthesising available evidence. Arksey and O’Malley’s framework,16 with modifications from Levac et al.,17 will guide this review. This framework involves identifying the research questions; identifying the relevant studies; selecting the studies to be used during the research process; charting the data; and then ensuring that the results are collated, summarised, and reported effectively and efficiently. The review will adopt the mixed methods appraisal tool, 2018,18 for the assessment of the quality of included articles. For thematic content analysis, we will use NVivo V.1219 for the extraction of relevant outcomes. Included studies will be uploaded into NVivo V.12 and information on barriers to the implementation of sexual and reproductive health HEPs will be coded. We will report our findings on the number of studies retrieved from the search and the total number of studies excluded at each screening stage guided by the PRISMA Extension for Scoping Reviews,20 as outlined in figure 1.

We chose to use the scoping methodology as it has been reported to be a useful approach for determining the need for and value of a future primary study or a full systematic review.16 Further, scoping reviews allow a broad overview of the evidence pertaining to a topic, in order to clarify key concepts and identify gaps.16 We anticipate that our scoping review will be used to identify a topic area for a future systematic review.

Eligibility of research

In order to determine the eligibility for the research question, the Population, Concept and Context tool will be used. This is demonstrated in table 1.

Our research question is: What is the evidence on barriers to the implementation of HEPs on sexual and reproductive health in LMICs?

Identification of relevant studies

The researchers will carry out a comprehensive search of articles published between 2000 and 2019. We will search the following electronic databases: EBSCOhost (Academic search complete, PsycINFO, Health Sources, CINAHL and MEDLINE with full text), Google Scholar, PubMed, SCOPUS, Science Direct and Web of Science. In addition, we will search grey literature from Mount Kenya University theses and dissertations, and governments’ as well as international organisations’ reports, such as WHO, for eligible studies. Finally, we will search reference lists of included studies for eligible articles. The search terms to be used will be (low[All Fields] AND middle[All Fields] AND (“income”[MeSH Terms] OR “income”[All Fields]) AND countries[All Fields]) AND sexual AND reproductive AND (“health promotion”[MeSH Terms] OR “health education promotion”[All Fields]) AND (“health education”[MeSH Terms] OR “health”[All Fields] AND “education”[All Fields]) OR “health education”[All Fields]) AND programs[All Fields]) AND “challenges”[All Fields] OR barriers[tiab] OR barrier[tiab] OR impeding[tiab] OR hindering[tiab].

The search strategy will be adapted to every database. Every search will be documented in detail, illustrating the keywords, the date when the search was performed, the search engine as well as the number of publications that were retrieved. We conducted a pilot search to assess the feasibility of answering the research question by a scoping review. Results are presented in table 2.

Study selection

We will search for primary studies, including randomised controlled trials, non-randomised controlled trials and observational studies, that report evidence on barriers to the implementation of HEPs in LMICs. We developed selection criteria to make sure that all the relevant studies on the barriers to the implementation of sexual and reproductive HEPs in LMICs are included.
Inclusion criteria
In order for a study to be included in the review, the following set of criteria must be met:
1. Reporting evidence on barriers to the implementation of sexual and reproductive health education programmes in LMICs.
2. Studies published in English.
3. Studies published between 1 January 2000 and 30 September 2019.

| Population | Human participants in low-income and middle-income countries, as classified by the World Bank at the time of the publication of the article |
|------------|-------------------------------------------------------------------------------------------------|
| Concept    | Reported barriers to the implementation of HEPs. For the purposes of this review, health education will be defined as the provision of health information and knowledge to people and communities |
| Context    | Sexual and reproductive health |

HEP, health education programme.

Charting the data
The titles of the studies, their abstracts as well as the full texts of all publications will be identified through searches for eligible publications. The reviewers will evaluate the titles, abstracts and then the full texts of all publications identified through searches for potentially eligible publications. Study selection will occur in three stages. As the first stage, one reviewer will screen the titles from the databases guided by the eligibility criteria. Following title screening, two reviewers will screen abstracts. Discrepancies in reviewers’ responses at the abstract screening stage will be resolved through a discussion until consensus is reached. Finally, two reviewers will review full-text articles. Discrepancies in reviewers’ responses at the full article screening stage will be resolved by involving a third screener. Information will be extracted from the included articles using the data charting form (box 1). The form will be constantly updated in an iterative process according to the data extracted and in order to fully answer the research question. The PRISMA chart (figure 1) will be used to document the screening results.

Collating, summarising and reporting results
In line with Arksey and O’Malley’s framework,16 the researchers will extract data that are linked to the research
objectives through the use of a thematic content analysis approach. We will employ NVivo V.12 for thematic content analysis. The reviewers will analyse the full-text articles for reported evidence on barriers to the implementation of sexual and reproductive health HEPs in LMICs. All data pertaining to barriers to the implementation of HEPs in LMICs will be extracted from the included articles. This will be done through coding. Finally, an overall interpretation will be performed regarding how the thematic areas relate to one another, explaining how the various concepts relate to the research question.

Quality appraisal

We will employ the mixed methods appraisal tool (MMAT) for evaluating the quality of the articles that have been selected to be included in the study. Through the use of the tool, the researchers will be in a position to evaluate the aim of the study, the methodology used, the study design used, the recruitment of the research participants, the collection of data, the manner in which analysis of data took place, the presentation of the study findings, and the authors’ discussions and conclusions. The MMAT has been shown to be useful for appraising the quality of primary research. Critical appraisal entails making judgements; hence, there will be two independent reviewers who will be involved during the process. For every study included, there will be criteria that will be used for appraisal. The overall percentage quality score will be calculated. For the purposes of this review, scores of ≤50% will be considered as low quality, while a score in the range of 51%–75% will be regarded as average quality. A score in the range of 76%–100% will be considered as high quality. Reviewers will follow the scoring guide provided in MMAT version 2018.

**Ethical considerations**

No ethical approval is needed for the study because it will not include animal nor human participants.

**Patient and public involvement**

This study does not involve patients or the public.

**DISCUSSION**

LMICs generally experience a number of healthcare challenges. As Iqbal et al point out, one of the main challenges faced is the inequity that exists when it comes to access to healthcare across the globe, and in particular in LMICs. Much focus has been placed on improving access to health services through improving healthcare systems. However, limited studies have been carried out to explore barriers to the implementation of these interventions.

In the context of sexual and reproductive health, HEPs have been documented to enhance the health of various population groups and to be effective in improving health outcomes in relation to sexually transmitted diseases. Vanwesenbeeck et al reported that HEPs for sexual and reproductive health among adolescents and young boys resulted in improved knowledge and skillsets essential for safer sexual choices. This calls for the need for HEPs to improve health outcomes.

The scoping review will include evidence published from 2000 to 2019. The studies that will be included in the review will contain information concerning barriers to the implementation of HEPs in LMICs. The researchers anticipate the obtainment of relevant studies that report on the barriers to the implementation of HEPs in LMICs. The findings of this review will be highly beneficial to policy-makers who are involved when HEPs are being crafted to improve health outcomes. In addition, the findings of the review will help design strategies that can be used to ensure successful implementation of HEPs in LMICs. Researchers interested in carrying out further research in the area can also use the findings of the study as a basis for their research. The review will be disseminated electronically and in print, and it will be presented at scientific conferences on health education promotion.

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**Table 2  Results from pilot search in PubMed**

| Keywords search | Date of search | Search engine used | Number of publications retrieved |
|-----------------|---------------|--------------------|---------------------------------|
| (low(All Fields)AND middle(All Fields)AND ("income"(MeSH Terms)OR "income"(All Fields)) AND countries(All Fields)) AND sexual AND reproductive AND ("health promotion"(MeSH Terms)OR "health promotion promotion"(All Fields)) AND (("health education"(MeSH Terms)OR ("health"(All Fields)AND "education"(All Fields)) OR "health education"(All Fields)) AND programs(All Fields)) AND "challenges"(All Fields)OR barriers(tiab)OR barrier(tiab)OR impeding(tiab)OR hindering(tiab)) | 15 August 2019 | PubMed | 234 338 |

**Box 1  Data charting form**

- Author and publication year.
- Study title.
- Total participants.
- Age of participants.
- Geography of the study (where was the study area).
- Type of sexual and reproductive health education programme (HEP) carried out.
- Details on the barriers to the implementation of HEPs.
- Study design.
- Most relevant findings.
- Conclusions.
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