


BMJ Open Identifying priorities for research on financial risk protection to achieve universal health coverage: a scoping overview of reviews

Dominika Bhatia ¹, Sujata Mishra, ¹ Abirami Kirubarajan ¹, Bernice Yanful ², Sara Allin ¹, Erica Di Ruggiero²

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¹Institute of Health Policy, Management and Evaluation, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada

²Public Health Sciences Division, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada

Correspondence to

Dominika Bhatia;
dominika.bhatia@mail.utoronto.ca

ABSTRACT

Objectives Financial risk protection (FRP) is an indicator of the Sustainable Development Goal 3 universal health coverage (UHC) target. We sought to characterise what is known about FRP in the UHC context and to identify evidence gaps to prioritise in future research.

Design Scoping overview of reviews using the Arksey & O'Malley and Levac & Colquhoun framework and the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews reporting guidelines.

Data sources MEDLINE, PsycINFO, CINAHL-Plus and PAIS Index were systematically searched for studies published between 1 January 1995 and 20 July 2021.

Eligibility criteria Records were screened by two independent reviewers in duplicate using the following criteria: (1) literature review; (2) focus on UHC achievement through FRP; (3) English or French language; (4) published after 1995 and (5) peer-reviewed.

Data extraction and synthesis Two reviewers extracted data using a standard form and descriptive content analysis was performed to synthesise findings.

Results 50 studies were included. Most studies were systematic reviews focusing on low-income and middle-income countries. Study periods spanned 1990 and 2020. While FRP was recognised as a dimension of UHC, it was rarely defined as a concept. Out-of-pocket, catastrophic and impoverishing health expenditures were most commonly used to measure FRP. Pooling arrangements, expansion of insurance coverage and financial incentives were the main interventions for achieving FRP. Evidence gaps pertained to the effectiveness, cost-effectiveness and equity implications of efforts aimed at increasing FRP. Methodological gaps related to trade-offs between single-country and multicountry analyses; lack of process evaluations; inadequate mixed-methods evidence, disaggregated by relevant characteristics; lack of comparable and standardised measurement and short follow-up periods.

Conclusions This scoping overview of reviews characterised what is known about FRP as a UHC dimension and found evidence gaps related to the effectiveness, cost-effectiveness and equity implications of FRP interventions. Theory-informed mixed-methods research using high-quality, longitudinal and disaggregated data is needed to address these objectives.

Strengths and limitations of this study

- This is the first scoping overview of reviews synthesising the evidence gaps related to the conceptualisation of financial risk protection, interventions aimed at increasing financial risk protection, and outcomes used to measure financial risk protection in the context of universal health coverage.
- This study was guided by a prospectively registered protocol and systematic searching and evidence review methods.
- Study searches were limited by language (English and French) and publication year (1995–2021); however, the study periods of the individual included reviews ranged from 1990 to 2020.
- In order to characterise the published evidence base, this research relied on academic peer-reviewed literature.
- As recommended in scoping review guidelines, we relied on the interpretations of the authors of the included reviews, rather than impose our own meanings.

INTRODUCTION

At the 58th World Health Assembly in 2005, Member States committed to transitioning to universal coverage to guarantee access to necessary health services to the entire population, while protecting against financial risk (WHA58.33).¹ This objective was reaffirmed in the 2015 ratification of the United Nations 2030 Agenda for Sustainable Development, which outlined 17 Sustainable Development Goals (SDGs) and 169 targets that aim to provide ‘peace and prosperity for people and the planet’.² Specifically, SDG 3 called on Member States to ensure healthy lives and promote well-being for all at all ages through the ‘achieve(ment) of universal health coverage (UHC), including financial risk protection (FRP), access to quality essential healthcare services and access to safe, effective, quality and affordable essential

medicines and vaccines for all' (target 3.8).² The countries' progress towards the UHC target through FRP is monitored using indicators 3.8.1 (coverage of essential health services among the general and most disadvantaged populations) and 3.8.2 (proportion of population with large household expenditures on health as a share of total household expenditure or income).²

The WHO 13th General Programme of Work (GPW13), which provides a framework for measuring progress towards the health-related SDG targets, specified a goal of one billion more people benefiting from UHC by the year 2023.³ However, despite notable progress towards UHC over the past 30 years, nearly 90 million people are pushed into extreme poverty due to healthcare expenditures each year,⁴ and only an estimated 389 million additional people will benefit from UHC by 2023, significantly undershooting the GPW13 target.⁵ While nearly all countries impose direct user payments for health services, this form of healthcare financing is especially predominant in low-income and middle-income countries (LMIC),^{6 7} and is more prohibitive to populations rendered socially and economically marginalised by systemic barriers in both LMIC and high-income countries (HIC).⁶ Indirect payments related to transportation and lost wages further increase the risk of financial catastrophe and exacerbate inequities.⁶

Bibliometric analyses suggest that the release of SDGs has stimulated considerable scholarly research on UHC, with nearly half of the studies published after 2015.⁸ Nonetheless, substantial debate remains on the conceptualisation of FRP as a dimension of UHC, the established metrics for measuring FRP and its absence, and the mechanisms for achieving UHC through FRP.^{9–12} These ambiguities complicate the decision-makers' ability to translate UHC from an aspirational objective into practical public policy.¹¹

Identifying research priorities through evidence synthesis is an important function of health policy and systems research that ensures alignment between evidence needs, research funding and research efforts.^{13–16} While some recent studies have outlined priority research gaps related to SDGs implementation,^{17 18} no studies have focused on research priorities related to the achievement of UHC through FRP. In this study, we performed a scoping overview of reviews (1) to synthesise the existing knowledge on FRP in the UHC context and (2) to identify evidence gaps to prioritise in future research on UHC.

METHODS

Study design and rationale

Since there is no single accepted methodology for identifying evidence gaps,¹⁵ our approach requires some justification. Overviews of literature reviews ('overviews'), where secondary studies are the unit of analysis, have been described as the preferred review methodology when the evidence base is vast and when policy-makers or decision-makers are the intended knowledge users.^{19 20} As

identifying inconsistent or insufficient evidence is already implicit in syntheses of primary studies,^{15 21} overviews are able to summarise this information as evidence gaps that are generalisable and applicable in future research.^{19 20} Although standardised recommendations for the conduct of overviews are not available, existing review methodologies for primary studies can be adapted.^{19 20 22} Scoping review methodologies are better suited to exploratory and descriptive objectives, such as mapping of the evidence and identification of key concepts, while systematic review methodologies have more narrow objectives that are explanatory or analytical in nature.²³ Consequently, scoping overviews of the academic literature have been frequently used for global health services and systems research agenda-setting.^{14 17 18 24}

In conducting this scoping overview, we used the five-step scoping review methodological framework by Arksey & O'Malley and Levac & Colquhoun.^{25–27} We adhered to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews reporting guidelines^{23 28} and were guided by a research protocol published prospectively on Open Science Framework.²⁹

Information sources and search strategy

The search strategy (see online supplemental file 1) was developed in consultation with a public health information specialist. We searched MEDLINE (Ovid), APA PsycINFO (Ovid), CINAHL-Plus (EBSCO) and PAIS Index (ProQuest) for English and French-language sources published between 1 January 1995 and 20 July 2021. This date cut-off was chosen because >97% of the literature on UHC was published after 1995,⁸ likely due to the adoption of the Millennium Development Goals (MDGs) in 2000, in which MDGs 1 and 4–7 expressed a need for universal access to treatment for select health issues.³⁰ We used pretested search filters to identify review articles.³¹ The search terms included controlled vocabulary and keywords for the concepts of (1) UHC, (2) FRP and (3) equity or impoverishment.³² We used a broad set of synonyms for each concept, as, for example, UHC-related terms have evolved over time and usage has varied between HIC ('universal healthcare') and LMIC ('UHC').^{10 12} To capture possible variation in FRP definitions, search concepts were combined using the following logic: (UHC AND FRP) OR (UHC AND equity). The bibliographic searches were supplemented by a review of forward and backward citations.³³

Study selection process

Search strategies were imported into a web-based systematic review management software, Covidence (www.covidence.org), to remove duplicate citations and perform citation screening against the predefined selection criteria (described in detail in online supplemental file 2). Studies were eligible if they (1) employed a literature review methodology (where an explicit methodology section was provided to confirm that a literature review was undertaken); (2) focused on the achievement of UHC through FRP; (3) were

written in English or French; (4) were published after 1995; (5) were an original peer-reviewed published work and (6) could be retrieved through the University of Toronto library. The selection criteria were first piloted on a sample of 100 citations by two independent reviewers (DB and SM). Citations were then screened in full by the two independent reviewers in two phases: (1) titles and abstracts and (2) full-text articles. The average Cohen's kappa was calculated to be 0.5, reflecting fair inter-rater agreement.³⁴ Conflicting votes at both screening phases were resolved through discussion with the research team.

Data extraction and synthesis

The data were extracted verbatim from the included articles. A data charting template was first piloted by two independent reviewers (DB and SM) on a random selection of 15 articles and discrepancies were discussed with the other coauthors. Data extraction on the remaining set of articles was divided between the two reviewers. Data items included publication information; study methodology; study objectives; descriptive characteristics; definitions of FRP (concepts, measurements and interventions); and evidence gaps. By 'FRP interventions', we broadly mean the implementation of policies, programmes, reforms and mechanisms aimed at reducing health-related financial burden among health system users. Evidence gaps were defined as research findings or propositions identified as insufficient and meriting further study by the research community (ie, authors of the included studies).¹⁵ Evidence gaps were retrieved from the results, discussion, and limitations sections of the included articles.

To address the first objective, we summarised what is currently known in the literature about FRP, including its conceptualisation, measurement and implementation as an intervention. To address the second objective, we performed a descriptive content analysis of the extracted data to describe and summarise the evidence gaps identified by the research community, classified as gaps related to the evidence base and to methodology. Similar to the approaches taken by other studies on research priority-setting in global health,^{17 18 24} this information was framed more broadly to enable applicability to multiple contexts and research topics. Descriptive approaches to content analysis involve staying close to the data; consequently, this synthesis is more summative than interpretive, compared with other meta-aggregative approaches (eg, grounded theory or meta-ethnography).^{35 36} Descriptive synthesis is recommended for scoping reviews, as scoping reviews seek to describe the state of the literature.²³

Patient and public involvement

No patients or members of the public were involved in this study.

RESULTS

Following the review of 2902 records and handsearching, 50 peer-reviewed articles were included (figure 1), with their characteristics presented in tables 1 and 2. Publication years ranged from 2010 to 2021, with most papers

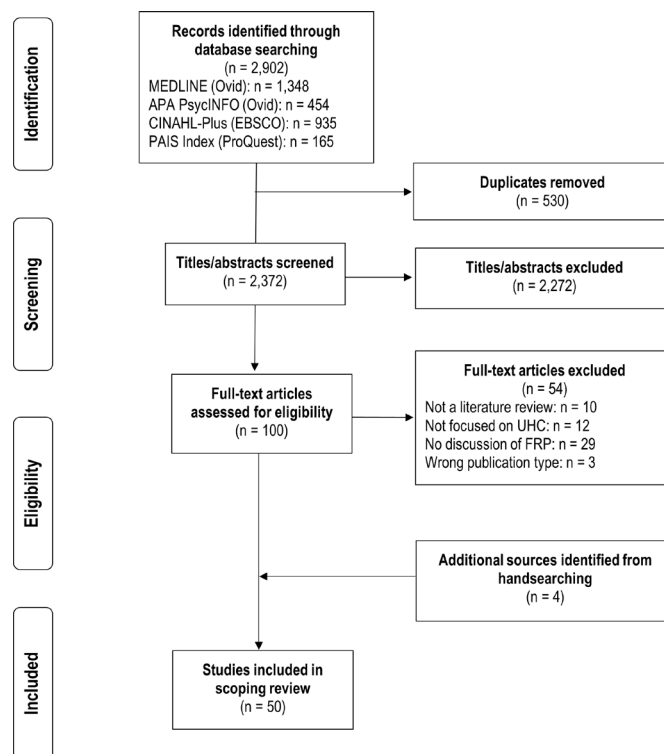


Figure 1 Study selection flow chart.

(n=39, 78%) published between 2015 and 2021 and study periods covering 1990 and 2020. Most study designs were systematic reviews (n=34, 68%), followed by narrative reviews (n=4, 8%), and review-based comparative analyses (n=4, 8%). Among the geographical regions covered by the included reviews, 62% considered countries in the African region, 56% in the South-East Asian region, 54% Western-Pacific region, 44% in the Pan-American region, 24% in the European region, and 8% in the Eastern-Mediterranean region. Over half the studies (n=30, 60%) included two or more world regions. Nearly three-quarters (n=36, 72%) of the reviews focused on LMIC, one review (2%) focused on HIC, and 12 (24%) considered both LMIC and HIC. Fifteen studies (30%) focused on FRP in specific populations, including women and children, low-income groups, individuals with multimorbidity, those with mental health issues, and surgical, cancer and tuberculosis patients.

What is known in the literature about FRP?

FRP as a concept

Twenty-six (52%) studies defined FRP as a concept,^{37–62} with 23 (46%) studies specifically referring to FRP as a necessary step to achieving UHC.^{37–46 49–51 53–62} Some studies suggested that FRP is achieved when households are able to use safe, effective and high-quality health services, without sacrificing other necessities for well-being, such as nutrition.^{37–39 45 49 51 53 54} Others considered FRP more narrowly as a means of reducing illness-related expenditures.^{40–42 48 52 57–60} This includes the concept of 'financial toxicity', which describes the distress and financial hardship experienced by patients and their caregivers

Table 1 Characteristics of the included studies

| Study | Study design | Resource level | Geographical regions | FRP defined? | FRP interventions | FRP measures | Number of studies | Number of databases | Study period |
|-------------------------------|--------------|----------------|--------------------------|--------------|-------------------|----------------|-----------------------|-------------------------|--------------|
| Acharya 2012 ⁷⁰ | SR | LMIC | AFR, EUR, PAR, SEAR, WPR | No | PA | CHE, OOPE | 24 | ten academic, 3 grey | ≤2010 |
| Adebayo 2015 ⁷⁵ | SR | LMIC | AFR, PAR, SEAR, WPR | No | EC | OOPE | 25 | 17 | 2003–2013 |
| Angell 2019 ⁶⁹ | SR, Delphi | HIC, LMIC | SEAR, WPR | No | PA | CHE, OOPE | 31 studies, 10 grey | three academic, 14 grey | 2008–2018 |
| Aragão 2021 ⁸⁰ | SR | LMIC | AFR, PAR, SEAR | No | EC, FI | NS | 9 | 5 | ≤2019 |
| Artignan 2021 ⁴⁷ | RR | LMIC | AFR | Yes | PA | NS | 16 | 3 | ≤2019 |
| Bazyar 2021 ⁷¹ | CA | HIC, LMIC | EUR, SEAR, WPR | No | PA | NS | NS | three academic, 3 grey | ≤2020 |
| Bellows 2013 ⁸³ | NR | LMIC | AFR, EMR, EUR, WPR | No | FI | NS | 28 voucher programmes | NS | 1995–2011 |
| Bhanvadia 2021 ⁴⁸ | SR | HIC, LMIC | EUR, PAR, WPR | Yes | NS | OOPE | 23 | 5 | ≤2020 |
| Bright 2017 ³⁸ | SR | LMIC | AFR, PAR, SEAR, WPR | Yes | FI | NS | 57 | 4 | ≤2015 |
| Bucagu 2012 ⁷⁸ | SR | LMIC | AFR | No | EC | CHE | 14 | 1 | 2005–2011 |
| Christmals 2020 ⁷⁴ | ScR | LMIC | AFR | No | PA | NS | 77 | 5 | 2003–2018 |
| Comfort 2013 ⁵⁸ | SR | LMIC | AFR, EUR, PAR, SEAR, WPR | Yes | EC, FI | NS | 29 | NS | 1997–2012 |
| Docrat 2020 ⁸⁵ | SR | LMIC | AFR, PAR, SEAR, WPR | No | EC | OOPE | 18 | 9 | ≤2018 |
| Doshmangir 2020 ⁴⁹ | MA | LMIC | EMR | Yes | NS | CHE | 53 | 6 | ≤2019 |
| Erlangga 2019 ⁶⁵ | SR | LMIC | AFR, PAR, SEAR, WPR | No | EC | CHE, IHE, OOPE | 68 | five academic, 3 grey | 2010–2016 |
| Fadlallah 2018 ⁴¹ | SR | LMIC | AFR, PAR, SEAR, EUR, WPR | Yes | EC | OOPE | 51 | 6 | 1992–2015 |
| Grainger 2014 ⁸⁴ | NR | LMIC | AFR, PAR, SEAR, WPR | No | FI | NS | 40 voucher programmes | NS | ≤2011 |
| Hunter 2017 ⁸² | SR | LMIC | AFR, PAR, SEAR, WPR | No | FI | OOPE | 98 | 19 | 1990–2015 |
| Hussien 2021 ⁵⁰ | SR | LMIC | AFR, SEAR | Yes | PA | CHE, IHE, OOPE | 27 | three academic, 1 grey | 2005–2020 |
| Ifeagwu 2021 ⁵¹ | SR | LMIC | AFR | Yes | PA | CHE, IHE, OOPE | 39 | 7 | 2005–2019 |

Continued

Table 1 Continued

| Study | Study design | Resource level | Geographical regions | FRP defined? | FRP interventions | FRP measures | Number of studies | Number of databases | Study period |
|--------------------------------|--------------|----------------|--------------------------|--------------|-------------------|----------------|-------------------|------------------------|--------------|
| Izzanie 2019 ⁷² | SR | LMIC | SEAR, WPR | No | EC | CHE, IHE, OOPE | 13 | 4 | 1993–2017 |
| Koch 2017 ⁴⁵ | SR | LMIC | PAR | Yes | EC | CHE, IHE, OOPE | 16 | 3 | 2008–2015 |
| Lagomarsino 2012 ⁴⁶ | CA | LMIC | AFR, SEAR, WPR | Yes | EC, FI, PA | IHE, OOPE | NS | 3 | NS |
| Longo 2020 ⁵² | SR | HIC, LMIC | EUR, PAR, WPR | Yes | NS | OOPE | 32 | 6 | 2005–2019 |
| Mathauer 2019 ⁸⁸ | CA | NS | NS | No | PA | OOPE | NS | 2 | NS |
| Meng 2011 ⁸¹ | SR | HIC, LMIC | AFR, PAR, SEAR, WPR | No | EC | NS | 86 | 45 | 1995–2007 |
| Motaze 2021 ⁵³ | CR | HIC | PAR | Yes | PA | CHE, OOPE | 7 | seven academic, 9 grey | ≤2019 |
| Myint 2019 ⁶³ | SR | HIC, LMIC | SEAR, WPR | No | PA | CHE, OOPE | 77 | 2 | 2010–2017 |
| Njagi 2018 ⁴⁴ | ScR | LMIC | AFR | Yes | NS | CHE, IHE | 34 | 5 | 2006–2017 |
| Odeyemi 2014 ⁷⁶ | SR | LMIC | AFR | No | EC | CHE | 26 | 2 | 2003–2012 |
| Odeyemi 2013 ⁶⁴ | CA | LMIC | AFR | No | EC | OOPE | 16 | 3 | 2000–2012 |
| Odoch 2021 ⁵⁴ | ScR | HIC, LMIC | AFR, EMR, SEAR, WPR | Yes | PA, EC | CHE, IHE, OOPE | 12 | 5 | 2012–2020 |
| Okedo-Alex 2019 ⁶¹ | SR | LMIC | AFR | Yes | EC | CHE | 20 | 5 | 2003–2018 |
| Ökem 2015 ⁶⁰ | SR | LMIC | EUR | Yes | EC | OOPE | 76 | ≥10 | 2000–2012 |
| Okoroh 2018 ⁵⁷ | SR | LMIC | AFR | Yes | EC | CHE, OOPE | 7 | 6 | 2003–2017 |
| Platt 2021 ⁵⁵ | SR | LMIC | AFR, PAR, SEAR | Yes | NS | CHE, OOPE | 31 | 2 | ≤2019 |
| Prinja 2017 ⁸⁶ | SR | LMIC | SEAR | No | EC | CHE, OOPE | 14 | 4 | 2005–2015 |
| Ravindran 2020 ⁵⁶ | NR | LMIC | AFR, PAR, SEAR, WPR | Yes | PA, EC, FI | OOPE | 253 | two academic, 7 grey | 2010–2019 |
| Rezaei 2019 ⁶² | MA | LMIC | EMR | Yes | NS | CHE | 24 | 6 | 2001–2015 |
| Salmi 2017 ⁷⁹ | SR, survey | HIC, LMIC | EUR | No | EC | NS | 108 | 4 | 2000–2010 |
| Sanogo 2019 ⁷⁷ | SR | LMIC | AFR, EUR, PAR, SEAR, WPR | No | EC | NS | 12 | 4 | 2005–2018 |
| Spaan 2012 ⁷³ | SR | LMIC | AFR, SEAR, WPR | No | PA | NS | 159 | 19 | ≤2011 |
| Sum 2018 ⁴³ | SR | HIC, LMIC | PAR, SEAR, WPR | Yes | NS | OOPE | 14 | 5 | 2000–2016 |

Continued

Table 1 Continued

| Study | Study design | Resource level | Geographical regions | FRP defined? | FRP interventions | FRP measures | Number of studies | Number of databases | Study period |
|-------------------------------|--------------|----------------|----------------------|--------------|-------------------|----------------|-------------------|------------------------|--------------|
| Uzochukwu 2015 ⁴² | SR | LMIC | AFR | Yes | PA | IHE, OOPE | NS | 6 | 2009–2014 |
| Vaidya 2021 ⁶⁶ | SR | HIC, LMIC | EUR, PAR, SEAR | No | PA | CHE, OOPE | 50 | three academic, 4 grey | 2000–2019 |
| van Hees 2019 ⁴⁰ | SR | LMIC | AFR, PAR, SEAR, WPR | Yes | EC | CHE | 44 | 11 | 1995–2018 |
| van Minh 2014 ⁵⁹ | NR | HIC, LMIC | SEAR, WPR | Yes | NS | CHE, IHE, OOPE | NS | 8 | 1995–2017 |
| Wiysonge 2017 ³⁷ | CR | LMIC | AFR, PAR, SEAR, WPR | Yes | FI, PA | CHE, OOPE | 15 | 20 | 2005–2016 |
| Wu 2020 ⁶⁷ | SR | LMIC | WPR | No | PA, EC | CHE, OOPE | 44 | 3 | 2000–2018 |
| Yerramilli 2018 ³⁹ | SR | HIC, LMIC | EUR | Yes | NS | CHE, IHE, OOPE | 54 | 4 | 1990–2017 |

Country resource level was self-identified by studies or assigned based on the 2020 World Bank country resource level classification. Geographical regions were assigned according to the World Health Organization country region classification.

AFR, African region; CA, comparative analysis; CHE, catastrophic health expenditure; CR, Cochrane review; EC, expanding coverage; EMR, Eastern Mediterranean region; EUR, European region; FI, financial incentives; FRP, financial risk protection; IHE, high-income countries; LMIC, low-income and middle-income countries; MA, meta-analysis; NR, narrative review; NS, not specified; OOPE, out-of-pocket expenditures; PA, pooling arrangements; PAR, Pan American region; RR, rapid review; ScR, scoping review; SEAR, South East Asian region; SR, systematic review; WPR, Western Pacific region.

Table 2 Summary of the characteristics of the included studies

| Study characteristic | Number of studies (N=50) | References |
|------------------------------|--------------------------|---|
| Publication year | | |
| 1995–1999 | 0 (0%) | – |
| 2000–2004 | 0 (0%) | – |
| 2005–2009 | 0 (0%) | – |
| 2010–2014 | 11 (22%) | 46 58 59 64 70 73 76 78 81 83 84 |
| ≥2015 | 39 (78%) | 37–45 47–57 60–63 65–69 71 72 74 75 77 79 80 82 85 86 |
| Study period* | | |
| 1990–1994 | 16 (32%) | 38 39 41 47–49 53 55 70–73 80 82 84 85 |
| 1995–1999 | 21 (42%) | 38–41 47–49 53 55 58 59 70–73 80–85 |
| 2000–2004 | 33 (66%) | 38–41 43 47–49 53 55 57–62 64 66 67 70–76 79–85 |
| 2005–2009 | 43 (86%) | 37–45 47–53 55 57–62 64 66 67 69–86 |
| 2010–2020 | 48 (96%) | 37–45 47–67 69–86 |
| Not specified | 2 (4%) | 46 68 |
| Resource level | | |
| LMIC | 36 (72%) | 37 38 40–42 44–47 49–51 55–58 60–62 64 65 67 70 72–78 80 82–86 |
| HIC | 1 (2%) | 53 |
| HIC and LMIC | 12 (24%) | 39 43 48 52 54 59 63 66 69 71 79 81 |
| Not specified | 1 (2%) | 68 |
| Geographical regions* | | |
| African region | 31 (62%) | 37 38 40–42 44 46 47 50 51 54–58 61 64 65 70 73–78 80–85 |
| European region | 12 (24%) | 39 41 48 52 58 60 66 70 71 77 79 83 |
| Eastern-Mediterranean region | 4 (8%) | 49 54 62 83 |
| South-East Asian region | 28 (56%) | 37 38 40 41 43 46 50 54–56 58 59 63 65 66 69–73 75 77 80–82 84–86 |
| Western-Pacific region | 27 (54%) | 37 38 40 41 43 46 48 52 54 56 58 59 63 65 67 69–73 75 77 81–85 |
| Pan-American region | 22 (44%) | 37 38 40 41 43 45 48 52 53 55 56 58 65 66 70 75 77 80–82 84 85 |
| ≥2 world regions | 30 (60%) | 37 38 40 41 43 46 48 50 52 54–56 58 59 63 65 66 69–73 75 77 80–85 |
| Not specified | 1 (2%) | 68 |
| Study design | | |
| Systematic review | 34 (68%) | 38–43 45 48 50–52 55 57 58 60 61 63 65–67 69 70 72 73 75–82 85 86 |
| Comparative analysis | 4 (8%) | 46 64 68 71 |
| Narrative review | 4 (8%) | 56 59 83 84 |
| Scoping review | 3 (6%) | 44 54 74 |
| Meta-analysis | 2 (4%) | 49 62 |
| Cochrane review | 2 (4%) | 37 53 |
| Rapid review | 1 (2%) | 47 |
| Target population | | |
| Women and children | 5 (10%) | 38 56 58 78 83 |
| Low-income groups | 4 (8%) | 40 76 77 81 |
| Cancer | 2 (4%) | 48 52 |
| Multimorbidity | 1 (2%) | 43 |
| Mental health | 1 (2%) | 85 |
| Tuberculosis | 1 (2%) | 80 |
| Surgery | 1 (2%) | 55 |

Continued

Table 2 Continued

| Study characteristic | Number of studies (N=50) | References |
|--|--------------------------|--|
| Studies with concept definitions* | | |
| Defined universal health coverage | 31 (62%) | 37 38 40–42 45 46 49–51 53–59 61–65 67 68 72 75 77 83–86 |
| Defined financial risk protection | 26 (52%) | 37–62 |
| Defined equity | 14 (28%) | 39 40 43 45 57 63 64 66 69 72 77 79 81 84 |
| Financial risk protection measures* | | |
| Out-of-pocket expenditures | 31 (62%) | 37 39 41–43 45 46 48 50–57 59 60 63–70 72 75 82 85 86 |
| Catastrophic health expenditures | 25 (50%) | 37 39 40 44 45 49–51 53–55 57 59 61–63 65–67 69 70 72 76 78 86 |
| Impoverishing health expenditures | 11 (22%) | 39 42 44–46 50 51 54 59 65 72 |
| Financial risk protection interventions* | | |
| Pooling arrangements | 18 (36%) | 37 42 46 47 50 51 53 54 56 63 66–71 73 74 |
| Expanding insurance coverage | 23 (46%) | 40 41 45 46 54 56–58 60 61 64 65 67 72 75–81 85 86 |
| Financial incentives | 9 (18%) | 37 38 46 56 58 80 82–84 |

Country resource level was self-identified by studies or assigned based on the 2020 World Bank country resource level classification. Geographical regions were assigned according to the World Health Organization country region classification.

*Overlapping categories.

HIC, high-income countries; LMIC, low-income and middle-income countries.

following a cancer diagnosis.^{48 52} Studies further suggested that a lack of FRP may exacerbate health and socioeconomic inequities by reducing access to health services and discouraging or delaying care-seeking.^{39 47 50 56}

FRP as a measure

Thirty-eight studies (76%) used one or more of the following FRP measures: (1) out-of-pocket expenditures (OOPE) (n=31, 62%), (2) catastrophic health expenditures (CHE) (n=25, 50%) and (3) impoverishing health expenditures (IHE) (n=11, 22%), with 21 (42%) studies mentioning at least two measures, and eight (16%) considering all three. These measures may be calculated for all health-related expenditures or for specific categories of services, such as chronic disease, infectious disease or maternal health.^{44 48 52 55} As CHE and IHE are measured against thresholds, some studies may also calculate the mean positive overshoot of the threshold to quantify the intensity of financial hardship.^{44 45 61}

Out-of-pocket expenditures

OOPE include payments, not reimbursed by insurance, made by individuals or households to meet health-related needs.^{39 46 53 56 57 63 64} Direct payments include health service costs and indirect payments may include transportation costs and losses in productivity or income when accessing health services.^{39 48 52 55 57 63 64} OOPE indicators may be measured as changes in spending due to illness^{46 53 55 65}; as the proportion of annual wages or disposable income⁴³; or as a proportion of the ability to pay, defined as basic need expenditures (with food often used as a proxy for basic needs).^{39 44 55 62} The occurrence of OOPE may reflect a low degree of FRP because even

small OOPE can cause financial hardship for poor households.^{39 56 66}

Catastrophic health expenditures

CHE was defined as excess spending on health that may cause financial catastrophe, measured as health-related OOPE in the numerator and total income or consumption (budget share method) or spending on basic needs (ability to pay method) in the denominator.^{39 44 45 49 57 62 65} Thresholds of 10%–25% are used for the budget share method (10% of total household expenditures or 20%–25% of total household income),^{39 45 49 55 57} and 25%–40% for the ability to pay method.^{39 49 53 55 57 61 62 67} Some studies use the normative food spending approach to define ability to pay, where a household's food-related expenditures are subtracted from total consumption and the remaining amount is used in the denominator to calculate CHE.^{39 45 49 53 57 62} An advantage of CHE indicators is that they can be calculated for all income groups; however, these indicators do not capture descent into poverty owed to healthcare expenditures.⁴⁵

Impoverishing health expenditures

To understand whether health needs push households into poverty, health-related OOPE may be measured against predefined poverty lines.^{39 44–46 59 61 65} Poverty lines represent the level at which the basic needs of life cannot be met.⁴⁵ Absolute poverty lines may be used, such as the World Bank international poverty line (currently, US\$1.90 per person per day)^{39 61} or national poverty lines based on the World Bank poverty assessment, food poverty (cost of minimum food requirements) or basic needs (cost of the basket of goods considered to satisfy basic biological

needs).³⁹ Relative thresholds may also be considered, calculated as household income over the national mean or median income.³⁹

FRP as an intervention

Among the included studies, the following interventions were employed to increase FRP in the population: (1) pooling arrangements (n=18, 36%), (2) expanding insurance coverage (including either the benefit package or the proportion of the population or costs covered) (n=23, 46%) and (3) implementing financial incentives (n=9, 18%).

Pooling arrangements

Risk pooling involves delinking health-related financial contributions from health risk by enabling lower-need (and by extension, healthier and/or wealthier) individuals to subsidise higher-need (and by extension, sicker and/or poorer) individuals.^{37 42 50 53 54 63 68–71} Consequently, health-related financial risk is spread to a pool of individuals, rather than being borne by a single person experiencing ill health.^{68 70 71} The design of pooling arrangements, including the source of funds and extent of government subsidisation; whether contributions are compulsory or voluntary; and the size, number and competitiveness of pools, affects the extent to which risk pooling is achieved.^{37 42 47 50 53 66 68 70 71} The pooling arrangements examined by the included studies comprised national or social health insurance (SHI; compulsory schemes operated by the state, which are publicly financed through taxation or social security schemes)^{37 46 51 56 66 69–74}; community-based health insurance (CBHI; voluntary schemes operated by non-profit and non-governmental insurers, in which insurers apply community-rated premiums)^{37 41 47 50 51 73 75 76}; and private health insurance (PHI; voluntary schemes operated by private for-profit insurers with little to no state involvement, in which insurers apply risk-rated premiums).^{37 51 53 66 67 72 73} PHI schemes can be further classified as complementary (covering residual OOPE, such as copayments, or additional health services, excluded from the state benefit package), supplementary (providing enhanced provider choice and access) or substitutional (providing coverage to those unable to receive state benefits).^{53 66–68}

Expanding insurance coverage

Several studies examined the effects of expanding the benefit package (ie, the health services covered by insurance schemes) and extending insurance coverage to a greater proportion of the population or health-care costs.^{45 46 54 56–58 60 61 64 67 76–80} Limited health service coverage may result in greater OOPE, thereby reducing FRP.^{46 57 60 61 80} Populations experiencing socioeconomic marginalisation may also be more vulnerable to increased OOPE due to barriers to insurance enrollment, such as premiums.^{40 67 78 81} While previously, many health benefits packages tended to prioritise coverage for low-probability, high-cost inpatient services, there has been increasing

recognition that outpatient chronic disease prevention and management, including prescription drugs, drive health-related OOPE.^{43 45 46}

Financial incentives

Financial incentives, including general and conditional cash transfers, vouchers, removal of user fees and other subsidies, seek to reduce financial barriers to specific health services and facilitate utilisation, adherence to short-term and long-term treatments, and health-promotive behaviours among health system users and targeted populations experiencing marginalisation.^{37 38 46 56 58 80 82–84}

Which evidence gaps remain in the literature on FRP?

Studies identified evidence gaps related to the effectiveness of FRP interventions, their equity implications, and their cost-effectiveness. The identified research evidence gaps are summarised in [table 3](#).

Evidence of effectiveness

Studies (n=27, 54%) recognised that implementation of FRP interventions should be informed by evidence of their effectiveness in relation to health service use, FRP, patient experiences and health status.

Impact on health service utilisation

Expansion of health insurance through SHI and CBHI had mixed effects on general health service use.^{37 46 65 70 73} Among reviews that considered the types of health services, SHI and CBHI were associated with increases in the use of antenatal^{47 58 70 74} and outpatient (including curative, disease management and preventive care)^{47 65 69 70 73 74} services, as well as increases in⁷³ or no association with inpatient service use.⁴⁷ The included reviews further noted that few studies examined the effects of PHI on health service use.^{37 73} In the USA and China, PHI was associated with increased use of preventive care,^{53 67} but was not associated with the use of inpatient or outpatient care.⁶⁷ Other reviews found that financial incentives may improve adherence to long-term but not short-term treatments.^{37 70} As countries are expanding coverage to outpatient chronic disease and mental healthcare and pharmaceuticals, several reviews noted that future studies should investigate whether this yields increased access to and utilisation of these services.^{37 45–47 85} It also remains unclear what proportion of the observed increases in utilisation may represent health service overuse, particularly for high-cost invasive procedures.^{58 70 82}

Impact on FRP

The impact of FRP interventions on measures of FRP, including OOPE, CHE and IHE, has been characterised as inconsistent.^{45 65 69 70 86} SHI, CBHI and financial incentives have been associated with reductions in OOPE in some reviews^{65 69 73 74 80 86} and no significant effect in others.^{65 70 86} Studies have provided the following suggestions for future research to clarify impacts: (1) investigating the specific health services that drive high OOPE^{39 45 55}; (2) the role

Table 3 Evidence gaps identified from the literature

| Category / Number of studies (N=50) | Specific evidence need | References |
|---|---|---|
| Evidence of effectiveness N=27 (54%) | Impact on health service utilisation ▶ Understand how pooling arrangements, expansion of insurance coverage, and financial incentives affect health service use overall and by specific health service types, including effects on both intended and unintended outcomes (eg, incentivising inappropriate overutilisation or underutilisation of services) | 37 46–48 53 54 56 58 65 69–71 73 82 85 |
| | Impact on FRP ▶ Understand how pooling arrangements, expansion of insurance coverage, and financial incentives affect OOPE, CHE and IHE ▶ Understand how pooling arrangements, expansion of insurance coverage and financial incentives affect OOPE, CHE and IHE related to specific health services, chronic health conditions and multimorbidity, non-medical services, or spending on premiums and entry fees into insurance schemes | 39 43–45 48 51 52 55–57 65 69 70 73 86 |
| | Impact on experience of care ▶ Understand how pooling arrangements, expansion of insurance coverage, and financial incentives affect people's experiences with the healthcare system | 57 77 84 |
| | Impact on health status ▶ Understand how pooling arrangements, expansion of insurance coverage, and financial incentives affect population health outcomes, including morbidity, mortality, disability, and measures of utility (eg, QALYs, DALYs) | 37 58 65 69 70 73 83 84 |
| Equity considerations N=13 (26%) | Stratification of FRP intervention coverage ▶ Consider what proportion of the population covered or served by FRP interventions is experiencing socioeconomic marginalisation | 46 47 67 70 73 84 |
| | Stratification of FRP indicators and other outcomes ▶ Consider the distribution of OOPE, CHE and IHE across groups experiencing socioeconomic marginalisation to understand whether FRP intervention efforts have equitable impacts on FRP ▶ Consider stratification of health service utilisation, experience of care and health status across groups experiencing socioeconomic marginalisation to understand whether FRP intervention efforts have equitable impacts on other outcomes | 37–40 44 47 70 73 79 85 |
| Evidence of cost-effectiveness N=9 (18%) | Estimating resource requirements and input costs ▶ Estimate start-up, operating and scale-up costs of FRP interventions using standard methods to enable comparability | 57 69 82 83 |
| | Mobilising and managing resources ▶ Identify optimal strategies to mobilise resources and finance FRP interventions ▶ Identify optimal strategies to manage resources once FRP interventions are funded | 42 46 69 |
| | Establishing cost-effectiveness ▶ Estimate changes in health service utilisation, FRP, experience of care or health status relative to FRP intervention resource needs ▶ Compare cost-effectiveness between FRP interventions | 38 51 69 82–84 |

CHE, catastrophic health expenditures; DALYs, disability-adjusted life-years; FRP, financial risk protection; IHE, impoverishing health expenditures; OOPE, out-of-pocket expenditures; QALYs, quality-adjusted life-years; UHC, universal health coverage.

of chronic illness and multimorbidity in driving high OOPE^{43 44 48}; (3) the role of non-medical services, such as transportation and food, in exacerbating health-related OOPE^{44 48 55 57} and (4) whether the cost of premiums or entry fees into insurance schemes (which are presently not included in health-related OOPE calculations) affect FRP.⁷⁰

Impact on experience of care

Reviews suggested the need to monitor patient experiences and perceptions of care, as these outcomes are relevant to care-seeking but are not typically considered among FRP intervention impact evaluations.^{57 77 84} In one review that reported on this outcome, enrollment in

SHI was associated with the perception that care is more affordable, compared with uninsured individuals.⁷⁴

Impact on health status

Several reviews noted that population health outcomes, including morbidity, mortality, disability or health utility measures (quality-adjusted life-years or disability-adjusted life-years) should be considered in FRP impact evaluations.^{37 58 65 69 83 84} Among reviews that evaluated health outcomes, FRP interventions were associated with improvements in tuberculosis treatment rates and perinatal maternal and infant outcomes in some reviews^{74 80} and were not significantly associated with perinatal infant outcomes and general health status in others.^{37 70 73 74}

Health outcomes may also be tailored to target populations and health system contexts. For example, the impact of maternal and neonatal FRP interventions may be measured by stratifying maternal and neonatal health status by home-based and facility-based deliveries, as FRP interventions may lead to more facility-based deliveries.^{58 83}

Equity considerations

Studies noted that evaluations of effectiveness should assess whether FRP intervention impacts are equitable (n=13, 26%). Specifically, studies recommended stratifying (1) FRP intervention coverage and (2) FRP indicators and other outcomes across subgroups experiencing marginalisation. Poverty, chronic illness and older age were observed to be the most frequent strata reported by primary studies,^{39 40 42 43 45 85} possibly because these subgroups are more readily identifiable in most data sources.⁴⁰ Several reviews have suggested considering additional subgroups for stratification, including area of residence, gender, citizenship/migration status, ethnicity, employment status, homelessness and institutionalisation^{39 40 42 43 45 85}; however, these facets of marginalisation remain more challenging to operationalise due to variation in political and cultural contexts.⁴⁰

Stratification of FRP intervention coverage

Reviews suggested monitoring new enrollees in FRP interventions and estimating what proportion of the population covered was part of a marginalised group, as overall enrollment estimates may mask inequities in coverage among marginalised populations.^{46 47 70 73 84} For instance, fewer PHI selling agencies, lower availability of PHI information and poor access to healthcare providers in rural and low-income areas may underlie disparities in PHI enrollment.⁴⁷ Others have suggested that while affordable premiums may support CBHI enrollment among poorer segments of the population, higher copayments may discourage care seeking, resulting in poorer households subsidising wealthier enrollees.⁴⁷ Disparities in coverage may further exacerbate inequities in downstream outcomes (eg, OOPE or health status).^{46 70 73 84}

Stratification of FRP intervention impacts

The included reviews observed a need to collect and analyse disaggregated OOPE, CHE or IHE data to investigate whether FRP interventions reduce inequities in health-related expenditures among subgroups experiencing marginalisation, compared with the general population.^{37–39 45 47 79 85} Interestingly, among reviews that identified studies with disaggregated data, high expenditures persisted among individuals with chronic illnesses, older adults and individuals with disabilities.^{40 44}

As it is hypothesised that removing financial barriers to healthcare would improve population health, reviews highlighted a need to also disaggregate intervention impacts across other outcomes, including health service utilisation and health status.^{70 73 79 85} Among reviews that

identified studies that disaggregated health service utilisation, CBHI has been associated with more equitable need-based healthcare use across income quartiles, compared with those who were uninsured.^{47 73} SHI has been associated with greater health service use among low-income groups, though differences remained in the use of public versus private healthcare facilities.^{51 73} PHI has shown mixed effects on cancer screening uptake in the US across race-based subgroups,⁵³ while in China, PHI has been associated with greater healthcare utilisation only among urban residents.⁶⁷

Evidence of cost-effectiveness

In addition to demonstrating effectiveness, studies (n=9, 18%) noted that cost-effectiveness of FRP interventions should be considered, given its relevance to decision-makers. This involves gaining a comprehensive understanding of intervention resource requirements, resource management and comparative cost-effectiveness.

Estimating resource requirements and input costs

Studies highlighted the need to estimate start-up,^{57 82} operating^{82 83} and scale-up^{69 83} costs of FRP interventions to ensure adequate coverage of the target population and to inform intervention sustainability. This includes standardising intervention costing approaches to enable robust comparisons.^{57 83}

Mobilising and managing resources

Other key evidence gaps related to articulating clear approaches to mobilising resources to meet the needs of FRP interventions; determining optimal intervention financing models, including the roles of governments and other payers; and understanding how to best manage resources once programmes are funded.^{42 69 73}

Establishing comparative cost-effectiveness

Cost-effectiveness includes a broad class of analyses that seek to estimate the benefit of programmes, such as improvements in health status or changes in health service use, relative to their resource inputs.^{38 51 83 84} In addition to estimating the cost-effectiveness of individual FRP interventions, researchers should consider how cost-effective programmes are relative to alternative programmes seeking to achieve the same impacts.^{69 82 83}

Which methodological gaps remain in the literature on FRP?

A number of methodological issues should be considered when designing studies to address the identified evidence gaps. A concept map outlining the evidence gaps and methodological considerations is presented in [figure 2](#).

Country focus

Researchers should consider the trade-offs of performing single-country versus multicountry analyses. While multicountry studies provide a snapshot of a large body of evidence, these analyses tend to lack depth in terms of time-trends and contextual features within and outside of the healthcare system.^{39 40} In addition, countries may be

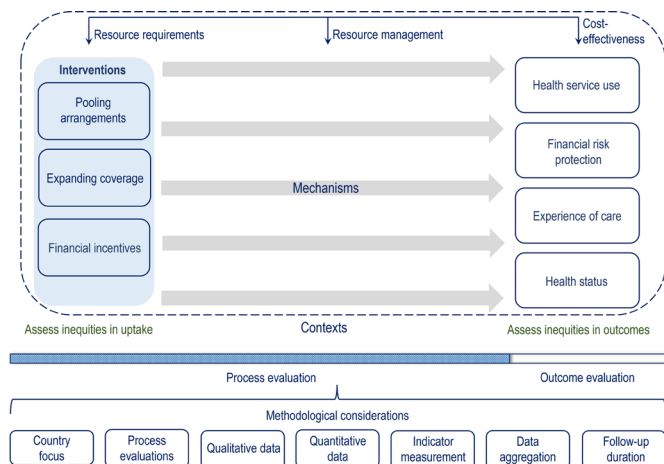


Figure 2 Concept map of financial risk protection interventions, impacts, evidence gaps and methodological considerations.

unequally represented in multicountry reviews, leading to biased conclusions.^{39 41 50 69 73 81} On the other hand, although findings from single-country case studies may not be generalisable to other settings,^{39 51 61 62 77} they may provide more detailed contextual information.^{39 46 73} Multijurisdictional case-studies and health system comparative research may provide an opportunity to capitalise on the strengths of both approaches.^{39 54 66}

Process evaluations

Despite the widespread political commitment to UHC through FRP, studies noted that implementation of these aims has been suboptimal and there remains a lack of understanding of how contextual factors, including the political environment, social welfare policies, culture, population size and characteristics, historical investment in the healthcare system, economic growth and the number of payers (eg, government, private and users), may facilitate or hinder financing, implementing, operating and scaling up of FRP interventions.^{39 40 46 47 59 69 73} More research is also needed to elucidate how implementation of new FRP interventions, such as CBHI or incentive-based programmes, could complement the existing health financing arrangements to progress towards UHC.^{41 67} In addition to implementation issues, studies highlighted the current limited understanding of the reasons why FRP interventions do not achieve their intended impacts after implementation.^{47 65} This is especially relevant when considering the failures of some FRP interventions to reduce inequities in coverage; incurred OOPe, CHE and IHE; and poor health outcomes among marginalised segments of the population.^{60 63 72}

Process evaluation could address explanatory research questions related to how contexts affect the implementation and success of FRP interventions.^{47 54 56 86} Realist evaluation methods may be particularly well-suited to addressing such aims, as realist evaluation seeks to identify context-mechanism-outcome configurations that describe what works, for whom and in which

circumstances.^{40 56} Finally, two reviews noted that it is unclear whether FRP programmes and their evaluations are informed by specific conceptual frameworks or theories of change.^{38 79} Consensus should also be reached regarding the relevant process indicators to enable process evaluation comparability.⁸⁶

Qualitative data

Reviews acknowledged the limited availability of qualitative evidence, including key stakeholder perspectives.^{40 54 65 86} Qualitative data can support process and realist evaluations by illuminating how implementation issues, contexts and mechanisms of change may influence the intervention–outcome associations observed in the quantitative data, including inequitable impacts.^{40 54 65 69} Hunter and Murray⁸² also cautioned that many studies with qualitative components tend to be situated within large mixed-methods evaluations, in which more attention is devoted to reporting the quantitative findings.⁸² Future qualitative and mixed-methods studies should thus provide more thorough descriptions of and rationale for the chosen data collection and analytical methods, as well as reflections on the role of the researcher in generating the results.⁸²

Quantitative data

Poorly controlled observational study designs—particularly, self-reported cross-sectional household surveys—are abundant in the evidence base.^{38 40 43 45 47 48 57 58 65 70 72 73 75 81–83} This limits the ability to make causal inferences about FRP interventions and leaves the possibility of residual confounding related to population and health system factors.^{41 57 82 83} While the use of randomised controlled trials may clarify intervention impacts,^{53 58 65} using such study designs to evaluate government reforms or SHI schemes may not be feasible or ethical, compared with evaluating CBHI or incentive-based interventions.^{38 65} Future studies may consider alternative designs, such as well-controlled quasi-experimental studies, to evaluate programmes.^{52 53 56 70 81} Further, since countries may employ multiple complex interventions to implement FRP, studies may need to evaluate combinations of interventions over individual programmes.^{67 81}

Indicator measurement

Reviews note that many studies focus on the incidence of OOPe or CHE, but few consider IHE.^{39 44} The number of households estimated to be experiencing CHE or IHE is also contingent on the choice of thresholds, which has implications for analyses related to the equity of FRP intervention impacts.^{39 44–46} For instance, IHE measures are affected by poverty lines, and while international poverty lines may be more suitable for comparative studies, they may result in less sensitive indicators for HIC and some middle-income countries.^{39 44} Using national poverty lines may overcome this issue, but hinder international comparisons.³⁹ In regard to CHE, studies have shown that the budget share method tends to find that health-related

financial hardship is concentrated among wealthier households.³⁹ As such, ability to pay approaches for estimating CHE have been recommended, particularly when considering equity in the analysis.³⁹ One review recommended that costs should be consistently converted to US dollars to improve comparability.⁵⁵ Two reviews also noted a lack of validated disease-specific measures of financial risk, such as cancer-related financial toxicity, which limits comparability.^{48 52}

Data aggregation

Meta-analyses could not be performed in many quantitative reviews.^{40 50 57 58 62 65 67 79 80} Robust inferences also could not be drawn due to different data sources,^{44 57} different data scope (eg, national versus targeted population surveys),⁴⁴ different recall periods,⁵⁷ unclear documentation of data collection processes,^{39 45 57} and lack of standardisation in data collection and outcome measures across survey cycles and countries.^{39 45 50} In some countries, the wait period to receive insurance coverage for new enrollees or migrants may also result in information bias due to misclassification, as this wait period would effectively render these groups uninsured and expose them to higher healthcare expenditures.⁵⁷ Finally, it is unclear how the data collected for purposes other than FRP assessment, such as administrative data, may affect estimates of incurred costs.⁴⁴

Follow-up duration

Most quantitative studies were conducted early in FRP intervention implementation, particularly those evaluating programme pilots.^{39 44 59 72 82 83} This may, in part, explain the aforementioned evidence gaps related to evaluations of impact on health status and equity, as well as the lack of clarity regarding long-term trends in FRP indicators, such as OOPE, CHE or IHE.^{44 59 83} Future studies should consider using longitudinal and panel data to provide sufficient variation to analyse FRP intervention impacts over time.^{39 44 45 47 48 59 72}

DISCUSSION

In this scoping overview of 50 academic literature reviews, we described the current state of knowledge on FRP in the UHC context and evidence gaps that should be prioritised in future research. We found that although FRP is recognised as a necessary dimension for achieving UHC, it remains unclear whether interventions increase FRP and optimise health service utilisation, experience of care and health status. The lack of disaggregated information across measures of social marginalisation may further explain the limited understanding regarding how to equitably increase FRP among subgroups at greatest risk of poor health and its financial consequences. Finally, there is little evidence regarding the resources required to implement and sustain FRP interventions and regarding their cost-effectiveness. These evidence gaps are further compounded by methodological challenges.

Interpretation and future directions

Previous work has suggested that the theory of change for SDG 3 has some limitations, as not all input, process and impact indicators align.⁸⁷ This included an omission of impact indicators for FRP (where impacts are defined as long-term changes occurring in communities or systems as a result of FRP),⁸⁷ which may explain the limited evidence of effectiveness of FRP interventions in relation to health service utilisation, experience of care and health status, in addition to financial risk. Reliance on cross-sectional self-reported household surveys in LMIC may partially underpin some methodological issues, such as the lack of longitudinal follow-up and poor interjurisdictional comparability, and contribute to the inconclusiveness of existing effectiveness evaluations.^{9 88–90} Furthermore, the problem of unmeasured confounding persists even among well-designed observational studies, limiting causal interpretations.⁹¹ The growing use of routine health information systems (RHIS) for research in LMIC may present an opportunity to conduct higher-quality FRP intervention evaluations.^{45 92} For instance, RHIS data have been successfully used to support longitudinal programme impact evaluations in relation to health service use and disease-related outcomes using time series and difference-in-difference designs (though it should be noted that RHIS may not provide information on FRP metrics like household OOPE, CHE and IHE).⁹² In addition, ambiguities in the quantitative evidence of effectiveness of FRP interventions may be owed to the inherent complexities of implementing and evaluating public health interventions within dynamic settings,⁹³ rather than a limited evidence base. As such, our findings suggest that process evaluations using qualitative and mixed methods should accompany impact evaluations to elucidate FRP mechanisms of action across different health system contexts and population subgroups.⁹⁴

Inconsistencies in concept definitions may underlie methodological issues. While there is general agreement on the importance of UHC, interpretations of the concepts of universality, health, and coverage vary in breadth, affecting the scope of FRP interventions and the choice of indicators used to monitor progress.^{10 11 95} The common indicators of FRP—OOPE, CHE and IHE—may also not sufficiently capture the FRP concept, as these measures rely on healthcare utilisation and do not account for individuals deterred from care-seeking by financial barriers, those opting for lower-quality health services, and those resorting to borrowing or selling assets to afford health services.^{9 46 55 96} In addition, while equity has often been thought to be implicit in the goal of UHC and an assumed consequence of its achievement,^{11 97 98} there is increasing recognition that striving for health for all and reducing disparities are two separate aims, warranting the need to explicitly measure and monitor equity in UHC efforts (including FRP interventions) using disaggregated data.⁹⁷ Although there is no agreement on which stratifying variables should be selected when measuring inequities,⁹⁷ the reviews included in this

overview highlighted a need to disaggregate data across several social determinants of health (eg, area of residence and migration status), in addition to income status.

Strengths and limitations

We conducted the first scoping overview to identify research needs in the FRP knowledge base. A strength of our study is our use of systematic searching and evidence review methods. Several limitations should also be considered. First, we limited our search by language and publication dates. Relevant studies in languages other than English or French may thus have been missed. We believe our inclusion of evidence published after 1995 to be reasonable, as bibliometric analyses have shown that UHC publications began to increase after the adoption of MDGs in 2000,⁸ and the study periods of the included reviews spanned 1990 and 2020. Second, since our objective was to describe knowledge gaps within the academic evidence base, we relied on published peer-reviewed work, rather than grey literature. Third, we employed descriptive content analysis methods, which involve greater reliance on the original study authors' interpretations. Importantly, as performing a critical appraisal of the quality of the evidence is outside the scope of a scoping review,²³ we are unable to make robust conclusions regarding the evidence of intervention effectiveness.⁹⁹ The identified evidence gaps should be interpreted as a descriptive summary of research needs characterised by the authors of the included reviews, rather than our own inferences. Participatory approaches, such as Delphi panels and stakeholder interviews, should follow the present work in order to rank the identified research priorities and further develop the UHC research agenda.¹⁴ Fourth, while an advantage of overviews is their provision of an overall picture of a research field or phenomenon,²⁰ most of the included reviews were multicountry and/or multi-region studies with limited information on the sociopolitical, legal and fiscal contexts within which FRP efforts were undertaken. Fifth, while we did not select for specific literature review study designs, the over-representation of LMIC among the included studies may be owed to more evidence syntheses on UHC in these settings, but not necessarily a lack of primary studies in HIC.

CONCLUSION

This scoping overview of reviews summarised what is known about achieving UHC through FRP and found evidence gaps related to the effectiveness, cost-effectiveness and equity implications of FRP interventions. Theory-informed, high-quality mixed-methods research using longitudinal and disaggregated data is needed to address the identified gaps.

Twitter Erica Di Ruggiero @ed4socialchange

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Contributors DB: conceptualisation, methodology, data curation, investigation, formal analysis, writing-original draft, writing-review and editing, project administration. SM: conceptualisation, methodology, data curation, investigation, formal analysis, writing-original draft, writing-review and editing. AK: conceptualisation, methodology, writing-review and editing. BY: conceptualisation, methodology, writing-review and editing. SA: conceptualisation, methodology, resources, funding acquisition, supervision, writing-review and editing. EDR: conceptualisation, methodology, resources, funding acquisition, supervision, writing-review and editing. EDR and SA are the senior authors of this work. EDR is the guarantor of this research and accepts full responsibility for the finished work and the conduct of the study, had access to the data and controlled the decision to publish.

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ORCID iDs

Dominika Bhatia <http://orcid.org/0000-0002-9621-0672>
 Abirami Kirubarajan <http://orcid.org/0000-0001-9807-5024>
 Bernice Yanful <http://orcid.org/0000-0002-6824-6694>
 Sara Allin <http://orcid.org/0000-0002-0579-8985>

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