

BMJ Open Collaborative research methods and best practice with children and young people: protocol for a mixed-method review of the health and social sciences literature

Rebecca Nowland ¹, Laura Robertson,² Nicola Farrelly,³ Alastair Roy,³ Darren Sharpe ⁴, Cath Harris,⁵ Nora Morocza,⁴ Cath Larkins³

To cite: Nowland R, Robertson L, Farrelly N, *et al.* Collaborative research methods and best practice with children and young people: protocol for a mixed-method review of the health and social sciences literature. *BMJ Open* 2022;**12**:e061659. doi:10.1136/bmjopen-2022-061659

► Prepublication history and additional supplemental material for this paper are available online. To view these files, please visit the journal online (<http://dx.doi.org/10.1136/bmjopen-2022-061659>).

Received 09 February 2022
Accepted 01 September 2022



© Author(s) (or their employer(s)) 2022. Re-use permitted under CC BY-NC. No commercial re-use. See rights and permissions. Published by BMJ.

¹School of Community Health and Midwifery, University of Central Lancashire, Preston, UK

²Research Department, Poverty Alliance, Glasgow, UK

³School of Social Work, University of Central Lancashire, Preston, UK

⁴Institute for Connected Communities, University of East London, London, UK

⁵Applied Health Research Hub, University of Central Lancashire, Preston, UK

Correspondence to

Dr Rebecca Nowland;
rnowland@uclan.ac.uk

ABSTRACT

Introduction Children and young people have the right to participate in research on matters that affect them, and their contribution improves research quality and insights from findings. Discrete participatory approaches are used across different disciplines. This review will provide a synthesis of existing literature from different disciplines by working with young people and adults experienced in participatory research to develop a broad definition of child and youth led research and to identify best practice.

Methods and analysis Comprehensive searches will be conducted in eight electronic databases (PsycINFO, Medline, CINAHL, Embase, SocINDEX, ASSIA: Applied Social Sciences Index and Abstracts (Proquest), Social Care Online and SCOPUS). Grey literature reports will also be sourced using Google searching. Eligible studies will be English-language primary studies and reviews on collaborative research with children and young people (aged 5–25 years) published from 2000 onwards. Qualitative and quantitative data will be integrated in a single qualitative synthesis following the JBI convergent integrated approach. Study quality will be assessed by developed checklists based on existing participation tools cocreated with the project steering group and co-creation activities with young people.

Ethics and dissemination Ethical approval is not required as no primary data will be collected. The review will develop guidance on best practice for collaborative research with children and young people, synthesising learnings from a wide variety of disciplines. Dissemination will be via peer-reviewed publications, presentations at academic conferences and lay summaries for various stakeholders. Opportunities for cocreation of outputs will be sought with the young researchers and the project steering committee.

PROSPERO registration number CRD42021246378.

INTRODUCTION

It is widely acknowledged, across health and social sciences, that children and young people have the right to participate in research on matters that affect their lives, and

STRENGTHS AND LIMITATIONS OF THIS STUDY

- ⇒ Research focus, questions and analysis framework have been codesigned with young researchers experienced in participatory research.
- ⇒ Primary screening of the articles, data extraction and quality assessment will be performed independently by two persons to minimise the probability of personal biases.
- ⇒ Mixed method review methodology will enable an in-depth evidence synthesis across a disparate evidence base.
- ⇒ Databases in languages other than English (French, German, Chinese, etc) will not be searched or included which may cause language bias.
- ⇒ There are limited critical appraisal tools to assess quality of cocreated evidence bases that do not meet the conventional standards.

that their contribution to research adds value to the research processes and outcomes. Involving children and young people as partners in the research process improves research design and refines research priorities, increases the accessibility and attractiveness of research methods and ensures that children and young people's perspectives are represented in analysis and outputs providing fresh insights and recommendations based on their lived experience.¹ The right to participate in research is implicit in the 1989 United Nation's Convention on the Rights of the Child.² It is articulated explicitly in the 2012 Council of Europe Recommendation on Children's Participation³ which notes that member states (including the UK) should:

stimulate research on, with and by children and young people, with a view to enabling better understanding of the views and experiences of children and young

people, identifying obstacles to their participation and ways of overcoming them (3p9)

The paradigm shift from ‘research on’ to ‘research with and by children and young people’ is of particular significance here as it covers approaches to research that may be called ‘participatory’, in which children and young people take a greater or lesser lead in empirical studies. Increasingly research funders (eg, Economic Social Research Council, National Institute for Health Research (NIHR)) are expecting children and young people to be research advisors and/or coresearchers, with statements of patient and public involvement being required in funding applications. For example, NIHR in their UK 10-year plan for patient and public involvement and engagement published in 2015 commit to having ‘a population actively involved in research to improve health and well-being for themselves, their family and their communities’ and the ‘public as partners in everything we do’.⁴ Since 2012, a number of systematic or mapping reviews have been conducted on participatory research, however apart from reviews by Rouncefield-Swales *et al*¹ and Wilson *et al*⁵—which focus on health research—there has not been a synthesis involving different disciplines on participatory research in which children or young people collaborate with adult researchers and/or take a lead in particular aspects of the research. The interdisciplinary approach in this review will enable a refined examination of best practice in collaborative research with children and young people by drawing on social science and health understandings of interpersonal relationships and contexts, as well as diverse methodologies. This review coproduced with young people and adults experienced in participatory research, develops a broad definition of collaborative research with children and young people (ie, children and/or young people explicitly involved in at least one stage of the research process beyond just generating data and involvement in dissemination or recruitment of participants). It draws on learning from different disciplines/approaches, including youth participatory action research (YPAR), public and patient engagement, citizen science, community-based peer research and some forms of collaborative research with children and young people.

As mentioned, involving children and young people as collaborators in the research process not only impacts on research design and quality but it can also produce creative and situated forms of ‘learning in action’ (6p359) as well as ‘reflexive processes of social engagement’ (6p359), which create new spaces for generating and using knowledge.⁶ However, achieving these potential benefits is known to be challenging as it can be hard to ensure that power is distributed, that children and young people’s perspectives are valued, and that research is clearly linked into effective strategies for achieving personal and social change.^{7–10} There continues to be a need for more guidance, particularly on collaborating with marginalised children and young people in ways that enables them to genuinely lead.¹¹

In addition to being left out of knowledge production in the ways that adults experience (due to the intersections of ‘race’, ethnicity, gender, class, sexuality and disability), children and young people who experience discrimination through intersecting social ontologies, social categories and social relations face further marginalisation in research.¹² The exclusion of children and young people is pervasive due to dominant conceptions of children and young people as an homogenised social category represented as incompetent, vulnerable, politically immature and needing the completion of education in order to deserve recognition as citizens and as competent researchers.¹³ Young people are often conceived of as apathetic or troublemakers, rather than recognising how young people are alienated by neo-liberal practices.¹⁴ The battle over what counts as evidence¹⁵ can also render children and young people’s perspectives and sometimes their chosen means of expression, less valid than scientific orthodoxy.

Where children and young people are included in research, they are provided with information but tend to experience being ‘researched on’. Their influence over the research priorities to investigate, approaches to analysis and guidance on the use of research findings is less evidenced. In 1999, Pole *et al*¹⁶ noted that, despite the turn towards participatory methods across multiple disciplines, children and young people do not have enough research capital to make them serious stakeholders in the research process. Brownlie⁷ repeated this, echoing the concern that ‘children and young people remain a long way from the emancipatory call of ‘nothing about us, without us’’ (7p711). And still, a decade on, Lohmeyer⁸ repeats that ‘In theory, youth participatory methods are participant-led, and adults are involved in the process. However, there are social, historical, procedural and institutional barriers that make this ideal all but unachievable’ (8p44). This is despite the fact that some young people are ‘keen as f**k’ to participate.⁸

Unless these barriers to collaborative research with children and young people are fully understood and strategies for overcoming the challenges are shared, research risks being perpetuated as yet another form of symbolic violence.^{17 18} That is, it will create conditions which perpetuate and normalise children and young people’s subordinate position in processes of knowledge creation. Or, peer-led research may become a mechanism through which children and young people are exploited as lower paid or unpaid labour, to access young communities who are suspicious of mainstream health and social science research without allowing them power to identify what issues need investigating. There is therefore need for greater attention to the precise mechanisms, methods and reflexive stances which enable children and young people to lead research.¹⁸

Questions remain, however, about the kind of knowledge that is generated by collaborative research methods and attention to what we mean by concepts such as knowledge and epistemology. Young researchers cocreate

methods, including digital methods,¹⁹ photo-walks,²⁰ map-making²¹ and storytelling²² which extend beyond traditional methods. Young researchers highlight that these methods are experienced positively by research participants^{23 24} and hence these cocreative approaches acknowledge shared responsibilities and skills in health and social research.²⁵ But these methods are not always valued by end users of research outputs, resulting in biases towards research that is not always congruent with children and young people's interests, concerns and contexts. Policy actors, funders and commissioners may need greater awareness of a diversity of approaches to rigour, quality and impact,²⁶ and may need to extend their understanding of health and social research to also recognise the validity that arises from greater degrees of participation.²⁷ Evidence that can demonstrate how the knowledge from collaborative research with children and young people can be valued by and acted on by decision-makers may therefore provide further benefits.

What is needed is a synthesis of epistemologies and methodologies across a broad range of different disciplines to establish key contexts for successful research by and with children and young people. The current review addresses this gap by establishing precise mechanisms, methods and reflexive stances which enable children and young people to lead and collaborate as partners in research identifying best practice from existing evidence. The review will inform both researchers and policy actors, funders and commissioners of the diversity of approaches that may be appropriate to enable collaborative research with children and young people while maintaining academic rigour and quality. Barriers and challenges will be highlighted to ensure power imbalances are addressed and ways of working with marginalised groups will be identified. The review will be useful to guide future collaborative research with children and young people but will also identify key gaps in the evidence base where future work needs to be conducted.

Aim of the review

To identify theoretical principles and practice modes and mechanisms of effective collaborative research with children and young people in the field of health and social sciences, that are generalisable as a basis for designing effective peer research projects, protocols and establishing best practice.

The mixed methods review will scope and synthesise existing knowledge about best practice in conducting collaborative research with children and young people using the following research questions cocreated with young people and adults experienced in participatory research:

1. What are the opportunities, barriers and tensions in collaborative research with children and young people and how can these be understood and addressed?
2. What are the different modes and mechanisms of doing collaborative research with children and young

people? Which of these are valued, by whom, in which contexts and why?

3. How is success, impact and change documented, understood, negotiated and evaluated in collaborative research with children and young people?

Question 1 focusses specifically on issues identified by young people experienced in participatory research as critical involving *cushions* (eg, negotiated support with tasks, skills, decision making and managing the emotional impact of conducting research), *credibility*, *collaboration* and *change*. More detailed subquestions have been devised to address these highlighted issues:

- a. How do young and adult researchers ensure that young researchers have the *cushions* they want throughout the research process?
- b. Which processes and structures ensure *collaborative* research is acceptable and accessible to the diversity of children and young people (age, identity, experience of discrimination, economic situations)?
- c. How can we ensure that collaborative research with children and young people is maximised in terms of strengthening claims to knowledge and *credibility*, conveying convincing stories, linking to current opportunities and minimising risk of negative attention?
- d. Which processes and/or structures help ensure productive relationships between stakeholders, allies, contexts and resources to support the use of evidence to make *change* possible?

Ethics, safety, inclusion and power as themes relating to peer research will be considered across all research questions. We will also report on the topics into which peer research has been conducted and examine differences in modes, mechanisms and success across different topics.

Methods and analysis

This protocol is guided by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) checklist²⁸ online supplemental appendix 1, Joanna Briggs Institute (JBI) methodology for mixed-methods systematic reviews²⁹ and The Realist And Meta-narrative Evidence Syntheses—Evolving Standards (RAMESES) publication standards for realist syntheses and meta-narrative reviews.³⁰

Study registration

Based on the PRISMA guidelines,²⁸ the protocol for this systematic review was registered on the international database of prospectively registered systematic reviews in health and social care, PROSPERO. Any important protocol amendments will be recorded in PROSPERO and published with the results of the review.

Using the distinction of article types from Vaughn *et al*³¹ selected articles will be grouped into reviews, descriptive articles (those describing lessons learnt or a description of the programme) and process articles (process or training of a peer model) and articles that focused on the peers themselves and their experiences within a peer model/approach. The mixed methods review will involve: (a) a

systematic review of the review articles and (b) a realist synthesis of the process, descriptive papers and those written by young coresearchers.

The systematic review of reviews will identify and establish the core models and methods used in collaborative research with children and young people and the realist synthesis will offer a more nuanced understanding of what works in collaborative research with children and young people for whom, in what contexts and why. Findings will be triangulated and used to develop a critical appraisal tool to assess collaborative research with children and young people.

Eligibility criteria

Studies and reviews will be selected according to the criteria set out below.

Types of studies

We will include systematic and scoping reviews, descriptive and process papers (using the distinction made by Vaughn *et al*⁸¹) relating to peer research, including also grey literature reviews/reports. We will exclude papers that are exclusively empirical papers without description of process or reflections, dissertations, editorials, opinion pieces, commentaries, book or movie reviews, protocols, reports, case studies and erratum. We will only include studies about collaborative research with children and young people. We will exclude studies examining collaborative research in adult populations. Only studies written in English and only those published from 2000 (due to the exponential growth in young people's involvement in social research from 2000 onwards) will be included.

We will use a wide definition of collaborative research and include all reviews and process/descriptive papers including a wide range of terms used to describe this type of research (ie, participatory research, community-led research, peer research informed social action, community-based participatory research, peer led research, youth inquiry, coproduction, citizen science, YPAR etc).

Participants

We will include collaborative research with children and young people (aged 5–25 years) and exclude collaborative research conducted with adults. Articles about research with primary school aged children will be included to extrapolate potentially generalisable findings on peer research to an older population of children and young people, but we will be mindful of differences in developmental stages and needs.

Outcomes

Theoretical principles, practice and mechanisms and findings in relation to power, inclusivity, ethics, safeguarding, learning, methods, and impact.

We report on other important or critical factors and influencers of best practice in peer research highlighted by selected papers.

Search strategy

We recruited a review steering group involving participants from Youth Endowment Fund, study partners, appointed advisors and experienced young researchers from marginalised groups, academics experienced in youth participation and relevant third sector professionals and policy actors. Online discussions with this group (n=18) were held in the form of a week-long civic hackathon³² (creative problem-solving sessions conducted once a day (1½ hours long) for a full week in March 2021, also see the Patient and public involvement section) involving activities to enable:

1. Reflection and sharing of ideas about key concepts and challenges in peer research.
2. Reflection and definition of a proportionate systematic approach and relevant inclusion criteria.
3. Agreement of research questions, inquiry themes and focus for the review.

The findings from the online hackathon informed the focus of the research, search strategy, inclusion and exclusion criteria and framework for synthesis.

In addition, we conducted a priori scoping searches to identify key review papers in this specific research area which also informed our search strategy.

We will use the Preferred Reporting Items for Systematic Review and Meta-Analysis checklist (PRISMA³³) as a framework for the review.

We plan to conduct searches on eight bibliographic databases:

PsycINFO, Medline, CINAHL, Embase, SocINDEX, ASSIA: Applied Social Sciences Index and Abstracts (Proquest), Social Care Online and SCOPUS

Handsearching will also be used, involving forward and backward chaining and examination of references lists from reviews and key papers in this research area. We will also check author's personal files for any key studies. In accordance with PRISMA guidelines,³³ the number of search results will be recorded at each stage of the study identification process. In order to locate wider reviews on peer research that have been conducted we will include grey literature reports, which will be obtained through Google searching using the key words (first 200 hits will be screened).

The following search terms have been developed following a priori scoping exercises and online forum exercises with experienced young peer researchers and stakeholders:

(Child/ or Adolescent/ or child or children or kid or kids or girl* or boy* or adolescen* or teen* or Youth* young people or young adult or young person or young men or young women)

AND

Community-based participatory research/ or participatory research* or participatory method* or participatory approach* or participatory design or

participatory model* or user led research or peer led research or peer research* or consumer led research or action research or youth inquir* or co-produc* or coproduc* or co-research or coresearch or co-creation or cocreation or co-design* or codesign* or co-develop* or codevelop* or co-investigator* or co-investigator* or citizen science or citizen scientist or YPAR or advisory group* or advisory council or youth participation or young involved or child led research* or peer model or research partner or social action)

The search strategy will be adapted to meet the truncation and Boolean operations of each database as appropriate. The search strategy for each of the databases is presented (online supplemental appendix 2).

Study selection

Papers identified from database searches will be downloaded to Endnote and any duplicates removed. Screening by title and abstract will be conducted in Rayyan independently by one of the authors, with at least 20% of the papers screened by another author. Decisions will be based on the inclusion and exclusion criteria.

Once screening by title and abstract is complete, papers selected for full text screening will be sourced and then examined by one author independently, with at least 20% of the papers screened by another author. Reasons for exclusion will be noted at this stage.

Agreement at all stages will be made by consensus, and any disagreements regarding inclusion will be discussed with a third reviewer. Inter-rater reliability will be recorded at each screening stage (ie, title, abstract and full text screening).

Data extraction

Following screening, data will be extracted from all selected texts using data extraction sheets with a framework developed and cocreated with the steering group. A separate data extraction tool will be used for the review papers. As suggested by Daudt *et al*³⁴ at least 20% of data extracted will be charted by two authors independently using the data extraction tool. Once sufficient agreement (>80%) has been reached in the test phase, authors will apply the tool to the remaining studies. Disagreements between the authors completing the data extraction will be resolved through discussion, including the involvement of a third reviewer where necessary. It is expected that data extraction will include key study characteristics, participant characteristics, definitions of collaborative research, context (geographical locations, service and community settings, and issues), models and mechanisms (focussing specifically on research approaches and processes identified in hackathon activities: relationships, attitudes, approaches, resources, distribution of leadership, timescales, and change) and data relating to the cocreated frameworks based on identified challenges and tensions in peer research centred on *cushions*, *credibility*, *collaboration* and *change* (and other aspects relating to outcome). Data extraction will include verbatim quotes

from articles. We will also chart any other important or critical factors and influencers of best practice in peer research highlighted within selected papers.

During the data extraction stage, the research team will meet on a regular basis to discuss progress, and to consider decisions regarding the relevance and adequacy of the data collection tool. Those discussions will be documented along with any changes to the study protocol and data extraction. Study authors will be contacted if additional information is required (eg, context related details of the study).

Assessment of methodological quality

Two authors will independently assess the research quality and bias of each of the included articles involving studies of peer research using developed checklists based on existing participation tools (eg, Larkins *et al*'s Participation Lattice³⁵; Shier's analytical tool³⁶) cocreated with the steering group and based on the results of activities in the hackathon. Using these frameworks enables a critical appraisal of the participation of young people in the studies rather than merely an assessment of research quality that is typically demonstrated by appraisal tools to incorporate that the knowledge generated by collaborative research and how it is reported does not always meet conventional standards of research quality. Discrepancies between the review authors will be resolved by discussion, consulting a third review author where necessary.

Two authors will independently assess the research quality and bias of all the review articles included using the AMSTAR 2 Appraisal Tool³⁷ for systematic reviews. This tool is a necessary starting point for the review of reviews, to measure quality of protocol and reporting of systematic reviews. Adaptations of this tool will be developed alongside RAMESES, if needed, to enable incorporation of wider literature (ie, grey literature reports, realist reviews). Inter-rater reliability will be reported and any discrepancies between authors will be resolved through discussion or where necessary a third author will be consulted.

DATA SYNTHESIS

Data extracted will be collated, summarised and synthesised narratively. Data will be presented as tables, charts and/or visual maps in an aggregate rather than individual basis, to provide an overview of the research field, summarise findings, identify gaps in the literature and make recommendations for future research. Data analysis will be conducted in two phases: (1) narrative synthesis of theoretical principles (ie, definitions of peer research) and mechanisms/methods used and (2) analysis of findings around contexts and the coproduced thematic framework *cushions*, *credibility*, *collaboration* and *change* and (3) content and thematic analysis using a cocreated realist framework. We will explore youth characteristics and contextual factors that influence what works for collaborative research with children and young people. The

realist review will aim to provide a theory outlining the contexts and mechanisms and particular young people where collaborative research enables participation and influence, placing specific emphasis on typically marginalised youth. The findings across the different reviews will be collated into an accessible report focussing on identifying best practice for collaborative research with children and young people.

Patient and public involvement

The public were involved from the very start of developing the protocol. Young researchers and non-academic third sector professionals (service providers and funders) took part in a series of online discussions with academics. This was framed as a civic hackathon,³² that is a series of online events held in quick succession, with the aim of identifying what is currently understood by the term peer research by and with children and young people, to explore the challenges and potential of these approaches and to create a set of questions to guide the review. Four online events were conducted, of around 90 min each, to frame the review. The events were facilitated by senior academics experienced in participatory research with young people. We used visual aids and online scribing to elicit the perspectives of young people and adults experienced in participatory research and then guest academics were asked to respond to this. At the end of every meeting we created a 3 min summary of key discussion points and perspectives and shared this, along with the visual and text notes of the meeting, to support the participation of those who could not attend on specific days. Contributors to these non-synchronous discussions tended to be academics. At the start of every meeting we reviewed the story of our discussions so far, and summarised content that had been provided in between meetings. At the end of the third meeting, ideas generated to date were used to draft initial questions for the review. These were amended and finalised at the fourth meeting.

While the review has been underway a further two online events have been held to discuss emerging findings and potential outputs and a further four events are planned to enable young researchers to contribute to at least one accessible output (an audio podcast has been planned) and all academic articles. Young people have decided that the podcast will be shared on an open access platform codesigned by young researchers for young researchers. All participants in these activities either contributed as part of paid roles or received a thank you in the form of vouchers.

Ethics and dissemination

Ethical approval and consent to participate are not required for the proposed systematic review as no primary data will be collected. Collaborative work with the experienced young researchers was conducted as part of an ongoing university research collaboration network. Young people receive information about the network and each activity. They, and their parents if under 16 years, provide

signed consent to join the network and verbal consent to participate in any given activity. The findings of the mixed methods review will be written up as a report which will directly inform peer research training for the Peer Research and Social Action Network, funded by the Youth Endowment Fund together with the #iwill Fund and the Co-op Foundation. The Peer Research and Social Action Network will support young people affected by violence to become Peer Researchers and Changemakers. We will also explore opportunities with youth peer researchers to cocreate accessible outputs to be disseminated through peer research networks. We expect that the findings will be written up in peer reviewed academic journals as a systematic review of reviews, realist synthesis reviews of papers about processes of peer research, and intergenerational reflections on the review process.

Acknowledgements The authors thank the project steering committee, youth and adult researchers experienced in peer research that inputted into the development of the research plan and protocol.

Contributors CL is the guarantor. RN and CL drafted the manuscript. All authors contributed to the development of the selection criteria, the risk of bias assessment strategy and data extraction criteria. RN, CL and CH developed the search strategy. CL, LR, DS, NF, NM and AR provided expertise on peer research with children and young people. RN and LR provided expertise on systematic review methodology. All authors read, provided feedback and approved the final manuscript.

Funding This work was supported by a grant from the Youth Endowment Fund. The funders were not involved in the development of this review protocol.

Competing interests None declared.

Patient and public involvement Patients and/or the public were involved in the design, or conduct, or reporting, or dissemination plans of this research. Refer to the Methods section for further details.

Patient consent for publication Not applicable.

Provenance and peer review Not commissioned; externally peer reviewed.

Supplemental material This content has been supplied by the author(s). It has not been vetted by BMJ Publishing Group Limited (BMJ) and may not have been peer-reviewed. Any opinions or recommendations discussed are solely those of the author(s) and are not endorsed by BMJ. BMJ disclaims all liability and responsibility arising from any reliance placed on the content. Where the content includes any translated material, BMJ does not warrant the accuracy and reliability of the translations (including but not limited to local regulations, clinical guidelines, terminology, drug names and drug dosages), and is not responsible for any error and/or omissions arising from translation and adaptation or otherwise.

Open access This is an open access article distributed in accordance with the Creative Commons Attribution Non Commercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited, appropriate credit is given, any changes made indicated, and the use is non-commercial. See: <http://creativecommons.org/licenses/by-nc/4.0/>.

ORCID iDs

Rebecca Nowland <http://orcid.org/0000-0003-4326-2425>

Darren Sharpe <http://orcid.org/0000-0001-7418-4496>

REFERENCES

- 1 Rouncefield-Swales A, Harris J, Carter B, *et al*. Children and young people's contributions to public involvement and engagement activities in health-related research: a scoping review. *PLoS One* 2021;16:e0252774.
- 2 Assembly UG. Treaty Series. In: *Convention on the rights of the child United nations*. , 1989: 1577, 1–23.
- 3 Co E. *Council of Europe recommendation on the participation of children and young people under the age of 18*, 2012.

- 4 Denegri S, Coldham T, Eglin S. *Going the extra mile: improving the nation's health and wellbeing through public involvement in research*. London: NIHR, 2015.
- 5 Wilson O, Daxenberger L, Dieudonne L. *A rapid evidence review of young people's involvement in health research*. 3. London: Wellcome, 2020.
- 6 Percy-Smith B, Thomas NP, Batsleer J. *Everyday pedagogies: new perspectives on youth participation, social learning and citizenship*. Young People and the Struggle for Participation: Routledge, 2019: 177–98.
- 7 Brownlie J. Researching, not playing, in the public sphere. *Sociology* 2009;43:699–716.
- 8 Lohmeyer BA. 'Keen as fuck': youth participation in qualitative research as 'parallel projects'. *Qualitative Research* 2020;20:39–55.
- 9 Powell MA, Graham A, McArthur M, et al. Children's participation in research on sensitive topics: addressing concerns of decision-makers. *Child Geogr* 2020;18:325–38.
- 10 Tisdall EKM. Conceptualising children and young people's participation: examining vulnerability, social accountability and co-production. *The International Journal of Human Rights* 2017;21:59–75.
- 11 INVOLVE. Report on involving children and young people in research, 2019
- 12 Anthias F. Intersectional what? social divisions, intersectionality and levels of analysis. *Ethnicities* 2013;13:3–19.
- 13 Larkins C. Essential ingredients in child-and young-person-led research. Participation, citizenship and intergenerational relations in children and young people's lives: Children and adults in conversation. *Springer* 2014:109–16.
- 14 Furlong A, Cartmel F. *Young people and social change*: McGraw-Hill education (UK), 2006
- 15 Stevens A. When two dark figures collide: evidence and discourse on drug-related crime. *Crit Soc Policy* 2007;27:77–99.
- 16 Pole C, Mizen P, Bolton A. Realising children's agency in research: Partners and participants? *Int J Soc Res Methodol* 1999;2:39–54.
- 17 Kiili J, Larkins C. Invited to labour or participate: intra- and inter-generational distinctions and the role of capital in children's invited participation. *Discourse* 2018;39:408–21.
- 18 Roy A, Kennelly J, Rowley H, et al. A critical discussion of the use of film in participatory research projects with homeless young people: an analysis based on case examples from England and Canada. *Qualitative Research* 2021;21:957–74.
- 19 Sharpe D, Spyrou S, Akhtar S. Routledge. In: *Critical reflections: Merits of Co-producing Youth-centric Digital Technology in Keeping Young People Safe across Europe* London, 2019.
- 20 Hughes J, Roy AN, Manley J. *Surviving in Manchester: Narratives on Movement from the Men's Room* 2014.
- 21 Dake G, Roy A. Map-making and walking interviews: a psycho-social approach to researching with male sex workers. *Social Research Practice* 2018;5:12–23.
- 22 Satchwell C, Larkins C, Davidge G, et al. Stories as findings in Collaborative research: making meaning through fictional writing with disadvantaged young people. *Qualitative Research* 2020;20:874–91.
- 23 Roy A. Learning on the move: exploring work with vulnerable young men through the lens of movement. *Applied Mobilities* 2016;1:207–18.
- 24 Roy A, Hughes J, Froggett L. *Using mobile methods to explore the lives of marginalised young men in Manchester*. Innovations in social work research London: Jessica Kingsley Publishers, 2015.
- 25 Cuevas-Parra P, Tisdall EKM. Child-Led research: Questioning knowledge. *Soc Sci* 2019;8:44.
- 26 OPM. *Creative influence: research led by young people*. London: Public Interest Research Report, 2010.
- 27 Spyrou S. *Disclosing Childhoods: research and knowledge production for a critical childhood studies*. Basingstoke: Palgrave Macmillan, 2018.
- 28 Moher D, Shamseer L, Clarke M, et al. Preferred reporting items for systematic review and meta-analysis protocols (PRISMA-P) 2015 statement. *Syst Rev* 2015;4:1–9.
- 29 Stern C, Lizarondo L, Carrier J, et al. Methodological guidance for the conduct of mixed methods systematic reviews. *JBIM Evid Synth* 2020;18:2108–18.
- 30 Wong G, Greenhalgh T, Westhorp G, et al. Development of methodological guidance, publication standards and training materials for realist and meta-narrative reviews: the RAMESES (realist and Meta-narrative evidence syntheses – evolving standards) project. *Health Serv Deliv Res* 2014;2:1–252.
- 31 Vaughn LM, Whetstone C, Boards A, et al. Partnering with insiders: a review of peer models across community-engaged research, education and social care. *Health Soc Care Community* 2018;26:769–86.
- 32 Yuan Q, Gasco-Hernandez M. Open innovation in the public sector: creating public value through civic hackathons. *Public Management Review* 2021;23:523–44.10.1080/14719037.2019.1695884
- 33 Page MJ, McKenzie JE, Bossuyt PM. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. *Bmj* 2021;372.
- 34 Daudt HML, van Mossel C, Scott SJ. Enhancing the scoping study methodology: a large, inter-professional team's experience with Arksey and O'Malley's framework. *BMC Med Res Methodol* 2013;13:1–9.
- 35 Larkins C, Kiili J, Palsanen K. A lattice of participation: reflecting on examples of children's and young people's collective engagement in influencing social welfare policies and practices. *European Journal of Social Work* 2014;17:718–36.
- 36 Shier H, Berson I, Berson M. *An analytical tool to help researchers develop partnerships with children and adolescents. Participatory methodologies to elevate children's voice and agency*, 2019: 295–316.
- 37 Shea BJ, Reeves BC, Wells G, et al. AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or non-randomised studies of healthcare interventions, or both. *BMJ* 2017;358:j4008.