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Abstract

Background Early years interventions are critical to children's health and development and are emerging as core to

This paper illustrates the utilisation of participatory action research (PAR) approach, employing creative methods, including spider grams, service mapping and photovoice, with health professionals delivering ABSS services. PAR methods enabled exploration of community resources that facilitate or impede early childhood development in the local context.

Results Operationalising PAR yielded critical providers' perspectives on key challenges of delivering these programmes, and the factors that in their view impeded their uptake by families and hence effectiveness. The

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Background

Ensuring a healthy start is critical for good early childhood development [1]. Recognising this as a key priority for public health, the World Health Organization (WHO) published first guidance on the topic in 2020 [2]. While highlighting multiple areas of care and development, the WHO distil their recommendations into four key domains of effort to best support child health: responsive caregiving, promoting early learning, integrating caregiving and nutrition interventions, and supporting maternal mental health. In parallel, recognition of the role of early childhood in adult and population health has spurred the production of a wealth of scholarly conceptualisations of health promotion strategies [3–5] and the development of early years interventions (EYIs). EYIs typically aim to target one or more of the priority domains identified above, with high variance in the strategies and initiatives adopted in countries. For example, in the United Kingdom (UK), child nutrition is promoted through clinical guidance (such as the National Institute of Health and Care Excellence's guidance on 'Maternal and child nutrition' [6]), charitable campaigns like the 'Baby Friendly Initiative' [7], financial schemes (e.g. the 'Healthy Start' voucher scheme supporting parents with young children to purchase healthy food [8, 9]) and a deluge of educational material for parents and carers.

Other EYIs apply a more expansive and holistic model addressing multiple domains of development, for example, England's 'Sure Start' Children Centres which included child health services, pre- and post-natal classes, additional parental courses, childcare and education [10]

value of their data, which could provide “a description of the often-hidden processes through which such an initiative can be developed within a described context” [22, p.7]. Privileging the voices of the key social actors and stakeholders is valuable for understanding the nuances and complexities of such programmes.

Participatory action research (PAR) enables “collective, self-re active inquiry that researchers and partici-

comprised more detail on the issue, different facets of the issue and possible solutions. This more generic discussion on their roles and key challenges was expanded and given more focus by introducing the service mapping activity [30] – a form of asset-mapping, commonly used in community-based PAR work [31]. The activity, detailed below, enabled greater reflection on the rationale for the service, the underlying assumptions and resources necessary to deliver its different components.

Participatory mapping is used in varied and creative forms across fields, but broadly describes an interactive visual method to tackle specific questions, which facilitate a process of description, to elaboration, to theorisation which can complement traditional verbal approaches [30]. For this study, a modified technique was used whereby participants were tasked with visualising their associated service pathway and to reflect on what they consider their ideal service pathway for achieving the objective of their respective workstream would be, if resources were not a constraint. This visual activity aimed to understand what practitioners wanted to see from their service and why, and empower them to hypothetically design the care pathways that would achieve success and good healthy child development. The pathways also stimulated reflection on the policy, system and

*probably going to go through a couple of tubs a week,
which is at least £20.”*

“I’ve seen a mum recently who ph17

is process produced rich and insightful data, which participants made sense collectively, as has been described above – reflective of a transformative praxis of collective critical consciousness” (33, p287) raising [38, 39]. For example, participants in the CLD workstream discussed what engaging in photovoice enabled:

P1 “Had we not had the pictures, I don’t think we’d have necessarily come up with as much stuff that we have or have had the discussions we have had.”

P2 “Yeah. It’s allowed some really good, valid, creative discussion points from different perspectives as well.”

“...ey (health visitors) invite them (parents) down to a room within the hostel to explain the services. We’ve had quite a few discussions with the health visitor about this, but she said they just don’t come down.” CLD workstream participant.

“Sometimes the interpreters don’t turn up, or it’s only via a telephone link. It’s very hard to interpret still, because you can’t see any facial expressions. And just being able to book somebody can be quite difficult at times as well.” DAN workstream participant.

“You can translate the communication skills screening tool into certain European languages, but other languages not necessarily. There are no words for some of the words we are using. They don’t exist.” CLD workstream participant.

We observed participants as a group moved incrementally from ‘challenge’ to identifying ‘solutions’. A notable finding from this was the need for better working relationships between practitioners across different services that were hitherto operating in silos. Being in the collective space that PAR enabled made participants acknowledge this. For example, discussions between health visitors and midwives led to clear recognition that it would benefit both teams if they worked more closely, and/or had a better communication system between their services. Reaction through photovoice also supported the sharing of innovation and knowledge exchange, as one participant described through their photograph of a session at the Lighthouse Child Development Centre - a local diagnostic centre for children with special education needs (Fig. 3). The image depicted a ‘barrier’ - this was the only service offering diagnostic assessments in the area meaning long wait times, and as such children and families were for a long time not provided with support.

The participant subsequently highlighted a successful piece of work they had achieved which provides grounds for a solution to the identified challenge, as articulated in the quote below. This is illustrative of the establishment of empowered relationships, and an empowering environment – central to the process of PAR [27].

The image is of a play session taking place at the of the Lighthouse Child Development Centre in Southend.

“...is a picture of the Lighthouse Child Development Centre, which is the only diagnostic centre in Southend that children with special educational needs and disabilities can go to get diagnosed... It’s a massive challenge for families to get into this centre. The waiting list for appointments are a year or more long, so they wait years and years and years to get into this centre.” SED workstream participant.

“...there’s another thing I wanted to mention about this photo. While taking this, we actually went into the

Lighthouse as a service, and we did a presentation for their staff on what our service is about and how we can assist them and work together. So, a positive note to this picture is that we’ve now agreed to work together, our service and the Lighthouse...”. SED workstream participant.

The quotes are also a reminder of the challenges with the ABSS programme in meeting the needs of some of the most vulnerable in the community, and the need for more connected services. The use of photovoice, and PAR approaches more broadly, in stimulating this transformative, positive reaction serves as valuable evidence of the usefulness of this approach in evaluation.

The photovoice methodology also offered the space to contemplate nuanced paradoxes in facilitators and barriers to accessing health. With reference to the image provided in Fig. 4 below, a participant in the SED workstream commented: “I took a picture of the seafront because I feel that Southend is a bit of a double-edged sword.” They clarified:

“I feel like in terms of social and emotional development, for some of our families, being on the seafront is a godsend...every Wednesday we do a wellbeing walk and we rotate around different areas... I just

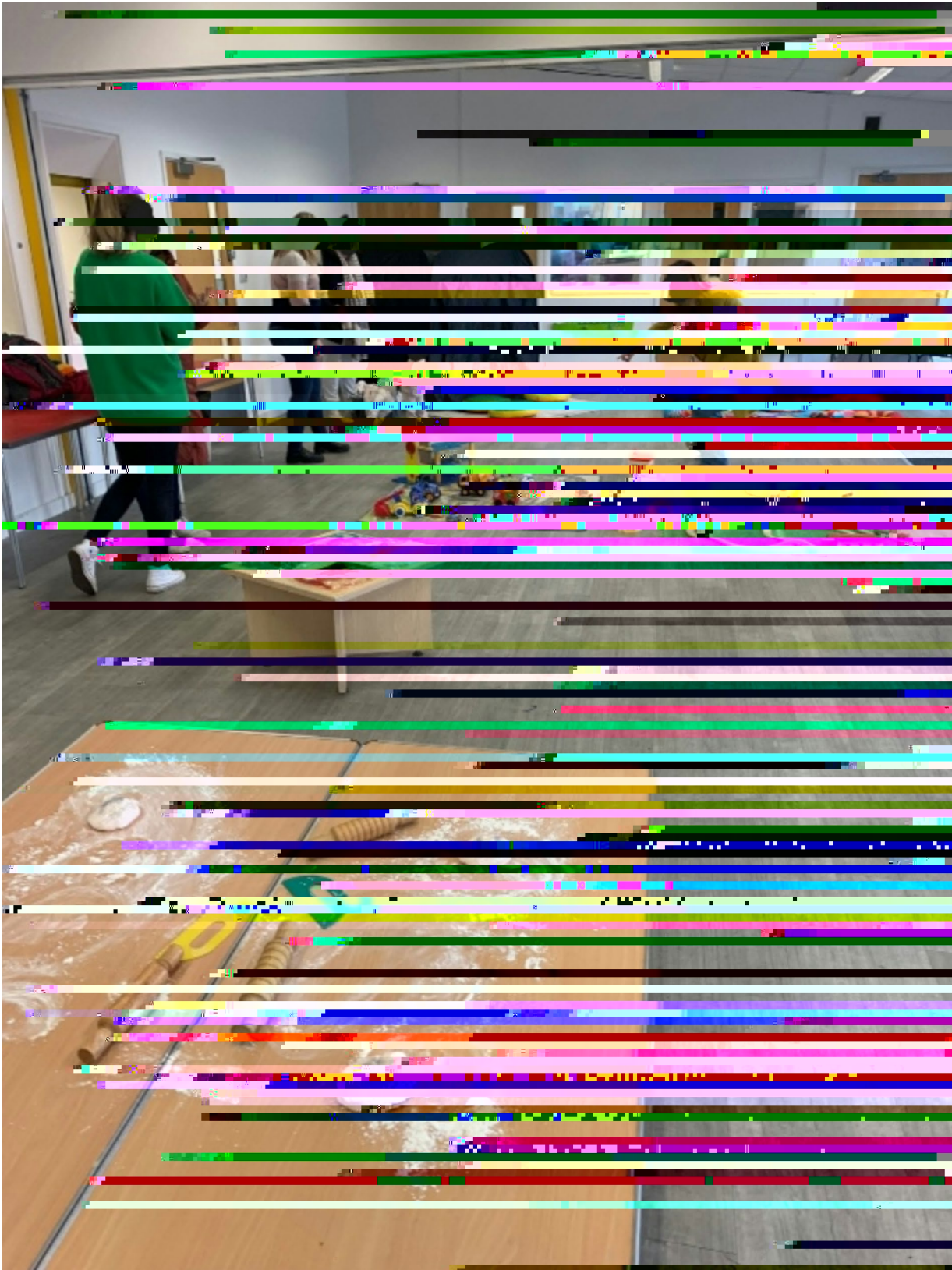


Fig. 3 A photovoice image from the SED workstream

goes beyond simply considering the effectiveness of a given programme but extends into a more radical under-

“I know that these are the areas that our families are finding challenging, a struggle. So, it was quite interesting to sort of go out and find this is a problem. It was exciting to share that with others and find their views and experiences resonating with ours” SED workstream participant.

Engagement in this work offered participants time and space to reflect on aspects of their work and experiences which might not be routine (or even possible) in their

health practitioners delivering services brought them into a generative space that was created to identify problems, consider solutions and produce an action agenda, which was evidenced through knowledge, knowledge-in-action and transformation. We consider that utilising PAR was especially powerful in framing critical evaluation points not just in terms of process (for example, issues with staffing), logistics (for example, the limitation of ABSS to only selected wards in Southend) or resource (for example, lack of interpreters) that perhaps are the focus in more traditional evaluation methods, but broader socio-economic and socio-political factors. This leads us to recommend PAR as an approach that could also be embedded for service design and delivery in future.

Ultimately, though advancing access to specific services and assets and benefiting parts of the community, our research indicates that the ABSS programme may have fell short in effectively enhancing access to health services for all, due to the unsurmountable influence of broader socio-economic and socio-political determinants – such as the cost of living, housing, ethnicity-based exclusion and deprivation. Future public health EYIs would benefit from taking an intersectional, multi-systems approach to ensure those on the margins of society can benefit. The equity dimension of EYIs should be evaluated through a range of diverse methods including embedding PAR from the onset, and for final evaluations. Consideration of PAR tools to sustain consciousness-raising and transformation of and among participants and community agendas is worthwhile. In the context of intersectional work with marginalised groups, that needs to account for historical barriers and on-going unequal power dynamics, PAR has much to offer through long-term, sustained engagement [44, 48].

Abbreviations

PAR participatory action research
ABSS A Better Start Southend

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Author contributions

KC: data collection and analysis, writing, editing, approval of final manuscript. MM: editing, writing, approval of final manuscript. AK: Principal Investigator - study conception and design, data collection, PAR facilitation, analysis, writing, editing, approval of final manuscript.

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Data availability

The datasets generated and/or analysed during the current study are not publicly available due their procurement for a commissioned evaluation only and are not for wider use.

Declarations

Ethics approval and consent to participate

Ethics approval was granted by the University of Essex's Research Ethics Committee 2 (Reference: ETH2021-1297). Participants provided written informed consent to participate in the research. The study processes adhered to the Declaration of Helsinki [48]

13. UK Government. Best start for life: A vision for the 1,001 critical days: the early years healthy development review report. United Kingdom: Department of Health and Social Care. 2021.
14. McGowan VJ, Buckner S, Mead R, McGill E, Ronzi S, Beyer F, et al. Examining the effectiveness of place-based interventions to improve public health and reduce health inequalities: an umbrella review. *BMC Public Health*. 2021;21(1):1888.
15. McGill E, Er V, Penney T, Egan M, White M, Meier P, et al. Evaluation of public health interventions from a complex systems perspective: A research methods review. *Soc Sci Med*. 2021;272:113697.
16. McGill E, Marks D, Er V, Penney T, Petticrew M, Egan M. Qualitative process evaluation from a complex systems perspective: A systematic review and framework for public health evaluators. *PLoS Med*. 2020;17(11):e1003368.
17. Russell NCC, Wallace LM, Ketley D. Evaluation and measurement for improvement in service-level quality improvement initiatives. *Health Serv Manage Res*. 2011;24(4):182–9.
18. Coles E, Cheyne H, Daniel B. Early years interventions to improve child health and wellbeing: what works, for whom and in what circumstances? Protocol for a realist review. *Syst Rev*. 2015;4:79.
19. Burgemeister FC, Crawford SB, Hackworth NJ, Hokke S, Nicholson JM. Place-based approaches to improve health and development outcomes in young children: A scoping review. *PLoS ONE*. 2021;16(12):e0261643.
20. Krieger N. Living and dying at the crossroads: racism, embodiment, and why theory is essential for a public health of consequence. *Am J Public Health*. 2016;106(5):832–3.
21. Sammons P, Sylva K, Hall J, Evangelou M, Smees R. Challenges facing interventions to promote equity in the early years: exploring the 'impact', legacy and lessons learned from a National evaluation of children's centres in England. *Oxf Rev Educ*. 2023;49(1):114–35.
22. Deas L, Mattu L, Gnich W. Intelligent policy making? Key actors' perspectives on the development and implementation of an early years' initiative in Scotland's public health arena. *Soc Sci Med*. 2013;96:1–8.
23. Kapilashrami A, Marsden S. Examining intersectional inequalities in access to health (enabling) resources in disadvantaged communities in Scotland: advancing the participatory paradigm. *Int J Equity Health*. 2018;17(1):83.
24. A Better Start Southend| Our work to develop and test better children's services in Southend. [cited 2024 May 7]. Available from: <https://abetterstartsouthend.co.uk/about/>
25. Office for National Statistics. Exploring local income deprivation - Southend. [cited 2024 May 14]. Available from: <https://www.ons.gov.uk/visualisations/dvc1371/>
26. Cousins JB, Earl LM. The Case for Participatory Evaluation. 1995.
27. Cornish F, Breton N, Moreno-Tabarez U, Delgado J, Rua M, de-Graft Aikins A, et al. Participatory action research. *Nat Rev Methods Primers*. 2023;3(1):1–14.
28. Ahmed S. *Living a feminist life*. Durham, NC: Duke University Press. 2017:312.
29. Lynam T, Bousquet F, Le Page C, d'Aquino P, Barreteau O, Chinembiri F et al. Adapting Science to Adaptive Managers: Spidergrams, Belief Models, and Multi-agent Systems Modeling. *Conservation Ecology*. 2002 Jan 2 [cited 2024 Jan 30];5(2). Available from: <https://www.ecologyandsociety.org/vol5/iss2/art24/>
30. Emmel N. Participatory Mapping: An innovative sociological method. *Real Life Methods*; 2008 Jul [cited 2024 Jan 30]. Available from: <https://eprints.ncr.m.ac.uk/id/eprint/540/>
31. Lightfoot E, McCleary JS, Lum T. Asset mapping as a research tool for Community-Based participatory research in social work. *Social Work Res*. 2014;38(1):59–64.
32. Suprpto N, Sunarti T, Suliyannah, Wulandari D, Hidayatullaah HN, Adam AS, et al. A systematic review of photovoice as participatory action research strategies. *Int J Evaluation Res Educ*. 2020;9(3):675–83.
33. Wang CC. Photovoice: a participatory action research strategy applied to women's health. *J Womens Health*. 1999;8(2):185–92.
34. Wang CC, Pies CA, Family, Maternal, and Child Health Through Photovoice. 2004 Jun [cited 2024 May 7]. Available from: <http://deepblue.lib.umich.edu/handle/2027.42/45326>
35. Tsang KK. Photovoice data analysis: critical approach, phenomenological approach, and beyond. *Beijing Int Rev Educ*. 2020;2(1):136–52.
36. Braun V, Clarke V. *Thematic Analysis: A Practical Guide*. 1st ed. Sage; 2021 [cited 2022 Oct 21]. 376 p. Available from: <https://us.sagepub.com/en-us/na/m/thematic-analysis/book248481>
37. O'Brien BC, Harris IB, Beckman TJ, Reed DA, Cook DA. Standards for reporting qualitative research: A synthesis of recommendations. *Acad Med*. 2014;89(9):1245.
38. De Oliveira B. Participatory action research as a research approach: advantages, limitations and criticisms. *Qualitative Res J*. 2023;23(3):287–97.
39. Learning from feminist participatory action research. A framework for responsive and generative research practices with young people. [cited 2024 Jul 16]. Available from: <https://journals.sagepub.com/doi/epub/10.1177/14767503241228502>
40. Singh G, Uthayakumar-Cumarasamy A. Cost of living crisis: a UK crisis with global implications – A call to action for paediatricians. *BMJ Paediatrics Open*. 2022;6(1):e001631.
41. Cahill C. The personal is political: developing new subjectivities through participatory action research. *Gender. Place Cult*. 2007;14(3):267–92.
42. Wheeler J, Shaw J, Howard J. Politics and practices of inclusion: intersectional participatory action research. *Commun Dev J*. 2020;55(1):45–63.
43. Edwards R, Gillies V, Horsley N. Early intervention and Evidence-Based policy and practice: framing and taming. *Social Policy Soc*. 2016;15(1):1–10.
44. Burgess RA, Choudary N. Time is on our side: operationalising 'phase zero' in coproduction of mental health services for marginalised and underserved populations in London. *Int J Public Adm*. 2021;44(9):753–66.
45. Peeters J, Rohrmann T, Emilsen K. Gender balance in ECEC: why is there so little progress? *Eur Early Child Educ Res J*. 2015;23(3):302–14.
46. Edwards R, Gillies V. (M)othering and the politics of early intervention: bioligisation and the reproduction of gendered, classed, and raced inequalities. *Motherhood in contemporary international perspective*. Routledge. 2019.
47. Cornwall A. Whose voices?? Whose choices?? Reflections on gender and participatory development. *World Dev*. 2003;31(8):1325–42.
48. The World Medical Association. Declaration of Helsinki – Ethical Principles for Medical Research Involving Human Participants. 2024 Dec [cited 2025 Feb 12]. Available from: <https://www.wma.net/policies-post/wma-declaration-of-helsinki/>

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